

**ASSESSMENT REPORT ON THE  
2007 Soil Geochemical and Prospecting Program  
JOSS'ALUN COPPER PROJECT**

Work carried out on the following claim groups:

Grant Number	Claim Name
396348-396357	D1 – D10
396360-396361	D11 – D12
396517-396518	Knack 1 – Knack 2
506067	Nak 1
506069	Nak 2
506073 – 506074	Nak 3 – Nak 4
542224 – 542230	Gerry 1 – Gerry 7
542232 – 542235	Gerry 8 – Gerry 11
542258	Gerry 12
543171	

**BC Geological Survey  
Assessment Report  
29589**

August 20 to August 28, 2007

Atlin Mining Division

NTS map sheet 104-N/2W  
59° 01' N, 132° 53' W

British Columbia

By

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**COPPER RIDGE EXPLORATIONS INC.**

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February 1, 2008

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## **1.0 SUMMARY**

The Joss'alun copper property (the "Property") is located approximately 75 kilometres south east of Atlin, near the Yukon border in northern British Columbia. The Property consists of 31 contiguous claims in the Atlin Mining Division, comprising 14 two-post "legacy" claims and 17 MTO (mineral titles online) claims, staked according to the BC government's online mineral staking system. The claims are 100% owned by Copper Ridge Explorations Inc., and under option to Lomiko Resources Inc. The 2007 exploration program comprised a one week-long soil sampling, mapping and prospecting program designed to extend the existing soil grid and extend the mapping beyond the current limits.

Ninety-seven soil geochemical samples were collected at 25 metre intervals along 100 metre spaced, north-south oriented lines. This program extended the existing soil geochemical anomaly and identified a number of areas for immediate follow up. The mapping and prospecting program identified three previously unrecognized areas of anomalous copper values in outcrop and float, which also require follow up. The results of this program demonstrate the continued prospectivity of the Joss'alun area and the potential for the discovery of a significant volcanic hosted massive sulphide deposit.

It is recommended that ongoing exploration on the Property include a detailed, low level airborne electromagnetic and magnetic survey, to be followed by drill testing. Drilling should focus on EM conductors, particularly those which lie along favourable stratigraphy, at or near the top of the volcanic horizon, especially where these are associated with known mineralization or soil geochemical anomalies.

## **2.0 INTRODUCTION**

### **2.1 Terms of Reference and Participating Personnel**

This report summarizes the results of a soil geochemical and mapping/prospecting program conducted during the summer of 2007. The program was funded by Lomiko Resources Inc. ("Lomiko") and operated by Copper Ridge Explorations Inc. ("Copper Ridge"). Total expenditures for the soil sampling, mapping, prospecting, helicopter support, geological and logistical support being applied as assessment to the Joss'alun claims is \$15,000. The authors of this report conducted and supervised the 2007 geochemical and mapping/prospecting program.

Discovery Helicopters, based in Atlin, British Columbia, provided air transportation and support. Geological and logistical support for the drilling program was provided by Copper Ridge Explorations Inc staff. Acme Laboratories of Vancouver, British Columbia completed the assays.

## **2.2 Source Documents**

This report incorporates data from historical work conducted by Copper Ridge and Imperial Metals Corporation (“Imperial Metals”), in addition to publicly available assessment reports and unpublished data. This work is supported by historical and current regional geological and geophysical studies carried out by the British Columbia Geological Survey as part of the federally and provincially funded Targeted Geoscience Initiative

## **3.0 PROPERTY DESCRIPTION AND LOCATION**

### **3.1 Location and Access**

The Joss’alun property is located 75 kilometres southeast of Atlin, in northern British Columbia near the Yukon border (Figure 1). It lies within NTS map sheet 104-N/2W (104N 006), at 59° 01’ north latitude and 132° 53’ west longitude, in the Atlin Mining Division. Access is by helicopter only, which can be chartered year-round out of Atlin. Floatplanes can land on Windy Lake, located 8 kilometres to the north west of the Property, although there is currently no road access linking the lake to the Property.

### **3.2 Physiography and Climate**

The project area is located in moderately mountainous terrain, west of Peridotite Peak and north of Hardluck Peaks. U-shaped valleys separate generally rounded peaks and ridges. Elevations in the project area range between 1160 and 1709 metres. Tree line is at approximately 1300 metres. Climatically, the region is characterized by long cold winters and short cool summers with average temperatures around -15°C in January and 12°C in July. Precipitation is low.

### **3.3 Land Tenure**

The Joss’alun project covers an area of approximately 2,032 hectares in the Atlin mining division and comprises 31 contiguous mineral claims (Table x, Figure x), which consist of 14 two-post “legacy” claims and 17 MTO (mining tenements online) claims, filed under the BC government’s new online staking system. The claims are 100% owned by Copper Ridge, in part subject to royalties and additional share issuances to an underlying Property vendor. Expiry dates shown are subject to acceptance of assessment covered by this report.

## **4.0 HISTORY**

BC Geological Survey geologists mapping in the Atlin area discovered the Joss’alun showing in summer of 2002 in an area previously not known to host mineralization. Copper Ridge and Tenajon Resource Corporation (“Tenajon”) staked the Joss’alun showing and approximately 2 kilometres of prospective stratigraphy to the northwest on September 13<sup>th</sup>, the day that the British Columbia government publicly announced the discover. Imperial Metals staked the Dark claim to cover prospective stratigraphy to the southeast the following day.

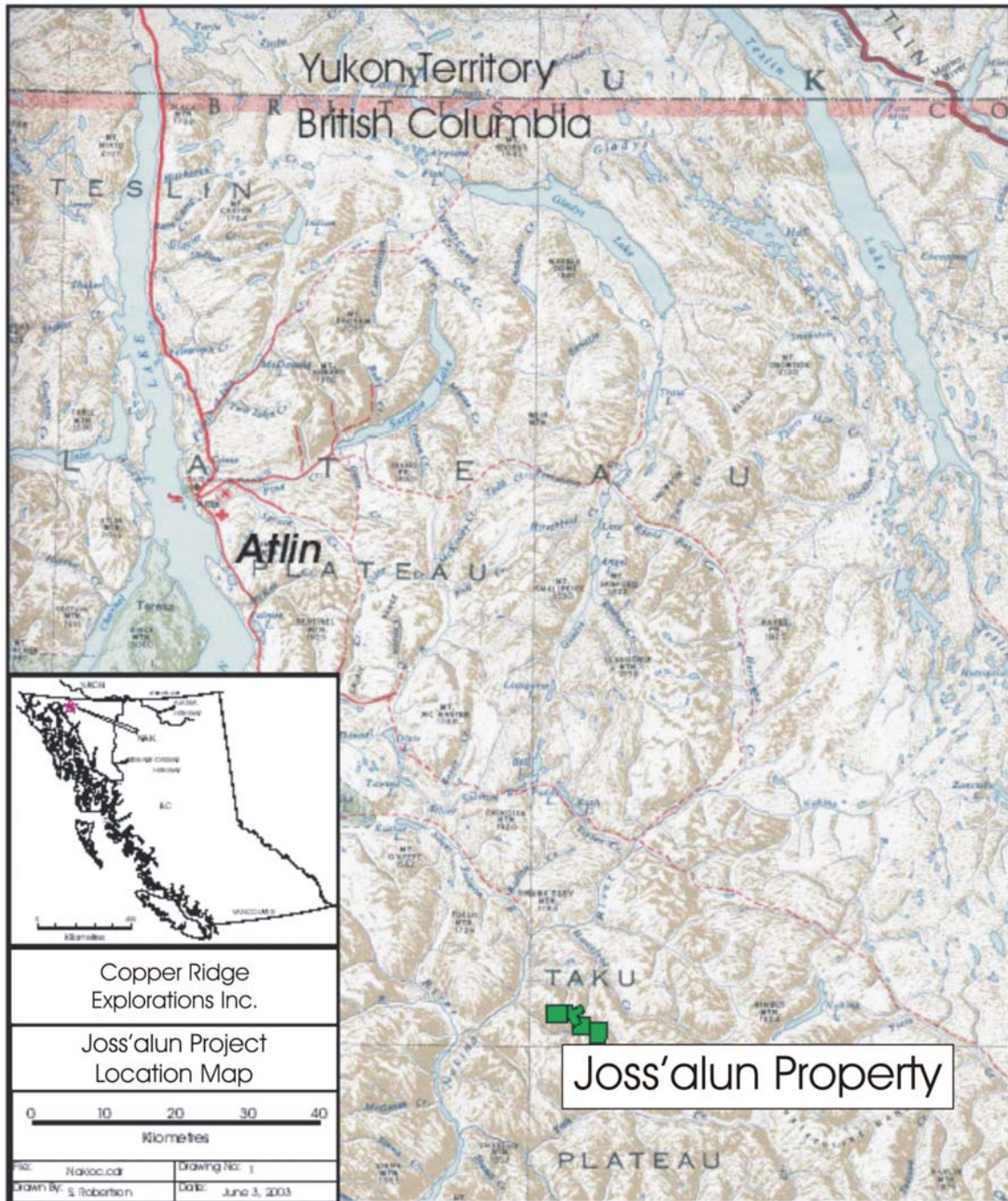


Figure 1. Location of the Joss'alun property

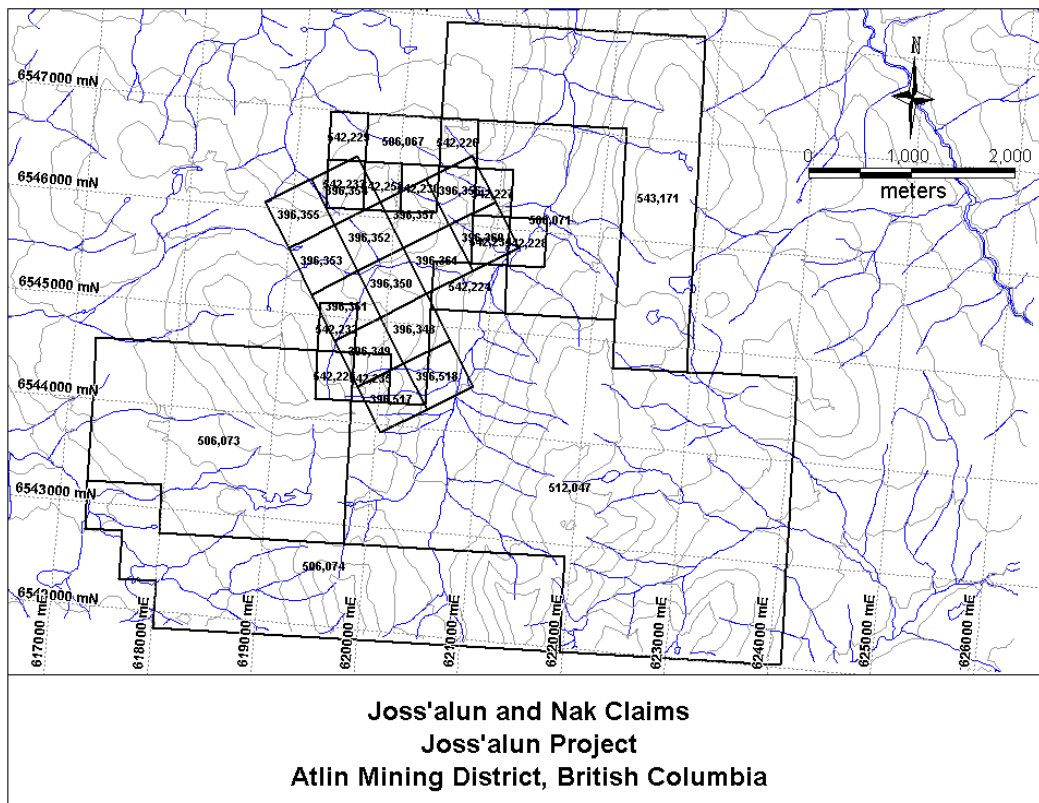


Figure 2. Joss'alun and Nak claims, Joss'alun project

Copper Ridge purchased the Tenajon claims in January of 2003, subject to the issuance of warrants and shares over a 2-year period and a 1% net smelter royalty, 50% of which may be purchased by Copper Ridge for \$250,000. Imperial Metals consolidated the claims under an option to earn 100% of the Copper Ridge and Tenajon claims, subject to the underlying agreement between Copper Ridge and Tenajon, and subject to the issuance of cash and shares to Copper Ridge and a 2% net operating profits royalty on the Knack 1 and 2 and Dark claims.

Imperial Metals completed a program of gridding, soil sampling, prospecting and 1:10,000 scale geological mapping in the summer of 2003 and followed up with a 9-hole 1517 metre diamond drilling program in autumn 2003. Highlights of the program included hole NAK-03-05 with 17.75 metres of 0.94% copper and hole NAK-03-07 with 53.45 metres of 0.34% copper. Copper occurs as stringers, disseminations and pods of mainly chalcopyrite hosted by volcanic stratigraphy of the Cache Creek Group. These results confirm that the volcanic stratigraphy at Joss'alun hosts considerable copper mineralization over a large area and is open along strike in both directions and to depth.

Table 1. Joss'alun claim data

Number	Claim Name	Expiry Date	Area (Ha)
396348	D 1	13 Sep 2014	25
396349	D 2	13 Sep 2014	25
396350	D 3	13 Sep 2014	25
396351	D 4	13 Sep 2014	25
396352	D 5	13 Sep 2014	25
396353	D 6	13 Sep 2014	25
396354	D 7	13 Sep 2014	25
396355	D 8	13 Sep 2014	25
396356	D 9	13 Sep 2014	25
396357	D 10	13 Sep 2014	25
396360	D 11	13 Sep 2014	25
396361	D 12	13 Sep 2014	25
396517	KNACK 1	13 Sep 2014	25
396518	KNACK 2	13 Sep 2014	25
506067	NAK 1	31 Dec 2008	33.303
506071	NAK 2	31 Dec 2008	199.849
506073	NAK 3	31 Dec 2008	416.637
506074	NAK 4	31 Dec 2008	416.779
542224	Gerry 1	31 Dec 2008	33.315
542225	Gerry 2	31 Dec 2008	16.662
542226	Gerry 3	31 Dec 2008	16.651
542227	Gerry 4	31 Dec 2008	16.653
542228	Gerry 5	31 Dec 2008	16.655
542229	Gerry 6	31 Dec 2008	16.652
542230	Gerry 7	31 Dec 2008	16.653
542232	Gerry 8	31 Dec 2008	16.66
542233	Gerry 9	31 Dec 2008	16.654
542234	Gerry 10	31 Dec 2008	16.656
542235	Gerry 11	31 Dec 2008	16.662
542258	Gerry 12	31 Dec 2008	16.654
543171		31 Dec 2008	399.628
	<b>Total</b>		<b>2032.723</b>

Table 2. Best results from the 2003 diamond drilling program, Joss'alun property

Hole ID	From	To	Interval	Cu %
<b>NAK-03-03</b>	41.50	109.56	68.06	0.21
	<b>including</b>	41.50	48.40	6.90
	<b>and</b>	60.48	109.56	49.08
	<b>and</b>	100.10	109.56	9.46
<b>NAK-03-04</b>	43.79	100.82	57.03	0.10
	<b>including</b>	65.00	93.15	28.15
	<b>and</b>	196.83	202.84	6.01
<b>NAK-03-05</b>	19.13	36.88	17.75	0.94
	<b>including</b>	26.70	33.62	6.92
<b>NAK-03-06</b>	14.46	56.55	42.09	0.20
	<b>including</b>	23.73	39.10	15.37
	<b>and</b>	42.10	56.55	14.45
<b>NAK-03-07</b>	143.38	196.83	53.45	0.34
	<b>including</b>	143.38	151.36	7.98
	<b>and</b>	163.21	196.83	33.62
<b>NAK-03-09</b>	20.45	23.60	3.15	1.06

In January 2004, Imperial Metals terminated its option to earn an interest in the Property.

In May 2004, Copper Ridge signed an agreement with Consolidated Norsemont Ventures Ltd. (“Norsemont”) whereby Norsemont had the right to earn up to 75% interest in the project by issuing shares and cash to Copper Ridge and completing a feasibility study. In late 2004 Norsemont completed a 4.6 km line cutting and IP (Induced Polarization) survey. The IP program demonstrated a good correlation between zones of weak chargeability and stockwork to disseminated mineralization encountered in the Imperial Metals drill program. In December 2005 Norsemont terminated its option to earn an interest in the Property

Lomiko signed an option agreement with Copper Ridge in October 2006 whereby Lomiko may acquire up to a 51% interest in the Property through shares and cash, and by incurring \$2.5 million in exploration expenditures over four years from the date of the agreement. Upon completing the share issuances, cash payment and exploration expenditures outlined above, Lomiko may increase its interest in the Property to 60% by issuing additional shares to Copper Ridge and by incurring an additional \$1.5 million in exploration expenditures over the following two years. In August 2007, Lomiko funded a mapping, prospecting and soil geochemical program aimed at extending the known soil anomaly and discovering new showings. Copper Ridge operated this program, which is the subject of this report.

## 5.0 GEOLOGICAL SETTING

The geology of the area of the Joss'alun project was presented in Mihalynuk (2002) and Mihalynuk et al (2003). Regional work has been described by Mihalynuk and others in several publications generated from the Atlin Targeted Geoscience Initiative program. Work completed in 2003 as part of a Private-Public Partnership between the BC



government and Imperial Metals has been published as a paper in the 2003 Fieldwork publication (Mihalynuk, et.al. 2004).

## **5.1 Regional Geology**

The Joss'alun property is situated in the Mississippian to Early Jurassic Cache Creek terrane of the Canadian Cordillera. To the southwest, the contact between the Cache Creek oceanic crustal rocks and the lower to middle Jurassic Laberge group strata is marked by the crustal scale Nahlin Fault. (Mihalynuk 2002).

## **5.2 Property Geology**

The Joss'alun property is underlain by the Mississippian to Early Jurassic Cache Creek terrane with the dominant rock types being harzburgite, gabbro, submarine basalt flows, flow breccia, tuffaceous rocks and coarse, quartz-rich clastic strata (Mihalynuk, 2002) as shown in Figure 3. The rocks are exposed as an oblique section through an oceanic crustal sequence with the upper part of the section to the south and deeper rocks exposed to the north. The section appears to be complete but has been dramatically shortened by extensional tectonics, expressed locally by a series of faults cutting oblique to the stratigraphy with easterly or northeasterly strikes.

### ***Ultramafic Mantle Rocks***

The Nahlin ultramafic body comprises harzburgite with minor dunite and is best exposed to the north of the Joss'alun showing. In hand specimen they are easily identified by their distinctive orange (harzburgite) or buff (dunite) weathered colour. These rocks have been almost entirely serpentinized and contain only relict olivines within a serpentine matrix.

### ***Gabbro***

Gabbro occurs as within the upper part of the ultramafic sequence, either as large boulders within the serpentinized rocks or along the intrusive contact, and above the ultramafics as a blocky, competent rock. Mineralogically it comprises approximately subequal amounts of pyroxene (orthopyroxene and clinopyroxene) and plagioclase, and is typically medium-grained although it can be locally pegmatitic. Small zones of hydrothermal alteration and iron  $\pm$  copper mineralization are occasionally observed along faults.

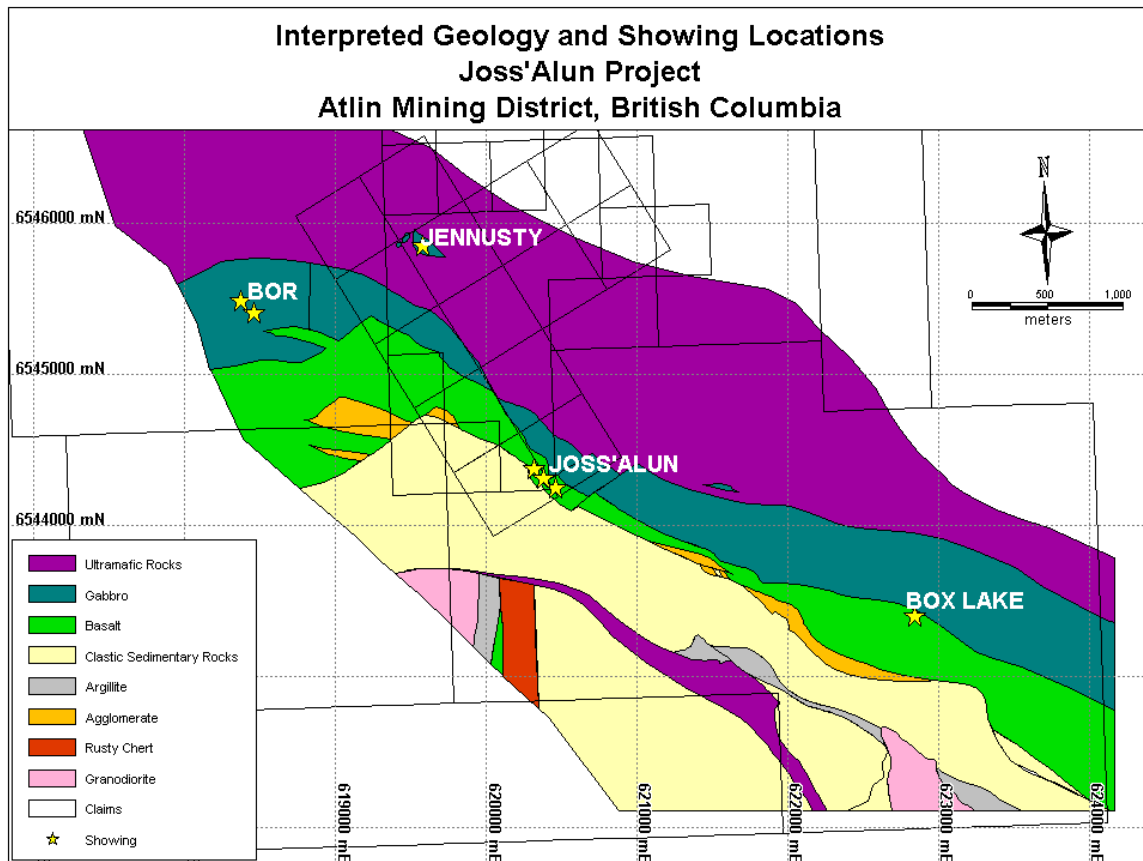


Figure 3 Joss'alun property geology

### ***Mafic volcanic Rocks***

The mafic volcanic rocks occur as a thick sequence of typical submarine volcanic deposits. The base of the unit comprises a series of pillowed basaltic flows with hyaloclastite texture, inter-pillow lime mud and chert. The pillows are commonly 1 – 2 m across and individual pillow flows are on the order of 3 – 10 m thick. The abundance of volcanic breccia increases towards the top of the sequence, and volcanic breccia is more common, typically intermixed with the massive pillow flows. Tuff content increases up section, with the finer dust and crystal tuffs observed near the top of the volcanic sequence. The top of the basaltic package comprises a transitional unit of agglomerate with fist to suitcase sized fragments of green mafic volcanic within a matrix of blood red chert and dusty tuff. The unit becomes more chert dominant up section, and contains layers of very thinly laminated dust tuff. It is capped by a weakly layered to massive radiolarian-bearing red ferruginous chert. The mafic volcanic package is thick relative to the mapped thickness in the Joss'alun area, where the volcanic sequence has been attenuated by a series of small, brittle faults resulting from extensional tectonic forces.

The pillowed flows and breccias in the lower section of the volcanic unit host both the Joss'alun and Box Lake showings. The copper mineralization appears to be at least in

part syngenetic, therefore determining the origin of the host rocks is important. The overall stratigraphy suggests that these rocks were formed in a spreading ridge setting (typical of Cypress type deposits). Whole rock major, trace and REE geochemistry of the mineralization-hosting basalt suggests that the Joss'alun belt magmas were generated in an environment with both arc and intraplate sources, modern analogues of which are back arc settings. (Mihalynuk et al., 2002)

### ***Clastic sedimentary units***

A thick sedimentary package unconformably overlies the mafic volcanics. This unit is dominated by coarse boulder and chert pebble conglomerates but has a significant component of quartz rich wackes and siltstones. The generally rounded cobbles and boulders are derived from widely variable sources including chert, limestone, sandstone, volcanics and intrusives. Mihalynuk (2002) concludes that much of the source material for the clastic unit is the underlying Cache Creek terrane and suggests a deposition age of Triassic – Jurassic. No significant copper mineralization has been observed within this unit.

### ***Nakina River Stock and related porphyritic rocks.***

A small portion of a large hornblende-biotite granodiorite is exposed on the project area to the south of Jos Peak. Mihalynuk (2002) reported it to be part of the Middle Jurassic Nakina River Stock. In several other areas of the Property small, very coarsely porphyritic plugs or dykes occur.

## **6.0 DEPOSIT TYPES**

The geological setting at Joss'alun and the observed mineralization suggests a classic Cypress-type environment for massive seafloor VMS copper mineralization with accompanying footwall stringer mineralization and alteration. These deposits are commonly found in tholeiitic or calc-alkaline pillowed marine basalts and occur near a transition with overlying argillaceous sediments and chert. Many of the deposits appear to be structurally controlled, with clusters of lenses aligned near steep normal faults.

Cypress type deposits typically comprise one or more lenses of massive pyrite and chalcopyrite mineralization underlain by a well developed pipe-shaped stockwork zone. Common associated minerals include marcasite and sphalerite while galena is less common. The core of the stockwork zone is often characterized by intense, chlorite, sericite, carbonate and silica alteration which can grade out into weaker albite and illite alteration.

Cypress type deposits range widely in size but on average contain about 1.7 % Cu, 0 to 33 g/t Ag, 0 to 1.9 g/t Au and 0 to 2.1 % Zn. A back-arc affinity suggests the potential for Windy Craggy or Besshi-style copper-zinc mineralization. These types of deposits also occur at the transition from mafic volcanic rocks to sedimentary rocks, but tend to be found more often within the sedimentary sequences. These deposits are also highly variable in size but tend to carry a higher copper grade.

Cypress and Besshi type VMS deposits both occur as multiple or stacked massive sulphide lenses along discrete stratigraphic horizons. Exploration efforts therefore focus on identifying and tracing the key horizons. The deposits are often defined by strong copper and zinc soil geochemical signatures. Depending on the type and nature of sulphides present, the deposits also can show a strong electromagnetic or induced polarization geophysical signature.

## **7.0 MINERALIZATION**

Copper mineralization within the project area is relatively widespread. Four main showings occur in the area, two of which, the Jennusty and the Joss'alun prospects, are on Copper Ridge tenements under option to Lomiko. In addition to those showings described below, malachite staining in the mafic volcanic rocks was commonly observed across the entire Property. Small occurrences of chalcopyrite also occur within gabbro and appear to be remobilization of copper from the nearby volcanic rocks.

### **7.1 Joss'alun**

The original discovery of Joss'alun copper mineralization on the Joss'alun property continues to be the most significant. A full description of this showing is given in Mihalyuk, 2003. Selected grab samples have returned grades of over 10% copper and several grab samples have been collected with grades in the multiple percent range. Copper is present as chalcopyrite disseminations, fracture fillings and pillow rinds. There is evidence for both syngenetic and epigenetic mineralization. Fracture-filling mineralization observed in the drilling could represent stockwork-type feeder zone mineralization related to overlying massive sulphides or it could be sulphides remobilized during subsequent tectonism.

The most significant mode of occurrence for copper is the massive pods that form interstitially in the pillowed flows and flow breccias. The greater quantities of copper mineralization are concentrated at the base of the mafic unit, with abundance and grade generally decreasing up section. The very poddy mineralization at Joss'alun prompted a program to conduct detailed sampling over the exposed area.

### **7.2 Jennusty**

The Jennusty showing lies 1.7 km to the NNW of Joss'alun. The very rusty outcrop is visually distinct and can be easily seen from several kilometres distance. Small amounts of chalcopyrite and malachite were discovered in a highly oxidized gabbro host. Although the initial indications were that this was a very significant showing, subsequent work has proven the gabbroic host to be a knocker of limited size hosted within a serpentinite.

### **7.3 Box Lake**

The Box Lake showing lies some 2.0 km to the ESE of Joss'alun on ground currently held by Imperial Metals. The copper mineralization is equally widespread but in far less concentration than at Joss'alun. One possible explanation for this is that the stratigraphy

exposed is higher level and perhaps the best mineralization is not exposed at surface in this area. It is also possible that this is on the periphery, along strike, of the mineralizing system as pyrite is in much greater abundance at Box Lake than in other volcanic hosted copper showings. Mineralization observed at Box Lake was either weak or only observed in talus (float) and therefore it is difficult to give a full assessment of this area.

#### **7.4 BOR**

The BOR showing, 2.25 km to the NW of Joss'alun on ground currently held by Imperial Metals., consists of series of brittle structures in gabbro host chalcopyrite and pyrite. Mineralization is poddy and discontinuous, although up to 1 m wide in places. BOR has the strongest mineralization and the greatest size potential of all the gabbro hosted copper showings discovered at Joss'alun.

### **8.0 2007 EXPLORATION PROGRAM**

Mapping, prospecting and geochemical sampling at the Joss'alun property commenced on August 21<sup>st</sup> and finished on August 28<sup>th</sup> 2007. Geological and logistical support was provided by Copper Ridge and Lomiko funded the program. Discovery Helicopters, based out of Atlin, provided helicopter transport and support. Acme Laboratories of Vancouver, British Columbia, performed the sample analyses. In the course of the program, 97 soil geochemical samples (Figure 4, 5) and 12 grab samples (Figure 4) were collected.

The geochemical soil sampling program was designed to infill and extend the existing grid geochemical surveys and to cover an area of anomalous contour sampling collected in 2003. Ninety-seven samples were collected at 25 metre intervals along 100 metre spaced, north-south oriented lines across the prospective mafic volcanic unit, which hosts all the known showings in the area. Samples were collected using a mattock, predominantly from between 10 and 40cm depth on talus slopes. Grab samples comprised rock and talus fines and were collected from areas identified during the mapping and prospecting program as prospective for copper mineralization. All samples were analysed using a 35-element ICP scan, and fire assay for samples returning over limit copper and gold. Results of the soil sampling program confirm the anomalous results obtained in the 2003 contour sampling program and indicate that the mafic volcanic sequence considered most prospective for copper mineralization, and as defined by the original Joss'alun, BOR and Box Lake showings, continues to the east of the Property. Four grab samples collected from showings identified in the current 2007 prospecting program returned grades in excess of 500ppm Cu including one sample which contained 2.16% Cu.

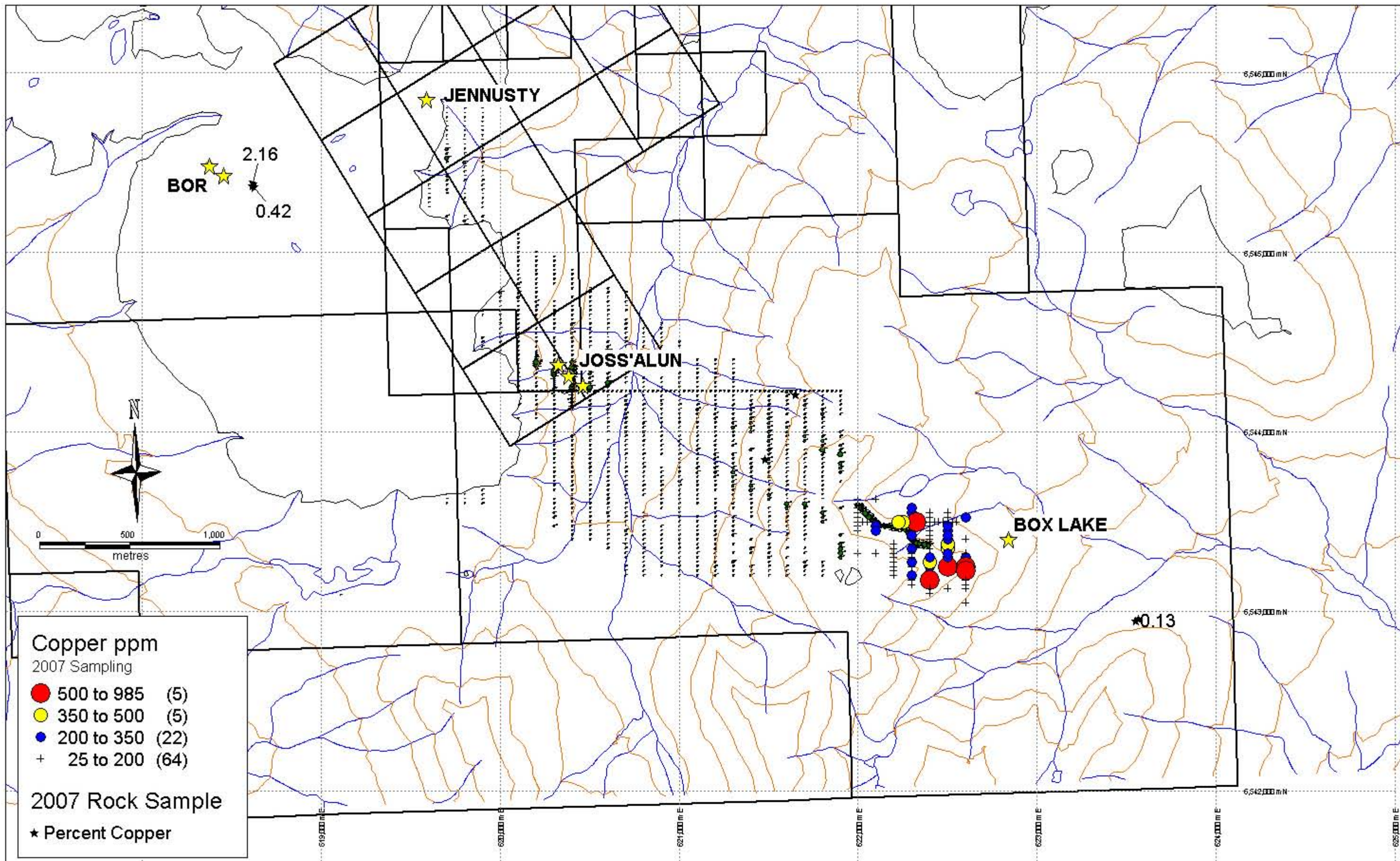


Figure 4. Location and results of 2007 soil sampling and prospecting program

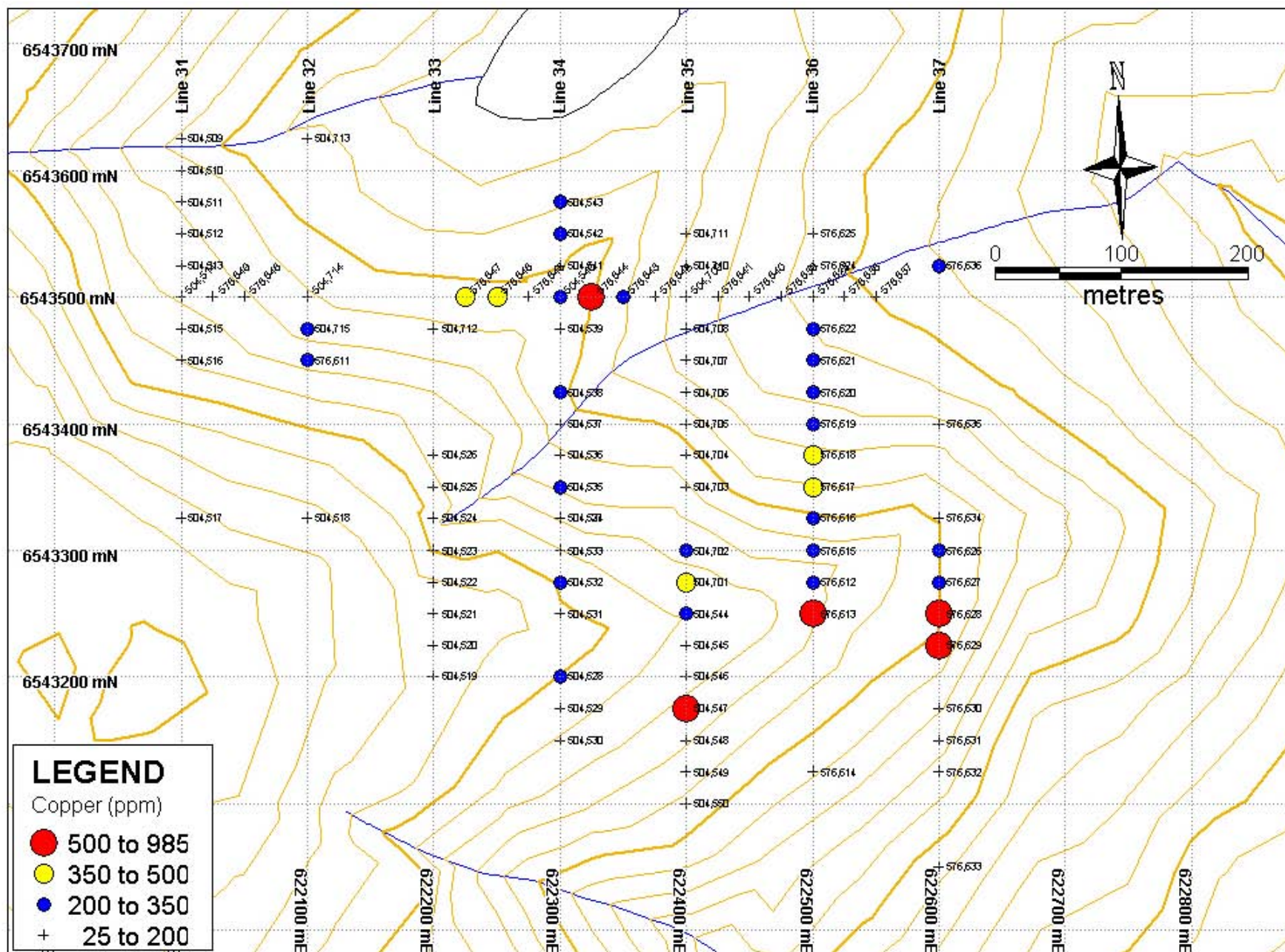


Figure 5. Location and results of 2007 soil geochemical program

## **9.0 CONCLUSIONS AND RECOMMENDATIONS**

The results of the 2007 prospecting and soil geochemical program extend the copper in soils anomaly to the west of the main Joss'alun showing and confirm the results of the reconnaissance contour soil geochemical program conducted in the area during previous exploration programs. Prospecting to the east and west of known showings identified two previously unidentified zones of elevated copper in grab samples and talus float, with copper concentrations up to 2.16%. The mafic volcanic unit continues to be the most prospective for significant copper mineralization, as defined by the original Joss'alun, BOR and Box Lake showings, in addition to the new showings identified in the 2007 program. The 2007 program successfully defined targets for continued exploration and demonstrated the continued potential of the Property to host a large copper mineralized system.

It is recommended that ongoing exploration on the Property include a detailed, low level airborne electromagnetic and magnetic survey, to be followed by drill testing. Drilling would focus on EM conductors, particularly those which lie along favourable stratigraphy, at or near the top of the volcanic horizon, especially where these are associated with know mineralization or soil geochemical anomalies.



## 10.0 STATEMENT OF COSTS

<b>Joss'alun Project</b>	
<b>2007 Geochemical and Prospecting Program Cost Statement</b>	
Helicopter Charter	6210
Analytical Costs	2100
Communications	275
Wages	15,750
Meals & Accommodation	2380
Vehicle Costs	1131
<b>Total</b>	<b>27,846</b>

<b>Joss'alun Project</b>				
<b>2007 Geochemical and Prospecting Program Cost Statement – Participating Personnel</b>				
<b>Personnel</b>	<b>Role</b>	<b>Days</b>	<b>Daily Rate</b>	<b>Total Cost</b>
<b>Joanna Hodge</b>	Senior Project Geologist	9	\$600	\$5400
<b>Laurel Arness</b>	Geological Assistant	9	\$350	\$3150
<b>Ryan Coe</b>	Logistics Coordinator	9	\$450	\$4050
<b>Jean-Paul Salley</b>	Field Technician	9	\$350	\$3150
<b>Total</b>				<b>\$15,750</b>

I, John Gregory Dawson, do hereby declare that;

6. I am currently employed as Vice President Exploration for Copper Ridge Explorations Inc. of 500 - 625 Howe Street Vancouver, British Columbia V6C 2T6.
7. I graduated with a Bachelor Science degree from the University of British Columbia in 1987 and a Masters of Science degree from Queens' University in 1991.
8. I am a member of the Association of Professional Engineers and Geoscientists of British Columbia, Registration Number 19882.
9. I have worked as a geologist for a total of 20 years since graduation from University, and prior to graduation, as a student and or geotechnician for a period of 11 additional years.
10. I have read the definition of "Qualified Person" set out in National Instrument 43-101("NI 43-101") and certify that by reason of my education, affiliation with a professional association and past relevant work experience, I fulfill the requirements to be a "Qualified Person" for the purposes of NI 43-101.
11. I am not aware of any material fact or material change with respect to the subject matter of this report, the omission to disclose which makes this report misleading.
12. I am not independent of the issuer applying all tests in Section 1.5 of NI 43-101 in that I am an employee, officer and director of Copper Ridge Explorations Inc and hold shares and options in the Company.

Dated this 1<sup>st</sup> day of February, 2008

John Gregory Dawson, P. Geo.

## 12.0 REFERENCES

- Mihalynuk, M.G., 2002, Geological setting and style of mineralization at the Joss'alun discovery, Atlin area, British Columbia: BC Ministry of Energy and Mines, Geofile, GF2002-6, 4pp. (plus digital presentation)
- Mihalynuk, M.G., Johnston, S.T., Lowe, C., Cordey, F., English, J.M., Devine, F.A.M., Larson, K. and Merran, Y., 2002, Atlin TGI Part II, Preliminary results from the Atlin Targeted Geoscience Initiative, Nakina area, northwest British Columbia: in Geological Fieldwork 2001, BC Ministry of Energy and Mines, Paper 2002-1, p. 5-18.
- Mihalynuk, M.G., English, J.M., Cordey, F., Villeneuve, M.J., Rui, L. and Orchard, M.J., 2003, Atlin TGI Part II, Regional geology and mineralization of the Nakina area, (NTS 104/2W and 3) in Geological Fieldwork 2002, BC Ministry of Energy and Mines, Paper 2003-1, p. 9-38.

## **13.0 APPENDIX I: SOIL GEOCHEMICAL ANALYSES**

Sample No	Eastings	Northing	Description	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Ni (ppm)	Co (ppm)	Mn (ppm)	Fe (%)	As (ppm)
504509	622000	6543625	30cm depth , sandy to med. Coarse grain, sand composed of orangey brown & purple brown granules, talus slope, med/ steep slope with very little veg	0.8	125.9	5.5	222	0.05	108.8	45.7	1655	7.03	5.5
504510	622000	6543600	30cm depth , sandy to med. Coarse gravelly,( 35% gravel content) in, sand composed of orangey brown granules, talus slope, steep slope, surface rocks mostly 10-20 cm diameter, vegetation/flowers	0.9	135.2	6.6	225	0.1	97.4	48.9	1931	7.31	6.7
504511	622000	6543575	30cm depth mostly med grain-coarse grain w/ 15% gravelly size, light brown w/ orangey brown tinge, very little vegetation, steep slope, bigger boulders at base	0.6	139.3	8.5	141	0.1	48.5	36.8	2245	6.78	4.9
504512	622000	6543550	30cm depth , med to coarse grain, larger at 15cm to depth, med brown color w/ orangey hue, steep talus slope w/ surface rocks - 5-15cm diameter average size, little veg	1.2	114	7.1	150	0.1	49.5	47.4	2125	7.61	9.9
504513	622000	6543525	30cm depth , darker brown soil, small to medium grain size w/ 5% gravel size, orangey brown coloration, steep talus slop, mixed sizes 5-15 cm diameter average, little veg.	1.2	121.7	6.4	138	0.1	57.8	46.5	1955	7.41	9
504514	622000	6543500	25cm depth, med coarse grain w/ 35% gravel, lighter brown w/ more orangey tinge to it, soil coarser at depth, steep talus slope, few boulders at surface, very little veg, some roots content	1.2	111.3	6.8	153	0.1	51.8	57.1	2425	8.65	11.2
504515	622000	6543475	40cm depth, very steep talus slope, mostly med sized surface rocks, med coarse grain w/ 10% gravel size, soil coarser at depth, very little veg, cliffs directly above.	1	165.8	7.7	149	0.2	43	50.2	2503	7.96	9.1
504516	622000	6543450	30cm depth, very steep mostly gravel to med coarse grain, soil sampled med brown, 105 gravel at sample depth, no veg, visible outcrop 10m above, steep cliff band above.	0.8	107.6	5.9	130	0.1	34.1	40.2	1843	6.42	7.5
504517	622000	6543325	10cm depth , dark brown color, sandy to coarse grain w/ 15% gravel size , very shallow draw due to extremely rocky, very little veg, little slope, top of the ride, above the cliff band	1.3	83.6	6.4	121	0.05	331.3	38.1	1156	5.54	8.4
504518	622100	6543325	15cm depth, steep rocky outcrop, min veg, grass and moss, med coarse grain w/ 5% gravel size and big rocks at bottom, poor soil draw, organics, B- horizon.	1.1	133.7	4.6	124	0.05	66.9	28.3	1443	6.33	5.3
504519	622200	6543200	25cm depth, medium to coarse grain, 50% gravel size, med brown to darker brown at depth, surface is mossy	0.5	62.1	5.6	74	0.2	24.2	39.6	1622	5.04	7.5
504520	622200	6543225	25cm depth , deep, med brown w/ dark orangey red tinge to it, med steep slope, mostly moss covered surface w/ 5% rocky gravel showing on surface, soil is sandy w/ 25% gravel size bits	3.9	82	9.7	144	0.1	22.9	33.5	1071	6.07	10
504521	622200	6543250	30cm depth, med brown color, sand grain w/ 15% gravel size, soil is fine 2 surface (concentrated within top 5-10 cm), moss, grass and min veg present	1.9	61.2	5.8	100	0.05	47.3	20.1	972	4.65	4.8
504522	622200	6543275	25cm depth, fine to med grain, dark brown, 15% gravel size, steep slope, rocky gravelly surface w/ rocks up to	0.7	112.3	2.9	94	0.05	130.3	32.7	1200	5.7	4
504523	622200	6543300	30cm depth , med to large grain, 20% gravel size med brown color, with increasingly dark tones at depth, steep talus slope, rocky at surface , rocks w/ 15cm diameter average, very little veg.	0.6	188.8	3.6	152	0.05	48.3	39.7	1689	7.29	2.5
504524	622200	6543325	30cm depth, fine to med coarse grain with 10% gravel size, med tan color, steep talus slope, surface rock coverage, very little vegetation.	0.8	168.6	4.7	267	0.1	52.9	48.1	2111	8.06	5.8
504525	622200	6543350	20cm depth, med to very coarse grain, med brown with a tan tinge, bigger rocks (20cm diameter +) @depth, steep talus slope, very little veg.	1.6	83.4	5.6	144	0.05	57.6	31.9	1655	6.37	6.8
504526	622200	6543375	25cm depth med to very coarse grain, 65% gravel size, very steep slope, surface is 50% moss and 50% rocky 10-30cm diameter, soil med to dark tan.	1.4	93.5	6.2	150	0.05	56.9	29.5	1799	5.57	5.6
504527	622300	6543325	10cm depth fine to med coarse grain w/ very rocky bottom/ depth, steep slope with rocky surface, soil is med tan/ brown color.	0.3	139.9	1.3	73	0.05	31.6	36.5	1988	6.14	2
504528	622300	6543200	15cm depth, steep rocky outcrop, min veg, grass and moss, med coarse grain w/ 5% gravel size and big rocks at bottom, poor soil draw, organics, B- horizon.	0.7	282.9	3.1	118	0.05	71.4	40.6	2295	8.13	4.2
504529	622300	6543175	30cm depth, dark brown, fine to sandy coarse grain, 5% pea size pebbles, very steep slope, surface is moss and grass covered w/ some rocks showing, roots to 5 cm depth	1	121	5.4	101	0.2	61.5	28.7	1341	5.41	8.9
504530	622300	6543150	30cm depth, dark brown, fine to sandy coarse grain, 5% pea size pebbles, very steep slope, surface is moss and grass covered w/ some rocks showing, roots to 5 cm	0.8	69.6	5.5	97	0.2	40.7	24.8	1253	4.85	7.7
504531	622300	6543250	15cm med brown w/ tan / orange tinge, med to coarse grain, 25% gravel size or larger, med grade slope, surface mostly gravel size rocks, some surrounding veg but mostly rocky	0.9	138.3	1.9	82	0.05	55.7	38.2	2066	6.92	2.4
504532	622300	6543275	35cm depth, fine to coarse grain, dark orange/ brown color very steep talus slope, rock covered w pebble size to med size rocks 20cm diameter , no vegetation	0.5	270	2.9	156	0.05	59.5	54.9	1818	7.4	3.9
504533	622300	6543300	25cm depth, fine to sandy grain/ more med coarse @ depth, dark tan color steep slope, rock covered w/ pebble - 10cm size rocks but mostly pebble size.	0.7	171.6	2.1	246	0.05	37.5	43.7	1877	6.67	2.2
504534	622300	6543325	25cm depth, 10-15cm fine grain distinct layer that is green brown , 1cm depth 15cm depth is dark reddish brown, 10-15 cm depth has layer of red/ brown clayish layer, steep rocky pebble slope , very little veg.	0.7	142.9	2.6	246	0.05	38.9	41.7	1539	6.15	4

Sample No	U (ppm)	Au (ppm)	Th (ppm)	Sr (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	V (ppm)	Ca (%)	P (%)	La (ppm)	Cr (ppm)	Mg (ppm)	Ba (ppm)	Ti (%) (ppm)	B (ppm)	Al (%)	Na (%)	K (%)	W (ppm)	Hg (ppm)	Sc (ppm)	Tl (ppm)	S (%)	Ga (ppm)	Se (ppm)
504509	0.3	15.7	0.5	36	0.9	0.3	0.05	180	0.91	0.052	4	107	3.12	39	0.129	6	3.17	0.02	0.04	0.05	0.03	20.5	0.05	0.025	11	0.6
504510	0.3	6.9	0.7	47	0.8	0.4	0.05	183	0.91	0.071	5	103	3.35	51	0.127	8	3.44	0.024	0.05	0.05	0.04	23.2	0.05	0.025	11	0.7
504511	0.6	20.5	2.2	43	0.4	0.4	0.1	129	0.67	0.094	20	46	1.92	58	0.046	8	2.51	0.015	0.08	0.05	0.07	18.1	0.05	0.025	8	0.6
504512	0.6	5.1	1	91	0.7	0.7	0.05	129	0.82	0.058	13	49	1.86	61	0.028	12	3.02	0.029	0.09	0.05	0.06	23.7	0.05	0.025	8	0.7
504513	0.6	5	1	68	0.6	0.6	0.05	126	0.8	0.064	12	58	1.92	48	0.035	11	2.83	0.036	0.09	0.05	0.05	22.8	0.05	0.025	8	0.6
504514	0.4	7.2	0.7	146	0.7	0.9	0.05	137	0.97	0.047	11	44	1.89	42	0.013	18	3.4	0.04	0.09	0.05	0.05	31.2	0.05	0.025	10	0.5
504515	0.4	16.4	0.8	109	0.6	0.8	0.05	138	0.87	0.046	15	36	1.99	39	0.009	14	3.28	0.044	0.08	0.05	0.04	30.2	0.05	0.025	9	0.6
504516	0.3	12.6	0.6	170	0.5	0.7	0.05	110	1.34	0.04	12	29	1.71	31	0.008	14	3.52	0.113	0.1	0.05	0.06	21.7	0.05	0.07	9	0.5
504517	0.6	1.4	0.7	68	0.6	0.5	0.1	121	1.07	0.072	8	307	3.84	74	0.158	10	3.18	0.016	0.06	0.05	0.03	15.4	0.05	0.025	9	0.7
504518	0.5	3.2	0.9	46	0.3	0.5	0.05	115	0.64	0.073	7	76	1.86	56	0.038	11	2.58	0.019	0.07	0.05	0.03	20.2	0.05	0.025	7	0.25
504519	0.3	2.1	0.3	89	0.2	0.4	0.05	97	1.4	0.098	4	18	1.1	42	0.004	5	4.74	0.548	0.06	0.05	0.04	16.6	0.05	0.025	11	0.5
504520	0.2	1	0.3	118	0.3	0.5	0.3	77	0.49	0.098	3	15	0.9	110	0.001	3	2.56	0.046	0.03	0.05	0.09	9.5	0.05	0.05	7	0.7
504521	0.4	3.3	0.6	35	0.3	0.5	0.05	85	0.33	0.126	8	68	1.25	85	0.007	6	2.62	0.028	0.05	0.05	0.07	11.1	0.05	0.09	7	0.7
504522	0.4	3	0.4	36	0.2	0.3	0.05	138	0.86	0.047	4	148	3.09	51	0.174	8	2.94	0.015	0.07	0.05	0.06	14.8	0.05	0.025	8	0.25
504523	0.3	13	0.2	24	0.4	0.3	0.05	149	0.9	0.05	2	44	2.16	36	0.155	6	2.69	0.014	0.04	0.05	0.04	19.6	0.05	0.025	8	0.25
504524	0.3	7.4	0.3	27	0.7	0.3	0.05	179	0.94	0.063	3	60	2.58	36	0.191	7	3.23	0.016	0.03	0.05	0.04	29.6	0.1	0.025	10	0.25
504525	0.5	3.3	0.7	41	0.3	0.6	0.05	128	0.55	0.07	5	61	1.71	48	0.068	9	2.44	0.022	0.05	0.05	0.04	19.9	0.05	0.025	7	0.6
504526	0.5	4.1	0.5	44	0.5	0.6	0.05	112	0.83	0.105	6	55	1.44	62	0.039	10	2.2	0.019	0.06	0.05	0.09	19.6	0.05	0.07	6	0.6
504527	0.2	1.9	0.2	27	0.2	0.2	0.05	154	0.88	0.032	2	30	2.09	45	0.135	29	2.58	0.021	0.03	0.05	0.04	23.9	0.05	0.025	7	0.6
504528	0.3	7.8	0.4	40	0.5	0.5	0.05	148	1.17	0.07	4	113	1.78	85	0.15	20	2.16	0.017	0.07	0.05	0.1	25.6	0.05	0.06	7	0.25
504529	0.3	7.2	0.3	35	0.4	0.6	0.05	84	1.61	0.083	12	67	1.48	47	0.019	12	1.99	0.014	0.08	0.05	0.11	17.4	0.05	0.1	6	0.6
504530	0.3	2.7	0.4	43	0.3	0.5	0.05	74	0.72	0.07	12	43	1.28	41	0.006	6	2.88	0.037	0.06	0.05	0.09	18.7	0.05	0.025	8	0.25
504531	0.3	2.4	0.3	27	0.2	0.3	0.05	174	1.07	0.045	3	85	2.29	39	0.184	11	3.02	0.014	0.03	0.05	0.05	28.5	0.05	0.025	8	0.6
504532	0.1	3.3	0.2	16	0.5	0.2	0.05	202	1.21	0.041	2	87	3.73	24	0.164	12	3.78	0.018	0.02	0.05	0.02	22.2	0.05	0.025	12	0.25
504533	0.05	5.1	0.1	13	1.2	0.3	0.05	179	0.78	0.034	2	49	3.06	19	0.162	11	3.2	0.017	0.02	0.05	0.03	22.9	0.05	0.025	10	0.25
504534	0.1	12.1	0.2	17	0.7	0.2	0.05	153	1.03	0.035	2	36	2.77	22	0.155	8	3.3	0.022	0.02	0.05	0.04	16.3	0.05	0.025	9	0.25

Sample No	Easting	Northing	Description	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Ni (ppm)	Co (ppm)	Mn (ppm)	Fe (%)	As (ppm)
504535	622300	6543350	25cm depth, surface to 5cm, med brown color, fine med grain, 5-10cm greenish color fine to med grain sand, 10-15cm med brown layer like above, 15-25cm coarser grain med brown w/ tan tinge to it, steep talus slope , fine grain to 5cm diameter rock	0.5	221.2	3	171	0.05	48.7	37.6	1396	5.86	2.7
504536	622300	6543375	25cm, taken on edge of a slide chute, surface to 15cm fine to pebble size soil, med to light brown, 15-25cm med to coarse med brown with a greenish tinge, steep slope rocky with little surface vegetation	0.5	112.6	3.5	144	0.1	53.9	54.4	1690	6.47	1.8
504537	622300	6543400	25cm depth, 0-5cm finer grain, 5-10 med to coarse grain, 10-20 + cm = rubble and bigger rocks, dark tan color, edge of another slide chute, no veg.	0.6	167.8	2.9	173	0.1	46.2	48.9	2319	8.37	2.6
504538	622300	6543425	35cm depth, fine to coarse grain, dark orange/ brown color very steep talus slope, rock covered	0.7	220.5	4.9	179	0.2	50.6	44.9	2071	7.2	3.5
504539	622300	6543475	25cm sandy to med grain, orange brown color, steep slope, gravel/ rock covered, very little veg	1.1	194.3	4.5	257	0.2	53.3	46.4	2224	7.14	4
504540	622300	6543500	15cm depth, steep rocky outcrop, min veg, grass and moss, med coarse grain w/ 5% gravel size and big rocks at bottom, poor soil draw, organics, B- horizon.	1.2	258.1	2.3	136	0.05	54.3	27.9	1329	5.8	2
504541	622300	6543525	25cm depth, fine to sandy grain, light brown w/ green hue throughout, distinct orangey layer @ 10cm, slight slope, moss covered w/ rocks.	0.3	101.1	0.6	65	0.05	90.5	37.1	1492	6.05	0.9
504542	622300	6543550	25cm depth fine to sandy grain to 15cm, coarser grain to gravel at depth, med brown w/ orange tinge, steep slope, talus surface w/ limited veg.	0.8	296.9	1.5	76	0.1	69.6	49.4	2464	8.19	3.4
504543	622300	6543575	25cm, 0-5cm light tan with orange tinge, fine to sandy grain, 5-15cm dark green/ brown layer = sandy to medium grain coarse grain, 15-25cm = green green orangey/ brown w/ 15% gravel chunks, rest med grain, talus slope - steep, little veg.	0.9	313.2	1.3	70	0.1	89.8	47.5	2248	7.24	2.2
504544	622400	6543250	25cm, dark brown w/ orange tinge, sandy to med coarse grain w/ 20% pebble size or larger, gravel size rock/ talus cover w/ surrounding grass and alpine veg	2.5	288.4	8.1	228	0.2	47.4	49	1790	8.42	7.3
504545	622400	6543225	30cm med/brown w/ orange/ tan hue, sandy grain w/ 30% pebble size +, C horizon, med slope, med slope with full vegetation coverage, top 10cm of soil is darker brown w/ roots.	0.7	113.7	9	440	0.1	47.8	41.1	1456	6.73	6.9
504546	622400	6543200	25cm depth, med coarse grain w/ 30% pebble	0.7	131.8	3.9	224	0.2	53.6	38.3	1819	5.51	2.8
504547	622400	6543175	15cm depth, taken at bottom of the outcrop, shallow soil, rocky at depth, soil is med to coarse grain w/ 5% gravel size content, dark brown w/ purple / red tinge to it, very steep, some moss but limited vegetation	0.6	510.3	2.4	111	0.05	82.1	37.2	2126	5.67	2.7
504548	622400	6543150	30cm , med to coarse grain, dark brown w/ purple tinge, very steep talus slope, gravel on surface, limited vegetation, min veg	0.7	158.5	5.6	128	0.1	68.8	37.4	2025	5.39	4.5
504549	622400	6543125	25cm, dark brown w/ some grey matter , very rocky soil (50% gravel size or more) rest is med to coarse grain, very steep talus slope w/ lots of veg	0.8	106	3.4	88	0.05	56.1	28.6	1266	3.58	2.9
504550	622400	6543100	25cm, B- to C+ horizon, very rooty and rocky, soil is orangey brown 15-25 cm, 0-15 cm grayish light brown, mostly pebble size soil but some finer sandy soil in root which is predominantly orange, evergreen trees, shrubs, steep slope.	1.9	84.3	7.8	168	0.05	57.7	31.3	1313	4.98	6.1
504701	622400	6543275	25cm depth, 0-15cm = brown, fine to med grain, 15-25cm orangey light brown, med to coarse grain w/ 1% gravel content, very steep talus slope almost sandy on surface.	0.5	373.3	3.2	181	0.3	51	47.5	2395	7.94	3.2
504702	622400	6543300	35cm, 0-20 is clayish fine grain, light tan color w/ orange streaks from 10-20cm, 20-35 is med tan color w/ bits of green / grey tinge , sandy to med grain , very steep talus slope	0.6	208.1	1.5	132	0.05	53.4	43.6	2612	9.3	3
504703	622400	6543350	35cm, fine to med coarse w/ 10% pebble to gravel size, tan w/ some orange pebbles, very steep talus slope, surface covered in fines.	0.6	184.7	4.5	133	0.1	40.8	41.6	1828	6.97	2.6
504704	622400	6543375	35cm, sandy to red coarse grain, med tan w/orange tinge, some green components present, very steep talus slope, no veg.	0.8	164.1	6.6	152	0.1	47.4	39.3	1719	6.65	3.3
504705	622400	6543400	40cm, 0-10cm orangey brown, fine med coarse grain, 10-15cm = green brown layer , sandy grain, 15-40 cm brown w/ orange tinge sandy to med coarse grain, steep talus slope, no vegetation.	0.8	186.4	7.7	194	0.1	49	43.1	1982	7.31	3.7
504706	622400	6543425	40cm , -10 fine grain-med tan w/ some orangey bits, 10-30 med grain w/ greenish brown and tan particulates, 30-40cm is fine / clay like grain, very orangey, light tan color, steep talus slope , some veg.	0.8	193.9	4.2	204	0.1	56.4	45.9	1981	7.88	4.2
504707	622400	6543450	20cm, light tan brown, sandy w/ 0% coarse to pebble size, some orange tinge, steep talus slope, very little veg.	0.7	176.2	4.5	202	0.1	48.1	40.4	1899	6.9	4
504708	622400	6543475	40cm, uniform fine grain w/ 5% coarse to pebble size, medium brown w/ slight red/ orange tinge to it, steep slope, some alpine veg.	0.8	135.4	4.2	161	0.05	81.9	36.6	1668	6.28	3.8
504709	622400	6543500	30cm , silty- fine grain, dull grayish brown w/ orangey brown from 25-30 cm flat area, covered in alpine veg.	0.9	165	2.5	112	0.05	222.9	39.4	1346	5.73	1.9

Sample No	U (ppm)	Au (ppm)	Th (ppm)	Sr (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	V (ppm)	Ca (%)	P (%)	La (ppm)	Cr (ppm)	Mg (ppm)	Ba (ppm)	Ti (%) (ppm)	B (ppm)	Al (%) (%)	Na (%)	K (%)	W (ppm)	Hg (ppm)	Sc (ppm)	Tl (ppm)	S (%) (ppm)	Ga (ppm)	Se (ppm)
504535	0.1	3.7	0.2	14	0.5	0.2	0.05	167	0.6	0.034	2	52	3.07	16	0.212	4	2.87	0.013	0.02	0.05	0.03	16.3	0.05	0.025	10	0.5
504536	0.05	3.5	0.1	19	0.5	0.2	0.05	190	0.76	0.031	2	65	3.49	18	0.216	6	2.92	0.016	0.02	0.05	0.02	20.1	0.05	0.025	11	0.25
504537	0.1	3.5	0.2	21	0.4	0.2	0.05	198	0.59	0.032	2	51	2.25	41	0.103	7	2.43	0.014	0.02	0.05	0.02	26.6	0.05	0.06	10	0.7
504538	0.1	5	0.2	17	1	0.3	0.05	184	0.51	0.032	2	55	2.27	30	0.12	4	2.49	0.009	0.02	0.05	0.02	22.6	0.05	0.025	9	0.25
504539	0.1	5.2	0.2	19	1.3	0.2	0.05	174	0.52	0.038	2	67	2.65	34	0.1	6	2.69	0.01	0.02	0.05	0.03	21.5	0.05	0.025	9	0.7
504540	0.1	3	0.05	13	0.5	0.2	0.05	149	0.25	0.07	2	90	1.67	30	0.033	5	2.62	0.008	0.02	0.05	0.02	10.7	0.05	0.025	8	0.8
504541	0.05	2.2	0.1	9	0.05	0.05	0.05	134	0.39	0.014	2	164	3.59	15	0.015	2	3.49	0.006	0.005	0.05	0.01	21.1	0.05	0.025	10	0.25
504542	0.1	21.6	0.2	16	0.1	0.2	0.05	176	0.44	0.039	2	113	3.46	28	0.071	3	3.69	0.007	0.01	0.05	0.05	26.3	0.05	0.025	11	0.7
504543	0.1	7.5	0.2	19	0.1	0.2	0.05	167	0.5	0.039	2	98	3.42	34	0.151	3	3.33	0.009	0.01	0.05	0.05	21.1	0.05	0.025	10	0.6
504544	0.1	17.1	0.2	15	0.3	0.4	0.2	191	0.39	0.055	3	63	3.12	25	0.092	18	3.14	0.013	0.005	0.05	0.04	19.9	0.05	0.025	11	1.1
504545	0.1	4.2	0.2	19	0.9	0.3	0.05	154	0.76	0.045	3	43	2.34	29	0.025	63	3.15	0.049	0.02	0.05	0.02	23.5	0.05	0.025	8	0.6
504546	0.3	7.1	0.2	47	0.6	0.4	0.05	134	1	0.077	5	59	1.66	68	0.045	27	2.27	0.022	0.03	0.05	0.08	20.9	0.05	0.05	7	0.8
504547	0.2	11.6	0.3	29	0.4	0.3	0.05	127	1.11	0.036	4	96	2.21	59	0.222	16	2.23	0.014	0.1	0.05	0.06	17.3	0.05	0.025	6	0.8
504548	0.3	4.1	0.3	50	0.4	0.4	0.05	118	1.15	0.051	8	82	2.07	57	0.068	21	2.43	0.02	0.07	0.05	0.07	17.4	0.05	0.06	7	1.1
504549	0.2	8.6	0.2	56	0.3	0.4	0.05	74	1.74	0.073	5	62	1.2	56	0.039	22	1.67	0.022	0.07	0.05	0.09	12.7	0.05	0.13	5	0.6
504550	0.4	3.7	0.7	106	0.6	0.8	0.1	85	0.77	0.06	7	71	1.2	134	0.029	8	2.59	0.045	0.1	0.05	0.08	14.9	0.05	0.025	7	0.9
504701	0.2	7	0.5	48	1.7	0.3	0.1	194	1.38	0.064	4	71	3.28	71	0.171	20	2.86	0.023	0.02	0.05	0.04	23.3	0.05	0.14	11	0.9
504702	0.05	2.5	0.05	15	0.2	0.4	0.05	218	1.33	0.039	3	101	3.84	39	0.022	25	4	0.015	0.02	0.05	0.03	38.2	0.05	0.14	13	0.25
504703	0.1	3.8	0.4	20	0.3	0.2	0.05	194	0.59	0.054	4	48	3.38	26	0.137	10	3.04	0.013	0.02	0.05	0.02	21.8	0.05	0.09	11	0.25
504704	0.2	4	0.4	26	0.5	0.2	0.05	184	0.69	0.058	4	57	3.21	29	0.181	12	2.96	0.016	0.03	0.05	0.01	22.5	0.05	0.025	11	0.25
504705	0.2	5.5	0.4	26	0.7	0.2	0.05	208	0.72	0.059	4	62	3.54	29	0.196	11	3.34	0.015	0.03	0.05	0.02	23.9	0.05	0.025	12	0.25
504706	0.2	4.4	0.4	21	0.7	0.3	0.05	231	0.73	0.062	4	67	3.57	33	0.204	8	3.68	0.013	0.03	0.05	0.02	28.1	0.05	0.025	13	0.25
504707	0.2	5	0.3	24	1	0.2	0.05	161	0.68	0.048	3	52	3.05	30	0.132	6	2.94	0.016	0.02	0.05	0.03	21.2	0.05	0.06	10	0.25
504708	0.3	5.8	0.5	26	0.5	0.3	0.05	161	0.78	0.058	4	90	2.74	40	0.152	6	3.06	0.015	0.04	0.05	0.01	19.3	0.05	0.025	9	0.25
504709	0.3	2.6	0.3	18	0.3	0.2	0.05	144	0.67	0.037	3	228	3.29	55	0.112	7	2.71	0.01	0.02	0.05	0.02	14.6	0.05	0.025	8	0.5



Sample No	Easting	Northing	Description	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Ni (ppm)	Co (ppm)	Mn (ppm)	Fe (%)	As (ppm)
504710	622400	6543525	20cm sandy, to med grain 20% pebble/ gravel size, dull medium brown color, slight slope, moss and alpine vegetation with rocks w/ rocks on surface	0.8	71.3	1.6	60	0.05	235.2	44.8	1374	7.21	1.4
504711	622400	6543550	20cm fine to sandy grain soil w/ big rocky blocks hindering deeper probing, med to dark brown, B- Horizon, steep slope, covered w/ vegetation + rock.	0.9	59.6	3	74	0.05	141.6	36.4	1197	4.85	1.8
504712	622200	6543475	30cm, orangey tan color, fine to coarse grain w/ 20% gravel size and above, very steep talus slope, no veg	1.2	172.3	6	245	0.2	56.5	53.9	2338	7.53	6.2
504713	622100	6543625	18cm, med orangey brown, med to coarse grain, med slope, rocky w/ some boulders, little veg.	0.8	122.9	6.1	202	0.1	103.7	49.6	1757	6.47	5.6
504714	622100	6543500	20cm depth, med to coarse grain, dark tan coloration, 10% gravel size content, steep talus slope, with very little vegetation.	0.3	152.5	4.8	147	0.1	38.1	38	1979	6.58	3.3
504715	622100	6543475	15cm dark reddish brown color, fine grain near surface to med grain @ depth, very steep talus slope, no vegetation, surface is fine to med coarse rocks and soil.	0.4	220	3.4	162	0.05	58.4	44.6	2406	7.11	2.9
576611	622100	6543450	10cm, med to coarse grain with 20% gravel size and above, 60% peas size, very steep talus slope, no vegetation,	0.5	218.6	4	192	0.1	63.9	42.4	2626	6.88	4.4
576612	622500	6543275	20cm, dark brown, B- Horizon, fine grain w/ 15% pebble to gravel content, 5-10cm finer grain, @20cm becoming very rocky, steep slope with alpine vegetation	1.8	230	7	239	0.05	71.4	48.1	2151	7.39	5.2
576613	622500	6543250	20cm, dark brown, sandy to med grain 0-10cm, med to pebble size grain (talus fines) 10-20cm, very steep, surface w/ 50% veg covered, 50% talus slope	2.7	505.3	14.3	1186	0.3	75.7	58.4	2493	7.68	11.2
576614	622500	6543125	30cm, dark brown w/ slight red/ orange tinge, sandy to coarse grain, 10% pebble content or larger, rocky at depth, very steep talus slope w/ plenty of veg - assortment including evergreen shrubs.- sample taken @closest available proximity: approx 4m away from intended position.	1.2	97.8	6.9	118	0.05	72.8	36.7	1956	6.44	6.9
576615	622500	6543300	30cm, dull grayish brown, talus fines, very steep talus slope, very little vegetation aside from a red-stemmed leafed plant.	1.2	323.9	4.3	203	0.2	55.2	56.2	2438	7.12	4.3
576616	622500	6543325	30cm, dull grayish brown, fine to med coarse (talus fines) rockier at depth, very steep talus slope, very little vegetation.	1.8	319.1	6.9	290	0.3	56.5	48.2	2229	7.12	5.9
576617	622500	6543350	45cm depth, very fine grain to sandy coarse with approx 10-15% pebble size, dull chocolate coloration, very steep talus slope with little vegetation, as above.	1	471.4	13.5	162	0.2	47.3	62.2	2735	8.69	4.9
576618	622500	6543375	20cm as above but only able to go 20cm before being blocked by increasingly rocky and blocky rubble, below outcrop on very steep talus slope.	1.2	414.4	7.3	183	0.1	58.2	60.6	2546	8.72	5.4
576619	622500	6543400	40cm depth fine to medium grain, dull brown with a greenish tinge to it, fairly uniform in color and texture, very steep talus slope, little vegetation but more so than the above two samples. (grass and small alpine plants)	0.9	251.8	4.9	179	0.1	55	48.8	2005	7.13	4.1
576620	622500	6543425	25cm, dull to med brown, B- to C+ Horizon, sandy to med-coarse, 0-10cm, 10-25cm med to very coarse grain w/ 30% pebble size or larger, very rocky at depth, some vegetation, very steep talus slope.	1.1	245.5	6.1	215	0.1	54	44.7	1844	6.74	4.9
576621	622500	6543450	25cm, B- to C+ horizon, very rocky at depth, dark brown, med to very coarse grain w/ 50% gravel size or greater, steep talus slope, with med sized rocks, 10cm diameter on surface, this area of the slope has more grass growing on it than elsewhere, all over the rocky layer.	1.1	241.7	6.6	247	0.1	42.8	49.2	1959	6.55	4.4
576622	622500	6543475	25cm, dark to med brown, slight orange tinge to is, med to coarse grain, very rocky ground, (20% > gravel size) , steep slope, with extensive veg coverage.	0.8	210.6	3.8	175	0.05	38.3	37.4	1807	6.85	3
576623	622500	6543500	35cm , dull grayish brown w/ slight greenish hue, fine to med coarse grain w/ 10% pebble size to gravel size, rocky talus slope, edge of slide chute, therefore, little vegetation.	0.7	155.3	4.2	169	0.1	48	38.1	1693	6.57	3.3
576624	622500	6543525	35cm, dull to med brown, w/ slight tannish tinge, fine grain , good soil, 5% gravel, steep slope covered in moss, grass, etc, a few gravel sized rocks on surface.	0.9	93.1	5.6	161	0.05	192.4	46.5	1676	6.18	3.4
576625	622500	6543550	40cm, dark grayish brown, fine grain w/ 5% pebble to gravel size hitting rocky chunks @depth, med slope , veg covered as above.	0.9	56.2	3.3	90	0.05	367.4	50.7	1350	5.74	2.2
576626	622600	6543300	20cm, very rocky, surface is the rocky outcrop, w. 50% alpine vegetation, very rocky to depth, dull med brown color, sandy to med grain, 25% pebble size w/ 5% 5cm diameter or> size	1.1	261.1	5.8	151	0.05	321.7	55.1	1726	6.96	4.3
576627	622600	6543275	15cm, very steep slope w. outcrop, large boulders, talus and limited vegetation, 15cm, dark brown, with some lighter tan colors, particulates, fine to dandy w. 10% > 5cm diameter, rock chunks, very rocky, hard to get deep but good sample 0-10 cm	1.4	267.6	4.5	146	0.1	65.2	57.4	3025	9.26	4.9
576628	622600	6543250	10cm, very blocky, rocky, sandy to med coarse grain w/ 30% gravel size to pea size, 15% larger than gravel size, dark brown w/ slight reddish hue, extremely steep, very little vegetation.	4.7	549.2	6.1	545	0.2	59.9	65.8	5016	8.26	7

Sample No	U (ppm)	Au (ppm)	Th (ppm)	Sr (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	V (ppm)	Ca (%)	P (%)	La (ppm)	Cr (ppm)	Mg (ppm)	Ba (ppm)	Ti (%)	B (ppm)	Al (%)	Na (%)	K (%)	W (ppm)	Hg (ppm)	Sc (ppm)	Tl (ppm)	S (%)	Ga (ppm)	Se (ppm)
504710	0.2	0.8	0.3	17	0.1	0.2	0.05	154	0.58	0.037	2	196	3.52	57	0.135	7	2.77	0.011	0.02	0.05	0.02	12.3	0.05	0.025	8	0.25
504711	0.2	6.6	0.3	23	0.2	0.2	0.05	123	0.64	0.054	3	173	2.34	81	0.09	5	2.59	0.011	0.03	0.05	0.03	10.1	0.05	0.025	8	0.25
504712	0.2	5.1	0.2	20	1.2	0.4	0.05	167	0.52	0.043	3	45	1.98	35	0.055	7	2.39	0.013	0.03	0.05	0.07	22.1	0.05	0.025	8	0.9
504713	0.3	4.8	0.7	29	0.9	0.3	0.05	168	0.78	0.053	6	86	2.76	39	0.114	6	2.79	0.016	0.04	0.05	0.05	18.6	0.05	0.025	9	0.8
504714	0.5	17.7	1	24	0.4	0.2	0.05	122	0.85	0.046	13	43	2.41	34	0.036	10	2.36	0.011	0.05	0.05	0.09	20.1	0.05	0.1	8	0.5
504715	0.3	11	0.4	19	0.5	0.2	0.05	135	0.71	0.032	6	66	2.69	32	0.083	13	2.57	0.015	0.04	0.05	0.07	22.5	0.05	0.1	8	0.6
576611	0.2	8.3	0.2	20	0.5	0.3	0.05	151	0.91	0.033	3	85	3.23	32	0.112	13	3.02	0.017	0.04	0.05	0.05	21.4	0.05	0.27	9	0.6
576612	0.3	3.7	0.3	29	0.5	0.5	0.2	160	0.45	0.08	4	94	2.06	55	0.071	12	3.23	0.012	0.06	0.05	0.04	12.1	0.1	0.06	10	0.7
576613	0.4	12.4	0.4	44	3.3	0.8	0.2	154	0.71	0.092	5	92	2.85	56	0.138	7	3.41	0.034	0.07	0.05	0.1	15.6	0.4	0.1	10	1.2
576614	0.3	3.1	0.3	51	0.3	0.6	0.05	138	0.7	0.111	5	85	2.34	61	0.1	7	3.35	0.016	0.1	0.05	0.09	16.1	0.05	0.07	10	0.25
576615	0.2	4.9	0.5	35	1.9	0.2	0.05	211	0.69	0.083	6	100	3.6	22	0.152	12	3.22	0.016	0.02	0.05	0.04	22.9	0.05	0.17	11	0.8
576616	0.2	16.6	0.4	25	1.7	0.3	0.05	196	0.47	0.066	4	79	3.58	28	0.095	10	3.55	0.015	0.04	0.05	0.04	22.1	0.05	0.07	11	0.8
576617	0.2	10	0.3	19	1.4	0.2	0.1	239	0.59	0.058	3	64	3.75	29	0.166	9	3.63	0.012	0.02	0.05	0.03	26.6	0.05	0.025	12	1.2
576618	0.2	7.7	0.3	25	0.8	0.3	0.1	240	0.65	0.071	4	75	3.58	31	0.208	12	3.61	0.014	0.03	0.05	0.03	28.7	0.05	0.025	13	1.1
576619	0.2	6.5	0.5	29	0.7	0.3	0.05	189	0.57	0.07	4	69	3.12	40	0.167	10	3.11	0.018	0.03	0.05	0.03	23.1	0.05	0.025	11	0.5
576620	0.2	5.7	0.5	31	0.8	0.4	0.05	165	0.71	0.078	5	62	2.8	41	0.112	11	2.91	0.023	0.04	0.05	0.05	21.2	0.05	0.06	10	0.7
576621	0.2	5.1	0.2	34	0.9	0.4	0.1	159	0.81	0.094	4	57	2.54	35	0.105	13	2.84	0.027	0.05	0.05	0.05	19.2	0.1	0.14	9	0.7
576622	0.2	3.8	0.3	26	0.5	0.3	0.05	185	0.6	0.07	3	60	2.52	26	0.127	14	2.92	0.015	0.02	0.05	0.03	20.3	0.05	0.025	10	0.6
576623	0.2	2.9	0.3	28	0.7	0.3	0.05	175	0.86	0.045	3	54	2.94	28	0.175	8	2.99	0.019	0.03	0.05	0.02	19.2	0.05	0.05	10	0.5
576624	0.3	2.7	0.3	25	0.9	0.3	0.05	152	0.73	0.074	4	252	3.03	73	0.131	6	3.17	0.013	0.03	0.05	0.02	12.6	0.05	0.025	10	0.25
576625	0.3	2.8	0.3	26	0.3	0.3	0.05	141	1.02	0.065	3	365	4.68	99	0.163	13	2.88	0.015	0.04	0.05	0.04	10.5	0.05	0.025	8	0.25
576626	0.3	9.1	0.6	28	0.4	0.3	0.05	168	0.99	0.027	5	330	4.61	79	0.184	10	3.37	0.014	0.05	0.05	0.04	17.2	0.05	0.05	10	0.5
576627	0.2	5.8	0.4	35	0.6	0.5	0.1	185	0.77	0.08	4	91	3	46	0.075	17	3.37	0.012	0.04	0.05	0.06	28.5	0.05	0.11	10	0.9
576628	0.2	8.3	0.3	22	3.2	0.4	0.1	198	0.39	0.071	4	107	3.33	32	0.045	8	3.39	0.01	0.03	0.05	0.07	36	0.05	0.15	11	1

Sample No	Easting	Northing	Description	Mo (ppm)	Cu (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	Ni (ppm)	Co (ppm)	Mn (ppm)	Fe (%)	As (ppm)
576629	622600	6543225	30cm, dark brown, w/ orange tinge scattered throughout, fine to sandy grain w/ 15% pebble/ pea size, 5% larger than gravel size, rockier at depth, steep talus slope with little vegetation.	3	785.7	30.8	821	0.3	60.7	69.6	5150	10.92	7.5
576630	622600	6543175	15cm, steep talus slope, med veg coverage, dark dull brown, sandy to med coarse grain, 0-5cm, from 5-10 med to pebble size, 10-15 rocky chunks, angular. > 5cm.	2	155.4	14.9	310	0.2	60.4	54.4	3190	8.08	7.7
576631	622600	6543150	15cm, very rock, sample taken 1-7 cm depth as depth was too rocky, dark brown, w. some orangey/ tan particles, poor soil sample as it was too rocky, steep talus slope with med veg coverage and 50% rocky surface coverage.	1.4	165.4	9.4	389	0.1	65.1	44.9	2348	5.67	6.9
576632	622600	6543125	15cm, very rocky and blocky, poor soil, dark brown, fine to med grain, with 50% rocky with 5cm diameter, 15% pebble size, very steep talus slope, with 75% veg coverage and some larger shrubs and plants.	0.7	111.6	3.9	235	0.05	61.5	38.3	1675	5.4	3.2
576633	622600	6543050	15cm, steep talus slope, talus fines taken from 0-10 cm layer, as it was too rocky below, fine to med coarse grain, dark milk chocolate coloration, limited vegetation, but lots of moss/ grass.	1.4	99.2	8.2	114	0.3	197.3	42.9	1483	5.46	9.4
576634	622600	6543325	15cm, med brown, fine to silty grain 0-5 cm with small reddish grains, 5-15 rockier, med slope with outcrop above, bluff, sparse veg.	1	93.7	4	89	0.05	325	43.9	1285	6.05	4
576635	622600	6543400	30cm, steep talus slope, below cliff band, med brown w/ a reddish tinge to it, med to very coarse grain w/ very rocky surface coverage.	1.2	97.5	4.9	106	0.2	98.8	47.3	1819	7.21	4.6
576636	622600	6543525	B- Horizon, very rocky w/ moss and grass growing on top, dark brown w/ some organics.	1.1	260.3	5.8	222	0.2	104.5	34.6	1486	6.12	5
576637	622550	6543500	20cm, rocky, dark brown, B horizon, some light tan particles, with 10% pebble size, rockier at depth, fine to med grain 3-15cm.	1.5	125.1	5.6	147	0.1	44.2	26.1	1306	5.98	4.1
576638	622525	6543500	15cm, very rocky, poor sample, B horizon, dark brown, fine grain, w/ 50% rocks, > 5cm, and 20% pebble size. Medium slope, 50% vegetation coverage.	1.3	158.6	4.9	196	0.1	50.4	29.5	1309	5.94	3.9
576639	622475	6543500	20cm, orangey - light tan coloration, orange dominant layer is found from 10-20cm, however the color is identifiable throughout, med-fine grain, 3% gravel pea size, steep with min veg, some tufts of grass.	2.5	25.3	0.3	20	0.05	75.8	46.3	812	4.87	0.9
576640	622450	6543500	35cm, predominantly med-dark brown, w/ a greenish tinge @ depth, fine grain w/ 5% pea size gravel, max alpine vegetation, min slope, next to eroding slope - talus/ gravel,	0.9	83	5	160	0.05	172.8	44.6	1705	6.22	4.1
576641	622425	6543500	35cm, med- dark brown w. greenish hue, fine particulate, numerous light tan particles throughout, 5-8% pea size content, max vegetation, berries, mosses, grasses, med slope.	1.2	92.6	4.5	133	0.05	208.2	44.4	1648	6.31	3.3
576642	622375	6543500	40cm, mainly dark brown, w/ 3-5% gravel, gravel with a green coloration, fine/ small sand granules, max alpine vegetation, moderate slope, on a bench between an eroding slope (south) and a talus boulder slope to the north.	0.9	96.8	3.4	116	0.05	256.7	33.4	1030	5.53	2.9
576643	622350	6543500	15cm, talus fines, took top 5cm as sample, med brown with some orange coloration, 50% pea size and above, very steep slope with min vegetation, talus slope w/ grapefruit size stones strewn on surface.	1	237.6	3.6	110	0.05	58.4	42.1	2065	7.69	3.7
576644	622325	6543500	50cm, orange layer at 5cm, transitioning to a fine/ small grain, layer which extended to the base of the pit, consisting of yellow-tan particulate - almost clay like in consistency as it consolidated into a clayish texture, 5% gravel, steep slope, talus, min vegetation, some alpine veg.	3.5	984.7	1	101	0.2	69.8	85.1	2554	8.99	2.4
576645	622275	6543500	20cm, B Horizon, very rocky, dark brown coloration, organic content, min vegetation	1.3	142.5	7.1	137	0.1	31.9	28.1	1380	5.9	5.1
576646	622250	6543500	25cm, talus fines, 10% soils, med brown, small-med coarse grains, 50% rock and pebble under 10cm, min vegetation, steep talus slope.	1.6	361.4	2.5	204	0.2	52.7	57.1	2951	9.38	4.3
576647	622225	6543500	25cm, talus fine, 0-10cm taken as sample, med-brown, with some orange, very steep, med-coarse grain, except for the sample layer, which was finer small talus and sand, continuous coloration throughout pit.	1	350.5	3	199	0.1	53.8	55.1	2947	9.07	3.9
576648	622050	6543500	25cm, talus fines, light to med tan coloration, very rocky and pebbly, 75% rock and pebbles, very little vegetation, very steep talus slope,	0.8	116.7	6.4	130	0.1	36.3	40.5	2037	7.01	6.9
576649	622025	6543500	25cm, talus fines, med-light tan with some orange coloration, very rocky below 15cm, no vegetation, steep talus slope, rock slide path.	0.9	93.1	6.3	135	0.1	43.2	36.6	1728	5.86	6.8

Sample No	U (ppm)	Au (ppm)	Th (ppm)	Sr (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	V (ppm)	Ca (%)	P (%)	La (ppm)	Cr (ppm)	Mg (ppm)	Ba (ppm)	Ti (%) (ppm)	B (ppm)	Al (%)	Na (%)	K (%)	W (ppm)	Hg (ppm)	Sc (ppm)	Tl (ppm)	S (%)	Ga (ppm)	Se (ppm)
576629	0.2	14.6	0.4	18	5.5	0.8	0.2	267	0.33	0.092	6	74	3.54	42	0.069	8	3.83	0.01	0.03	0.05	0.06	37.5	0.1	0.06	13	1.3
576630	0.3	9.6	0.4	46	1.5	0.7	0.1	205	0.63	0.157	6	86	2.38	74	0.075	9	3.39	0.015	0.07	0.05	0.06	21.5	0.1	0.11	11	0.9
576631	0.3	4.7	0.3	54	3.3	0.7	0.1	130	1.2	0.173	5	79	2.05	76	0.062	9	2.71	0.017	0.14	0.05	0.15	14	0.2	0.14	8	0.9
576632	0.2	6.5	0.3	43	1.7	0.4	0.05	125	1.19	0.117	5	100	2.33	50	0.094	10	2.53	0.015	0.23	0.05	0.18	18.4	0.05	0.1	7	0.25
576633	0.5	9.1	0.7	246	0.6	0.6	0.05	96	1.42	0.083	6	167	2.71	116	0.109	7	4.09	0.054	0.23	0.05	0.11	12.8	0.05	0.06	9	0.6
576634	0.4	3.6	0.7	34	0.3	0.3	0.05	145	0.93	0.047	5	344	4.07	108	0.175	8	2.77	0.016	0.04	0.1	0.02	16.3	0.05	0.025	8	0.25
576635	0.2	25.5	0.5	32	0.3	0.3	0.05	173	0.8	0.06	4	110	3.53	38	0.142	8	3.36	0.015	0.04	0.05	0.05	20.5	0.05	0.025	10	0.25
576636	0.9	7.7	0.3	61	0.8	0.5	0.1	174	1.63	0.142	7	127	2.96	44	0.061	18	3.14	0.023	0.05	0.05	0.08	22.3	0.05	0.16	10	2.2
576637	0.3	6	0.1	36	0.7	0.4	0.1	152	0.52	0.106	4	81	1.78	52	0.079	8	2.72	0.02	0.04	0.05	0.04	10	0.05	0.11	9	0.8
576638	0.3	4.8	0.3	34	0.5	0.3	0.05	156	0.61	0.097	4	75	2.31	41	0.089	10	2.83	0.02	0.03	0.05	0.06	16.8	0.05	0.1	10	0.5
576639	0.05	3	0.05	40	0.05	0.2	0.05	85	1	0.019	2	46	2.39	41	0.041	4	2.76	0.01	0.02	0.05	0.11	15.5	0.05	0.025	5	0.25
576640	0.3	1.6	0.2	29	0.8	0.3	0.05	155	0.83	0.065	3	211	3	79	0.143	8	2.99	0.013	0.05	0.05	0.04	11	0.05	0.06	10	0.25
576641	0.4	2	0.3	34	0.4	0.3	0.05	159	1.14	0.093	4	249	3.18	97	0.135	9	2.98	0.016	0.05	0.05	0.03	14.3	0.05	0.09	9	0.25
576642	0.4	1.9	0.3	31	0.5	0.3	0.05	142	1.26	0.071	4	262	3.59	97	0.142	10	2.78	0.019	0.04	0.05	0.03	15	0.05	0.05	8	0.5
576643	0.2	8.1	0.5	35	0.3	0.3	0.05	179	0.66	0.095	4	77	3.06	44	0.098	5	3.32	0.013	0.05	0.05	0.06	19.8	0.05	0.06	10	0.7
576644	0.05	3.9	0.05	25	0.05	0.2	0.1	182	0.86	0.026	2	191	3.35	15	0.064	7	3.64	0.007	0.005	0.05	0.03	28.5	0.05	0.025	11	2.1
576645	0.3	3.4	0.2	35	0.6	0.5	0.05	139	0.78	0.119	4	54	1.55	50	0.06	10	2.49	0.019	0.05	0.05	0.07	15.4	0.05	0.13	8	0.7
576646	0.1	5.5	0.2	22	0.4	0.2	0.1	196	0.53	0.044	2	53	2.75	38	0.074	5	2.84	0.008	0.02	0.05	0.02	26.1	0.05	0.22	10	0.7
576647	0.2	4.9	0.2	21	0.7	0.2	0.1	202	0.61	0.052	3	62	3.12	38	0.107	6	3.25	0.012	0.02	0.05	0.02	27.3	0.05	0.06	11	0.8
576648	0.4	36.9	0.9	127	0.5	0.7	0.05	109	1.24	0.049	15	31	1.82	38	0.012	12	3.18	0.078	0.09	0.05	0.09	21.3	0.05	0.14	9	0.25
576649	0.2	7.3	0.6	182	0.4	0.7	0.05	89	1.32	0.042	12	32	1.73	33	0.01	13	3.4	0.116	0.1	0.05	0.08	18.9	0.05	0.07	8	0.25

## **14.0 APPENDIX II: GRAB SAMPLE ANALYSES**

Sample No	Easting	Northing	Description	Cu %	Cu (ppm)	Mo (ppm)	Pb (ppm)	Zn (ppm)
576568	623548	6542947	light green, fine grained basalt. Moderately-strongly weathered/oxidized (sulfides). 10-15% fine grained disseminated pyrite and 1-2% cpy		34.8	1.9	4.7	233
576569	623548	6542947	Limey cataclasite pillow infill, moderately oxidized, minor boxwork textures where sulfides appear to have been weathered away	0.13	1309	1.6	3.7	8784
576570	618612	6545373	malachite and azurite in talus slope. Talus predominantly light green fine grained basalt, although cobbles of gabbro and felsic intrusive rock also occur	2.16	>10000	0.2	0.4	1179
576571	618612	6545373	Talus sample from above locality	0.42	4154	0.5	0.6	906
576572	618612	6545373	Grab sample from above locality		422	0.3	0.4	45
576573	621646	6544206	Brecciated, si crusted veined, pervasively altered gabbro		55.3	2.5	0.6	34
576574	621646	6544206	Pervasively altered float adjacent to vein		42.1	0.3	0.3	5
576575	621646	6544206	deformed, foliated serpentized ultramafic with narrow colloform qz vein and asbestos vein		9.7	0.7	0.2	28
576576	621478	6543845	oxidized material from humps		31.8	0.6	0.3	23
576577	618861	6541211	fine-grained, moderately to strongly foliated lpb, moderately oxidized		26.2	0.5	0.4	7
576578	618826	6541448	dark green, fg massive Mb, outcrop rounded, lbn weathered crust with high relief clusters of pkbn radiating minerals		9.1	0.7	0.2	28
576579	623566	6542955	lgn, fine grained, massive vesicular basalt, patchy orange staining (weathered blebby sulfides?), ep veins and vesicle fill, 5%py and tr cpy.		509.8	1.7	2.2	80

Ag (ppm)	Ni (ppm)	Co (ppm)	Mn (ppm)	Fe (%)	As (ppm)	U (ppm)	Au (ppm)	Th (ppm)	Sr (ppm)	Cd (ppm)	Sb (ppm)	Bi (ppm)	V (ppm)	Ca (%)	P (%)	La (ppm)	Cr (ppm)
0.05	26.7	25	1655	5.74	4.3	0.1	4	0.1	11	1.1	0.1	0.05	219	1.92	0.043	1	28
1.1	33.4	21.7	1189	3.18	6.5	0.05	9	0.05	23	63.1	0.05	0.05	76	6.48	0.017	0.5	71
0.05	1387	852.5	648	6.29	190.4	0.05	5.5	0.05	3	1.2	0.7	0.05	145	0.22	0.006	0.5	496
0.2	1267	867.9	886	9.58	321	0.05	86.2	0.05	4	1.8	1.1	0.05	162	0.5	0.009	0.5	571
0.05	61.7	38.3	393	2.95	5	0.05	1.9	0.05	5	0.05	0.05	0.05	96	0.7	0.035	0.5	33
0.05	59.7	11	143	0.68	4	0.05	4.3	0.05	50	0.1	0.05	0.05	5	2.71	0.001	0.5	44
0.05	256.7	4.1	293	0.73	0.8	0.05	2.4	0.05	474	0.05	0.05	0.05	5	12.49	0.002	0.5	8
0.05	1910	92.6	382	4.58	0.7	0.05	4.2	0.05	5	0.05	0.05	0.05	18	0.43	0.0005	0.5	719
0.05	125.6	26.6	412	4.96	0.25	0.05	1.6	0.05	21	0.05	0.05	0.05	100	2.77	0.029	0.5	298
0.05	34.2	12	112	2.49	0.25	0.05	3.2	0.05	5	0.05	0.05	0.05	118	0.5	0.034	0.5	49
0.05	2304	115	1025	6.01	2.7	0.05	2.2	0.05	1	0.05	0.05	0.05	9	0.08	0.002	0.5	192
0.3	26.9	28	943	8.64	3.8	0.05	4.9	0.05	9	0.05	0.1	0.1	180	0.37	0.03	0.5	11

Mg (ppm)	Ba (ppm)	Ti (%)	B (ppm)	Al (%)	Na (%)	K (%)	W (ppm)	Hg (ppm)	Sc (ppm)	Tl (ppm)	S (%)	Ga (ppm)	Se (ppm)
2.75	6	0.452	0.5	2.6	0.075	0.01	0.05	0.005	11	0.05	1.8	11	0.7
1.89	7	0.168	0.5	1.88	0.018	0.03	0.05	0.45	5.9	0.05	1.45	5	2.1
7.16	4	0.12	0.5	5.82	0.017	0.005	0.05	0.005	27.9	0.05	0.13	8	1.2
9.09	7	0.121	0.5	7.54	0.008	0.005	0.05	0.03	30.1	0.05	0.09	14	2.3
2.28	8	0.21	0.5	2.07	0.079	0.01	0.05	0.005	5	0.05	0.025	6	0.25
2.39	4	0.004	0.5	0.12	0.002	0.005	0.05	0.005	0.6	0.05	0.025	0.5	0.25
11.23	9	0.006	0.5	0.06	0.008	0.005	0.05	0.005	0.9	0.05	0.06	0.5	0.25
14.57	4	0.002	17	0.17	0.003	0.005	0.05	0.005	6.6	0.05	0.025	0.5	0.25
3.4	24	0.086	3	4.76	0.012	0.02	0.05	0.01	7.8	0.05	0.025	9	0.25
0.69	2	0.112	0.5	0.7	0.133	0.03	0.05	0.005	6.2	0.05	0.31	3	0.9
20.85	2	0.003	2	0.17	0.003	0.005	0.05	0.005	6.1	0.05	0.025	0.5	0.25
2.88	3	0.269	0.5	2.91	0.053	0.01	0.05	0.005	11.2	0.05	2.61	9	3.8



## **15.0 APPENDIX III: SOIL GEOCHEMISTRY ANALYTICAL CERTIFICATES**



ACME ANALYTICAL LABORATORIES LTD.  
 852 E. Hastings St. Vancouver BC V6A 1R6 Canada  
 Phone (604) 253-3158 Fax (604) 253-1716  
 www.acmelab.com

**Client:** Copper Ridge Exploration Inc.

500 - 625 Howe St.  
 Vancouver BC V6C 2T6 Canada

Submitted By: Greg Dawson  
 Receiving Lab: Acme Analytical Laboratories (Vancouver) Ltd.  
 Received: September 04, 2007  
 Report Date: October 18, 2007  
 Page: 1 of 5

**CERTIFICATE OF ANALYSIS**

VAN07000354.1

**CLIENT JOB INFORMATION**

Project: Joss'alun  
 Shipment ID:  
 P.O. Number  
 Number of Samples: 97

**SAMPLE DISPOSAL**

RTRN-PLP Return  
 DISP-RJT Dispose of Reject After 90 days

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: Copper Ridge Exploration Inc.  
 500 - 625 Howe St.  
 Vancouver BC V6C 2T6  
 Canada

CC:

**SAMPLE PREPARATION AND ANALYTICAL PROCEDURES**

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
SS80	97	Dry at 60C sieve 100g to -80 mesh		
Split Reject	97	Reject sample split/packet		
1DX	97	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed

**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.



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ACME ANALYTICAL LABORATORIES LTD.

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Client: Copper Ridge Exploration Inc.

500 - 625 Howe St.  
Vancouver BC V6C 2T6 Canada

Project: Joss'alun

Report Date: October 18, 2007

Page: 2 of 5 Part 1

CERTIFICATE OF ANALYSIS

VAN07000354.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	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	%	%	
MDL	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	
576626	Soil	1.1	261.1	5.8	151	<0.1	321.7	55.1	1726	6.96	4.3	0.3	9.1	0.6	28	0.4	0.3	<0.1	168	0.99	0.027
576627	Soil	1.4	267.6	4.5	146	0.1	65.2	57.4	3025	9.26	4.9	0.2	5.8	0.4	35	0.6	0.5	0.1	185	0.77	0.080
576628	Soil	4.7	549.2	6.1	545	0.2	59.9	65.8	5016	8.26	7.0	0.2	8.3	0.3	22	3.2	0.4	0.1	198	0.39	0.071
576629	Soil	3.0	785.7	30.8	821	0.3	60.7	69.6	5150	10.92	7.5	0.2	14.6	0.4	18	5.5	0.8	0.2	267	0.33	0.092
576630	Soil	2.0	155.4	14.9	310	0.2	60.4	54.4	3190	8.08	7.7	0.3	9.6	0.4	46	1.5	0.7	0.1	205	0.63	0.157
576631	Soil	1.4	165.4	9.4	389	0.1	65.1	44.9	2348	5.67	6.9	0.3	4.7	0.3	54	3.3	0.7	0.1	130	1.20	0.173
576632	Soil	0.7	111.6	3.9	235	<0.1	61.5	38.3	1675	5.40	3.2	0.2	6.5	0.3	43	1.7	0.4	<0.1	125	1.19	0.117
576633	Soil	1.4	99.2	8.2	114	0.3	197.3	42.9	1483	5.46	9.4	0.5	9.1	0.7	246	0.6	0.6	<0.1	96	1.42	0.083
576634	Soil	1.0	93.7	4.0	89	<0.1	325.0	43.9	1285	6.05	4.0	0.4	3.6	0.7	34	0.3	0.3	<0.1	145	0.93	0.047
576635	Soil	1.2	97.5	4.9	106	0.2	98.8	47.3	1819	7.21	4.6	0.2	25.5	0.5	32	0.3	0.3	<0.1	173	0.80	0.060
576636	Soil	1.1	260.3	5.8	222	0.2	104.5	34.6	1486	6.12	5.0	0.9	7.7	0.3	61	0.8	0.5	0.1	174	1.63	0.142
576637	Soil	1.5	125.1	5.6	147	0.1	44.2	26.1	1306	5.98	4.1	0.3	6.0	0.1	36	0.7	0.4	0.1	152	0.52	0.106
576638	Soil	1.3	158.6	4.9	196	0.1	50.4	29.5	1309	5.94	3.9	0.3	4.8	0.3	34	0.5	0.3	<0.1	156	0.61	0.097
576639	Soil	2.5	25.3	0.3	20	<0.1	75.8	46.3	812	4.87	0.9	<0.1	3.0	<0.1	40	<0.1	0.2	<0.1	85	1.00	0.019
576640	Soil	0.9	83.0	5.0	160	<0.1	172.8	44.6	1705	6.22	4.1	0.3	1.6	0.2	29	0.8	0.3	<0.1	155	0.83	0.065
576641	Soil	1.2	92.6	4.5	133	<0.1	208.2	44.4	1648	6.31	3.3	0.4	2.0	0.3	34	0.4	0.3	<0.1	159	1.14	0.093
576642	Soil	0.9	96.8	3.4	116	<0.1	256.7	33.4	1030	5.53	2.9	0.4	1.9	0.3	31	0.5	0.3	<0.1	142	1.26	0.071
576643	Soil	1.0	237.6	3.6	110	<0.1	58.4	42.1	2065	7.69	3.7	0.2	8.1	0.5	35	0.3	0.3	<0.1	179	0.66	0.095
576644	Soil	3.5	984.7	1.0	101	0.2	69.8	85.1	2554	8.99	2.4	<0.1	3.9	<0.1	25	<0.1	0.2	0.1	182	0.86	0.026
576645	Soil	1.3	142.5	7.1	137	0.1	31.9	28.1	1380	5.90	5.1	0.3	3.4	0.2	35	0.6	0.5	<0.1	139	0.78	0.119
576646	Soil	1.6	361.4	2.5	204	0.2	52.7	57.1	2951	9.38	4.3	0.1	5.5	0.2	22	0.4	0.2	0.1	196	0.53	0.044
576647	Soil	1.0	350.5	3.0	199	0.1	53.8	55.1	2947	9.07	3.9	0.2	4.9	0.2	21	0.7	0.2	0.1	202	0.61	0.052
576648	Soil	0.8	116.7	6.4	130	0.1	36.3	40.5	2037	7.01	6.9	0.4	36.9	0.9	127	0.5	0.7	<0.1	109	1.24	0.049
576649	Soil	0.9	93.1	6.3	135	0.1	43.2	36.6	1728	5.86	6.8	0.2	7.3	0.6	182	0.4	0.7	<0.1	89	1.32	0.042
576651	Soil	0.1	101.3	0.7	59	<0.1	914.5	148.9	1417	7.67	9.0	<0.1	1.3	<0.1	9	<0.1	<0.1	<0.1	61	0.69	0.009
504509	Soil	0.8	125.9	5.5	222	<0.1	108.8	45.7	1655	7.03	5.5	0.3	15.7	0.5	36	0.9	0.3	<0.1	180	0.91	0.052
504510	Soil	0.9	135.2	6.6	225	0.1	97.4	48.9	1931	7.31	6.7	0.3	6.9	0.7	47	0.8	0.4	<0.1	183	0.91	0.071
504511	Soil	0.6	139.3	8.5	141	0.1	48.5	36.8	2245	6.78	4.9	0.6	20.5	2.2	43	0.4	0.4	0.1	129	0.67	0.094
504512	Soil	1.2	114.0	7.1	150	0.1	49.5	47.4	2125	7.61	9.9	0.6	5.1	1.0	91	0.7	0.7	<0.1	129	0.82	0.058
504513	Soil	1.2	121.7	6.4	138	0.1	57.8	46.5	1955	7.41	9.0	0.6	5.0	1.0	68	0.6	0.6	<0.1	126	0.80	0.064

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**Client: Copper Ridge Exploration Inc.**  
 500 - 625 Howe St.  
 Vancouver BC V6C 2T6 Canada

**Project: Joss'alun**  
**Report Date: October 18, 2007**

**Page: 2 of 5 Part 2**

**CERTIFICATE OF ANALYSIS**

**VAN07000354.1**

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	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	0.05	1	0.5	
576626	Soil	5	330	4.61	79	0.184	10	3.37	0.014	0.05	<0.1	0.04	17.2	<0.1	0.05	10	0.5
576627	Soil	4	91	3.00	46	0.075	17	3.37	0.012	0.04	<0.1	0.06	28.5	<0.1	0.11	10	0.9
576628	Soil	4	107	3.33	32	0.045	8	3.39	0.010	0.03	<0.1	0.07	36.0	<0.1	0.15	11	1.0
576629	Soil	6	74	3.54	42	0.069	8	3.83	0.010	0.03	<0.1	0.06	37.5	0.1	0.06	13	1.3
576630	Soil	6	86	2.38	74	0.075	9	3.39	0.015	0.07	<0.1	0.06	21.5	0.1	0.11	11	0.9
576631	Soil	5	79	2.05	76	0.062	9	2.71	0.017	0.14	<0.1	0.15	14.0	0.2	0.14	8	0.9
576632	Soil	5	100	2.33	50	0.094	10	2.53	0.015	0.23	<0.1	0.18	18.4	<0.1	0.10	7	<0.5
576633	Soil	6	167	2.71	116	0.109	7	4.09	0.054	0.23	<0.1	0.11	12.8	<0.1	0.06	9	0.6
576634	Soil	5	344	4.07	108	0.175	8	2.77	0.016	0.04	0.1	0.02	16.3	<0.1	<0.05	8	<0.5
576635	Soil	4	110	3.53	38	0.142	8	3.36	0.015	0.04	<0.1	0.05	20.5	<0.1	<0.05	10	<0.5
576636	Soil	7	127	2.96	44	0.061	18	3.14	0.023	0.05	<0.1	0.08	22.3	<0.1	0.16	10	2.2
576637	Soil	4	81	1.78	52	0.079	8	2.72	0.020	0.04	<0.1	0.04	10.0	<0.1	0.11	9	0.8
576638	Soil	4	75	2.31	41	0.089	10	2.83	0.020	0.03	<0.1	0.06	16.8	<0.1	0.10	10	0.5
576639	Soil	2	46	2.39	41	0.041	4	2.76	0.010	0.02	<0.1	0.11	15.5	<0.1	<0.05	5	<0.5
576640	Soil	3	211	3.00	79	0.143	8	2.99	0.013	0.05	<0.1	0.04	11.0	<0.1	0.06	10	<0.5
576641	Soil	4	249	3.18	97	0.135	9	2.98	0.016	0.05	<0.1	0.03	14.3	<0.1	0.09	9	<0.5
576642	Soil	4	262	3.59	97	0.142	10	2.78	0.019	0.04	<0.1	0.03	15.0	<0.1	0.05	8	0.5
576643	Soil	4	77	3.06	44	0.098	5	3.32	0.013	0.05	<0.1	0.06	19.8	<0.1	0.06	10	0.7
576644	Soil	2	191	3.35	15	0.064	7	3.64	0.007	<0.01	<0.1	0.03	28.5	<0.1	<0.05	11	2.1
576645	Soil	4	54	1.55	50	0.060	10	2.49	0.019	0.05	<0.1	0.07	15.4	<0.1	0.13	8	0.7
576646	Soil	2	53	2.75	38	0.074	5	2.84	0.008	0.02	<0.1	0.02	26.1	<0.1	0.22	10	0.7
576647	Soil	3	62	3.12	38	0.107	6	3.25	0.012	0.02	<0.1	0.02	27.3	<0.1	0.06	11	0.8
576648	Soil	15	31	1.82	38	0.012	12	3.18	0.078	0.09	<0.1	0.09	21.3	<0.1	0.14	9	<0.5
576649	Soil	12	32	1.73	33	0.010	13	3.40	0.116	0.10	<0.1	0.08	18.9	<0.1	0.07	8	<0.5
576651	Soil	<1	418	12.01	3	0.027	10	3.20	0.005	<0.01	<0.1	<0.01	5.9	<0.1	<0.05	6	1.8
504509	Soil	4	107	3.12	39	0.129	6	3.17	0.020	0.04	<0.1	0.03	20.5	<0.1	<0.05	11	0.6
504510	Soil	5	103	3.35	51	0.127	8	3.44	0.024	0.05	<0.1	0.04	23.2	<0.1	<0.05	11	0.7
504511	Soil	20	46	1.92	58	0.046	8	2.51	0.015	0.08	<0.1	0.07	18.1	<0.1	<0.05	8	0.6
504512	Soil	13	49	1.86	61	0.028	12	3.02	0.029	0.09	<0.1	0.06	23.7	<0.1	<0.05	8	0.7
504513	Soil	12	58	1.92	48	0.035	11	2.83	0.036	0.09	<0.1	0.05	22.8	<0.1	<0.05	8	0.6

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**Project:** Joss'alun

**Report Date:** October 18, 2007

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**CERTIFICATE OF ANALYSIS**

**VAN07000354.1**

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	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	%	%	
MDL	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	
504514	Soil	1.2	111.3	6.8	153	0.1	51.8	57.1	2425	8.65	11.2	0.4	7.2	0.7	146	0.7	0.9	<0.1	137	0.97	0.047
504515	Soil	1.0	165.8	7.7	149	0.2	43.0	50.2	2503	7.96	9.1	0.4	16.4	0.8	109	0.6	0.8	<0.1	138	0.87	0.046
504516	Soil	0.8	107.6	5.9	130	0.1	34.1	40.2	1843	6.42	7.5	0.3	12.6	0.6	170	0.5	0.7	<0.1	110	1.34	0.040
504517	Soil	1.3	83.6	6.4	121	<0.1	331.3	38.1	1156	5.54	8.4	0.6	1.4	0.7	68	0.6	0.5	0.1	121	1.07	0.072
504518	Soil	1.1	133.7	4.6	124	<0.1	66.9	28.3	1443	6.33	5.3	0.5	3.2	0.9	46	0.3	0.5	<0.1	115	0.64	0.073
504519	Soil	0.5	62.1	5.6	74	0.2	24.2	39.6	1622	5.04	7.5	0.3	2.1	0.3	89	0.2	0.4	<0.1	97	1.40	0.098
504520	Soil	3.9	82.0	9.7	144	0.1	22.9	33.5	1071	6.07	10.0	0.2	1.0	0.3	118	0.3	0.5	0.3	77	0.49	0.098
504521	Soil	1.9	61.2	5.8	100	<0.1	47.3	20.1	972	4.65	4.8	0.4	3.3	0.6	35	0.3	0.5	<0.1	85	0.33	0.126
504522	Soil	0.7	112.3	2.9	94	<0.1	130.3	32.7	1200	5.70	4.0	0.4	3.0	0.4	36	0.2	0.3	<0.1	138	0.86	0.047
504523	Soil	0.6	188.8	3.6	152	<0.1	48.3	39.7	1689	7.29	2.5	0.3	13.0	0.2	24	0.4	0.3	<0.1	149	0.90	0.050
504524	Soil	0.8	168.6	4.7	267	0.1	52.9	48.1	2111	8.06	5.8	0.3	7.4	0.3	27	0.7	0.3	<0.1	179	0.94	0.063
504525	Soil	1.6	83.4	5.6	144	<0.1	57.6	31.9	1655	6.37	6.8	0.5	3.3	0.7	41	0.3	0.6	<0.1	128	0.55	0.070
504526	Soil	1.4	93.5	6.2	150	<0.1	56.9	29.5	1799	5.57	5.6	0.5	4.1	0.5	44	0.5	0.6	<0.1	112	0.83	0.105
504527	Soil	0.3	139.9	1.3	73	<0.1	31.6	36.5	1988	6.14	2.0	0.2	1.9	0.2	27	0.2	0.2	<0.1	154	0.88	0.032
504528	Soil	0.7	282.9	3.1	118	<0.1	71.4	40.6	2295	8.13	4.2	0.3	7.8	0.4	40	0.5	0.5	<0.1	148	1.17	0.070
504529	Soil	1.0	121.0	5.4	101	0.2	61.5	28.7	1341	5.41	8.9	0.3	7.2	0.3	35	0.4	0.6	<0.1	84	1.61	0.083
504530	Soil	0.8	69.6	5.5	97	0.2	40.7	24.8	1253	4.85	7.7	0.3	2.7	0.4	43	0.3	0.5	<0.1	74	0.72	0.070
504531	Soil	0.9	138.3	1.9	82	<0.1	55.7	38.2	2066	6.92	2.4	0.3	2.4	0.3	27	0.2	0.3	<0.1	174	1.07	0.045
504532	Soil	0.5	270.0	2.9	156	<0.1	59.5	54.9	1818	7.40	3.9	0.1	3.3	0.2	16	0.5	0.2	<0.1	202	1.21	0.041
576611	Soil	0.5	218.6	4.0	192	0.1	63.9	42.4	2626	6.88	4.4	0.2	8.3	0.2	20	0.5	0.3	<0.1	151	0.91	0.033
576612	Soil	1.8	230.0	7.0	239	<0.1	71.4	48.1	2151	7.39	5.2	0.3	3.7	0.3	29	0.5	0.5	0.2	160	0.45	0.080
576613	Soil	2.7	505.3	14.3	1186	0.3	75.7	58.4	2493	7.68	11.2	0.4	12.4	0.4	44	3.3	0.8	0.2	154	0.71	0.092
576614	Soil	1.2	97.8	6.9	118	<0.1	72.8	36.7	1956	6.44	6.9	0.3	3.1	0.3	51	0.3	0.6	<0.1	138	0.70	0.111
576615	Soil	1.2	323.9	4.3	203	0.2	55.2	56.2	2438	7.12	4.3	0.2	4.9	0.5	35	1.9	0.2	<0.1	211	0.69	0.083
576616	Soil	1.8	319.1	6.9	290	0.3	56.5	48.2	2229	7.12	5.9	0.2	16.6	0.4	25	1.7	0.3	<0.1	196	0.47	0.066
576617	Soil	1.0	471.4	13.5	162	0.2	47.3	62.2	2735	8.69	4.9	0.2	10.0	0.3	19	1.4	0.2	0.1	239	0.59	0.058
576618	Soil	1.2	414.4	7.3	183	0.1	58.2	60.6	2546	8.72	5.4	0.2	7.7	0.3	25	0.8	0.3	0.1	240	0.65	0.071
576619	Soil	0.9	251.8	4.9	179	0.1	55.0	48.8	2005	7.13	4.1	0.2	6.5	0.5	29	0.7	0.3	<0.1	189	0.57	0.070
576620	Soil	1.1	245.5	6.1	215	0.1	54.0	44.7	1844	6.74	4.9	0.2	5.7	0.5	31	0.8	0.4	<0.1	165	0.71	0.078
576621	Soil	1.1	241.7	6.6	247	0.1	42.8	49.2	1959	6.55	4.4	0.2	5.1	0.2	34	0.9	0.4	0.1	159	0.81	0.094

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Project:

Joss'alun

Report Date:

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Part 2

## CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	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
504514	Soil	11	44	1.89	42	0.013	18	3.40	0.040	0.09	<0.1	0.05	31.2	<0.1	<0.05	10	0.5
504515	Soil	15	36	1.99	39	0.009	14	3.28	0.044	0.08	<0.1	0.04	30.2	<0.1	<0.05	9	0.6
504516	Soil	12	29	1.71	31	0.008	14	3.52	0.113	0.10	<0.1	0.06	21.7	<0.1	0.07	9	0.5
504517	Soil	8	307	3.84	74	0.158	10	3.18	0.016	0.06	<0.1	0.03	15.4	<0.1	<0.05	9	0.7
504518	Soil	7	76	1.86	56	0.038	11	2.58	0.019	0.07	<0.1	0.03	20.2	<0.1	<0.05	7	<0.5
504519	Soil	4	18	1.10	42	0.004	5	4.74	0.548	0.06	<0.1	0.04	16.6	<0.1	<0.05	11	0.5
504520	Soil	3	15	0.90	110	0.001	3	2.56	0.046	0.03	<0.1	0.09	9.5	<0.1	0.05	7	0.7
504521	Soil	8	68	1.25	85	0.007	6	2.62	0.028	0.05	<0.1	0.07	11.1	<0.1	0.09	7	0.7
504522	Soil	4	148	3.09	51	0.174	8	2.94	0.015	0.07	<0.1	0.06	14.8	<0.1	<0.05	8	<0.5
504523	Soil	2	44	2.16	36	0.155	6	2.69	0.014	0.04	<0.1	0.04	19.6	<0.1	<0.05	8	<0.5
504524	Soil	3	60	2.58	36	0.191	7	3.23	0.016	0.03	<0.1	0.04	29.6	0.1	<0.05	10	<0.5
504525	Soil	5	61	1.71	48	0.068	9	2.44	0.022	0.05	<0.1	0.04	19.9	<0.1	<0.05	7	0.6
504526	Soil	6	55	1.44	62	0.039	10	2.20	0.019	0.06	<0.1	0.09	19.6	<0.1	0.07	6	0.6
504527	Soil	2	30	2.09	45	0.135	29	2.58	0.021	0.03	<0.1	0.04	23.9	<0.1	<0.05	7	0.6
504528	Soil	4	113	1.78	85	0.150	20	2.16	0.017	0.07	<0.1	0.10	25.6	<0.1	0.06	7	<0.5
504529	Soil	12	67	1.48	47	0.019	12	1.99	0.014	0.08	<0.1	0.11	17.4	<0.1	0.10	6	0.6
504530	Soil	12	43	1.28	41	0.006	6	2.88	0.037	0.06	<0.1	0.09	18.7	<0.1	<0.05	8	<0.5
504531	Soil	3	85	2.29	39	0.184	11	3.02	0.014	0.03	<0.1	0.05	28.5	<0.1	<0.05	8	0.6
504532	Soil	2	87	3.73	24	0.164	12	3.78	0.018	0.02	<0.1	0.02	22.2	<0.1	<0.05	12	<0.5
576611	Soil	3	85	3.23	32	0.112	13	3.02	0.017	0.04	<0.1	0.05	21.4	<0.1	0.27	9	0.6
576612	Soil	4	94	2.06	55	0.071	12	3.23	0.012	0.06	<0.1	0.04	12.1	0.1	0.06	10	0.7
576613	Soil	5	92	2.85	56	0.138	7	3.41	0.034	0.07	<0.1	0.10	15.6	0.4	0.10	10	1.2
576614	Soil	5	85	2.34	61	0.100	7	3.35	0.016	0.10	<0.1	0.09	16.1	<0.1	0.07	10	<0.5
576615	Soil	6	100	3.60	22	0.152	12	3.22	0.016	0.02	<0.1	0.04	22.9	<0.1	0.17	11	0.8
576616	Soil	4	79	3.58	28	0.095	10	3.55	0.015	0.04	<0.1	0.04	22.1	<0.1	0.07	11	0.8
576617	Soil	3	64	3.75	29	0.166	9	3.63	0.012	0.02	<0.1	0.03	26.6	<0.1	<0.05	12	1.2
576618	Soil	4	75	3.58	31	0.208	12	3.61	0.014	0.03	<0.1	0.03	28.7	<0.1	<0.05	13	1.1
576619	Soil	4	69	3.12	40	0.167	10	3.11	0.018	0.03	<0.1	0.03	23.1	<0.1	<0.05	11	0.5
576620	Soil	5	62	2.80	41	0.112	11	2.91	0.023	0.04	<0.1	0.05	21.2	<0.1	0.06	10	0.7
576621	Soil	4	57	2.54	35	0.105	13	2.84	0.027	0.05	<0.1	0.05	19.2	0.1	0.14	9	0.7

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500 - 625 Howe St.  
 Vancouver BC V6C 2T6 Canada

**Project:** Joss'alun

**Report Date:** October 18, 2007

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**CERTIFICATE OF ANALYSIS**

**VAN07000354.1**

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	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	%	%	
MDL	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	
576622	Soil	0.8	210.6	3.8	175	<0.1	38.3	37.4	1807	6.85	3.0	0.2	3.8	0.3	26	0.5	0.3	<0.1	185	0.60	0.070
576623	Soil	0.7	155.3	4.2	169	0.1	48.0	38.1	1693	6.57	3.3	0.2	2.9	0.3	28	0.7	0.3	<0.1	175	0.86	0.045
576624	Soil	0.9	93.1	5.6	161	<0.1	192.4	46.5	1676	6.18	3.4	0.3	2.7	0.3	25	0.9	0.3	<0.1	152	0.73	0.074
576625	Soil	0.9	56.2	3.3	90	<0.1	367.4	50.7	1350	5.74	2.2	0.3	2.8	0.3	26	0.3	0.3	<0.1	141	1.02	0.065
504701	Soil	0.5	373.3	3.2	181	0.3	51.0	47.5	2395	7.94	3.2	0.2	7.0	0.5	48	1.7	0.3	0.1	194	1.38	0.064
504702	Soil	0.6	208.1	1.5	132	<0.1	53.4	43.6	2612	9.30	3.0	<0.1	2.5	<0.1	15	0.2	0.4	<0.1	218	1.33	0.039
504703	Soil	0.6	184.7	4.5	133	0.1	40.8	41.6	1828	6.97	2.6	0.1	3.8	0.4	20	0.3	0.2	<0.1	194	0.59	0.054
504704	Soil	0.8	164.1	6.6	152	0.1	47.4	39.3	1719	6.65	3.3	0.2	4.0	0.4	26	0.5	0.2	<0.1	184	0.69	0.058
504705	Soil	0.8	186.4	7.7	194	0.1	49.0	43.1	1982	7.31	3.7	0.2	5.5	0.4	26	0.7	0.2	<0.1	208	0.72	0.059
504706	Soil	0.8	193.9	4.2	204	0.1	56.4	45.9	1981	7.88	4.2	0.2	4.4	0.4	21	0.7	0.3	<0.1	231	0.73	0.062
504707	Soil	0.7	176.2	4.5	202	0.1	48.1	40.4	1899	6.90	4.0	0.2	5.0	0.3	24	1.0	0.2	<0.1	161	0.68	0.048
504708	Soil	0.8	135.4	4.2	161	<0.1	81.9	36.6	1668	6.28	3.8	0.3	5.8	0.5	26	0.5	0.3	<0.1	161	0.78	0.058
504709	Soil	0.9	165.0	2.5	112	<0.1	222.9	39.4	1346	5.73	1.9	0.3	2.6	0.3	18	0.3	0.2	<0.1	144	0.67	0.037
504710	Soil	0.8	71.3	1.6	60	<0.1	235.2	44.8	1374	7.21	1.4	0.2	0.8	0.3	17	0.1	0.2	<0.1	154	0.58	0.037
504711	Soil	0.9	59.6	3.0	74	<0.1	141.6	36.4	1197	4.85	1.8	0.2	6.6	0.3	23	0.2	0.2	<0.1	123	0.64	0.054
504712	Soil	1.2	172.3	6.0	245	0.2	56.5	53.9	2338	7.53	6.2	0.2	5.1	0.2	20	1.2	0.4	<0.1	167	0.52	0.043
504713	Soil	0.8	122.9	6.1	202	0.1	103.7	49.6	1757	6.47	5.6	0.3	4.8	0.7	29	0.9	0.3	<0.1	168	0.78	0.053
504714	Soil	0.3	152.5	4.8	147	0.1	38.1	38.0	1979	6.58	3.3	0.5	17.7	1.0	24	0.4	0.2	<0.1	122	0.85	0.046
504715	Soil	0.4	220.0	3.4	162	<0.1	58.4	44.6	2406	7.11	2.9	0.3	11.0	0.4	19	0.5	0.2	<0.1	135	0.71	0.032
504533	Soil	0.7	171.6	2.1	246	<0.1	37.5	43.7	1877	6.67	2.2	<0.1	5.1	0.1	13	1.2	0.3	<0.1	179	0.78	0.034
504534	Soil	0.7	142.9	2.6	246	<0.1	38.9	41.7	1539	6.15	4.0	0.1	12.1	0.2	17	0.7	0.2	<0.1	153	1.03	0.035
504535	Soil	0.5	221.2	3.0	171	<0.1	48.7	37.6	1396	5.86	2.7	0.1	3.7	0.2	14	0.5	0.2	<0.1	167	0.60	0.034
504536	Soil	0.5	112.6	3.5	144	0.1	53.9	54.4	1690	6.47	1.8	<0.1	3.5	0.1	19	0.5	0.2	<0.1	190	0.76	0.031
504537	Soil	0.6	167.8	2.9	173	0.1	46.2	48.9	2319	8.37	2.6	0.1	3.5	0.2	21	0.4	0.2	<0.1	198	0.59	0.032
504538	Soil	0.7	220.5	4.9	179	0.2	50.6	44.9	2071	7.20	3.5	0.1	5.0	0.2	17	1.0	0.3	<0.1	184	0.51	0.032
504539	Soil	1.1	194.3	4.5	257	0.2	53.3	46.4	2224	7.14	4.0	0.1	5.2	0.2	19	1.3	0.2	<0.1	174	0.52	0.038
504540	Soil	1.2	258.1	2.3	136	<0.1	54.3	27.9	1329	5.80	2.0	0.1	3.0	<0.1	13	0.5	0.2	<0.1	149	0.25	0.070
504541	Soil	0.3	101.1	0.6	65	<0.1	90.5	37.1	1492	6.05	0.9	<0.1	2.2	0.1	9	<0.1	<0.1	<0.1	134	0.39	0.014
504542	Soil	0.8	296.9	1.5	76	0.1	69.6	49.4	2464	8.19	3.4	0.1	21.6	0.2	16	0.1	0.2	<0.1	176	0.44	0.039
504543	Soil	0.9	313.2	1.3	70	0.1	89.8	47.5	2248	7.24	2.2	0.1	7.5	0.2	19	0.1	0.2	<0.1	167	0.50	0.039

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# AcmeLabs

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Client:

Copper Ridge Exploration Inc.

500 - 625 Howe St.  
Vancouver BC V6C 2T6 Canada

Project:

Joss'alun

Report Date:

October 18, 2007

Page:

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## CERTIFICATE OF ANALYSIS

VAN07000354.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	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
576622	Soil	3	60	2.52	26	0.127	14	2.92	0.015	0.02	<0.1	0.03	20.3	<0.1	<0.05	10	0.6
576623	Soil	3	54	2.94	28	0.175	8	2.99	0.019	0.03	<0.1	0.02	19.2	<0.1	0.05	10	0.5
576624	Soil	4	252	3.03	73	0.131	6	3.17	0.013	0.03	<0.1	0.02	12.6	<0.1	<0.05	10	<0.5
576625	Soil	3	365	4.68	99	0.163	13	2.88	0.015	0.04	<0.1	0.04	10.5	<0.1	<0.05	8	<0.5
504701	Soil	4	71	3.28	71	0.171	20	2.86	0.023	0.02	<0.1	0.04	23.3	<0.1	0.14	11	0.9
504702	Soil	3	101	3.84	39	0.022	25	4.00	0.015	0.02	<0.1	0.03	38.2	<0.1	0.14	13	<0.5
504703	Soil	4	48	3.38	26	0.137	10	3.04	0.013	0.02	<0.1	0.02	21.8	<0.1	0.09	11	<0.5
504704	Soil	4	57	3.21	29	0.181	12	2.96	0.016	0.03	<0.1	0.01	22.5	<0.1	<0.05	11	<0.5
504705	Soil	4	62	3.54	29	0.196	11	3.34	0.015	0.03	<0.1	0.02	23.9	<0.1	<0.05	12	<0.5
504706	Soil	4	67	3.57	33	0.204	8	3.68	0.013	0.03	<0.1	0.02	28.1	<0.1	<0.05	13	<0.5
504707	Soil	3	52	3.05	30	0.132	6	2.94	0.016	0.02	<0.1	0.03	21.2	<0.1	0.06	10	<0.5
504708	Soil	4	90	2.74	40	0.152	6	3.06	0.015	0.04	<0.1	0.01	19.3	<0.1	<0.05	9	<0.5
504709	Soil	3	228	3.29	55	0.112	7	2.71	0.010	0.02	<0.1	0.02	14.6	<0.1	<0.05	8	0.5
504710	Soil	2	196	3.52	57	0.135	7	2.77	0.011	0.02	<0.1	0.02	12.3	<0.1	<0.05	8	<0.5
504711	Soil	3	173	2.34	81	0.090	5	2.59	0.011	0.03	<0.1	0.03	10.1	<0.1	<0.05	8	<0.5
504712	Soil	3	45	1.98	35	0.055	7	2.39	0.013	0.03	<0.1	0.07	22.1	<0.1	<0.05	8	0.9
504713	Soil	6	86	2.76	39	0.114	6	2.79	0.016	0.04	<0.1	0.05	18.6	<0.1	<0.05	9	0.8
504714	Soil	13	43	2.41	34	0.036	10	2.36	0.011	0.05	<0.1	0.09	20.1	<0.1	0.10	8	0.5
504715	Soil	6	66	2.69	32	0.083	13	2.57	0.015	0.04	<0.1	0.07	22.5	<0.1	0.10	8	0.6
504533	Soil	2	49	3.06	19	0.162	11	3.20	0.017	0.02	<0.1	0.03	22.9	<0.1	<0.05	10	<0.5
504534	Soil	2	36	2.77	22	0.155	8	3.30	0.022	0.02	<0.1	0.04	16.3	<0.1	<0.05	9	<0.5
504535	Soil	2	52	3.07	16	0.212	4	2.87	0.013	0.02	<0.1	0.03	16.3	<0.1	<0.05	10	0.5
504536	Soil	2	65	3.49	18	0.216	6	2.92	0.016	0.02	<0.1	0.02	20.1	<0.1	<0.05	11	<0.5
504537	Soil	2	51	2.25	41	0.103	7	2.43	0.014	0.02	<0.1	0.02	26.6	<0.1	0.06	10	0.7
504538	Soil	2	55	2.27	30	0.120	4	2.49	0.009	0.02	<0.1	0.02	22.6	<0.1	<0.05	9	<0.5
504539	Soil	2	67	2.65	34	0.100	6	2.69	0.010	0.02	<0.1	0.03	21.5	<0.1	<0.05	9	0.7
504540	Soil	2	90	1.67	30	0.033	5	2.62	0.008	0.02	<0.1	0.02	10.7	<0.1	<0.05	8	0.8
504541	Soil	2	164	3.59	15	0.015	2	3.49	0.006	<0.01	<0.1	0.01	21.1	<0.1	<0.05	10	<0.5
504542	Soil	2	113	3.46	28	0.071	3	3.69	0.007	0.01	<0.1	0.05	26.3	<0.1	<0.05	11	0.7
504543	Soil	2	98	3.42	34	0.151	3	3.33	0.009	0.01	<0.1	0.05	21.1	<0.1	<0.05	10	0.6

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**Project:** Joss'alun  
**Report Date:** October 18, 2007

**Page:** 5 of 5 **Part** 1

## CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL
504544	Soil	2.5	288.4	8.1	228	0.2	47.4	49.0	1790	8.42	7.3	0.1	17.1	0.2	15	0.3	0.4	0.2	191	0.39	0.055
504545	Soil	0.7	113.7	9.0	440	0.1	47.8	41.1	1456	6.73	6.9	0.1	4.2	0.2	19	0.9	0.3	<0.1	154	0.76	0.045
504546	Soil	0.7	131.8	3.9	224	0.2	53.6	38.3	1819	5.51	2.8	0.3	7.1	0.2	47	0.6	0.4	<0.1	134	1.00	0.077
504547	Soil	0.6	510.3	2.4	111	<0.1	82.1	37.2	2126	5.67	2.7	0.2	11.6	0.3	29	0.4	0.3	<0.1	127	1.11	0.036
504548	Soil	0.7	158.5	5.6	128	0.1	68.8	37.4	2025	5.39	4.5	0.3	4.1	0.3	50	0.4	0.4	<0.1	118	1.15	0.051
504549	Soil	0.8	106.0	3.4	88	<0.1	56.1	28.6	1266	3.58	2.9	0.2	8.6	0.2	56	0.3	0.4	<0.1	74	1.74	0.073
504550	Soil	1.9	84.3	7.8	168	<0.1	57.7	31.3	1313	4.98	6.1	0.4	3.7	0.7	106	0.6	0.8	0.1	85	0.77	0.060

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**Client:** Copper Ridge Exploration Inc.  
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**Project:** Joss'alun  
**Report Date:** October 18, 2007

**Page:** 5 of 5 **Part** 2

## CERTIFICATE OF ANALYSIS

VAN07000354.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		La	Cr	Mg	Ba	Ti	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
504544	Soil	3	63	3.12	25	0.092	18	3.14	0.013	<0.01	<0.1	0.04	19.9	<0.1	<0.05	11	1.1
504545	Soil	3	43	2.34	29	0.025	63	3.15	0.049	0.02	<0.1	0.02	23.5	<0.1	<0.05	8	0.6
504546	Soil	5	59	1.66	68	0.045	27	2.27	0.022	0.03	<0.1	0.08	20.9	<0.1	0.05	7	0.8
504547	Soil	4	96	2.21	59	0.222	16	2.23	0.014	0.10	<0.1	0.06	17.3	<0.1	<0.05	6	0.8
504548	Soil	8	82	2.07	57	0.068	21	2.43	0.020	0.07	<0.1	0.07	17.4	<0.1	0.06	7	1.1
504549	Soil	5	62	1.20	56	0.039	22	1.67	0.022	0.07	<0.1	0.09	12.7	<0.1	0.13	5	0.6
504550	Soil	7	71	1.20	134	0.029	8	2.59	0.045	0.10	<0.1	0.08	14.9	<0.1	<0.05	7	0.9

## QUALITY CONTROL REPORT

VAN07000354.1

Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	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	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
576633	Soil	1.4	99.2	8.2	114	0.3	197.3	42.9	1483	5.46	9.4	0.5	9.1	0.7	246	0.6	0.6	<0.1	96	1.42	0.083
REP 576633	QC	1.3	97.3	8.1	116	0.2	198.7	43.2	1468	5.41	8.8	0.5	6.2	0.7	239	0.4	0.6	0.1	94	1.37	0.082
576647	Soil	1.0	350.5	3.0	199	0.1	53.8	55.1	2947	9.07	3.9	0.2	4.9	0.2	21	0.7	0.2	0.1	202	0.61	0.052
REP 576647	QC	1.0	358.5	3.2	205	0.1	54.5	54.9	2966	9.28	4.3	0.1	4.3	0.2	22	0.7	0.2	0.1	207	0.61	0.053
576612	Soil	1.8	230.0	7.0	239	<0.1	71.4	48.1	2151	7.39	5.2	0.3	3.7	0.3	29	0.5	0.5	0.2	160	0.45	0.080
REP 576612	QC	1.8	229.7	6.8	237	<0.1	70.2	46.3	2134	7.29	5.2	0.3	2.6	0.3	29	0.5	0.5	0.2	155	0.43	0.081
576620	Soil	1.1	245.5	6.1	215	0.1	54.0	44.7	1844	6.74	4.9	0.2	5.7	0.5	31	0.8	0.4	<0.1	165	0.71	0.078
REP 576620	QC	1.1	242.9	6.5	222	0.1	54.6	47.0	1850	6.97	5.2	0.3	4.0	0.5	34	0.9	0.3	0.1	173	0.73	0.079
504707	Soil	0.7	176.2	4.5	202	0.1	48.1	40.4	1899	6.90	4.0	0.2	5.0	0.3	24	1.0	0.2	<0.1	161	0.68	0.048
REP 504707	QC	0.7	180.5	4.7	206	0.1	49.0	41.5	1918	7.04	4.1	0.2	6.5	0.3	25	0.8	0.2	<0.1	165	0.68	0.049
504714	Soil	0.3	152.5	4.8	147	0.1	38.1	38.0	1979	6.58	3.3	0.5	17.7	1.0	24	0.4	0.2	<0.1	122	0.85	0.046
REP 504714	QC	0.4	167.2	4.8	150	0.1	40.5	41.2	2090	6.90	3.3	0.4	54.0	1.0	24	0.5	0.2	<0.1	123	0.88	0.047
504550	Soil	1.9	84.3	7.8	168	<0.1	57.7	31.3	1313	4.98	6.1	0.4	3.7	0.7	106	0.6	0.8	0.1	85	0.77	0.060
REP 504550	QC	1.8	83.9	8.1	179	<0.1	58.2	31.5	1360	5.21	6.3	0.4	7.8	0.7	108	0.5	0.8	0.1	90	0.78	0.061
Reference Materials																					
STD DS7	Standard	19.6	101.2	62.9	390	0.8	54.9	9.3	577	2.24	46.5	4.6	63.3	4.1	70	5.8	5.9	4.1	83	0.89	0.071
STD DS7	Standard	22.0	109.0	73.1	415	0.9	58.7	10.4	667	2.64	55.9	5.4	64.1	5.1	89	7.1	6.7	5.0	92	1.03	0.088
STD DS7	Standard	21.0	108.7	70.6	403	0.9	57.9	9.6	676	2.58	55.2	5.3	79.9	5.0	88	6.9	6.8	5.0	88	1.02	0.087
STD DS7	Standard	20.1	114.2	73.7	433	0.9	57.8	9.5	673	2.60	56.4	5.1	79.5	4.7	79	6.9	5.9	4.9	88	1.01	0.089
STD DS7 Expected		20.92	109	70.6	411	0.89	56	9.7	627	2.39	48.2	4.9	70	4.4	68.7	6.38	5.86	4.51	86	0.93	0.08
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	<0.1	<2	<0.01	<0.001
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	<0.1	<2	<0.01	<0.001
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	<0.1	<2	<0.01	<0.001
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	<0.1	<2	<0.01	<0.001



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 500 - 625 Howe St.  
 Vancouver BC V6C 2T6 Canada

**Project:** Joss'alun  
**Report Date:** October 18, 2007

**Page:** 1 of 1 Part 2

**QUALITY CONTROL REPORT**

**VAN07000354.1**

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	La	Cr	Mg	Ba	Ti	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	0.01	0.05	1	0.5	
<b>Pulp Duplicates</b>																	
576633	Soil	6	167	2.71	116	0.109	7	4.09	0.054	0.23	<0.1	0.11	12.8	<0.1	0.06	9	0.6
REP 576633	QC	6	166	2.62	114	0.103	6	3.92	0.054	0.22	<0.1	0.11	12.2	<0.1	<0.05	10	<0.5
576647	Soil	3	62	3.12	38	0.107	6	3.25	0.012	0.02	<0.1	0.02	27.3	<0.1	0.06	11	0.8
REP 576647	QC	3	64	3.21	38	0.107	7	3.38	0.009	0.02	<0.1	0.02	26.9	<0.1	0.06	11	0.7
576612	Soil	4	94	2.06	55	0.071	12	3.23	0.012	0.06	<0.1	0.04	12.1	0.1	0.06	10	0.7
REP 576612	QC	4	92	2.04	55	0.065	11	3.25	0.012	0.05	<0.1	0.05	11.8	0.1	0.06	10	0.7
576620	Soil	5	62	2.80	41	0.112	11	2.91	0.023	0.04	<0.1	0.05	21.2	<0.1	0.06	10	0.7
REP 576620	QC	5	64	2.87	42	0.130	12	2.94	0.025	0.04	<0.1	0.05	21.4	<0.1	0.07	10	0.9
504707	Soil	3	52	3.05	30	0.132	6	2.94	0.016	0.02	<0.1	0.03	21.2	<0.1	0.06	10	<0.5
REP 504707	QC	3	53	3.13	28	0.128	5	3.13	0.016	0.02	<0.1	0.02	21.2	<0.1	<0.05	10	<0.5
504714	Soil	13	43	2.41	34	0.036	10	2.36	0.011	0.05	<0.1	0.09	20.1	<0.1	0.10	8	0.5
REP 504714	QC	12	43	2.44	31	0.037	10	2.37	0.011	0.05	<0.1	0.09	20.8	<0.1	0.10	7	0.6
504550	Soil	7	71	1.20	134	0.029	8	2.59	0.045	0.10	<0.1	0.08	14.9	<0.1	<0.05	7	0.9
REP 504550	QC	7	74	1.24	134	0.030	9	2.73	0.046	0.11	<0.1	0.08	15.1	<0.1	<0.05	8	0.8
<b>Reference Materials</b>																	
STD DS7	Standard	12	198	0.99	375	0.126	43	0.94	0.093	0.42	3.9	0.18	2.5	4.0	0.22	4	3.4
STD DS7	Standard	15	219	1.15	433	0.131	42	1.17	0.116	0.52	4.3	0.20	3.1	4.6	0.23	5	3.9
STD DS7	Standard	15	212	1.13	425	0.127	42	1.13	0.111	0.51	4.2	0.20	3.0	4.5	0.22	5	3.9
STD DS7	Standard	12	208	1.13	426	0.117	43	1.09	0.100	0.51	4.2	0.22	2.9	4.6	0.20	5	3.8
STD DS7 Expected		12.7	163	1.05	370.3	0.124	38.6	0.959	0.073	0.44	3.8	0.2	2.5	4.19	0.21	4.6	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
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
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
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

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.

## **16.0 APPENDIX IV: GRAB SAMPLE ANALYTICAL CERTIFICATES**



ACME ANALYTICAL LABORATORIES LTD.  
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Client:

**Copper Ridge Exploration Inc.**

500 - 625 Howe St.  
 Vancouver BC V6C 2T6 Canada

Submitted By:

Greg Dawson

Receiving Lab:

Acme Analytical Laboratories (Vancouver) Ltd.

Received:

September 04, 2007

Report Date:

December 19, 2007

Page:

1 of 2

## CERTIFICATE OF ANALYSIS

VAN07001059.2

### CLIENT JOB INFORMATION

Project: Joss'alun  
 Shipment ID:  
 P.O. Number  
 Number of Samples: 12

### SAMPLE DISPOSAL

RTRN-PLP Return  
 DISP-RJT Dispose of Reject After 90 days

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: Copper Ridge Exploration Inc.  
 500 - 625 Howe St.  
 Vancouver BC V6C 2T6  
 Canada

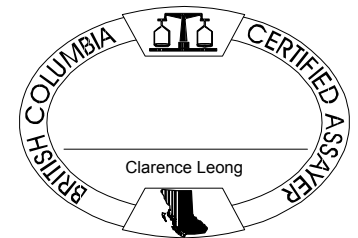
CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status
R150	12	Crush, split and pulverize rock to 150 mesh		
1DX	12	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed
7AR	2	1:1:1 Aqua Regia digestion ICP-ES analysis	1	Completed

### ADDITIONAL COMMENTS

Version 2: Group 7AR - Cu included



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.



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 Vancouver BC V6C 2T6 Canada

Project: Joss'alun

Report Date: December 19, 2007

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN07001059.2

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	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	%	%	
MDL	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	
576567	Rock	1.9	34.8	4.7	233	<0.1	26.7	25.0	1655	5.74	4.3	0.1	4.0	0.1	11	1.1	0.1	<0.1	219	1.92	0.043
576569	Rock	1.6	1309	3.7	8784	1.1	33.4	21.7	1189	3.18	6.5	<0.1	9.0	<0.1	23	63.1	<0.1	<0.1	76	6.48	0.017
576570	Rock	0.2	>10000	0.4	1179	<0.1	1387	852.5	648	6.29	190.4	<0.1	5.5	<0.1	3	1.2	0.7	<0.1	145	0.22	0.006
576571	Rock	0.5	4154	0.6	906	0.2	1267	867.9	886	9.58	321.0	<0.1	86.2	<0.1	4	1.8	1.1	<0.1	162	0.50	0.009
576572	Rock	0.3	422.0	0.4	45	<0.1	61.7	38.3	393	2.95	5.0	<0.1	1.9	<0.1	5	<0.1	<0.1	<0.1	96	0.70	0.035
576573	Rock	2.5	55.3	0.6	34	<0.1	59.7	11.0	143	0.68	4.0	<0.1	4.3	<0.1	50	0.1	<0.1	<0.1	5	2.71	0.001
576574	Rock	0.3	42.1	0.3	5	<0.1	256.7	4.1	293	0.73	0.8	<0.1	2.4	<0.1	474	<0.1	<0.1	<0.1	5	12.49	0.002
576575	Rock	0.7	9.7	0.2	28	<0.1	1910	92.6	382	4.58	0.7	<0.1	4.2	<0.1	5	<0.1	<0.1	<0.1	18	0.43	<0.001
576576	Rock	0.6	31.8	0.3	23	<0.1	125.6	26.6	412	4.96	<0.5	<0.1	1.6	<0.1	21	<0.1	<0.1	<0.1	100	2.77	0.029
576577	Rock	0.5	26.2	0.4	7	<0.1	34.2	12.0	112	2.49	<0.5	<0.1	3.2	<0.1	5	<0.1	<0.1	<0.1	118	0.50	0.034
576578	Rock	0.7	9.1	0.2	28	<0.1	2304	115.0	1025	6.01	2.7	<0.1	2.2	<0.1	1	<0.1	<0.1	<0.1	9	0.08	0.002
576579	Rock	1.7	509.8	2.2	80	0.3	26.9	28.0	943	8.64	3.8	<0.1	4.9	<0.1	9	<0.1	0.1	0.1	180	0.37	0.030



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 Vancouver BC V6C 2T6 Canada

Project: Joss'alun

Report Date: December 19, 2007

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

VAN07001059.2

Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	7AR	
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Cu	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	
	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.001
576567	Rock	1	28	2.75	6	0.452	<1	2.60	0.075	0.01	<0.1	<0.01	11.0	<0.1	1.80	11	0.7	N.A.
576569	Rock	<1	71	1.89	7	0.168	<1	1.88	0.018	0.03	<0.1	0.45	5.9	<0.1	1.45	5	2.1	0.126
576570	Rock	<1	496	7.16	4	0.120	<1	5.82	0.017	<0.01	<0.1	<0.01	27.9	<0.1	0.13	8	1.2	2.164
576571	Rock	<1	571	9.09	7	0.121	<1	7.54	0.008	<0.01	<0.1	0.03	30.1	<0.1	0.09	14	2.3	N.A.
576572	Rock	<1	33	2.28	8	0.210	<1	2.07	0.079	0.01	<0.1	<0.01	5.0	<0.1	<0.05	6	<0.5	N.A.
576573	Rock	<1	44	2.39	4	0.004	<1	0.12	0.002	<0.01	<0.1	<0.01	0.6	<0.1	<0.05	<1	<0.5	N.A.
576574	Rock	<1	8	11.23	9	0.006	<1	0.06	0.008	<0.01	<0.1	<0.01	0.9	<0.1	0.06	<1	<0.5	N.A.
576575	Rock	<1	719	14.57	4	0.002	17	0.17	0.003	<0.01	<0.1	<0.01	6.6	<0.1	<0.05	<1	<0.5	N.A.
576576	Rock	<1	298	3.40	24	0.086	3	4.76	0.012	0.02	<0.1	0.01	7.8	<0.1	<0.05	9	<0.5	N.A.
576577	Rock	<1	49	0.69	2	0.112	<1	0.70	0.133	0.03	<0.1	<0.01	6.2	<0.1	0.31	3	0.9	N.A.
576578	Rock	<1	192	20.85	2	0.003	2	0.17	0.003	<0.01	<0.1	<0.01	6.1	<0.1	<0.05	<1	<0.5	N.A.
576579	Rock	<1	11	2.88	3	0.269	<1	2.91	0.053	0.01	<0.1	<0.01	11.2	<0.1	2.61	9	3.8	N.A.



**QUALITY CONTROL REPORT**

**VAN07001059.2**

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	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	%	%	
MDL	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	
Pulp Duplicates																					
576574	Rock	0.3	42.1	0.3	5	<0.1	256.7	4.1	293	0.73	0.8	<0.1	2.4	<0.1	474	<0.1	<0.1	<0.1	5	12.49	0.002
REP 576574	QC	0.3	40.5	0.3	5	<0.1	256.0	4.1	305	0.74	0.7	<0.1	1.8	<0.1	468	<0.1	<0.1	<0.1	5	12.12	0.002
Reference Materials																					
STD DS7	Standard	20.2	101.1	68.5	394	0.8	55.5	9.2	607	2.43	50.6	5.1	68.6	4.9	85	6.3	6.1	5.1	83	1.00	0.083
STD DS7	Standard	21.1	114.6	69.8	402	0.8	67.0	10.8	677	2.51	50.6	5.2	60.1	5.0	84	6.7	6.3	4.8	85	1.05	0.078
STD R3A	Standard																				
STD R3A	Standard																				
STD DS7 Expected		20.92	109	70.6	411	0.89	56	9.7	627	2.39	48.2	4.9	70	4.4	68.7	6.38	5.86	4.51	86	0.93	0.08
STD R3A Expected																					
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	<0.1	<2	<0.01	<0.001
BLK	Blank																				
Prep Wash																					
G1	Prep Blank	1.0	5.4	3.8	51	<0.1	18.2	5.7	588	2.03	<0.5	2.7	0.9	4.7	72	<0.1	<0.1	<0.1	36	0.60	0.080
G1	Prep Blank	1.0	5.3	4.4	50	<0.1	16.1	5.5	579	2.11	<0.5	2.8	0.7	5.5	83	<0.1	<0.1	<0.1	38	0.64	0.081

## 11.0 STATEMENT OF QUALIFICATIONS

I, Joanna Lynette Hodge, do hereby declare that;

1. I am currently employed as Senior Project Geologist for Copper Ridge Explorations Inc. of 500 - 625 Howe Street Vancouver, British Columbia V6C 2T6.
2. I graduated with a Bachelor of Science degree from the University of Auckland in 1995 and a Master of Science degree with First Class Honours from the University of Auckland in 1997.
3. I have worked as a geologist for a total of 6 ½ years since graduation from University, and during completion of my PhD thesis for an additional 4 years on a part-time basis.
4. I am not aware of any material fact or material change with respect to the subject matter of this report, the omission to disclose which makes this report misleading.
5. I am not independent of the issuer applying all tests in Section 1.5 of NI 43-101 in that I am an employee of Copper Ridge Explorations Inc and hold options in the Company.

Dated this 1<sup>st</sup> day of February, 2008

Joanna Lynette Hodge, BSc, MSc (Hons)

**QUALITY CONTROL REPORT**

**VAN07001059.2**

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	7AR	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Cu	
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	0.001	
Pulp Duplicates																		
576574	Rock	<1	8	11.23	9	0.006	<1	0.06	0.008	<0.01	<0.1	<0.01	0.9	<0.1	0.06	<1	<0.5	N.A.
REP 576574	QC	<1	8	10.93	9	0.006	<1	0.05	0.008	<0.01	<0.1	<0.01	1.0	<0.1	<0.05	<1	<0.5	
Reference Materials																		
STD DS7	Standard	14	194	1.02	401	0.132	40	1.08	0.101	0.47	3.7	0.18	3.0	4.1	0.20	5	4.6	
STD DS7	Standard	15	218	1.21	386	0.144	36	1.11	0.107	0.45	3.7	0.19	3.3	3.8	0.21	5	4.4	
STD R3A	Standard																	0.813
STD R3A	Standard																	0.808
STD DS7 Expected		12.7	163	1.05	370.3	0.124	38.6	0.959	0.073	0.44	3.8	0.2	2.5	4.19	0.21	4.6	3.5	
STD R3A Expected																		0.811
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	
BLK	Blank																	<0.001
Prep Wash																		
G1	Prep Blank	9	16	0.74	221	0.150	<1	1.17	0.110	0.52	<0.1	<0.01	2.7	0.3	<0.05	5	<0.5	N.A.
G1	Prep Blank	11	20	0.72	230	0.157	1	1.25	0.134	0.58	<0.1	<0.01	2.8	0.4	<0.05	6	<0.5	N.A.