ASSESSMENT REPORT

on the

BEN PROPERTY

MTO Events # 5402519, 5422893, and 5422897

CARIBOO MINING DIVISION,
British Columbia
Latitude 52°35' N, Longitude 122°03' W

Prepared for Operator:

WESTHAVEN VENTURES INC.
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21 December 2012
Vancouver, B.C.

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1. SUMMARY

This report covers MTO Events #5402519, 5422893, and 5422897.

From 11 to 29 May 2012 several exploration programs, consisting of property examination, prospecting, rock sampling and IP geophysical surveys were completed on the Ben Property. Geophysical was completed by a crew employed by Scott Geophysics Ltd of Vancouver, BC. The total cost of the surveys was $91,243.92.

The property is road accessible and situated about 15 km northeast of the Gibraltar Mine of Taseko Mines Ltd. and about 28 km west of the Mount Polley Mine of Imperial Metals Corp. The Ben property is composed of 33 mineral tenures encompassing 14,480 ha. The property is underlain by rock units of the Permian to Triassic aged Cache Creek Complex of the Cache Creek Terrane. The structural geology of the claims is not well understood or documented. The fabric of the underlying sediments and volcanics of the Cache Creek Complex trends north-northwest. Gold mineralization is associated with north-east trending quartz-carbonate-mariposite alteration zones along the structural fabric.

A total of 12 kilometres of IP was completed in 6 lines. IP resistivity surveys identified the Main Zone and Zone 2 as resistivity highs, coinciding with high silicification events. Of note is the high chargeability zone located between the two zones, coincident with an arsenic-in-soils anomaly.

A total of 67 grab and float rock samples were collected at promising locations and outcroppings on the property. Gold grades were relatively low with a high of 156 ppb Au from the Main Zone. In addition to gold, the presence of anomalous geochemical values of arsenic, antimony, mercury, nickel, vanadium, chromium are reported in several rocks collected from the Main Zone. This suite of elements suggests both an epithermal component and a deep-seated, ultramafic component.

A diamond drill program is recommended to test targets in the Main Zone and Zone 2 areas. The next phase of exploration is estimated to cost $250,000.

2.0 PROPERTY LOCATION, SIZE, ACCESS AND PHYSIOGRAPHY

The Ben property lies in the eastern Cariboo region of central British Columbia, approximately 52 km north of Williams Lake and 54 km south-southeast of Quesnel in the Cariboo Mining Division. Williams Lake is the nearest major center where all facilities and materials for exploration activities can be found.

The property is situated about 15 km northeast of the Gibraltar Mine of Taseko Mines Ltd. and about 28 km west of the Mount Polley Mine of Imperial Metals Corp. (Figure 1). The claims lie on the low-lying hills west of the Beaver Ck. valley and east of the Ben Lake – Skelton Lake valley (Figure 2), centered approximately at 52° 35' N and 122° 03' W within NTS map sheet 093B09 and BCGS map sheets 093B060 and 093B070 in the Cariboo Mining Division.

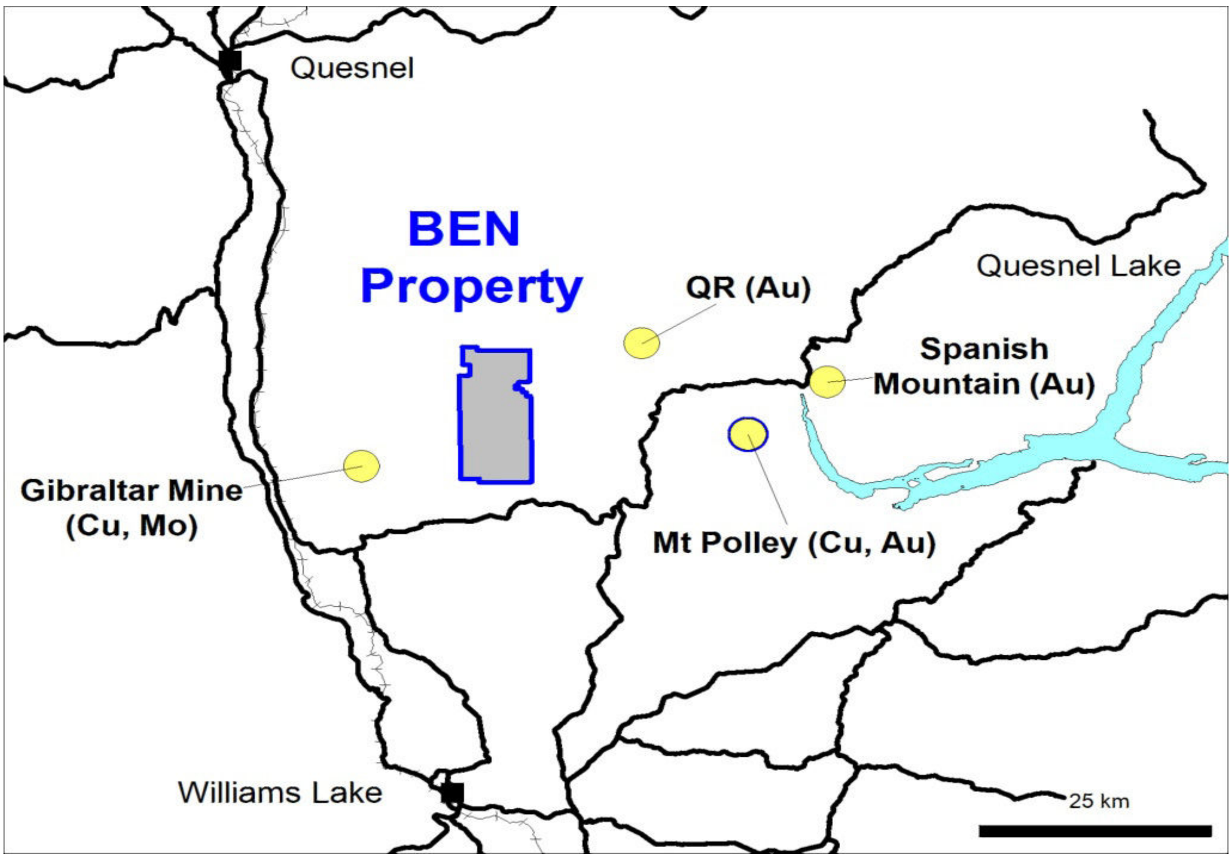

Figure 1: Location Map

The west side of the property can be accessed off highway 97 from either McLeese Lake or 150 Mile House. From McCleese Lake one follows the gravel road to Likely and Horsefly, turning north onto the Ben Lake road about 40 km east of McCleese Lake then about 14 km to Ben Lake. Access from 150 Mile House is via the paved highway towards Likely, turning north onto the Ben Lake road at about 43 km east of 150 Mile House. The east side of the property can be accessed along BCFS 8300 road along the height of land between the Beaver Creek and Beedy Creek valleys, also reached either from McLeese Lake or 150 Mile House.

The Ben property is composed of 33 mineral tenures encompassing 14,480 ha as shown in Figure 2 and listed in Table 1. Anniversary dates are as of the date of this report contingent on the acceptance of the report. Claims listed as owned by G. Thomas are 100% owned by

Westhaven and claims listed as owned by B. Kalhert are currently under option to Westhaven.

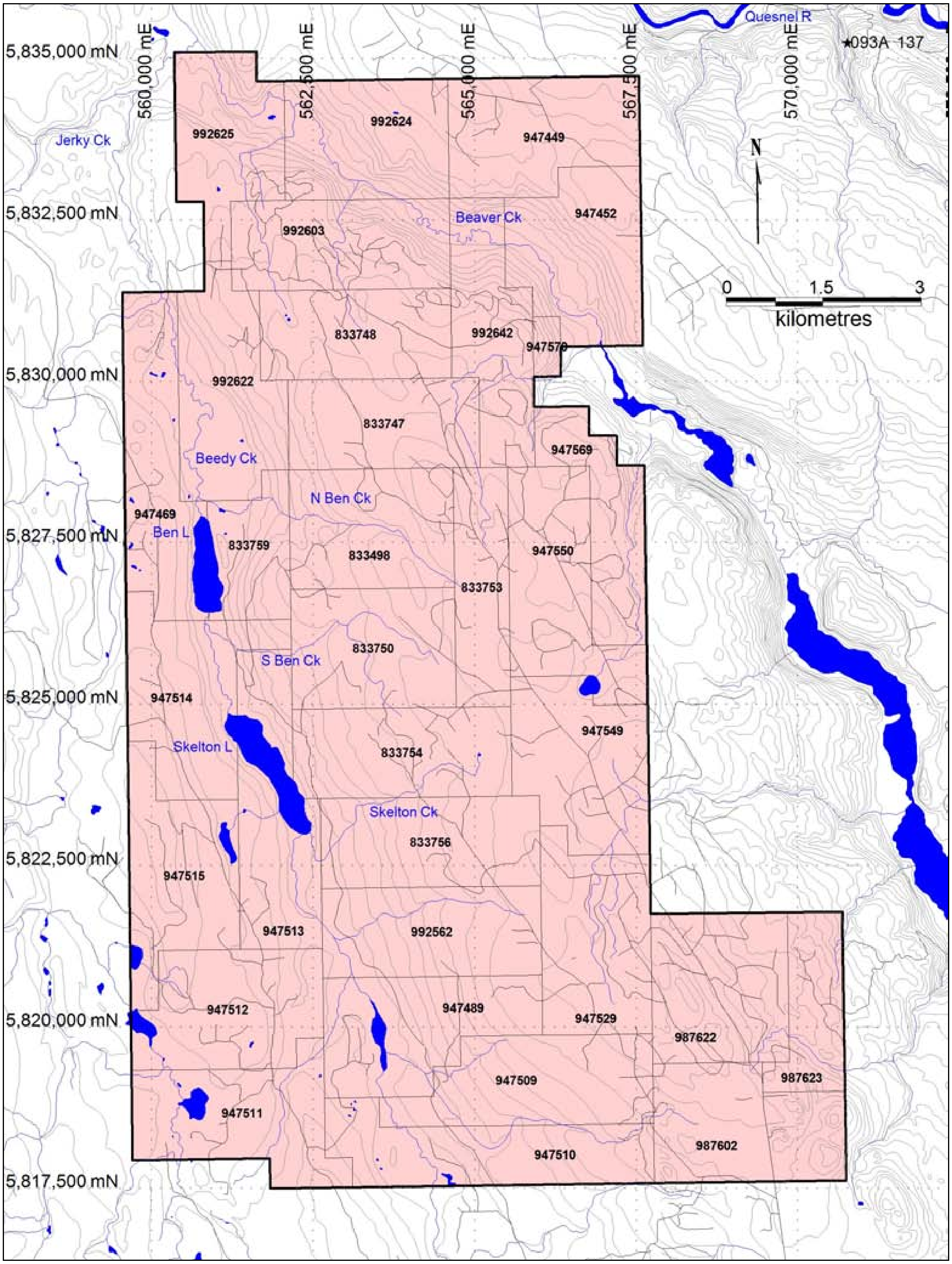

Figure 2: Ben Property Tenure Map

TENURE	TYPE1	ISSUED	GOOD_TO	NAME	AREA	Owner
833498	Mineral	09/14/2010	11/14/2014	BEN	471.3	B.H. Kalhert
833747	Mineral	09/16/2010	11/14/2014	CORTEZ	412.3	B.H. Kalhert
833748	Mineral	09/16/2010	11/14/2014	CORTEZ	412.1	B.H. Kalhert
833750	Mineral	09/16/2010	11/14/2014		471.5	B.H. Kalhert
833753	Mineral	09/16/2010	11/14/2014		314.3	B.H. Kalhert
833754	Mineral	09/16/2010	11/14/2014		471.7	B.H. Kalhert
833756	Mineral	09/16/2010	11/14/2014		471.8	B.H. Kalhert
833759	Mineral	09/16/2010	11/14/2014		255.3	B.H. Kalhert
947449	Mineral	02/09/2012	11/14/2014	CTZ 15	490.3	Gareth Thomas
947452	Mineral	02/09/2012	11/14/2014	CTZ 16	490.5	Gareth Thomas
947469	Mineral	02/09/2012	11/14/2014	CTZ 17	490.8	Gareth Thomas
947489	Mineral	02/09/2012	11/14/2014	CTZ 18	491.7	Gareth Thomas
947509	Mineral	02/09/2012	11/14/2014	CTZ 19	491.8	Gareth Thomas
947510	Mineral	02/09/2012	11/14/2014	CTZ 20	491.9	Gareth Thomas
947511	Mineral	02/09/2012	11/14/2014	CTZ 21	491.8	Gareth Thomas
947512	Mineral	02/09/2012	11/14/2014	CTZ 21	491.7	Gareth Thomas
947513	Mineral	02/09/2012	11/14/2014	CTZ 22	491.4	Gareth Thomas
947514	Mineral	02/09/2012	11/14/2014	CTZ 22	491.2	Gareth Thomas
947515	Mineral	02/09/2012	11/14/2014	CTZ 23	471.8	Gareth Thomas
947529	Mineral	02/09/2012	11/14/2014	CTZ 24	491.6	Gareth Thomas
947549	Mineral	02/09/2012	11/14/2014	CTZ 25	491.3	Gareth Thomas
947550	Mineral	02/09/2012	11/14/2014	CTZ 26	491.1	Gareth Thomas
947569	Mineral	02/09/2012	11/14/2014	CTZ 27	333.9	Gareth Thomas
947570	Mineral	02/09/2012	11/14/2014	CTZ 28	39.3	Gareth Thomas
987602	Mineral	05/18/2012	11/14/2014	CTZ30	491.9	B.H. Kalhert
987622	Mineral	05/18/2012	11/14/2014	CTZ31	491.7	B.H. Kalhert
987623	Mineral	05/18/2012	11/14/2014	CTZ32	255.7	B.H. Kalhert
992562	Mineral	06/01/2012	12/01/2013		471.9	B.H. Kalhert
992603	Mineral	06/01/2012	12/01/2013		470.9	B.H. Kalhert
992622	Mineral	06/01/2012	12/01/2013		490.7	B.H. Kalhert
992624	Mineral	06/01/2012	12/01/2013		470.7	B.H. Kalhert
992625	Mineral	06/01/2012	12/01/2013		411.9	B.H. Kalhert
992642	Mineral	06/01/2012	12/01/2013		412.2	B.H. Kalhert

Table 1: Ben Claims

Much of the upland area on the property has been logged. Vehicle access to the claims is limited to a sparse network of BCFS roads (Figure 2).

Local climate is typical of the central interior of British Columbia. Average temperatures are -7°C for December and January and 14°C for July and August. Average annual rainfall is 336 mm and average annual snowfall is 172 cm. In most years conditions for exploration are suitable from late April to mid-November.

The property lies on the Fraser Plateau, a flat and gently rolling area with large areas of undissected upland between 1,200 and 1,500m elevation. Much of the plateau is covered by glacial drift which on the Ben claims is generally 1 to 30m thick. The claims lie on a northwesterly trending height of land between the Beedy Ck. and Beaver Ck. valleys. Elevations on the Ben claims ranges from 800m in the Beedy Creek valley to 1,068m on the highest knoll. Three main creeks drain westward across the claims into the Beedy Ck. valley; Skelton Ck,

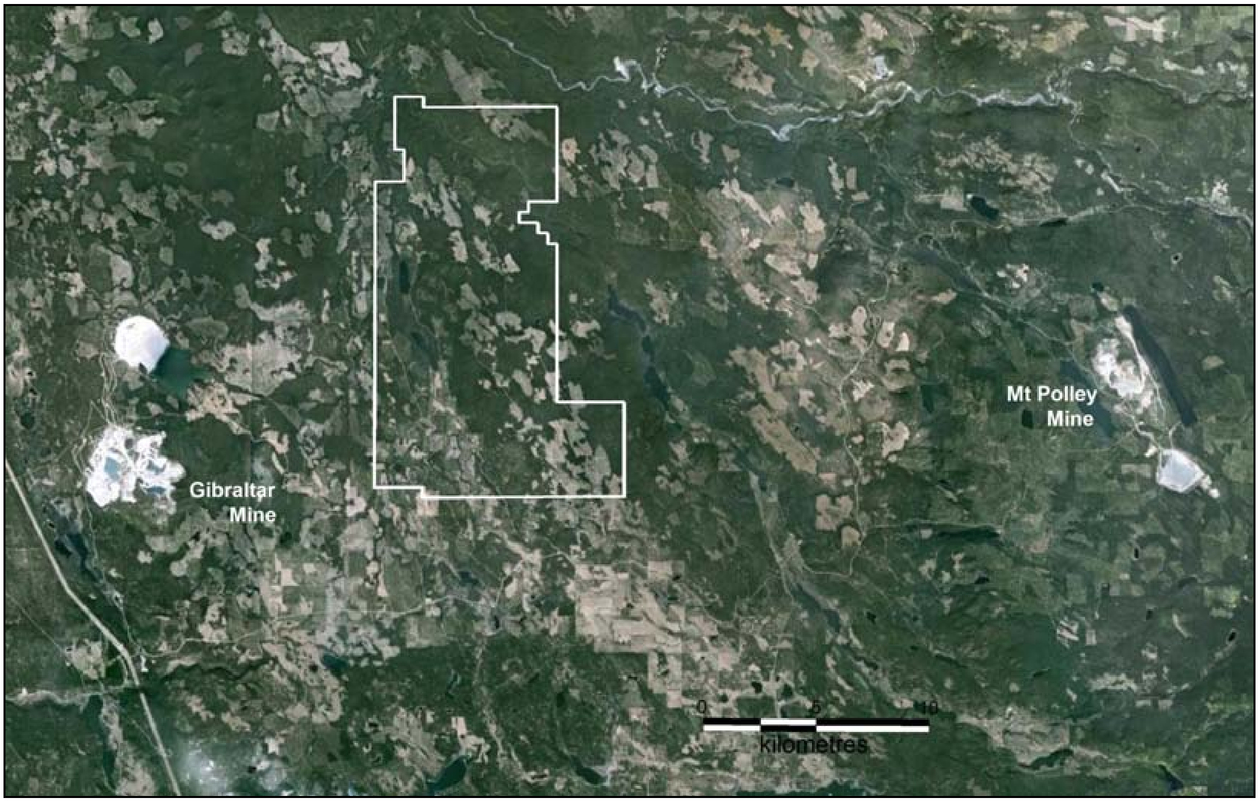

Figure 3: Air Photo of the Ben Property

South Ben Ck. and North Ben Ck. An unnamed creek drains to the northwest in the northern part of the property (Figures 3 and 4). These larger streams have cut gullies up to 15m deep through the glacial drift, in some cases into bedrock.

The drainage pattern between the Beedy Creek and Beaver Creek valleys is distinguished by the prevalence of north-northwesterly trending alignments, interpreted to be the result of the bedrock structure. Two prominent topographic lineaments lying in the Beedy Ck. and Beaver Ck. valleys are considered to mark significant faults.

3.0 HISTORY

Attention to the Ben Claims was first drawn by Amoco Minerals in 1983-84 when they undertook a large, regional silt sampling program over the Quesnellia belt of rocks. Strong heavy mineral results for gold, arsenic and antimony were received from the North and South Ben Creeks as well as Skelton Creek. These drainages covered a north-south strike extent of close to 5 km proximal to the boundary of the Quesnel and Cache Creek terranes.

Table 2 provides a summary of exploration activities completed on the Ben property.

Year Performed	Operator	Activity	Details	Reference	ARIS
1983-1984	Amoco Minerals	regional silt geochemistry	-3 heavy mineral samples analysed for Au, Ag, As and Ni.	- Fraser and Kahlert, 1988	
1987	Circle Resources	soils grid, rock analyses, petrography	-378 soils analysed for Ag, As, Au, Cu, Pb, Sb and Zn, 3 heavy mineral silt samples - 13 petrographic descriptions, 5 XRD analyses, 5 whole rock analyses	- Fraser and Kahlert, 1988 - Campbell, 1988	
1987	Circle Resources	soils grid, silt sampling	- 556 soils analysed for Ag, As, Au, Co, Cu, Ni, Pb, Sb and Zn - 16 soils analysed for Ag, As, Au, Cu, Pb, Sb and Zn - 112 silts analysed for Ag, As, Au, Cu, Pb, Sb and Zn	- Kahlert, 1988 (includes Campbell's 1988 report)	17481
1988	Circle Resources	summary analysis, results of rock sampling	- includes analyses of soils reported earlier and 76 rock samples analysed for Ag, As, Au, Co, Cu, Ni, Pb, Sb and Zn	- Fraser, 1989	18674
1990	Circle Resources	diamond drilling	- 2 vertical NQ holes totaling 107.9m, 19 rock samples analysed for multielements plus Au	- Graham, 1991	21309
1991	B.H. Kahlert	summary	- compilation sketch of geology	- Campbell, 1991	
1997	B.H. Kahlert	geophysics	- 5.45 line km of ground magnetics	- Kahlert, 1998	25512
1999	B.H. Kahlert	petrography	- petrographic description of 8 rocks	- Kahlert, 1999	25914
2001	B.H. Kahlert	GPS	- determined coordinates of 2-post Ben claims	- Dunlop, 2001	
2002	B.H. Kahlert	rock analyses	- 8 rock samples analysed for multielements plus Au	- Kahlert, 2002	26870
2005	B.H. Kahlert	rock analyses	- 11 rock samples analysed for multielements plus Au	- Kahlert, 2005	27812
2007	B.H. Kahlert	rock analyses	- 13 rock samples analysed for multielements plus gold	- Kahlert, 2008	29876
2010	B..H. Kahlert	rock analyses	- 24 rock samples analysed for multielements plus gold, 1 whole rock analysis	- Campbell, 2011	32732

Table 2: Historical Exploration Summary

Amoco staked the 5 claim, 100 unit Ben Claims in 1984, but completed little work before ceasing exploration in 1985. In 1987, B.H. Kahlert staked the 1 – 5 Ben Claims covering 100 units. These claims were optioned to Circle Resources ("Circle"), a private company, who completed extensive soil and silt geochemistry, mapping and rock sampling in creek beds. A wide, altered deformation zone with anomalous gold, arsenic, antimony and mercury was outlined in North Ben Creek, the so-called "Main Zone".

Circle decided to drill 2 core holes in late 1988, however they were located 300 to 500 meters southwest of the deformation zone as there was no road access (Figure 6). Anomalous gold, arsenic, antimony and mercury values were encountered in highly altered rocks in the 2 holes. In 1989, the Option was terminated and the property returned to B. H. Kahlert.

A limited ground magnetic and VLF_EM survey was completed in 1997 (Kahlert, 1998). Four grid lines spaced 200m apart were established over the 6 Ben claims that were then current. One of these lines crossed the area of the Main Zone. The magnetic profiles show generally flat magnetic gradients with positive or negative disturbances of less than 100 nT. No obvious trends are apparent although higher total counts were recorded on the line crossing the Main Zone. This could be due to less overburden relative to the remainder of the grid. The line spacing is considered to be too coarse for adequate analysis and interpretation.

The VLF-EM profiles were prepared for both Seattle and Cutler frequencies. The Cutler signal was considered too weak to interpret. A number of conductors were interpreted for the Seattle frequency profile by Orequest Consultants of Vancouver, however, these have not been geologically evaluated.

Kahlert maintained the Ben Claims until 2001 by completing detailed geological mapping, petrographic studies and geophysical surveys. The property was reduced from 100 units to 6 staked claims. The claims lapsed in 2001 and were re-staked by Kahlert in 2002. The claims expired again in 2003 and were staked by a contractor on behalf of Kahlert in 2004.

In 2005, map staking was introduced to British Columbia and claim holders were encouraged to transfer “Legend” claims to the new “Map” staked system. Kahlert changed the claims to the new tenure system in early 2005 and has retained them to 2010 via various geochemical and geological surveys.

In 2010, Kahlert applied PAC account credits to hold claims, which was disallowed 5 months later as the claims were said to expire during the transfer from “Legend” to “Map Staked” process.

Kahlert re-staked the “Ben” claims in mid September 2010. A total of 8 claims covering 3,277.9 ha were recorded by Kahlert at that time. In May of 2011 Mr. Kahlert recorded an additional 6 claims covering an additional 2,824.32 ha.

In October 2010 Kahlert, in the company of Mssrs. C. Andrup and G. Read of OHG Resources Inc. who at that time were contemplating an property option arrangement, collected a number of rock samples on the then named Cortez Property.

On February 9, 2012 Mr. G. Thomas of Westhaven Ventures Inc. recorded 16 claims adjacent to Mr. Kahlert’s Cortez 1 to 14 claims. These have an area of 7,226.97 ha and bring the total area of the Ben property to 13,329.23 ha.

4.0 GEOLOGICAL SETTING

4.1 Regional Setting

The regional geology is shown in Figure 4, based on the GSB digital data by Massey et. al, 2005. The Ben property is underlain by rock units of the Permian to Triassic Cache Creek Complex of the Cache Creek Terrane. Undivided phyllite, siliceous phyllite, ribbon and massive chert, argillite, tuff, mafic volcanic rocks, serpentinite, limestone, sandstone (unit PTrCsv) are mapped over most of the area. Limestone, marble and calcareous sedimentary rocks (unit PTrClm) are mapped in the northeast corner of the claims. Basaltic volcanic rocks (unit PTrCvb) may extend into the northwest corner of the claims. A Jurassic stock of granodioritic composition may extend onto the northeast corner of the property.

The boundary with the Quesnel (Quesnellia) Terrane lies along the Beaver valley lineament and faults mapped on the west side of Beaver Ck. valley.

One fault has been mapped on the claims, lying along the western margin of the calcareous rocks in the northeast corner of the property

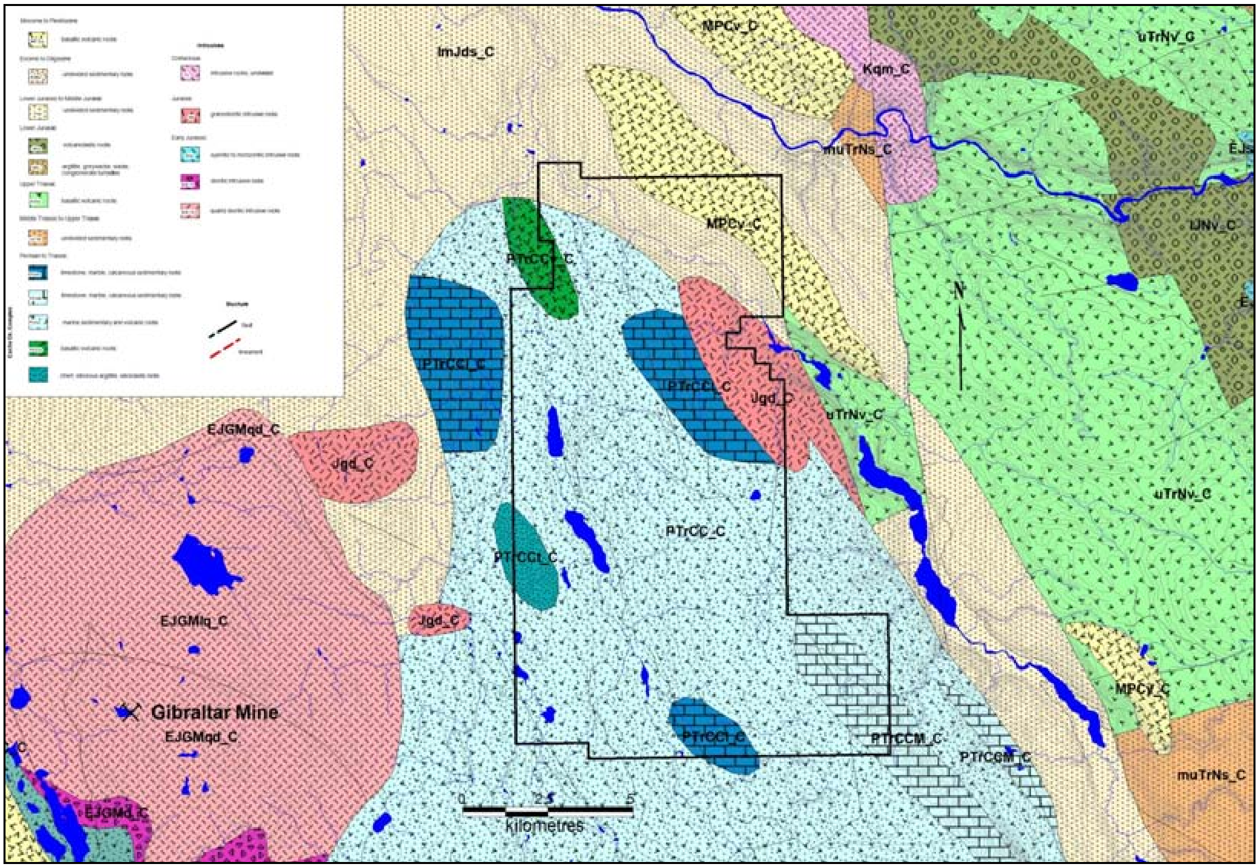

Figure 4: Regional Geology (Massey et al, 2005)

4.2 Property Geology

The bedrock geology on the property scale is poorly understood and has not been mapped adequately. Rock exposures are largely confined to stream gullies. Mapping by Circle identified a sequence of interbedded black pyritic shales and cherts with minor sections of chloritized basalt in the three west-draining creeks; Skelton, South Ben and North Ben Creeks. A resistant dolomitic unit (PTrClm) occurs along the north-northwest trending hill in the northeast corner of the property and a small exposure of dioritic rock occurs in south Ben Creek (Fraser, 1989), Figure 5.

Exploration work focused on the Main Zone on North Ben Ck., located in Figure 6. Sayer (1988) in a detailed inset map for Circle Resources and accompanying notes (Fraser, 1989) describes gold mineralization associated with north-east trending quartz-carbonate-mariposite alteration zone some 25m wide and at least 50m long (Sayer, 1988). This zone is mapped as altered shale sub-parallel to a shale-basalt contact. In contrast, Kahlert (1999), describes a north-south deformation and alteration zone about 60m wide with fine grained granodiorite and altered andesite on the west and altered mafic volcanics and minor carbonate on the east.

The paragenesis is hypothesized as follows: 1) episode of quartz veining due to regional metamorphism or intrusive activity, 2) major regional deformation with accompanying brecciation and mylonitization, 3) metasomatism; silicification followed by magnesitisation both affecting groundmass. Later both quartz and magnesite filled fractures, magnesite remaining mobile after quartz. 4) youngest silicification; deposition of chalcedonic quartz and fine crystalline silica in open spaces.

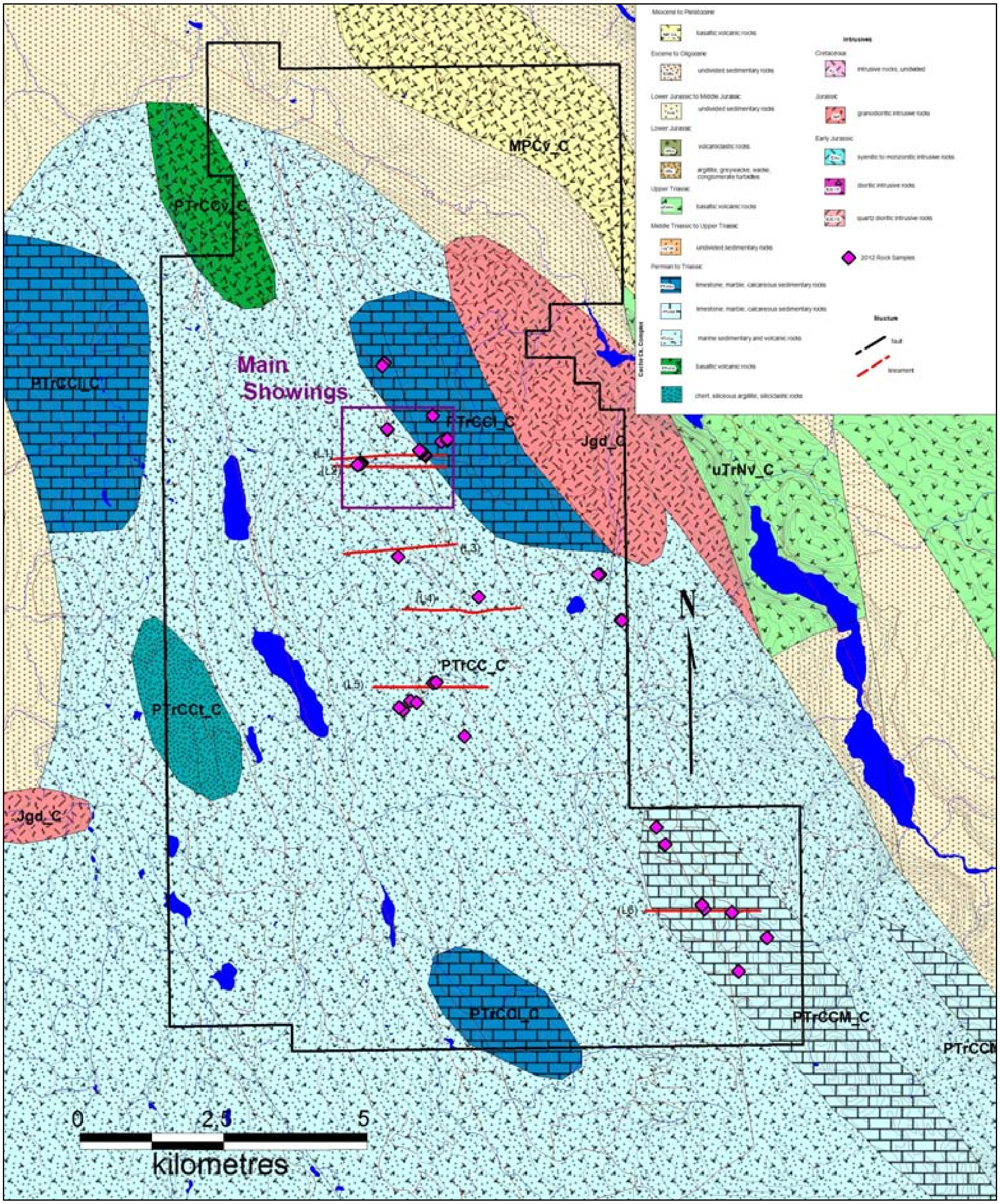

Figure 5: Property Geology (B.C. Ministry of Energy and Mines (Massey et al, 2003)

The structural geology of the claims is not well understood or documented. The fabric of the underlying sediments and volcanics of the Cache Creek Complex trends north-northwest as

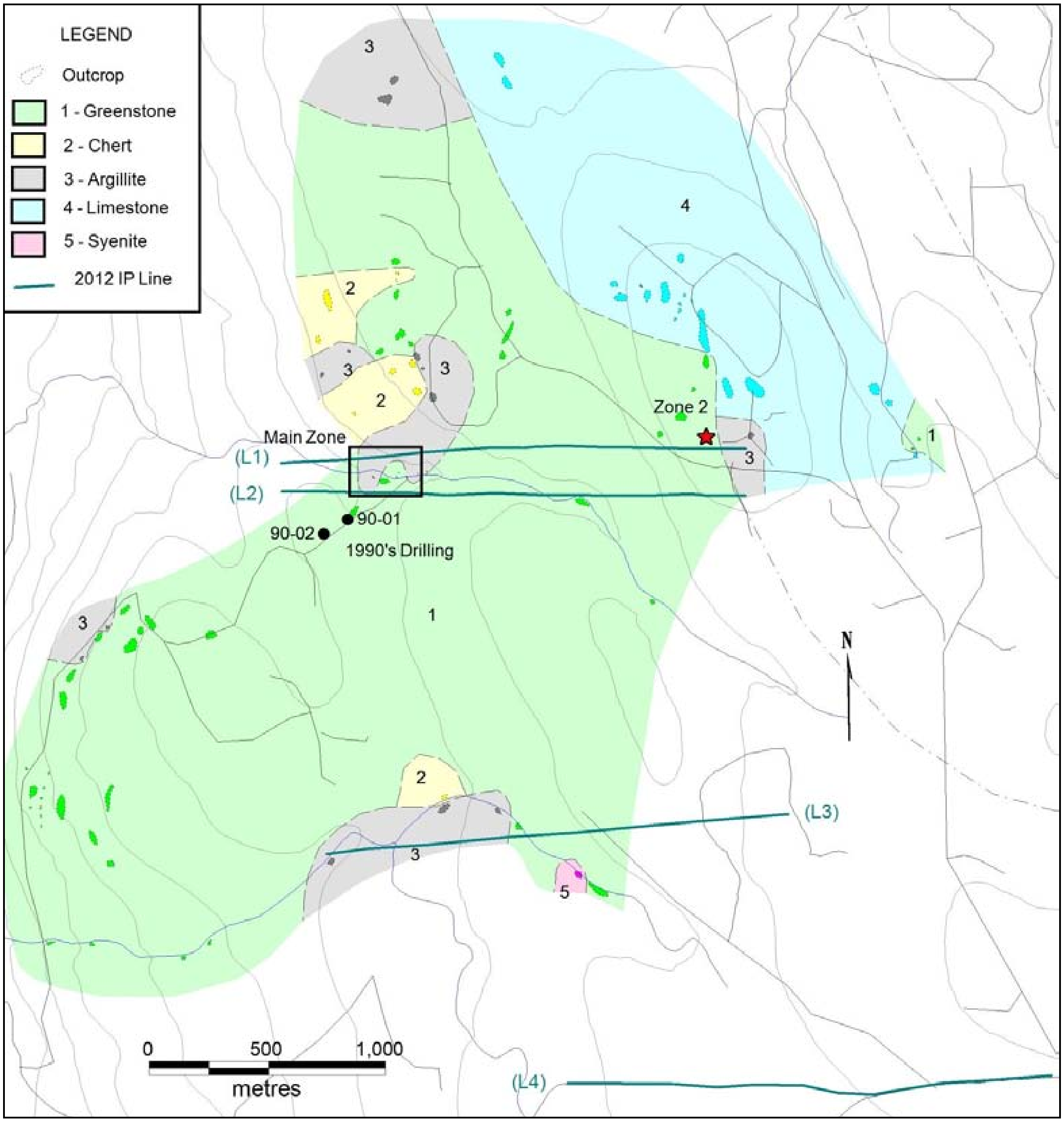

Figure 6: Geology of the Main Showings (after Fraser, B., 1989)

evidenced by the consistent drainage alignments. The Main Zone band of alteration and deformation appears to trend north-south but this observation is restricted by the limited rock exposures. The east side of the Main Zone is described as a shallow east-dipping thrust fault (Fraser and Kahlert, 1988). Sayer's 1988 map of the main showing on North Ben Ck. includes a vertical foliation symbol in the shale package striking 335° and a fault symbol striking 225° and dipping 78° northwest near the middle of the zone on the south side of the creek.

At least five prominent, north-northwest trending drainage lineaments cross the property. All of these are interpreted as marking bedrock fracture zones. This gives rise to the possibility that they represent horsetail splays of strike-slip faults at the end of a major strike-slip fault, possibly the Pinchi Fault which is considered to end at latitudes in the vicinity of the claims (Gabrielse and Yorath, 1992). As such, they are prime sites for hydrothermal activity.

Massey et al (2005) map a north-northwest striking fault on the eastern side of the property (Figure 5). It is possible that this fault lies along the linear contact mapped between the carbonate unit (PTrClm) and the sediments and volcanic unit (PTrCsv). Alternatively, the contact is in error and lies along the fault.

4.3 Mineralization

There are no MINFILE occurrences or other documented mineralization on the property to date.

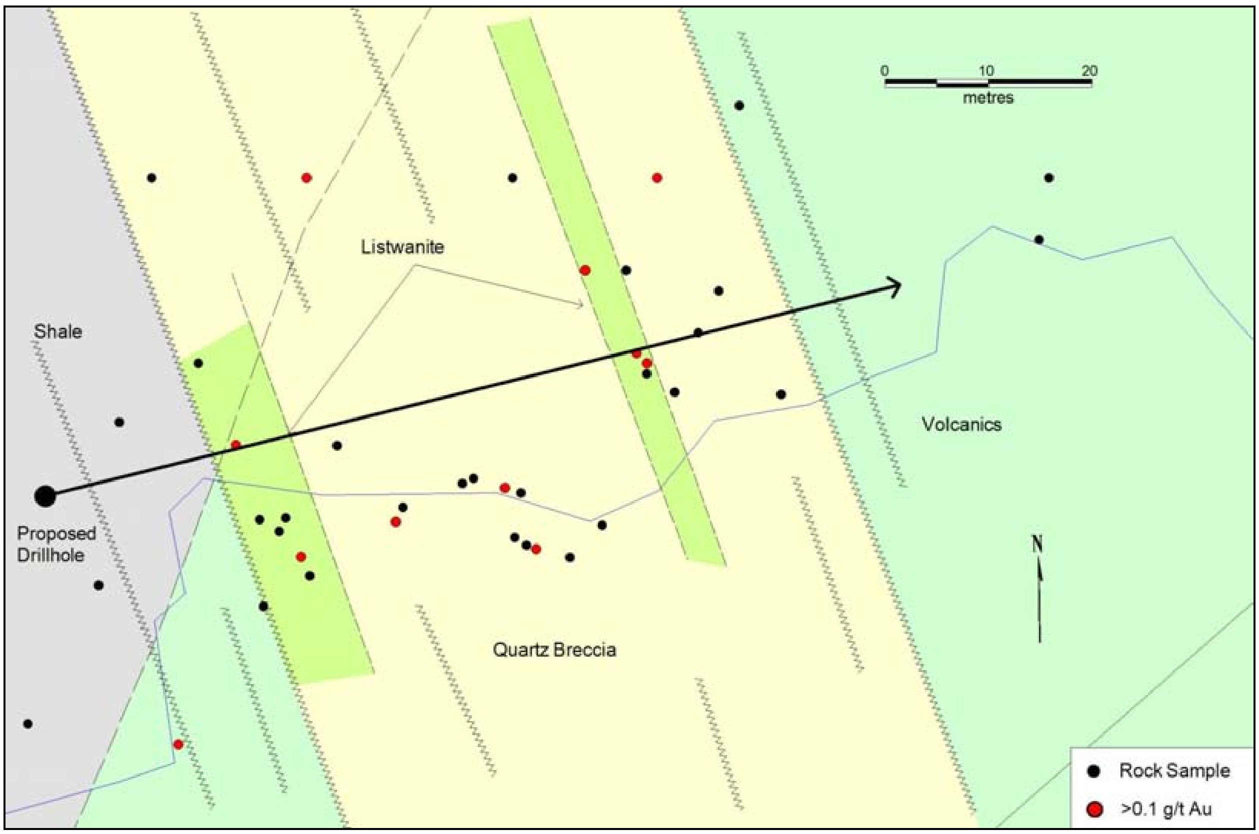

Figure 7: Geology of the Main Zone

Gold mineralization is associated with a north-east trending quartz-carbonate-mariposite alteration zone some 25m wide and at least 50m long (Sayer, 1988 and Fraser, 1989). This zone is referred to as the Main Zone (Figure 7).

Silicification in the Main Zone ranges from hairline crack infillings to veins and near total replacement of the host rock. In the latter case the rock superficially resembles a dark grey volcanic with the dark color caused by finely disseminated sulphides. Pyrite is reported to be abundant (Kahlert, 2002) but arsenopyrite has also been identified in these silica-flooded rocks (Fraser and Kahlert, 1988).

In addition to gold, anomalous geochemical values of arsenic, antimony, mercury, nickel, vanadium, chromium are reported in several rocks collected from the Main Zone. This suite of elements suggests both an epithermal component and a deep-seated, ultramafic component.

No other significant occurrences of sulphides have been reported.

5.0 2012 EXPLORATION PROGRAM

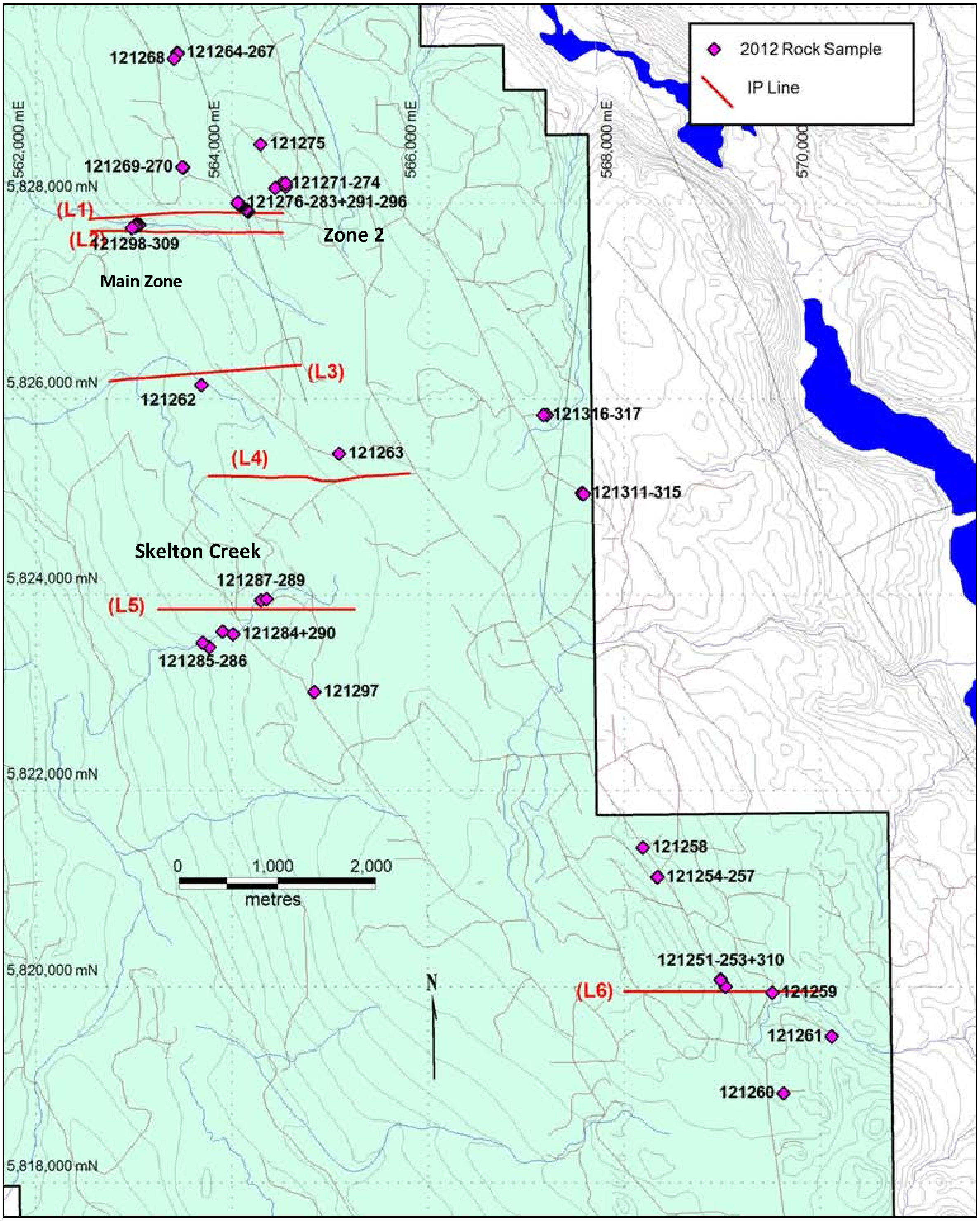

Figure 8: 2012 Exploration Location Map

Between 11 and 28 May 2012, a program composed of property inspections, prospecting and rock sampling was completed over numerous showings on the property. The prospecting survey was completed under the supervision of Darryn Hitchcock, PGeo of Vancouver, BC, and Gareth Thomas of North Vancouver, BC, with assistant Ryan Fetterley of North Vancouver, BC. A follow-up program of ground geophysical IP chargeability and resistivity and magnetic surveys was completed between 22 to 29 May 2012. Linecutting was contracted to Mincord Exploration Ltd of Vancouver, BC. The Geophysical surveys were completed by a crew employed by Scott Geophysics Ltd of Vancouver, BC. Survey locations are displayed on Figure 8.

5.1 Prospecting and Rock Geochemical Survey

A number of historic showings and areas of elevated gold-in-soils were visited during the 2012 prospecting program. A total of 67 grab and float rock samples were collected at promising locations and outcroppings on the property. Sample locations were determined in the field using GPS units (Figure 8). Samples were placed into poly bags with an identifying tag and sealed with plastic straps. Descriptions of each sample was recorded and presented in Appendix B. Results for gold, arsenic, mercury and silver are plotted on Figure 16.

No sample preparation was conducted by an employee, officer, director or associate of Westhaven prior to delivery to the laboratory for analyses. Samples were delivered to Acme Laboratories in Vancouver, BC. A total of 11 samples were analyzed for a 36-element suite of elements (1DX15) and 56 samples were analyzed for a 53-element suite of elements (1F15). Sample analyses, procedures and preparation methods are described in Appendix D. Analytical certificates are located in Appendix C.

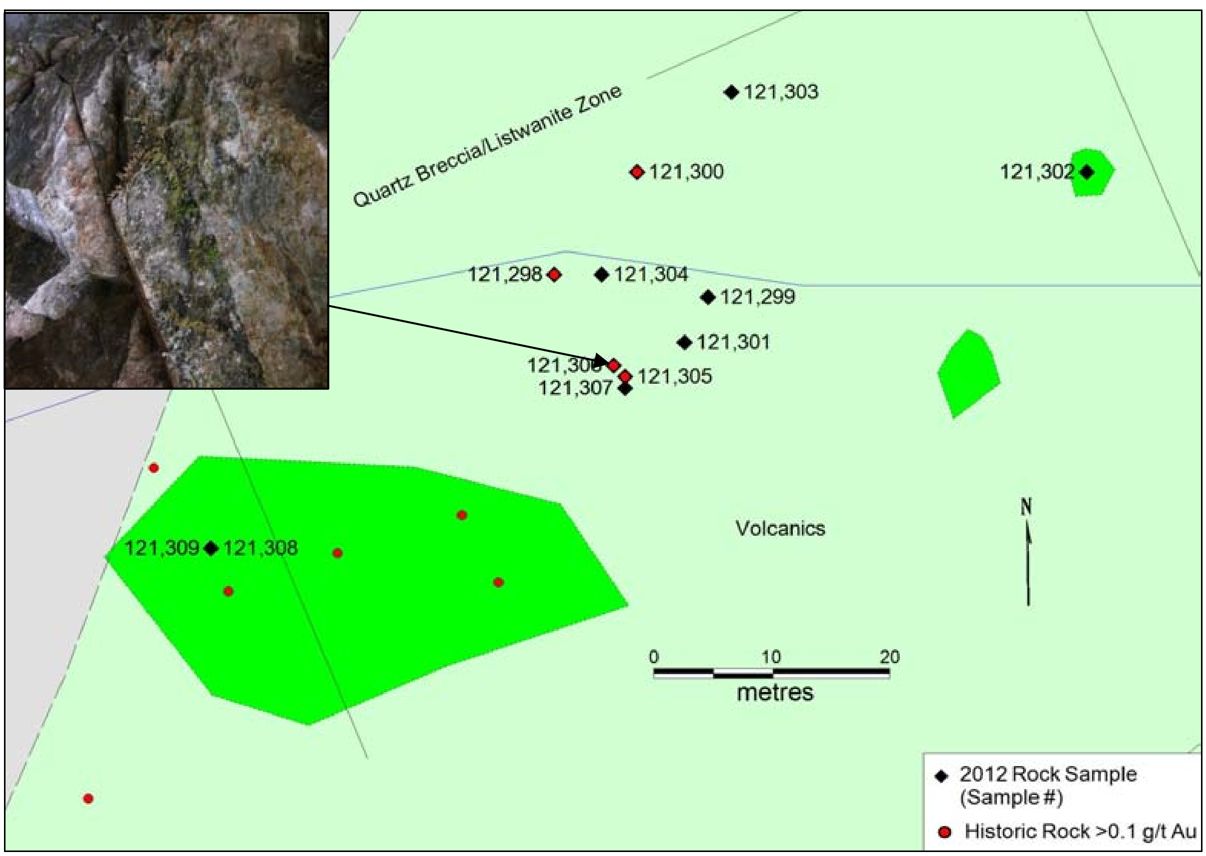

Figure 9: Rock Sampling of the Main Zone

Main Zone; Approximately 1 day was spent on the main zone including sampling and geological mapping. Samples were collected from brown visible historically sampled areas. The work was focused on the highest historic Au-in-rock sample reported to date. Metasediments outcrop along the creek in close proximity to fault bounded magnesite blocks and listwanite silicified metavolcanics. The latter are highly silicified (possibly trace pyrite) and located near subvertical faults. Minor mariposite breccia occurs fault bounded exhibiting slickenside textures. The basal fault is a low angle shear, out of sync with outcrops across the creek, however, both sides are cut by near vertical fracture zones (previously sampled).

Zone 2; The lithologies in Zone 2 include silicified listwanite hosted metavolcanics, highly magnetic sheared serpentinite and an intrusive basalt/andesite outcropping. The latter intrudes silicified metavolcanics, however predates the listwanite and quartz veining. The quartz veins contain selvedges of carbonate alteration with minor to trace pyrite. The regional 150°-170° faulting trend is apparent in Zone 2 (163°/68°W). This trend is cut by a displacement fault striking 110° to 130° and dipping 57°. Mariposite is variable in outcrop with local patchy intense areas. Silicification varies from the above grey-white (+/- black patches) a second later episode. Local trace amounts of pyrite appears associated with mariposite.

Figure 10: Silicified Outcropping in Zone 2

Skelton Creek Zone; The Skelton Creek showing includes chlorite altered metavolcanics in a mylonite shear zone. A possible fault observed in outcrop appears parallel to the creek. Small outcrops of metasediments and silicified metavolcanics occur northeast of the road. These outcrops exhibit minor orange listwanite coatings with minor pyrite. Mariposite is limited to silicified outcrops.

Correlation coefficients were calculated for all elements analyzed in rocks (Appendix B). It was noted that gold grades were fairly low (highest sample grading 172 ppb Au) gold distribution has a high correlation with arsenic, a moderate affinity with copper, antimony, chrome and tellurium, and a lower affinity with cobalt, tungsten, sulphur, mercury, platinum and scandium. A high correlation between gold and arsenic makes arsenic an excellent pathfinder element. There also appears to be a nickel-cobalt-chromium-platinum-magnesium assemblage evident. Nickel grades were generally high up to 1,469 ppm Ni.

Silicification/alteration assemblages include:

1) Silicified breccia carbonate; dark silicified dolomitic rock with fine grained carbonate in a cryptocrystaline quartz. Two sets of stringers were found with a coarse grained quartz postdating the finer grained quartz-carbonate stringers.

2) Silicified dolomite; light grey, rusty, coarse brown carbonate replaced partially by silica rock may be fragments of tectonized breccia. Included quartz-carbonate stringers and vuggy silica-sulphide fillings and thin quartz chalcedonic stringers younger than the carbonate.

3) Cataclastized silicified carbonate; dark finely laminated siliceous dolomite carbonate streaked with quartz laminations and listwanite. Fine to medium grained brownish carbonate laminated with fibrous carbonate veins including thin stringer sericite-dolomite parallel to fabric and hairline carbonate veinlets crossing fabric at high angle.

4) Second generation granodiorite breccia; granodiorite clasts have undergone deformation and hematitic weathering. Alteration minerals include quartz, sausseritized feldspar, sericite and clinochlore.

5) Breccia - micaceous quartzite; brownish grey weathering, solution differentiated weathering. Silicified breccia with white to clear stringers +/- pyrite. Thin fine grained quartz stringers sub parallel to compositional layering with thicker coarse stringers and veinlets.

6) Silicified carbonate; pinkish grey weathering in light to dark grey ferriginous dolomite. Highly brecciated with crosswork of siliceous stringers. Neutral coloured crystalline carbonates replaced by silica. Includes crush zone with finer grained layered/banded carbonates. Quartz occurs as stringers and chalcedonic veinlets.

5.1.1 QAQC

As part of the normal quality control for sample analyses a total of 6 certified standards (2 types) and 7 certified blanks were introduced in the sampling run by Acme as part of their QAQC protocols to test for contamination from both pulps and preparation. All standards fell within tolerance for Au analyses. One outlier was noted for prep wash on blanks (Figure 11).

A total of 3 pulp duplicates were also analyzed. Results for repeatability of analyses are presented in Figure 12. All were low in gold and within tolerance on Au, Mo, As, Ag, and Ni (Figure 12).

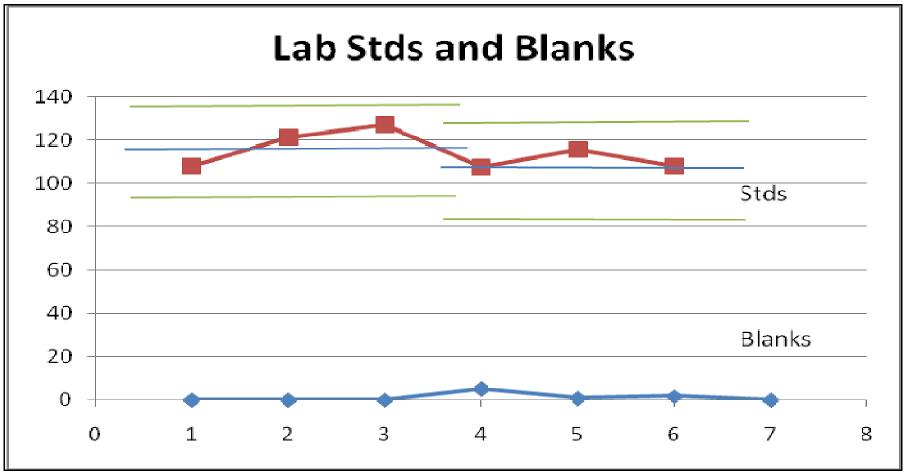

Figure 11: Lab Standards and Blanks

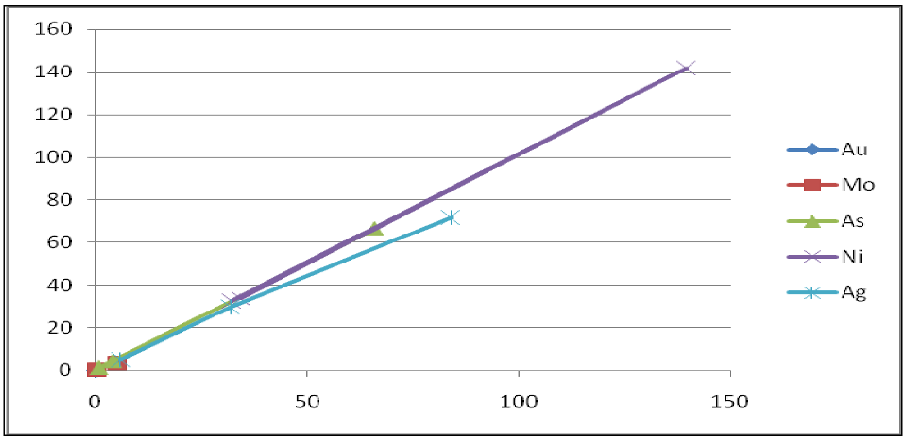

Figure 12: Sample Duplicates

5.2 Geophysical IP Survey

A total of 12 kilometres of IP was completed in 6 lines. Survey methods and results are located in Appendix A. The east-west trending lines are reconnaissance scaled intended to test 5 targets including 2 lines testing the Main Zone and Zone 2.

Survey results are displayed in pseudosection (Figure 13). Two parallel linear chargeability anomalies were delineated by the survey on Lines 1 and 2 indicative of the northwest trending structural features detected on surface. The anomaly is situated between the Main Zone and Zone 2 and has never been tested by drilling to date. An additional strong chargeability anomaly was delineated on Line 5. Resistivity surveys did not produce any strong anomalies coincident with the chargeability anomalies, however, both the Main Zone and Zone 2 exhibited elevated resistivity features. As well, a strong resistivity anomaly was detected on Line 4.

Data from the surveys were inverted and presented as on plan in Figure 14.

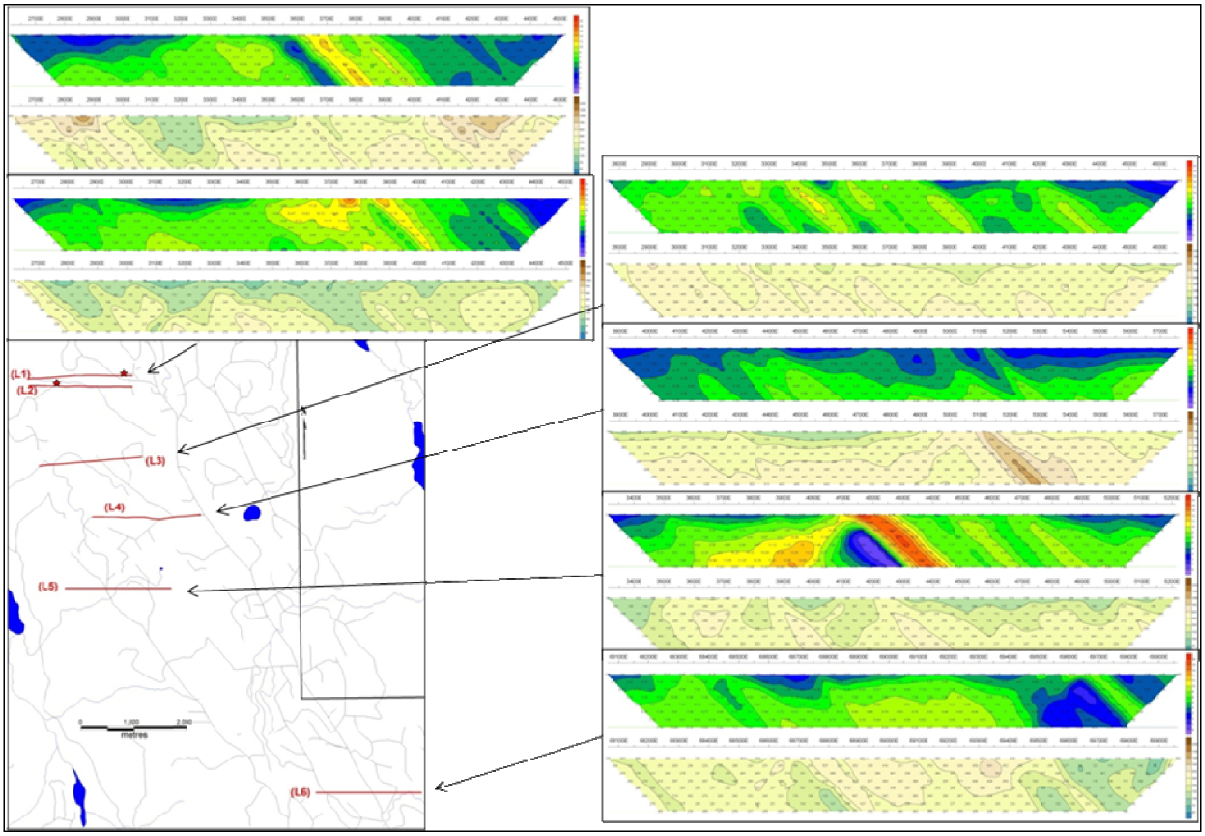

Figure 13: IP Pseudosections

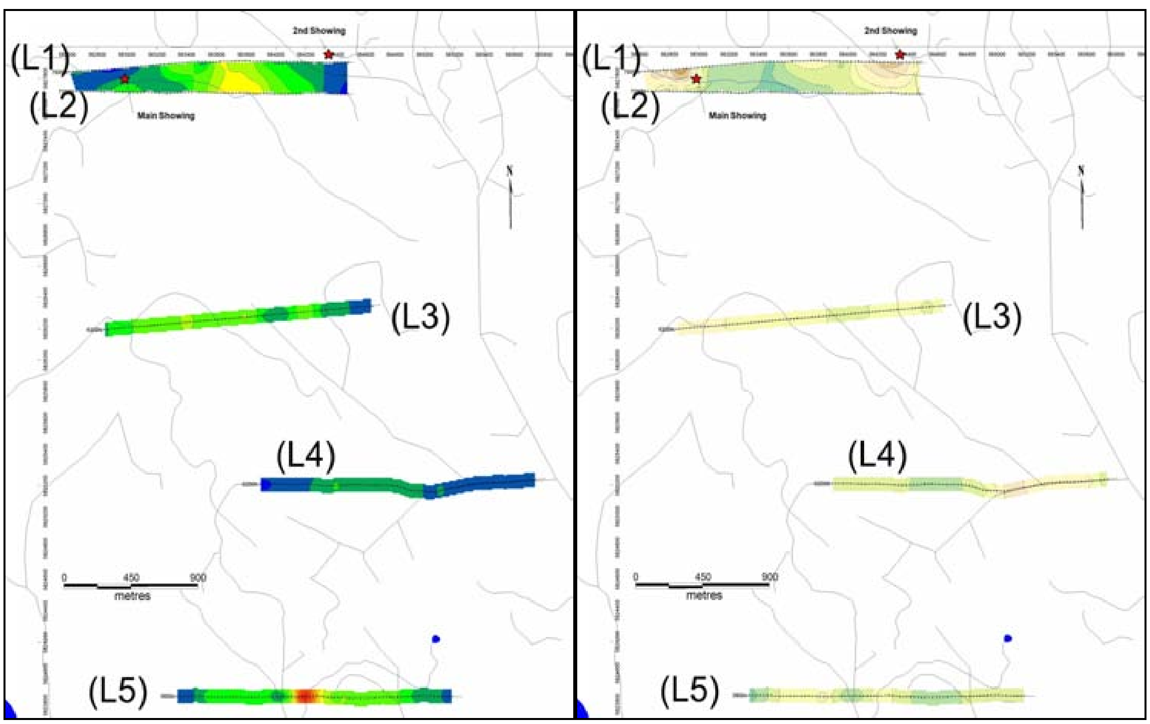

Figure 14: IP Chargeability and Resistivity Plans (Inverted)

6.0 INTERPRETATION AND CONCLUSIONS

The 2012 prospecting program identified a number of areas prospective in gold mineralization. Analyses of rock sampling demonstrates that gold mineralization is associated with arsenic distribution. A compilation of historic soil sampling shows distinct northwest trending arsenic distribution in soils related to structural features (Figure 15). Silicification and alteration of rocks found in outcrop suggests a viable environment for gold mineralization that may be found at depth or along strike.

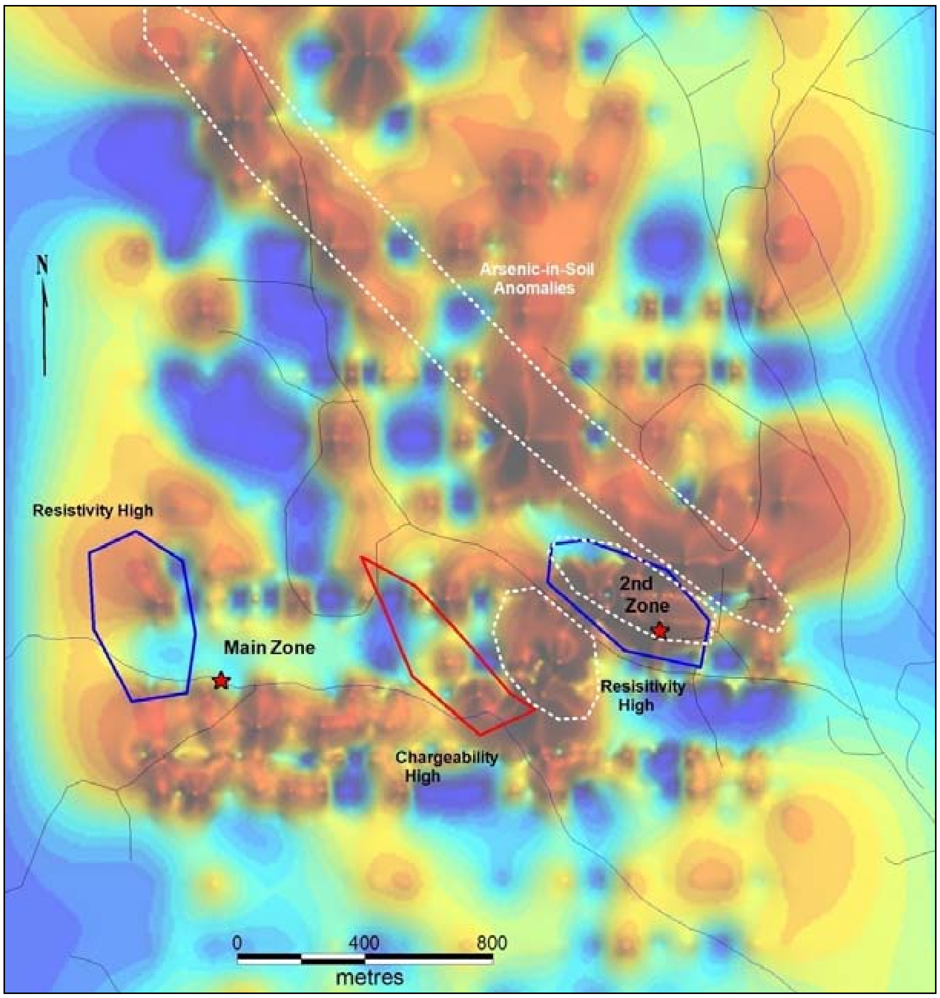

Figure 15: Compilation Map

IP resistivity surveys identified the Main Zone and Zone 2 as resistivity highs, coinciding with high silicification events. Of note is the high chargeability zone located between the two zones, coincident with an arsenic-in-soils anomaly.

7.0 RECOMMENDATIONS

A diamond drill program is recommended to test targets in the Main Zone and Zone 2 areas. The next phase of exploration is estimated to cost $250,000.

8.0 STATEMENT OF EXPENDITURES

Payee/Supplier	Item	Expenditure	Mandays
ERSI Earth Science Resource	Maps	$ 925.00	
Darryn Hitchcock	Geology/Prospecting	$ 17,877.19	30.0
John Peters	Geology/Reporting	**$ 4,750.00**	9.5
Gareth Thomas	Prospecting/Supervision	$ 5,245.22	10.0
Ryan Fetterley	Prospecting	$ 5,338.63	15.0
Mincord Exploration	Line Cutting (3 persons)	$ 14,903.56	50.0
Printing House	Reproductions	$ 70.90	
Deakins	Supplies	$ 1,668.97	
Acme Labs	Analytical	$ 2,016.14	
Scott Geophysics	Geophysical Surveys	$ 30,153.41	24.0
Management Fee (10%)		$ 8,294.90	
	Total	$ 91,243.92	138.5

MTO Event	Date	Amount	PAC debit
5402519	30-Aug-12	$ 16,800.00	-$ 398.80
5422893	21-Dec-12	$ 69,218.92	$ 25,463.39
5422897	21-Dec-12	$ 5,225.00	$ 1,614.31
Total		$ 91,243.92	$ 26,678.90

Table3: Statement of Costs

9.0 REFERENCES

Campbell, K.V., 1988; Petrographic report on rock sample suite from Dragon and Ben Claims, unpublished report for Bema International Resources Inc., dated February, 1988.

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Dunlop, D., 2001; GPS survey of BEN 1-6 mineral claims, Cariboo Mining Division, B.C., by Paragon Resource Mapping Inc. for B.H. Kahlert & Associates Ltd., dated March 12, 2001, 4 pp.

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Graham, R.F., 1991; Drilling and geochemical report on the Ben property, Cariboo Mining Division, B.C., for Circle Resources Ltd, ARIS 21309, dated January 1991, 37 pp.

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Massey, N.W.D, MacIntyre, D.G., Desjardins, P.J. and Cooney, R.T., 2005; Digital geology map of British Columbia; B.C. Ministry of Energy and Mines, Geological Survey Branch, Open File 2005-2.

Ramani, S.V., 1970; Geochemical and Geophysical Report on Dolly, Linda + Carol Group of Claims, Ardo Mines Ltd; ARIS Report 02696.

Sayer, C., 1988; inset map of "Ben Main Showing, Detail Geology" in Plan A-1, in Fraser, 1988, ARIS 18,674.

10.0 AUTHOR'S STATEMENT OF QUALIFICATIONS – L. John Peters

I, **L. John Peters, P.Geo** do hereby certify that:

a. I am a consulting geologist with addresses at 6549 Portland Street, Burnaby, BC, Canada, V5E 1A1.

b. I graduated with a Bachelor of Science degree (Geology) from the University of Western Ontario in 1984.

c. I am a Professional Geoscientist (P.Geo.) in good standing with the Association of Professional Engineers and Geoscientists of British Columbia (#19010).

d. I have worked as a geologist for a total of 27 years since my graduation from university.

e. I am responsible for the preparation of all sections of the technical report titled " Assessment Report on the Ben Property" and dated 21 September 2012 relating to the Ben Property.

f. I am not aware of any material fact or material change with respect to the subject matter of the Technical Report that is not reflected in the Technical Report, the omission to disclose which makes the Technical Report misleading.

Dated this 21st day of December 2012.

"Lawrence John Peters"

Appendix A:
Logistical Report - IP Survey

LOGISTICAL REPORT

INDUCED POLARIZATION SURVEY

BEN PROJECT
MCCLEESE LAKE AREA, B.C.

on behalf of

WESTHAVEN VENTURES INC.
1103-475 Howe Street
Vancouver, BC V6C 2B3

Survey performed: May 22-29, 2012

by

Brad Scott, Geologist (GIT)
SCOTT GEOPHYSICS LTD.
4013 West 14th Avenue
Vancouver, BC V6R 2X3

June 22, 2012

TABLE OF CONTENTS

1. INTRODUCTION

Induced polarization (IP) and total field magnetomer (mag) surveys were performed on the Ben Project, McCleese area, B.C. within the period May 22-29, 2012. In addition, non-differential GPS readings were taken at each station and at all remote ("infinite") current locations.

The survey was performed by Scott Geophysics Ltd. on behalf of Westhaven Ventures Inc. This report describes the instrumentation and procedures, and presents the results of the survey.

2. SURVEY COVERAGE AND PROCEDURES

The pole-dipole array was used. Readings were taken at 50 metre intervals with an "a" spacing of 50 metres and at "n" separations of 1 to 8. The on line current electrode was located to the east of the potential electrodes.

Total field magnetometer readings were taken at 12.5 metre intervals and corrected for diurnal variation against a fixed base station cycling at 10 second intervals.

GPS readings were taken at each station subject to satellite reception. Elevation measurements are barometric altimeter readings, calibrated to GPS altitude at the beginning of each line.

A total of 12 kilometres of IP and mag survey were performed.

The chargeability and resistivity results are presented on the accompanying pseudosections and plans. The magnetometer results are presented on the accompanying profiles and plans. All survey data are archived to the accompanying CD-ROM.

3. PERSONNEL

Gord Stewart was the crew chief on the survey on behalf of Scott Geophysics Ltd. Darryn Hitchcock was the representative on behalf of Westhaven Ventures Inc.

4. INSTRUMENTATION

A GDD GRx8 receiver and 2 GDD TxII transmitters (total 8600 watt) were used for the IP survey. Readings were taken in the time domain using a 2 second on/2 second off alternating square wave. The chargeability values plotted on the accompanying pseudosections and plan maps are for the interval 690 to 1050 msec after shutoff.

Scintrex ENVI proton precession magnetometers were used for both field and base units for the magnetometer survey.

GPS readings were taken with a Garmin GPSMap 60CSx GPS receiver.

Respectfully Submitted,

Brad Scott, Geologist (GIT)

Statement of Qualifications

for

Brad Scott, Geologist (GIT)

of

1230 Harrison Way,
Gabriola, B.C. V0R 1X2

I, Brad Scott, hereby certify the following statements regarding my qualifications and involvement in the program of work on behalf of Westhaven Ventures Inc. at the Ben Project, McCleese Lake area, B.C as presented in this report June 22, 2012.

The work was performed by individuals trained and qualified for its performance.

I have no material interest in the property under consideration in this report.

I graduated from the University of British Columbia with a Bachelor of Science degree (Geology) in 2000.

I am a member-in-training of the Association of Professional Engineers and Geoscientists of the Province of British Columbia.

I have been practising my profession in the field of Mineral Exploration since 2000.

Respectfully submitted,

Brad Scott

Westhaven Ventures Inc.

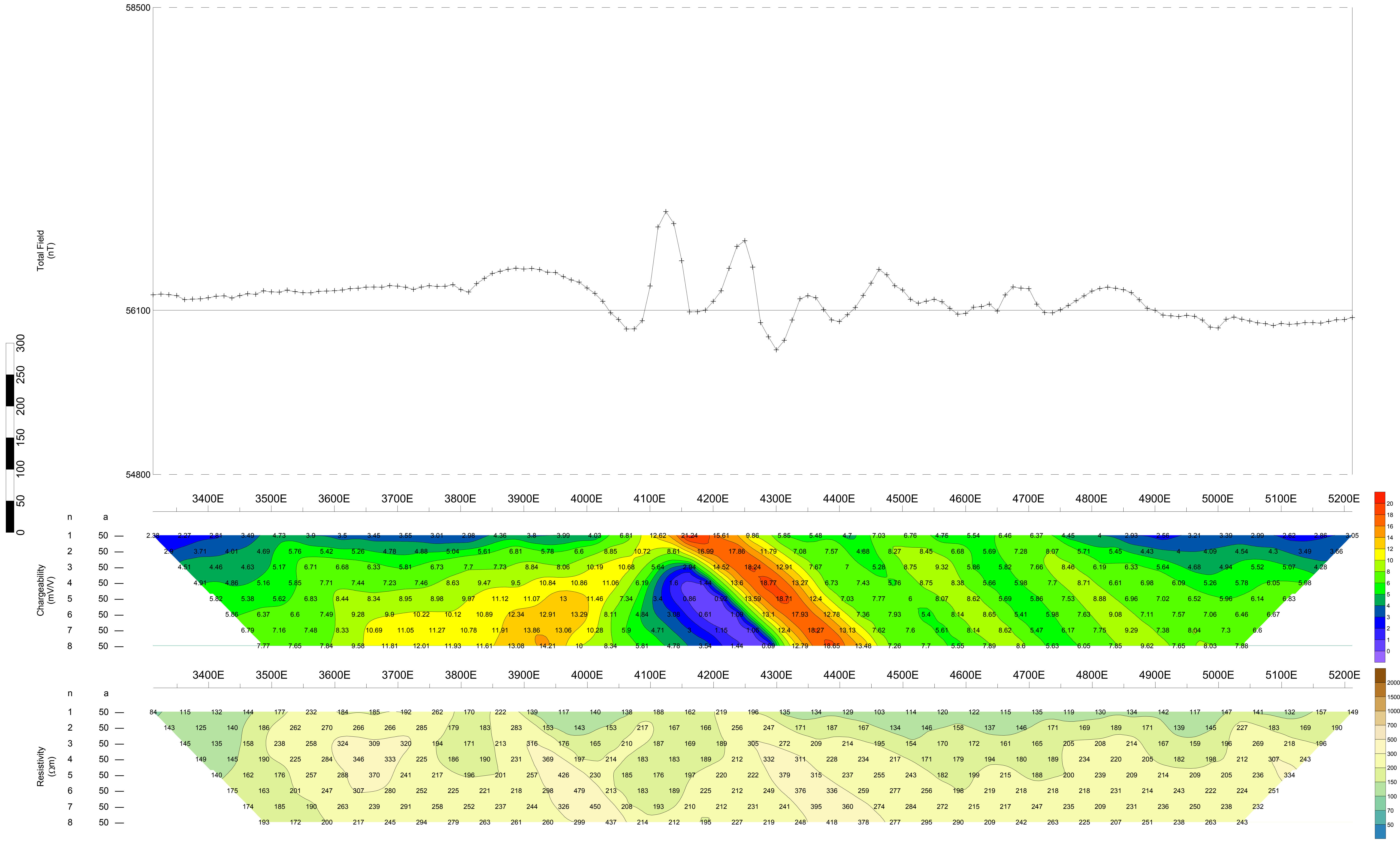
Ben Property, McLeese Lake area, BC

Line: 3850N

Induced Polarization Survey
Scott Geophysics Ltd.
May 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode east of potentials
Mx chargeability window: 690-1050 msec after shuttoff



Line: 3850N

Westhaven Ventures Inc.

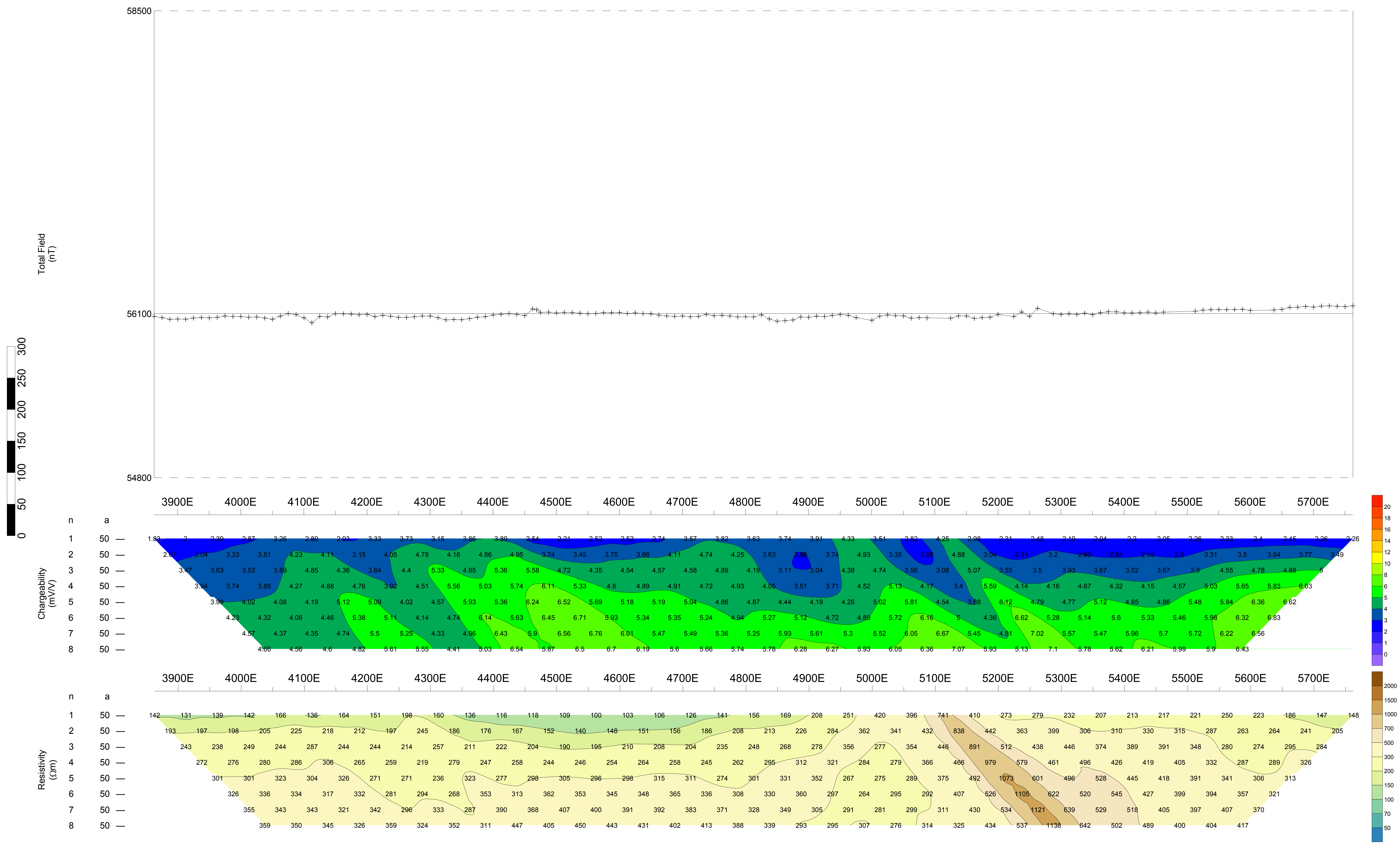
Ben Property, McLeese Lake area, BC

Line: 5200N

Induced Polarization Survey
Scott Geophysics Ltd.
May 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode east of potentials
Mx chargeability window: 690-1050 msec after shuttoff



Line: 5200N

Westhaven Ventures Inc.

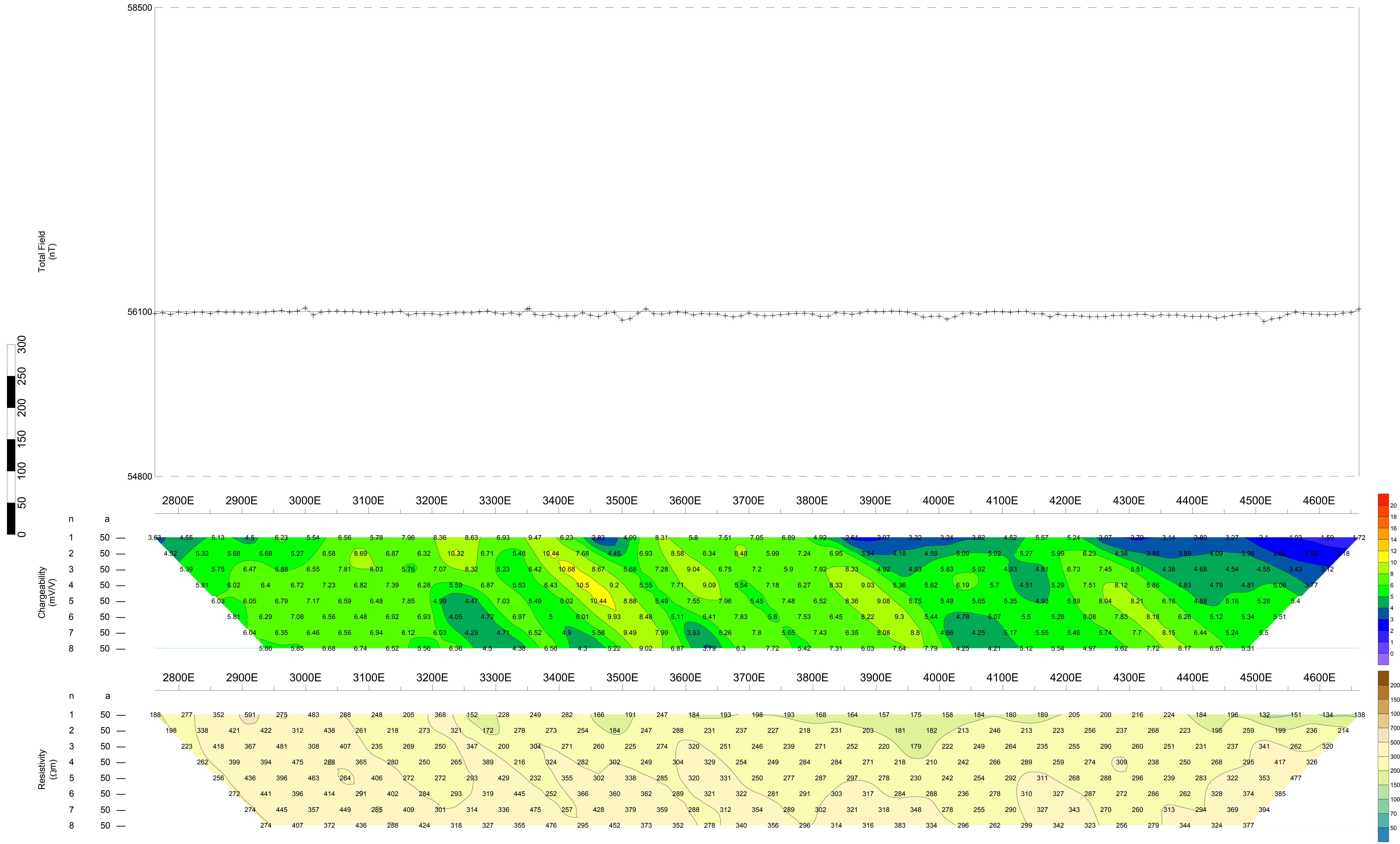
Ben Property, McLeese Lake area, BC

Line: 6300N

Induced Polarization Survey
Scott Geophysics Ltd.
May 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode east of potentials
Mx chargeability window: 690-1050 msec after shuttoff



Line: 6300N

Westhaven Ventures Inc.

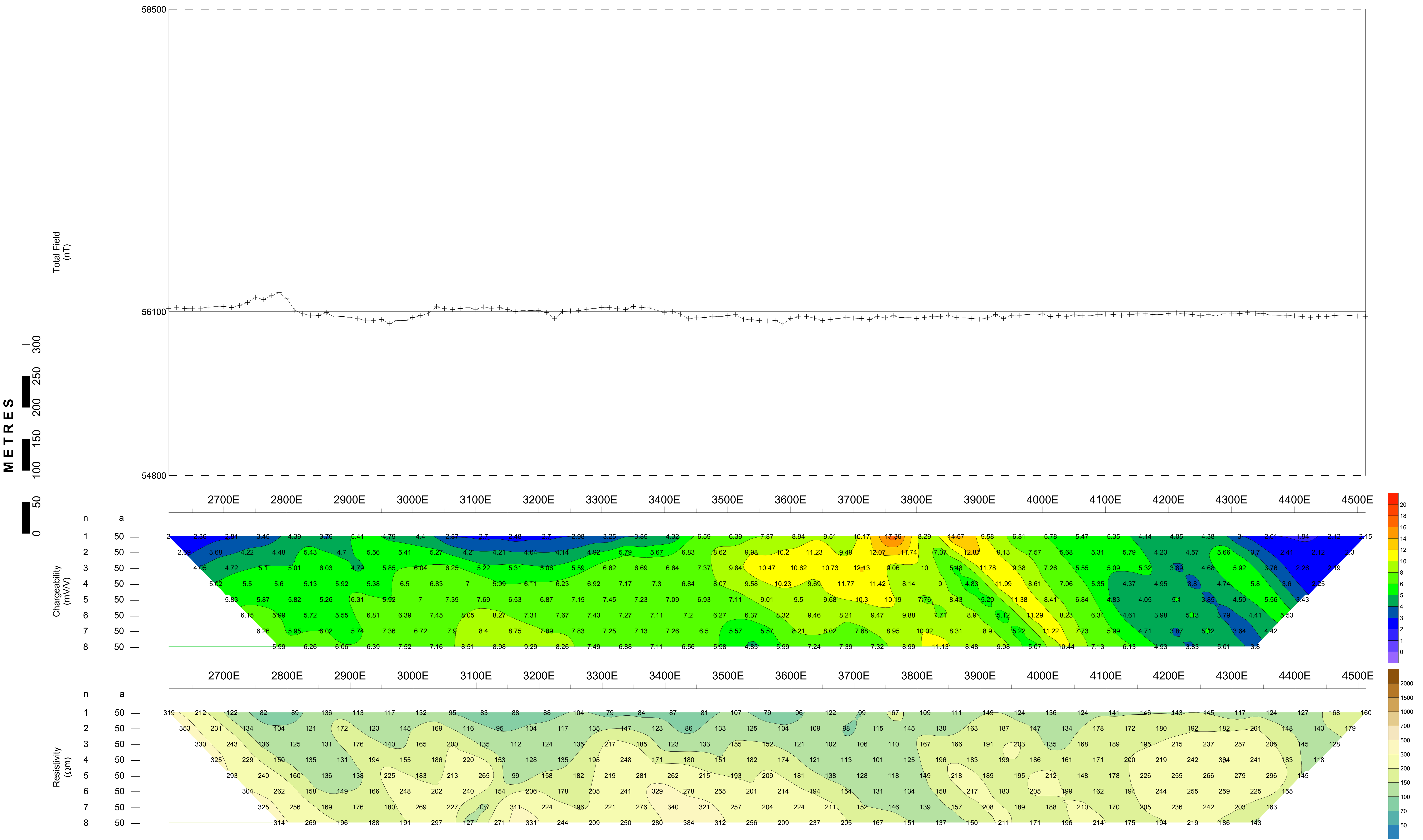
Ben Property, McLeese Lake area, BC

Line: 7700N

Induced Polarization Survey
Scott Geophysics Ltd.
May 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode east of potentials
Mx chargeability window: 690-1050 msec after shuttoff



Line: 7700N

Westhaven Ventures Inc.

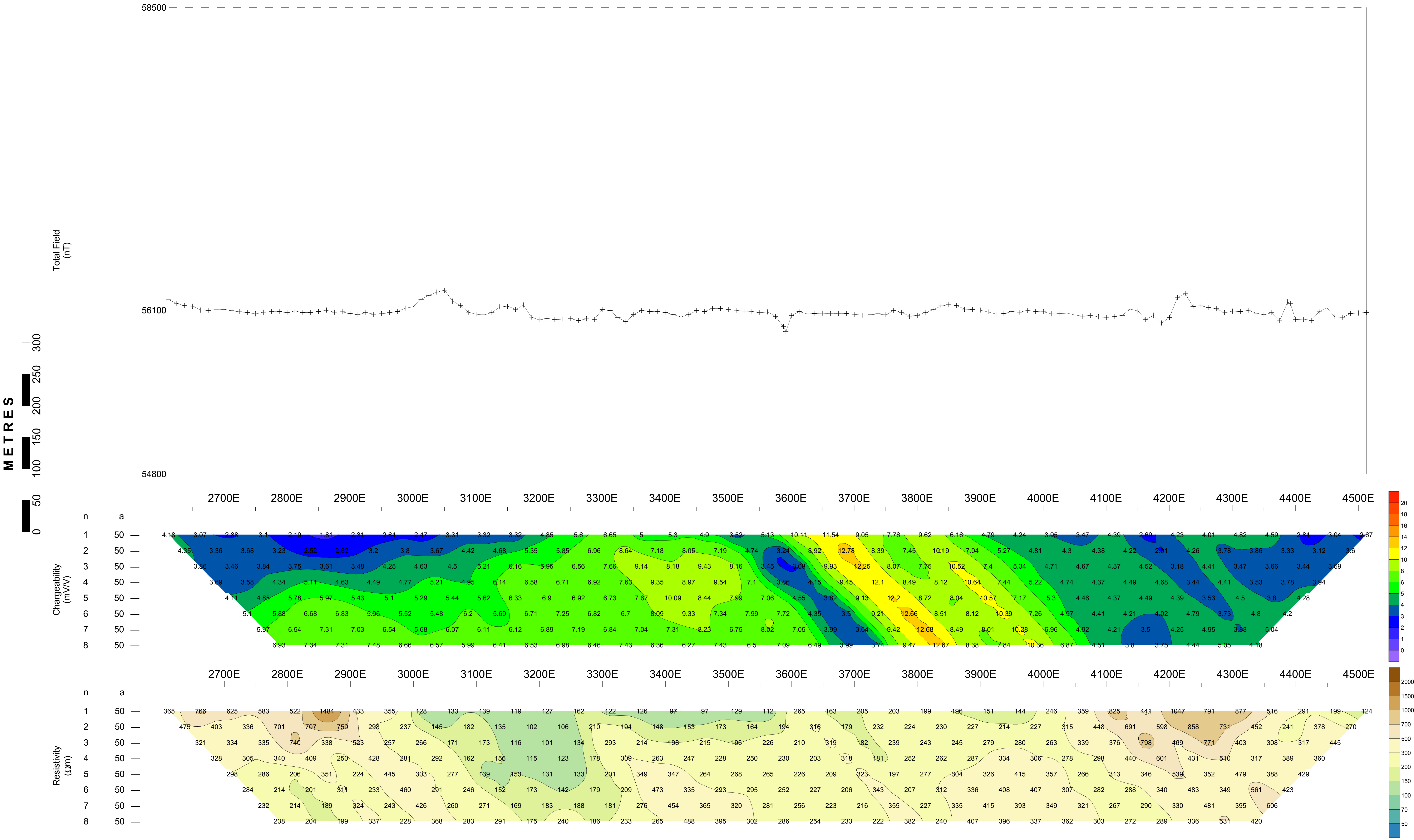
Ben Property, McLeese Lake area, BC

Line: 7900N

Induced Polarization Survey
Scott Geophysics Ltd.
May 2012

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode east of potentials
Mx chargeability window: 690-1050 msec after shuttoff



Line: 7900N

Westhaven Ventures Inc.

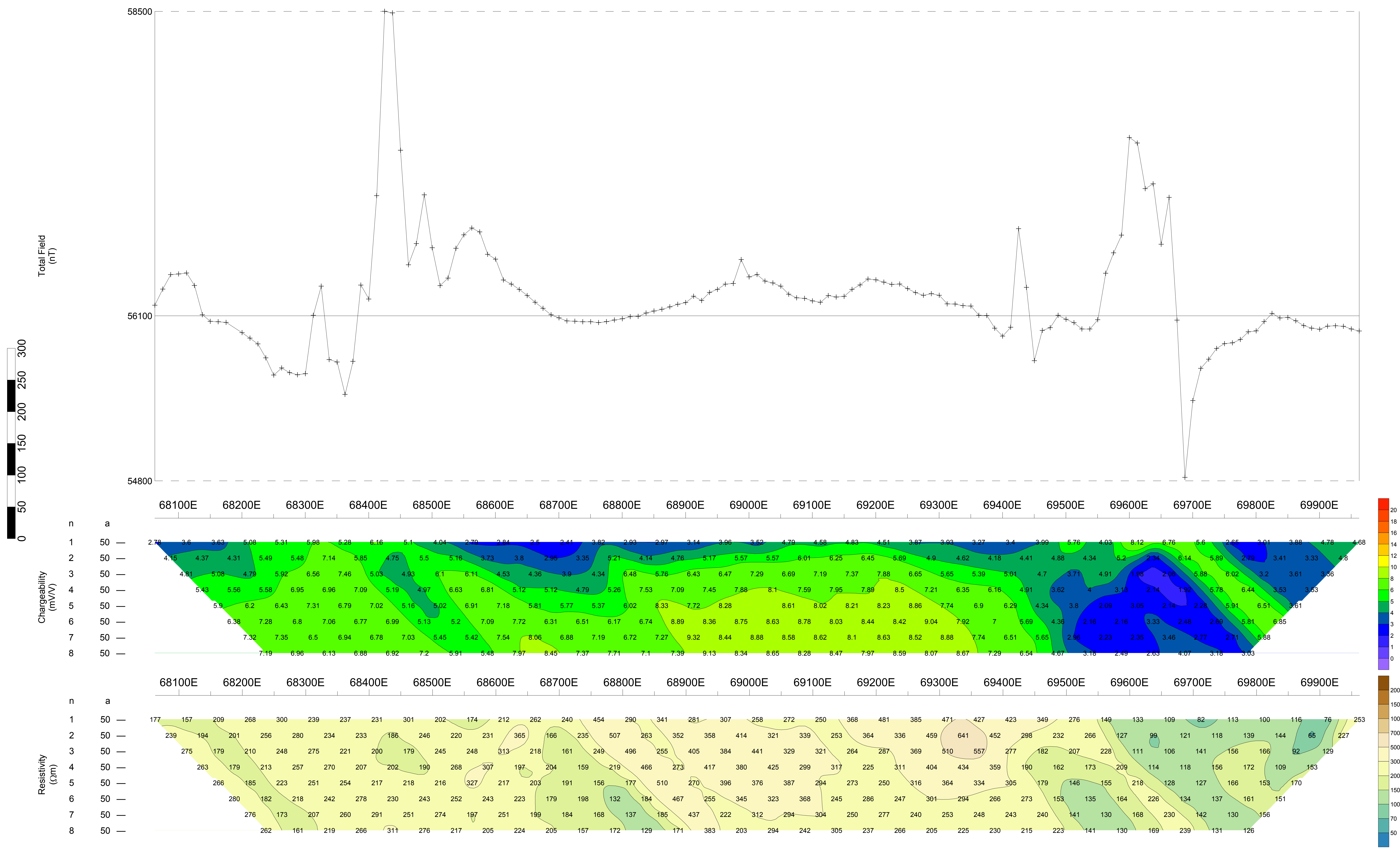
Ben Property, McLeese Lake area, BC

Line: 9950N

Offset Pole-Dipole array
GDD GRx8
Pulse rate: 2 sec

Current electrode east of potentials
Mx chargeability window: 690-1050 msec after shuttoff

Induced Polarization Survey
Scott Geophysics Ltd.
May 2012



Line: 9950N

Survey Specifications

Survey performed: May 2012

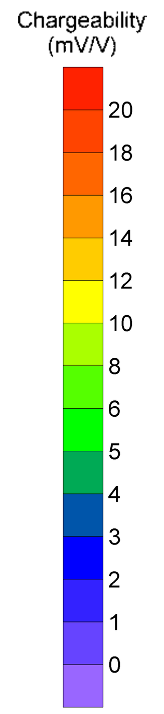
Receiver: GDD GRx8
Transmitter: GDD TxII
Pulse time: 2 sec
Mx receive window: 690-1050 msec

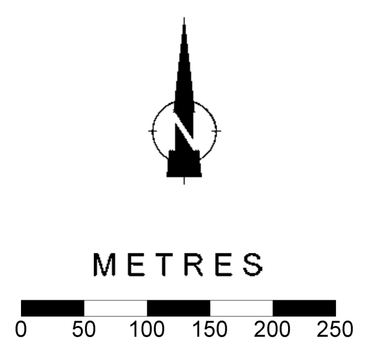
Array: pole-dipole
a spacing, n separations:
a = 50m, n = 1-8

Current electrode east of potential electrodes

RES2DINV inverted data

True depth inverted sections





Westhaven Ventures Inc.
Ben property, McCleese Lake area, B.C.
Induced polarization survey
RES2DINV inverted chargeability data
Inverted model sections

Drawn by: B Scott | Date: June, 2012

Scott Geophysics Ltd.

Survey Specifications

Survey performed: May 2012

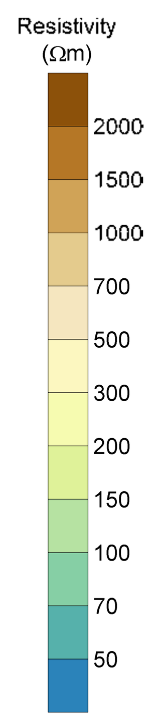
Receiver: GDD GRx8
Transmitter: GDD TxII
Pulse time: 2 sec
Mx receive window: 690-1050 msec

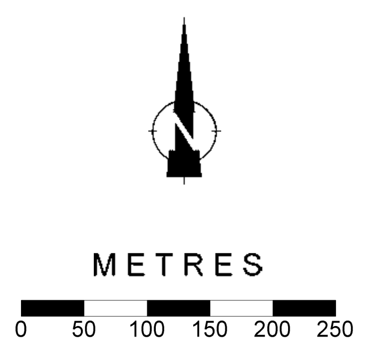
Array: pole-dipole
a spacing, n separations:
a = 50m, n = 1-8

Current electrode east of potential electrodes

RES2DINV inverted data

True depth inverted sections





Westhaven Ventures Inc.
Ben property, McCleese Lake area, B.C.
Induced polarization survey
RES2DINV inverted resistivity data
Inverted model sections

Drawn by: B Scott | Date: June, 2012

Scott Geophysics Ltd.

Appendix B:
Rock Sample Descriptions

2012 Rock Sample Descriptions

2012 Rock Sample Descriptions

Sample #	Sample zone	Type	Easting	Northing	Description	Visible Mineralisation	Au (ppb)	Mo	Cu	Pb	Zn	Ag	Ni	Co	As	Hg
121262	Known outcrops/historic showings	outcrop	563688	5826159	diorite intrusive, mod mag	tr diss pyrite	1.1	0.34	38.16	8.05	64.3	69	55.1	15.4	0.4	5
121263	Recon-disused quarry next to track	float	565091	5825457	Stockwork vein Cc in dark carbonaceous siltsstone/slate		0.2	3.14	12.84	7.75	33.3	93	9.4	2.8	12.1	59
121264	Known outcrops/historic showings	outcrop	563441	5829552	silicified rock after mariposite. Conc around .5mm qtz veins	mod mariposite	5.1	0.06	210.29	4.36	17.8	85	177.6	28.7	113.9	426
121265	Known outcrops/historic showings	outcrop	563445	5829554	dark mylonite with mariposite and cc veins. Augen	weak mariposite	2	0.1	36.8	1.39	45.9	43	690.7	49.2	518	161
121266	Known outcrops/historic showings	outcrop	563445	5829550	variable 2-3 cm qtz-Cc vein. 5 episodes?		3.5	0.13	16.09	1.53	41.7	27	177.9	14.5	158.9	196
121267	Known outcrops/historic showings	outcrop	563447	5829544	stockwork qtz veins, near vertical		0.6	0.17	26.42	8.41	27.6	71	69.5	10.7	92.5	52
121268	Known outcrops/historic showings	outcrop	563410	5829488	intensely silicified, light green, seds?	tr diss pyrite	0.2	0.2	12.78	2.71	58.7	25	542.2	52.5	1.1	9
121269	Road exposure	outcrop	563501	5828377	meta-volcanics. Mod silicification. Weathers light green and rust coating.	tr diss pyrite	5.9	0.08	33.84	1	49.1	25	20.3	24.7	1.5	15
121270	Road exposure	outcrop	563495	5828383	As above, intense rusty patch		0.5	0.4	45	0.53	41.5	37	18.3	17.2	0.5	32
121271	Known outcrops/historic showings	subcrop	564511	5828213	silicified, stock-work veins within silicified rock, FeOx on fractures. Late stage qtx veins with dark veins.		2.3	0.25	4.13	1.32	17	11	10.4	1.8	23.8	52
121272	Known outcrops/historic showings	subcrop	564441	5828168	qtz veined brx with intense silicification		3.5	0.93	31.15	2.25	34.7	170	33.3	4.3	42.7	184
121273	Known outcrops/historic showings	subcrop	564548	5828184	as above with intense silicification		0.4	0.16	3.28	1.22	8.1	10	3.7	0.8	4.4	40
121274	Known outcrops/historic showings	float	564548	5828220	rusty boulders, silicified next to silicified zone	mod mariposite	18.9	0.06	6.42	1.55	19.3	24	1469.2	79.9	978.5	277
121275	Road exposure	outcrop	564292	5828615	silicified, weathers typical rusty brown, mariposite and silicification grades out to west. Some mylonitised zones.	intense mariposite	0.9	0.05	6.63	0.08	2.1	12	1217.6	57.1	85.6	322
121276	Zone 2	outcrop	564166	5827924	pale grey intensely silicified	minor mariposite	2.7	0.04	8.54	0.94	10.9	12	1127.2	59.1	253.9	785
121277	Zone 2	outcrop	564162	5827930	5cm qtz vein, splayed		2.2	0.06	3.58	0.61	9.5	9	909	49.9	373.2	832
121278	Zone 2	outcrop	564159	5827929	Serpentinite at fault contact. FeOx v'lts.		0.4	0.01	11.66	0.03	6.9	4	1100.4	99.3	13.1	20
121279	Zone 2	outcrop	564152	5827946	grey silicified, v.fine py	patchy mod mariposite	1.2	0.03	9.18	0.56	6.9	8	773.5	42.5	75.8	771
121280	Zone 2	outcrop	564144	5827950	well indurated med grey, silicified after mylonitization	augen has mariposite	0.2	0.07	13.83	0.26	3.3	8	1092.7	63.3	19.5	550
121281	Zone 2	float	564099	5827980	3cm qtz vein in light grey silicified		2.4	0.07	2.42	0.59	6	14	299.6	15.8	73.5	210
121282	Zone 2	outcrop	564086	5827992	Brx mylonite	tr py, minor FeOx	0.9	0.23	23.96	4.36	33.3	9	43.4	4.1	36	129
121283	Zone 2	outcrop	564084	5827999	5cm qtz vein in outcrop in brx mylonite		0.7	0.42	15.14	2.04	21.1	6	34.3	5.2	66	82
121284	Skelton Creek	outcrop	563905	5823642	green meta volcs, veins.		0.2	0.11	20.52	0.59	6.7	7	43.7	5.4	1	6
121285	Skelton Creek	outcrop	563770	5823482	black, highly fractured		1.4	0.32	14.26	1.06	14.1	18	8	2	1.6	39
121286	Skelton Creek	outcrop	563702	5823526	contact btwn silicified HW and dark mylonite(?)	sulphur staining	0.4	0.14	30.6	3.23	205.2	6	85.3	15.6	1.3	34
121287	Skelton Creek	outcrop	564295	5823962	chert banded oc, silts. 2-10cm bands.	minor pyrite.	0.2	0.24	42.96	4.2	38.3	7	12.7	5.1	1.5	26
121288	Skelton Creek	subcrop	564295	5823962	orange coated grey-green silicified oc, minor veins	silicified overprinting of mariposite possible?	8.4	0.37	48.85	0.13	8	9	108.7	20.9	4.3	30
121289	Skelton Creek	outcrop	564354	5823972	orange coated grey-green silicified oc, minor veins		0.2	5.27	11.55	8.97	51.6	84	32	12.9	0.9	10
121290	Skelton Creek	outcrop	564010	5823613	dark green, chl(?) meta-volcs. Minor qtz veins	diss minor py	0.4	0.05	64.71	0.19	57.5	15	11.1	27.2	0.2	9
121291	Zone 2 -Systematic Sampling	outcrop	564075	5827996	silicified, well indurated, light grey patches (mgnesite)? Qtz veined.	minor mariposite	3.5	0.28	10.37	0.8	35.7	48	1171.8	60.7	371.5	200
121292	Zone 2 -Systematic Sampling	outcrop	564081	5828000	intense black magnesite?		1.3	0.65	38.34	2.68	18.6	8	37.2	3.2	117.4	130
121293	Zone 2 -Systematic Sampling	outcrop	564077	5828003	white silicified with minor black patches	intense mariposite	0.9	0.14	2.82	0.48	12.6	11	1464.5	68.2	63.3	398
121294	Zone 2 -Systematic Sampling	outcrop	564073	5828005	black magnesite?	f.g py	0.3	0.09	4.31	0.66	19.5	12	1028.8	62.1	98	177
121295	Zone 2 -Systematic Sampling	float	564065	5828013	Andesite(?) f.g black, crystalline, magnetic. Qtz veined, listwanite alt selvedge.	sulphides ass with selvedge.	0.3	0.37	42.44	2.4	45.4	32	139.4	27.9	4.2	117
121296	Zone 2 -Systematic Sampling	outcrop	564055	5828020	silicified rock, sidertie(?) on fracture, near Andesite dykelet		0.2	0.09	9.38	0.44	6.9	19	899.5	47.6	42.5	1237
121297	Road exposure	outcrop	564842	5823025	blue meta-vols (chl) listwanite cc veins, qtz veins		0.9	0.05	11.91	0.45	9.9	7	20.3	7.6	0.6	22
121298	Main Showing	outcrop	563010	5827786	Dense dark grey massive rock, qtc veining		103.2	0.37	60.28	0.82	9.5	35	874.5	66.2	870.5	697
121299	Main Showing	outcrop	563023	5827784	Dense grey silicified-mangesite rock with orange coating		63	0.17	238.96	0.37	6.6	67	278.1	25.4	514	489
121300	Main Showing	outcrop	563017	5827795	Dense dark grey silicified-mangesite rock with orange coating	From fractures zone, includes orange-listwanite coating	156.6	0.22	165.42	0.44	10.2	62	503.9	47	758.8	1675
121301	Main Showing	outcrop	563021	5827780	Dense dark grey silicified-mangesite rock with orange coating		78.6	0.13	19.49	0.46	11.2	22	892.4	55.7	960.5	703
121302	Main Showing	outcrop	563055	5827795	grey, silicified, orange coated,, black wisps, poss meat-volcs		10.3	0.48	92.2	2.45	90.5	109	168	48.1	68	152
121303	Main Showing	outcrop	563025	5827802	silicified black brx(?) mylonite, qtz veined, dense. HW.		12.9	1.73	17.31	0.49	4.1	65	26	2.3	51	97
121304	Main Showing	outcrop	563014	5827786	listwanite alt meta-volcs under fault contact under black brx.	moderate mariposite	84.7	3.72	163.09	1.01	51.2	81	738.7	120.6	1619.6	1149

Sample #	Sample zone	Type	Easting	Northing	Description	Visible Mineralisation	Au (ppb)	Mo	Cu	Pb	Zn	Ag	Ni	Co	As	Hg
121305	Main Showing	outcrop	563016	5827777	listwanite alt meta-volcs , possible fracture zone	tr intense mariposite, lots of listwanite coating	171.8	0.67	204.02	0.32	9	72	863.8	65.8	783	744
121306	Main Showing	outcrop	563015	5827778	grey silicified, listwanite alt, CC? veined (5mm)		102	0.3	102.03	0.38	7	44	719.7	54.9	830.9	1391
121307	Main Showing	outcrop	563016	5827776	grey, mod to highly silicified, meta-volcs.		51.3	0.12	50.33	0.26	6.9	20	822.7	51.2	524	1085
121308	Main Showing	outcrop	562981	5827762	grey mod to highly silicified, well indurated, mariposite assc with a fracture	moderate mariposite	2.9	0.12	14.21	0.09	7.2	18	1235	56.7	36.6	744
121309	Main Showing	outcrop	562981	5827762	dark grey, meta seds(?) qtz		1.6	2.28	17.9	1.52	11.3	11	17.7	3.3	4.6	35
121310	road oc	float	568985	5820093	silicified, fabric, vis minor sulphides, Fe-ox on one face	moderate mariposite	42	0.11	11.95	1.35	18.1	16	1054.9	71.8	851.6	7532
121311	New quarry	outcrop	567580	5825054	qtz vein and selvedge along shear, silicified and listwanite alt.		2.8	0.3	29.94	5.3	55	40	151.2	26.4	8.1	971
121312	New quarry	float	567581	5825053	Fe-ox coated float in quarry, mod silicified		1.2	0.23	5	5.34	81.8	14	27.5	14.4	3.3	178
121313	New quarry	outcrop	567571	5825052	Shear zone, variable thickness, black hard mylonite? Incls qtz v'lts	Tr mariposite	0.2	2.58	43.66	4.7	48.5	87	188.3	14.7	187	340
121314	New quarry	outcrop	567571	5825058	qtz v'lts in pink meta-volcs		0.2	0.2	7.93	3.91	60.8	56	15.5	19.1	6.5	364
121315	New quarry	float	567590	5825046	silicified, light grey, listwanite coating	silicified mod mariposite	0.2	0.13	24.99	1.82	46.8	35	225.9	32.9	8.3	1870
121316	New clear cut road dead-end	float	567210	5825850	listwanite coated, silicified	intense mariposite	0.2	0.8	9.85	0.32	6.2	7	1832.1	67.3	865.6	1733
121317	New clear cut road dead-end	outcrop	567177	5825852	listwanite coated, grey silicified, mang v'lts	intense mariposite	0.2	0.09	8.54	0.61	8.3	11	1508.1	65.6	42.1	3445
121251	Road Exposures	outcrop	569032	5820015	f.g d.grey meta-sed-intense mangesite(?)	mod mariposite	4.6	0.4	47	1.9	52	0.1	522.2	39.4	297.3	150
121252	Road Exposures	outcrop	569031	5820015	silicified rock w qtz-carb	weak mariposite	18.9	0.2	64.4	1.7	43	0.1	595.6	53	488.2	160
121253	Road Exposures	float	568985	5820082	qtz-carb brx, silicified	strong mariposite	69.6	0.1	10.8	4	15	0.1	671.3	48.1	662.5	5940
121254	Road Exposures	outcrop	568338	5821131	7cm qtz vein, silicified		29	4.1	56.7	7.8	29	0.1	50.9	24.7	36.1	260
121255	Road Exposures	outcrop	568336	5821132	wall rock of vein, dark, g.f		5.4	1.5	25.5	2.6	17	0.1	18	2.7	15.8	70
121256	Road Exposures	outcrop	568343	5821136	silica flooded, next to gouge, minor veining		8.8	4.3	24.5	5	31	0.1	19.3	3.6	18	270
121257	Road Exposures	outcrop	568343	5821135	1m fault gouge material, 'silica clay'.		19.1	10.5	31.1	17.9	59	0.3	29.2	5.2	26.5	430
121258	Road Exposures	float	568191	5821436	silicified rock w qtz-carb veining	mod mariposite	2.4	0.2	4.9	1.7	10	0.1	988.2	44.8	6.6	740
121259	Road Exposures	float	569509	5819953	tan outer, qtz-carb veining, silicified	strong mariposite	0.5	0.2	15.9	0.9	25	0.1	485.9	30.1	11.2	250
121260	Road Exposures	outcrop	569625	5818927	mafic intrusive(?) angular crystals, dark.	minor diss py and along fracture	0.5	0.5	2.1	1.2	30	0.1	4.4	4	<0.5	10
121261	Road Exposures	outcrop	570118	5819509	volcaniclastic/sediments, meta	2 cc veins // 1-2cm, sulphide?	0.5	0.3	27.6	1.2	54	0.1	25.2	15.7	1	30

	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	Nb	Rb	Sn	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Mo	1.00	0.04	0.75	0.14	0.11	-0.26	-0.20	-0.25	-0.22	-0.02	0.27	0.03	0.49	0.06	0.07	0.14	0.70	-0.05	-0.06	0.09	0.21	-0.26	-0.34	-0.03	-0.10	-0.13	-0.08	0.02	0.28	-0.17	-0.13	0.79	0.00	-0.09	0.57	-0.04	-0.04	-0.11	-0.12	0.19	0.04	0.01	0.09	0.32	0.16	0.21	0.03	0.20	0.02	-0.05	-0.08	-0.15
Cu	0.04	1.00	-0.05	0.00	0.44	-0.08	0.18	0.22	0.17	0.43	-0.07	0.65	-0.04	0.46	0.00	0.56	-0.05	0.23	0.43	-0.01	0.00	0.38	0.01	-0.11	0.00	-0.09	-0.01	-0.05	0.11	0.10	0.80	0.13	0.20	0.00	0.13	0.58	-0.03	0.06	0.01	-0.05	-0.02	0.10	-0.06	-0.03	0.06	-0.02	-0.02	-0.01	-0.01	-0.04	0.06	0.26
Pb	0.75	-0.05	1.00	0.36	0.16	-0.42	-0.39	-0.09	-0.25	-0.24	0.47	-0.14	0.68	0.14	0.17	-0.12	0.68	-0.05	0.07	0.37	0.45	-0.42	-0.43	0.26	-0.06	-0.17	-0.05	0.28	0.48	-0.25	-0.19	0.66	-0.04	-0.08	0.54	-0.19	0.01	0.15	-0.17	0.33	0.45	0.35	0.26	0.56	0.48	0.56	0.35	-0.01	0.20	0.00	-0.12	-0.42
Zn	0.14	0.00	0.36	1.00	0.14	-0.37	-0.19	0.37	0.14	-0.18	0.78	-0.20	0.41	0.12	0.77	-0.01	0.31	0.25	0.18	0.33	0.40	-0.39	-0.37	0.34	0.18	-0.15	0.28	0.26	0.44	-0.27	-0.05	0.16	0.00	-0.18	0.09	-0.11	0.27	0.17	0.15	0.40	0.27	0.42	0.20	0.50	0.90	0.44	0.37	0.01	0.55	0.09	-0.09	-0.37
Ag	0.11	0.44	0.16	0.14	1.00	-0.18	-0.02	0.23	0.06	0.15	0.10	0.22	0.14	0.38	0.05	0.25	-0.02	0.10	0.33	0.29	0.32	0.00	-0.15	0.04	-0.02	-0.13	-0.04	0.17	0.18	-0.04	0.32	0.00	0.11	-0.09	0.20	0.22	0.03	0.12	-0.03	0.14	0.21	0.26	0.02	0.27	0.28	0.30	0.28	-0.05	0.08	-0.05	-0.11	-0.13
Ni	-0.26	-0.08	-0.42	-0.37	-0.18	1.00	0.85	0.21	0.49	0.49	-0.33	0.20	-0.41	-0.12	-0.17	0.18	-0.29	-0.26	-0.21	-0.30	-0.30	0.60	0.91	-0.20	-0.29	0.39	-0.39	-0.34	-0.36	0.52	0.09	-0.14	0.06	0.39	-0.19	0.06	-0.38	-0.04	-0.18	-0.44	-0.20	-0.33	-0.29	-0.43	-0.47	-0.32	-0.25	-0.30	0.05	0.07	0.02	0.47
Co	-0.20	0.18	-0.39	-0.19	-0.02	0.85	1.00	0.42	0.71	0.65	-0.27	0.39	-0.31	0.04	-0.14	0.52	-0.31	-0.05	-0.02	-0.19	-0.18	0.66	0.83	-0.17	-0.19	0.49	-0.24	-0.27	-0.19	0.48	0.34	-0.09	0.11	0.38	-0.16	0.15	-0.25	0.07	0.00	-0.24	-0.15	-0.17	-0.21	-0.21	-0.29	-0.19	-0.06	-0.30	0.14	0.28	0.03	0.47
Mn	-0.25	0.22	-0.09	0.37	0.23	0.21	0.42	1.00	0.75	0.27	0.08	0.17	-0.04	0.36	0.10	0.27	-0.29	0.30	0.56	0.15	0.14	0.22	0.32	0.35	0.01	0.06	0.07	0.07	0.19	0.11	0.38	-0.18	0.10	0.09	-0.14	0.09	0.10	0.36	0.07	0.28	-0.02	0.27	-0.08	0.35	0.34	0.17	0.44	-0.13	0.34	0.12	0.13	0.08
Fe	-0.22	0.17	-0.25	0.14	0.06	0.49	0.71	0.75	1.00	0.36	-0.17	0.20	-0.08	0.17	-0.19	0.30	-0.32	0.45	0.25	0.09	0.10	0.42	0.57	0.03	0.20	0.29	0.20	0.08	0.11	0.21	0.40	-0.09	0.23	0.20	-0.10	0.04	0.22	0.29	0.35	0.26	-0.05	0.12	0.01	0.19	0.09	0.10	0.35	-0.11	0.28	0.34	0.02	0.20
As	-0.02	0.43	-0.24	-0.18	0.15	0.49	0.65	0.27	0.36	1.00	-0.25	0.72	-0.31	0.25	-0.09	0.75	-0.21	-0.13	0.13	-0.23	-0.24	0.41	0.48	-0.24	-0.21	0.10	-0.31	-0.26	-0.21	0.56	0.32	0.08	0.35	0.42	0.00	0.46	-0.30	-0.23	-0.20	-0.26	-0.13	-0.21	-0.26	-0.20	-0.28	-0.25	-0.21	-0.19	0.07	-0.21	0.10	0.44
U	0.27	-0.07	0.47	0.78	0.10	-0.33	-0.27	0.08	-0.17	-0.25	1.00	-0.17	0.59	0.05	0.76	-0.15	0.54	-0.03	0.06	0.46	0.50	-0.33	-0.36	0.34	0.00	-0.13	0.10	0.26	0.42	-0.24	-0.14	0.10	0.00	-0.13	-0.14	0.01	0.14	0.15	-0.08	0.19	0.33	0.42	0.18	0.41	0.82	0.55	0.26	-0.05	0.59	0.09	-0.09	-0.27
Au	0.03	0.65	-0.14	-0.20	0.22	0.20	0.39	0.17	0.20	0.72	-0.17	1.00	-0.17	0.28	-0.06	0.56	-0.10	-0.02	0.22	-0.16	-0.16	0.52	0.28	-0.20	-0.14	-0.02	-0.21	-0.18	-0.14	0.33	0.48	0.11	0.39	0.32	0.03	0.64	-0.21	-0.19	-0.12	-0.19	-0.11	-0.14	-0.17	-0.18	-0.16	-0.18	-0.17	-0.09	-0.04	-0.14	0.16	0.47
Th	0.49	-0.04	0.68	0.41	0.14	-0.41	-0.31	-0.04	-0.08	-0.31	0.59	-0.17	1.00	0.08	0.08	-0.18	0.60	0.07	0.09	0.73	0.84	-0.36	-0.42	0.42	0.04	-0.11	0.16	0.49	0.80	-0.29	-0.10	0.53	-0.03	-0.13	0.22	-0.14	0.23	0.51	0.02	0.41	0.58	0.78	0.44	0.67	0.60	0.90	0.58	-0.07	0.54	0.30	-0.11	-0.34
Sr	0.06	0.46	0.14	0.12	0.38	-0.12	0.04	0.36	0.17	0.25	0.05	0.28	0.08	1.00	0.04	0.33	-0.10	0.08	0.75	0.15	0.12	0.13	0.04	0.23	-0.15	-0.11	-0.15	0.03	0.31	-0.02	0.40	0.08	0.04	0.07	0.10	0.35	-0.16	0.29	-0.19	0.02	0.04	0.27	-0.07	0.25	0.15	0.12	0.19	0.25	0.16	-0.05	-0.03	-0.01
Cd	0.07	0.00	0.17	0.77	0.05	-0.17	-0.14	0.10	-0.19	-0.09	0.76	-0.06	0.08	0.04	1.00	-0.04	0.27	-0.10	0.00	0.00	0.05	-0.19	-0.22	0.15	-0.09	-0.11	-0.03	-0.05	0.10	-0.13	-0.11	0.08	-0.03	-0.10	0.06	0.05	-0.10	-0.06	-0.09	-0.05	0.07	0.09	-0.08	0.04	0.67	0.10	-0.02	-0.02	0.40	-0.06	-0.04	-0.15
Sb	0.14	0.56	-0.12	-0.01	0.25	0.18	0.52	0.27	0.30	0.75	-0.15	0.56	-0.18	0.33	-0.04	1.00	-0.13	-0.02	0.24	-0.14	-0.14	0.25	0.19	-0.15	-0.14	-0.01	-0.19	-0.17	-0.03	0.18	0.40	0.10	0.08	0.26	-0.04	0.29	-0.20	-0.11	-0.11	-0.06	-0.05	-0.06	-0.16	0.05	-0.10	-0.14	-0.12	-0.13	0.02	-0.14	0.09	0.29
Bi	0.70	-0.05	0.68	0.31	-0.02	-0.29	-0.31	-0.29	-0.32	-0.21	0.54	-0.10	0.60	-0.10	0.27	-0.13	1.00	-0.13	-0.19	0.05	0.20	-0.31	-0.38	0.13	-0.13	-0.12	-0.07	-0.03	0.39	-0.21	-0.22	0.63	-0.02	-0.11	0.49	0.02	-0.05	-0.06	-0.12	0.13	0.02	0.37	0.23	0.15	0.32	0.20	0.01	0.12	0.15	-0.03	-0.12	-0.28
V	-0.05	0.23	-0.05	0.25	0.10	-0.26	-0.05	0.30	0.45	-0.13	-0.03	-0.02	0.07	0.08	-0.10	-0.02	-0.13	1.00	0.28	0.23	0.15	-0.03	-0.19	-0.01	0.80	-0.09	0.78	0.42	0.09	-0.16	0.38	-0.01	0.32	-0.14	0.11	-0.01	0.75	0.10	0.69	0.62	0.06	0.04	0.30	0.36	0.34	0.15	0.25	0.30	-0.02	0.17	0.03	-0.10
Ca	-0.06	0.43	0.07	0.18	0.33	-0.21	-0.02	0.56	0.25	0.13	0.06	0.22	0.09	0.75	0.00	0.24	-0.19	0.28	1.00	0.14	0.12	0.13	-0.02	0.44	-0.04	-0.15	0.05	0.08	0.26	-0.08	0.51	-0.03	0.00	0.00	0.03	0.29	0.01	0.29	-0.07	0.27	0.00	0.28	-0.04	0.42	0.24	0.12	0.22	0.22	0.13	-0.03	0.22	0.04
P	0.09	-0.01	0.37	0.33	0.29	-0.30	-0.19	0.15	0.09	-0.23	0.46	-0.16	0.73	0.15	0.00	-0.14	0.05	0.23	0.14	1.00	0.94	-0.23	-0.30	0.31	0.26	-0.07	0.29	0.75	0.59	-0.21	0.00	0.06	0.05	-0.15	-0.08	-0.18	0.42	0.45	0.04	0.35	0.75	0.55	0.49	0.62	0.56	0.96	0.56	-0.04	0.42	0.34	-0.10	-0.28
La	0.21	0.00	0.45	0.40	0.32	-0.30	-0.18	0.14	0.10	-0.24	0.50	-0.16	0.84	0.12	0.05	-0.14	0.20	0.15	0.12	0.94	1.00	-0.24	-0.30	0.36	0.14	-0.06	0.22	0.69	0.71	-0.23	0.01	0.20	0.01	-0.13	0.01	-0.18	0.34	0.52	0.03	0.35	0.72	0.67	0.48	0.62	0.61	0.99	0.62	-0.05	0.50	0.38	-0.10	-0.28
Cr	-0.26	0.38	-0.42	-0.39	0.00	0.60	0.66	0.22	0.42	0.41	-0.33	0.52	-0.36	0.13	-0.19	0.25	-0.31	-0.03	0.13	-0.23	-0.24	1.00	0.68	-0.21	-0.22	0.40	-0.23	-0.26	-0.26	0.32	0.60	-0.16	0.17	0.22	-0.16	0.39	-0.25	0.03	-0.10	-0.37	-0.19	-0.24	-0.18	-0.38	-0.36	-0.26	-0.19	-0.12	-0.04	0.31	0.14	0.61
Mg	-0.34	0.01	-0.43	-0.37	-0.15	0.91	0.83	0.32	0.57	0.48	-0.36	0.28	-0.42	0.04	-0.22	0.19	-0.38	-0.19	-0.02	-0.30	-0.30	0.68	1.00	-0.16	-0.28	0.43	-0.38	-0.33	-0.34	0.57	0.21	-0.22	0.15	0.42	-0.19	0.14	-0.38	0.00	-0.17	-0.42	-0.24	-0.32	-0.33	-0.41	-0.47	-0.32	-0.21	-0.27	0.00	0.10	0.09	0.54
Ba	-0.03	-0.11	0.26	0.34	0.04	-0.20	-0.17	0.35	0.03	-0.24	0.34	-0.20	0.42	0.23	0.15	-0.15	0.13	-0.01	0.44	0.31	0.36	-0.21	-0.16	1.00	-0.13	-0.08	-0.06	0.13	0.48	-0.25	-0.07	0.03	-0.07	-0.02	-0.06	-0.02	-0.06	0.54	-0.17	0.27	0.09	0.55	0.01	0.48	0.38	0.35	0.28	0.08	0.30	0.09	0.00	-0.27
Ti	-0.10	0.00	-0.06	0.18	-0.02	-0.29	-0.19	0.01	0.20	-0.21	0.00	-0.14	0.04	-0.15	-0.09	-0.14	-0.13	0.80	-0.04	0.26	0.14	-0.22	-0.28	-0.13	1.00	-0.12	0.79	0.60	-0.10	-0.15	0.02	-0.08	0.33	-0.16	0.07	-0.09	0.85	-0.12	0.61	0.60	0.31	-0.13	0.41	0.34	0.29	0.20	0.02	0.24	-0.11	0.07	-0.07	-0.18
B	-0.13	-0.09	-0.17	-0.15	-0.13	0.39	0.49	0.06	0.29	0.10	-0.13	-0.02	-0.11	-0.11	-0.11	-0.01	-0.12	-0.09	-0.15	-0.07	-0.06	0.40	0.43	-0.08	-0.12	1.00	-0.14	-0.15	-0.07	0.51	0.08	-0.08	-0.02	0.05	-0.11	-0.03	-0.16	0.02	0.19	-0.16	-0.10	-0.10	-0.12	-0.18	-0.20	-0.08	-0.02	-0.14	-0.04	0.60	-0.04	0.10
Al	-0.08	-0.01	-0.05	0.28	-0.04	-0.39	-0.24	0.07	0.20	-0.31	0.10	-0.21	0.16	-0.15	-0.03	-0.19	-0.07	0.78	0.05	0.29	0.22	-0.23	-0.38	-0.06	0.79	-0.14	1.00	0.51	0.04	-0.25	0.08	-0.11	0.14	-0.23	-0.01	-0.19	0.93	0.04	0.71	0.55	0.17	0.02	0.45	0.32	0.35	0.25	0.25	0.18	0.12	0.19	-0.07	-0.23
Na	0.02	-0.05	0.28	0.26	0.17	-0.34	-0.27	0.07	0.08	-0.26	0.26	-0.18	0.49	0.03	-0.05	-0.17	-0.03	0.42	0.08	0.75	0.69	-0.26	-0.33	0.13	0.60	-0.15	0.51	1.00	0.27	-0.23	-0.01	-0.01	0.16	-0.17	0.01	-0.17	0.68	0.15	0.28	0.49	0.83	0.22	0.56	0.59	0.48	0.76	0.25	0.06	0.15	0.21	-0.06	-0.23
K	0.28	0.11	0.48	0.44	0.18	-0.36	-0.19	0.19	0.11	-0.21	0.42	-0.14	0.80	0.31	0.10	-0.03	0.39	0.09	0.26	0.59	0.71	-0.26	-0.34	0.48	-0.10	-0.07	0.04	0.27	1.00	-0.31	0.13	0.46	-0.11	-0.11	0.17	-0.12	0.05	0.79	-0.01	0.30	0.28	0.98	0.23	0.54	0.58	0.71	0.76	-0.03	0.60	0.28	-0.10	-0.31
W	-0.17	0.10	-0.25	-0.27	-0.04	0.52	0.48	0.11	0.21	0.56	-0.24	0.33	-0.29	-0.02	-0.13	0.18	-0.21	-0.16	-0.08	-0.21	-0.23	0.32	0.57	-0.25	-0.15	0.51	-0.25	-0.23	-0.31	1.00	0.12	-0.06	0.29	0.18	-0.02	0.19	-0.25	-0.22	-0.14	-0.32	-0.16	-0.28	-0.24	-0.36	-0.34	-0.24	-0.20	-0.19	0.01	-0.10	0.06	0.32
Sc	-0.13	0.80	-0.19	-0.05	0.32	0.09	0.34	0.38	0.40	0.32	-0.14	0.48	-0.10	0.40	-0.11	0.40	-0.22	0.38	0.51	0.00	0.01	0.60	0.21	-0.07	0.02	0.08	0.08	-0.01	0.13	0.12	1.00	-0.01	0.13	0.06	0.01	0.40	0.05	0.26	0.09	-0.05	-0.10	0.17	-0.11	-0.04	0.03	-0.01	0.13	0.05	0.06	0.15	0.17	0.38
Tl	0.79	0.13	0.66	0.16	0.00	-0.14	-0.09	-0.18	-0.09	0.08	0.10	0.11	0.53	0.08	0.08	0.10	0.63	-0.01	-0.03	0.06	0.20	-0.16	-0.22	0.03	-0.08	-0.08	-0.11	-0.01	0.46	-0.06	-0.01	1.00	0.09	0.02	0.61	0.02	-0.11	0.37	-0.12	0.13	0.05	0.51	-0.10	0.30	0.23	0.21	0.29	-0.05	0.40	-0.07	-0.09	-0.03
S	0.00	0.20	-0.04	0.00	0.11	0.06	0.11	0.10	0.23	0.35	0.00	0.39	-0.03	0.04	-0.03	0.08	-0.02	0.32	0.00	0.05	0.01	0.17	0.15	-0.07	0.33	-0.02	0.14	0.16	-0.11	0.29	0.13	0.09	1.00	0.10	0.25	0.48	0.24	-0.14	0.18	0.18	-0.09	-0.13	-0.01	0.02	0.09	0.00	-0.03	-0.02	0.04	-0.06	0.13	0.25
Hg	-0.09	0.00	-0.08	-0.18	-0.09	0.39	0.38	0.09	0.20	0.42	-0.13	0.32	-0.13	0.07	-0.10	0.26	-0.11	-0.14	0.00	-0.15	-0.13	0.22	0.42	-0.02	-0.16	0.05	-0.23	-0.17	-0.11	0.18	0.06	0.02	0.10	1.00	-0.11	0.18	-0.23	0.03	-0.16	-0.19	-0.12	-0.04	-0.21	-0.12	-0.22	-0.14	-0.10	-0.17	0.12	-0.12	0.03	0.22
Se	0.57	0.13	0.54	0.09	0.20	-0.19	-0.16	-0.14	-0.10	0.00	-0.14	0.03	0.22	0.10	0.06	-0.04	0.49	0.11	0.03	-0.08	0.01	-0.16	-0.19	-0.06	0.07	-0.11	-0.01	0.01	0.17	-0.02	0.01	0.61	0.25	-0.11	1.00	0.03	-0.03	-0.04	0.02	0.02	-0.10	-0.09	-0.07	-0.08	0.02	-0.12	-0.09	0.16	-0.10	-0.14	0.12	-0.02
Te	-0.04	0.58	-0.19	-0.11	0.22	0.06	0.15	0.09	0.04	0.46	0.01	0.64	-0.14	0.35	0.05	0.29	0.02	-0.01	0.29	-0.18	-0.18	0.39	0.14	-0.02	-0.09	-0.03	-0.19	-0.17	-0.12	0.19	0.40	0.02	0.48	0.18	0.03	1.00	-0.18	-0.15	-0.14	-0.09	-0.13	-0.05	-0.01	-0.10	-0.07	-0.20	-0.25	0.12	-0.06	-0.10	0.22	0.36
Ga	-0.04	-0.03	0.01	0.27	0.03	-0.38	-0.25	0.10	0.22	-0.30	0.14	-0.21	0.23	-0.16	-0.10	-0.20	-0.05	0.75	0.01	0.42	0.34	-0.25	-0.38	-0.06	0.85	-0.16	0.93	0.68	0.05	-0.25	0.05	-0.11	0.24	-0.23	-0.03	-0.18	1.00	0.05	0.69	0.67	0.32	0.06	0.58	0.45	0.43	0.41	0.31	0.17	0.12	0.24	-0.09	-0.26
Cs	-0.11	0.06	0.15	0.17	0.12	-0.04	0.07	0.36	0.29	-0.23	0.15	-0.19	0.51	0.29	-0.06	-0.11	-0.06	0.10	0.29	0.45	0.52	0.03	0.00	0.54	-0.12	0.02	0.04	0.15	0.79	-0.22	0.26	0.37	-0.14	0.03	-0.04	-0.15	0.05	1.00	-0.07	0.12	0.06	0.75	0.15	0.32	0.32	0.48	0.67	-0.03	0.49	0.43	-0.12	-0.19
Ge	-0.12	0.01	-0.17	0.15	-0.03	-0.18	0.00	0.07	0.35	-0.20	-0.08	-0.12	0.02	-0.19	-0.09	-0.11	-0.12	0.69	-0.07	0.04	0.03	-0.10	-0.17	-0.17	0.61	0.19	0.71	0.28	-0.01	-0.14	0.09	-0.12	0.18	-0.16	0.02	-0.14	0.69	-0.07	1.00	0.51	-0.07	-0.04	0.21	0.13	0.21	0.02	0.21	0.07	-0.01	0.32	-0.08	-0.14
Hf	0.19	-0.05	0.33	0.40	0.14	-0.44	-0.24	0.28	0.26	-0.26	0.19	-0.19	0.41	0.02	-0.05	-0.06	0.13	0.62	0.27	0.35	0.35	-0.37	-0.42	0.27	0.60	-0.16	0.55	0.49	0.30	-0.32	-0.05	0.13	0.18	-0.19	0.02	-0.09	0.67	0.12	0.51	1.00	0.25	0.25	0.56	0.82	0.54	0.35	0.41	0.11	0.17	0.11	-0.07	-0.37
Nb	0.04	-0.02	0.45	0.27	0.21	-0.20	-0.15	-0.02	-0.05	-0.13	0.33	-0.11	0.58	0.04	0.07	-0.05	0.02	0.06	0.00	0.75	0.72	-0.19	-0.24	0.09	0.31	-0.10	0.17	0.83	0.28	-0.16	-0.10	0.05	-0.09	-0.12	-0.10	-0.13	0.32	0.06	-0.07	0.25	1.00	0.19	0.54	0.52	0.39	0.75	0.10	-0.07	0.14	0.15	-0.06	-0.18
Rb	0.01	0.10	0.35	0.42	0.26	-0.33	-0.17	0.27	0.12	-0.21	0.42	-0.14	0.78	0.27	0.09	-0.06	0.37	0.04	0.28	0.55	0.67	-0.24	-0.32	0.55	-0.13	-0.10	0.02	0.22	0.98	-0.28	0.17	0.51	-0.13	-0.04	-0.09	-0.05	0.06	0.75	-0.04	0.25	0.19	1.00	0.21	0.46	0.54	0.64	0.71	-0.05	0.58	0.25	-0.10	-0.30
Sn	0.09	-0.06	0.26	0.20	0.02	-0.29	-0.21	-0.08	0.01	-0.26	0.18	-0.17	0.44	-0.07	-0.08	-0.16	0.23	0.30	-0.04	0.49	0.48	-0.18	-0.33	0.01	0.41	-0.12	0.45	0.56	0.23	-0.24	-0.11	-0.10	-0.01	-0.21	-0.07	-0.01	0.58	0.15	0.21	0.56	0.54	0.21	1.00	0.47	0.36	0.52	0.30	0.25	0.15	0.33	-0.10	-0.26
Zr	0.32	-0.03	0.56	0.50	0.27	-0.43	-0.21	0.35	0.19	-0.20	0.41	-0.18	0.67	0.25	0.04	0.05	0.15	0.36	0.42	0.62	0.62	-0.38	-0.41	0.48	0.34	-0.18	0.32	0.59	0.54	-0.36	-0.04	0.30	0.02	-0.12	-0.08	-0.10	0.45	0.32	0.13	0.82	0.52	0.46	0.47	1.00	0.63	0.62	0.47	0.01	0.36	0.14	-0.08	-0.39
Y	0.16	0.06	0.48	0.90	0.28	-0.47	-0.29	0.34	0.09	-0.28	0.82	-0.16	0.60	0.15	0.67	-0.10	0.32	0.34	0.24	0.56	0.61	-0.36	-0.47	0.38	0.29	-0.20	0.35	0.48	0.58	-0.34	0.03	0.23	0.09	-0.22	0.02	-0.07	0.43	0.32	0.21	0.54	0.39	0.54	0.36	0.63	1.00	0.64	0.51	-0.01	0.60	0.20	-0.09	-0.37
Ce	0.21	-0.02	0.56	0.44	0.30	-0.32	-0.19	0.17	0.10	-0.25	0.55	-0.18	0.90	0.12	0.10	-0.14	0.20	0.15	0.12	0.96	0.99	-0.26	-0.32	0.35	0.20	-0.08	0.25	0.76	0.71	-0.24	-0.01	0.21	0.00	-0.14	-0.12	-0.20	0.41	0.48	0.02	0.35	0.75	0.64	0.52	0.62	0.64	1.00	0.58	-0.05	0.50	0.37	-0.11	-0.29
In	0.03	-0.02	0.35	0.37	0.28	-0.25	-0.06	0.44	0.35	-0.21	0.26	-0.17	0.58	0.19	-0.02	-0.12	0.01	0.25	0.22	0.56	0.62	-0.19	-0.21	0.28	0.02	-0.02	0.25	0.25	0.76	-0.20	0.13	0.29	-0.03	-0.10	-0.09	-0.25	0.31	0.67	0.21	0.41	0.10	0.71	0.30	0.47	0.51	0.58	1.00	-0.13	0.58	0.37	-0.11	-0.29
Re	0.20	-0.01	-0.01	0.01	-0.05	-0.30	-0.30	-0.13	-0.11	-0.19	-0.05	-0.09	-0.07	0.25	-0.02	-0.13	0.12	0.30	0.22	-0.04	-0.05	-0.12	-0.27	0.08	0.24	-0.14	0.18	0.06	-0.03	-0.19	0.05	-0.05	-0.02	-0.17	0.16	0.12	0.17	-0.03	0.07	0.11	-0.07	-0.05	0.25	0.01	-0.01	-0.05	-0.13	1.00	-0.25	-0.04	0.04	-0.11
Be	0.02	-0.01	0.20	0.55	0.08	0.05	0.14	0.34	0.28	0.07	0.59	-0.04	0.54	0.16	0.40	0.02	0.15	-0.02	0.13	0.42	0.50	-0.04	0.00	0.30	-0.11	-0.04	0.12	0.15	0.60	0.01	0.06	0.40	0.04	0.12	-0.10	-0.06	0.12	0.49	-0.01	0.17	0.14	0.58	0.15	0.36	0.60	0.50	0.58	-0.25	1.00	0.19	-0.10	-0.04
Li	-0.05	-0.04	0.00	0.09	-0.05	0.07	0.28	0.12	0.34	-0.21	0.09	-0.14	0.30	-0.05	-0.06	-0.14	-0.03	0.17	-0.03	0.34	0.38	0.31	0.10	0.09	0.07	0.60	0.19	0.21	0.28	-0.10	0.15	-0.07	-0.06	-0.12	-0.14	-0.10	0.24	0.43	0.32	0.11	0.15	0.25	0.33	0.14	0.20	0.37	0.37	-0.04	0.19	1.00	-0.06	-0.04
Pd	-0.08	0.06	-0.12	-0.09	-0.11	0.02	0.03	0.13	0.02	0.10	-0.09	0.16	-0.11	-0.03	-0.04	0.09	-0.12	0.03	0.22	-0.10	-0.10	0.14	0.09	0.00	-0.07	-0.04	-0.07	-0.06	-0.10	0.06	0.17	-0.09	0.13	0.03	0.12	0.22	-0.09	-0.12	-0.08	-0.07	-0.06	-0.10	-0.10	-0.08	-0.09	-0.11	-0.11	0.04	-0.10	-0.06	1.00	0.73
Pt	-0.15	0.26	-0.42	-0.37	-0.13	0.47	0.47	0.08	0.20	0.44	-0.27	0.47	-0.34	-0.01	-0.15	0.29	-0.28	-0.10	0.04	-0.28	-0.28	0.61	0.54	-0.27	-0.18	0.10	-0.23	-0.23	-0.31	0.32	0.38	-0.03	0.25	0.22	-0.02	0.36	-0.26	-0.19	-0.14	-0.37	-0.18	-0.30	-0.26	-0.39	-0.37	-0.29	-0.29	-0.11	-0.04	-0.04	0.73	1.00

Appendix C:
Laboratory Certificates

Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

Client: **Westhaven Ventures Inc.**
1095 - 1920 W. Pender St.
Vancouver BC V6E 2M6 Canada

Submitted By:	Gareth Thomas
Receiving Lab:	Canada-Vancouver
Received:	May 18, 2012
Report Date:	May 25, 2012
Page:	1 of 2

CERTIFICATE OF ANALYSIS VAN12002329.1

CLIENT JOB INFORMATION

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

SAMPLE DISPOSAL

STOR-PLP	Store After 90 days Invoice for Storage
STOR-RJT	Store After 90 days Invoice for Storage

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	11	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1DX2	11	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Westhaven Ventures Inc.
1095 - 1920 W. Pender St.
Vancouver BC V6E 2M6
Canada

CC: Darryn Hitchcock

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
www.acmelab.com

Client: **Westhaven Ventures Inc.**
1095 - 1920 W. Pender St.
Vancouver BC V6E 2M6 Canada

Project: BEN
Report Date: May 25, 2012

CERTIFICATE OF ANALYSIS VAN12002329.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
121251	Rock	0.45	0.4	47.0	1.9	52	<0.1	522.2	39.4	661	4.75	297.3	4.6	0.3	122	0.1	101.3	<0.1	51	1.13	0.006
121252	Rock	0.95	0.2	64.4	1.7	43	<0.1	595.6	53.0	982	4.89	488.2	18.9	<0.1	452	0.1	165.7	<0.1	32	4.85	0.005
121253	Rock	0.77	0.1	10.8	4.0	15	<0.1	671.3	48.1	599	3.40	662.5	69.6	<0.1	259	<0.1	90.3	<0.1	12	2.68	<0.001
121254	Rock	0.68	4.1	56.7	7.8	29	<0.1	50.9	24.7	411	1.75	36.1	29.0	1.6	172	0.4	7.8	0.1	21	0.06	0.035
121255	Rock	0.30	1.5	25.5	2.6	17	<0.1	18.0	2.7	141	0.87	15.8	5.4	0.6	9	0.1	4.1	<0.1	6	0.02	0.009
121256	Rock	0.47	4.3	24.5	5.0	31	<0.1	19.3	3.6	76	1.32	18.0	8.8	1.0	26	0.2	14.3	<0.1	19	0.02	0.014
121257	Rock	0.36	10.5	31.1	17.9	59	0.3	29.2	5.2	51	1.72	26.5	19.1	3.9	85	0.2	16.0	0.2	37	0.04	0.027
121258	Rock	1.59	0.2	4.9	1.7	10	<0.1	988.2	44.8	356	3.02	6.6	2.4	<0.1	14	<0.1	4.3	<0.1	11	0.27	<0.001
121259	Rock	1.06	0.2	15.9	0.9	25	<0.1	485.9	30.1	630	3.11	11.2	<0.5	<0.1	179	<0.1	6.1	<0.1	26	4.13	0.003
121260	Rock	0.73	0.5	2.1	1.2	30	<0.1	4.4	4.0	774	3.30	<0.5	<0.5	0.3	9	<0.1	0.3	<0.1	4	0.19	0.022
121261	Rock	0.90	0.3	27.6	1.2	54	<0.1	25.2	15.7	656	3.45	1.0	<0.5	0.1	48	<0.1	0.2	<0.1	112	2.42	0.032

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1095 - 1920 W. Pender St.
Vancouver BC V6E 2M6 Canada

Project: BEN
Report Date: May 25, 2012

CERTIFICATE OF ANALYSIS VAN12002329.1

	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	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
121251	Rock	4	287	11.11	128	<0.001	14	0.27	0.005	0.14	<0.1	0.15	12.4	<0.1	<0.05	<1	<0.5	<0.2
121252	Rock	1	199	7.74	147	<0.001	9	0.23	0.007	0.12	<0.1	0.16	8.9	<0.1	<0.05	<1	<0.5	<0.2
121253	Rock	<1	236	11.74	53	<0.001	8	0.04	0.003	0.02	0.3	5.94	4.9	<0.1	0.07	<1	<0.5	<0.2
121254	Rock	4	11	0.07	133	0.002	8	0.27	0.001	0.15	0.1	0.26	3.9	0.2	<0.05	<1	0.5	<0.2
121255	Rock	3	8	0.03	115	<0.001	3	0.10	0.002	0.07	<0.1	0.07	1.2	<0.1	<0.05	<1	<0.5	<0.2
121256	Rock	4	8	0.03	61	<0.001	5	0.12	0.005	0.10	<0.1	0.27	1.3	0.3	<0.05	<1	<0.5	<0.2
121257	Rock	12	9	0.08	114	<0.001	5	0.30	0.020	0.23	<0.1	0.43	3.2	0.6	0.15	1	0.8	<0.2
121258	Rock	<1	159	11.70	250	<0.001	3	0.02	0.002	0.01	0.2	0.74	4.6	<0.1	0.12	<1	<0.5	<0.2
121259	Rock	<1	193	9.94	43	<0.001	8	0.18	0.005	0.06	0.5	0.25	7.3	<0.1	<0.05	<1	<0.5	<0.2
121260	Rock	3	4	0.48	170	0.053	<1	1.33	0.078	0.05	<0.1	0.01	5.0	<0.1	0.18	8	<0.5	<0.2
121261	Rock	1	56	1.60	14	0.218	6	2.32	0.042	0.02	0.2	0.03	13.3	<0.1	<0.05	8	<0.5	<0.2

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Vancouver BC V6E 2M6 Canada

Project: BEN
Report Date: May 25, 2012

QUALITY CONTROL REPORT VAN12002329.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001
Reference Materials																					
STD DS8	Standard		13.3	118.0	128.8	320	1.8	39.5	7.7	596	2.47	24.9	108.2	7.5	67	2.8	5.8	6.6	40	0.70	0.081
STD DS9	Standard		12.5	113.9	126.5	318	1.8	40.9	7.7	566	2.34	26.4	107.6	6.9	69	2.8	5.8	6.4	40	0.71	0.081
STD DS9 Expected			12.74	104	126	322	1.69	39.5	7.6	586	2.37	27	102	7.15	76.1	2.3	4.84	6.78	40	0.776	0.0844
STD DS8 Expected			13.44	110	123	312	1.69	38.1	7.5	615	2.46	26	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7	0.08
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	0.2	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
G1	Prep Blank	<0.01	0.3	2.7	4.2	52	<0.1	2.8	4.5	602	1.99	<0.5	1.7	7.2	71	<0.1	<0.1	<0.1	37	0.53	0.084
G1	Prep Blank	<0.01	0.2	2.7	3.7	49	<0.1	2.7	4.3	600	2.00	<0.5	<0.5	6.3	69	<0.1	0.2	0.1	38	0.50	0.077

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Project: BEN
Report Date: May 25, 2012

QUALITY CONTROL REPORT VAN12002329.1

	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	Te
	Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Reference Materials																		
STD DS8	Standard	15	119	0.60	280	0.121	2	0.97	0.103	0.43	3.0	0.21	2.4	5.8	0.16	5	5.4	4.6
STD DS9	Standard	13	120	0.61	297	0.115	2	0.98	0.092	0.39	2.9	0.21	2.5	5.7	0.16	5	5.4	4.6
STD DS9 Expected		15.7	119	0.6437	308	0.1239		0.9915	0.0905	0.3874	3	0.225	2.8	5.48	0.1737	4.84	5.4	5
STD DS8 Expected		14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	0.192	2.3	5.4	0.1679	4.7	5.23	5
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																		
G1	Prep Blank	14	6	0.52	179	0.130	<1	1.13	0.151	0.55	<0.1	<0.01	3.0	0.4	<0.05	5	<0.5	<0.2
G1	Prep Blank	14	6	0.51	179	0.132	<1	1.11	0.158	0.56	<0.1	<0.01	3.1	0.4	<0.05	5	<0.5	<0.2

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Submitted By:	Gareth Thomas
Receiving Lab:	Canada-Vancouver
Received:	May 28, 2012
Report Date:	June 09, 2012
Page:	1 of 3

CERTIFICATE OF ANALYSIS VAN12002437.1

CLIENT JOB INFORMATION

Project:	BEN
Shipment ID:	002
P.O. Number	
Number of Samples:	56

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	56	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1F05	56	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

STOR-PLP	Store After 90 days Invoice for Storage
STOR-RJT	Store After 90 days Invoice for Storage

ADDITIONAL COMMENTS

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

Invoice To: Westhaven Ventures Inc.
1095 - 1920 W. Pender St.
Vancouver BC V6E 2M6
Canada

CC: Darryn Hitchcock

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Project: BEN
Report Date: June 09, 2012

CERTIFICATE OF ANALYSIS VAN12002437.1

Method		WGHT	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
121262	Rock	0.74	0.34	38.16	8.05	64.3	69	55.1	15.4	407	2.58	0.4	0.5	1.1	3.3	214.4	0.15	0.21	<0.02	67	1.99
121263	Rock	0.55	3.14	12.84	7.75	33.3	93	9.4	2.8	432	0.81	12.1	0.1	<0.2	0.5	137.6	0.22	0.96	0.03	7	4.23
121264	Rock	0.63	0.06	210.3	4.36	17.8	85	177.6	28.7	600	2.39	113.9	<0.1	5.1	<0.1	320.0	0.08	63.17	<0.02	52	7.00
121265	Rock	0.55	0.10	36.80	1.39	45.9	43	690.7	49.2	711	4.33	518.0	<0.1	2.0	0.2	267.6	0.13	24.03	<0.02	39	2.26
121266	Rock	0.81	0.13	16.09	1.53	41.7	27	177.9	14.5	693	2.90	158.9	<0.1	3.5	<0.1	810.8	0.35	10.92	<0.02	56	12.14
121267	Rock	0.56	0.17	26.42	8.41	27.6	71	69.5	10.7	919	2.06	92.5	<0.1	0.6	<0.1	305.8	0.20	23.14	<0.02	20	2.64
121268	Rock	0.80	0.20	12.78	2.71	58.7	25	542.2	52.5	990	5.25	1.1	<0.1	<0.2	0.5	157.8	0.05	0.15	<0.02	73	3.76
121269	Rock	0.74	0.08	33.84	1.00	49.1	25	20.3	24.7	741	4.81	1.5	<0.1	5.9	0.1	47.9	0.06	0.18	<0.02	230	3.23
121270	Rock	0.70	0.40	45.00	0.53	41.5	37	18.3	17.2	558	4.81	0.5	<0.1	0.5	<0.1	7.3	0.03	0.05	<0.02	254	1.34
121271	Rock	0.56	0.25	4.13	1.32	17.0	11	10.4	1.8	68	0.54	23.8	<0.1	2.3	0.1	13.4	0.02	3.30	0.02	3	0.19
121272	Rock	0.80	0.93	31.15	2.25	34.7	170	33.3	4.3	390	1.01	42.7	<0.1	3.5	0.3	32.1	0.42	25.05	0.04	9	0.65
121273	Rock	0.63	0.16	3.28	1.22	8.1	10	3.7	0.8	109	0.41	4.4	<0.1	0.4	0.1	3.5	0.04	3.41	<0.02	2	0.04
121274	Rock	0.66	0.06	6.42	1.55	19.3	24	1469	79.9	652	3.82	978.5	<0.1	18.9	<0.1	12.5	0.02	38.88	<0.02	12	0.14
121275	Rock	0.95	0.05	6.63	0.08	2.1	12	1218	57.1	612	3.63	85.6	<0.1	0.9	<0.1	34.9	0.05	2.53	<0.02	15	0.49
121276	Rock	0.69	0.04	8.54	0.94	10.9	12	1127	59.1	424	3.85	253.9	<0.1	2.7	<0.1	8.0	0.02	9.72	<0.02	13	0.11
121277	Rock	0.47	0.06	3.58	0.61	9.5	9	909.0	49.9	632	2.77	373.2	<0.1	2.2	<0.1	12.0	0.04	14.06	<0.02	9	0.16
121278	Rock	0.39	0.01	11.66	0.03	6.9	4	1100	99.3	389	4.97	13.1	<0.1	0.4	<0.1	4.0	<0.01	1.53	<0.02	18	0.05
121279	Rock	0.70	0.03	9.18	0.56	6.9	8	773.5	42.5	609	3.58	75.8	<0.1	1.2	<0.1	75.9	0.05	4.07	<0.02	17	0.99
121280	Rock	0.71	0.07	13.83	0.26	3.3	8	1093	63.3	744	3.59	19.5	<0.1	<0.2	<0.1	58.7	0.03	2.06	<0.02	20	0.83
121281	Rock	0.62	0.07	2.42	0.59	6.0	14	299.6	15.8	178	1.26	73.5	<0.1	2.4	<0.1	15.4	0.02	6.69	<0.02	2	0.19
121282	Rock	0.77	0.23	23.96	4.36	33.3	9	43.4	4.1	302	1.22	36.0	<0.1	0.9	0.9	104.0	0.03	11.66	0.04	5	1.67
121283	Rock	0.21	0.42	15.14	2.04	21.1	6	34.3	5.2	554	0.88	66.0	<0.1	0.7	0.2	23.4	0.10	11.65	<0.02	6	0.17
121284	Rock	0.67	0.11	20.52	0.59	6.7	7	43.7	5.4	111	0.40	1.0	0.1	<0.2	0.2	6.7	0.03	0.07	<0.02	28	4.43
121285	Rock	0.38	0.32	14.26	1.06	14.1	18	8.0	2.0	200	0.72	1.6	0.1	1.4	0.2	5.8	0.15	0.34	<0.02	9	0.10
121286	Rock	0.81	0.14	30.60	3.23	205.2	6	85.3	15.6	731	1.09	1.3	1.5	0.4	0.6	5.1	2.84	0.51	0.07	4	0.03
121287	Rock	0.67	0.24	42.96	4.20	38.3	7	12.7	5.1	192	1.19	1.5	0.4	<0.2	2.4	31.1	<0.01	0.21	0.12	5	0.10
121288	Rock	0.76	0.37	48.85	0.13	8.0	9	108.7	20.9	553	2.07	4.3	<0.1	8.4	<0.1	118.4	0.04	0.96	<0.02	110	7.27
121289	Rock	0.60	5.27	11.55	8.97	51.6	84	32.0	12.9	698	2.76	0.9	0.8	<0.2	2.5	110.9	0.14	0.35	0.07	57	3.64
121290	Rock	0.68	0.05	64.71	0.19	57.5	15	11.1	27.2	776	5.83	0.2	<0.1	0.4	<0.1	10.3	0.02	0.06	<0.02	211	2.31
121291	Rock	0.52	0.28	10.37	0.80	35.7	48	1172	60.7	694	3.82	371.5	<0.1	3.5	<0.1	6.7	0.18	15.69	0.03	16	0.16

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Project: BEN
Report Date: June 09, 2012

CERTIFICATE OF ANALYSIS VAN12002437.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
	MDL	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
121262	Rock	0.382	42.6	70.7	1.69	246.3	0.164	4	1.54	0.189	0.12	<0.1	4.4	0.03	0.07	<5	<0.1	<0.02	7.4	0.17	<0.1
121263	Rock	0.017	8.9	6.2	0.03	574.0	0.001	2	0.13	0.035	0.03	<0.1	2.2	0.05	0.06	59	0.5	<0.02	0.4	0.45	<0.1
121264	Rock	0.004	<0.5	461.3	5.59	179.5	0.001	6	0.27	0.009	0.08	0.1	36.0	0.05	0.07	426	0.4	0.04	0.6	3.62	<0.1
121265	Rock	0.008	1.8	166.9	8.81	101.8	<0.001	7	0.17	0.009	0.10	0.2	10.2	0.06	0.04	161	0.4	<0.02	0.4	1.38	<0.1
121266	Rock	0.008	<0.5	165.7	8.02	162.9	0.001	5	0.12	0.009	0.06	0.2	9.2	0.04	<0.02	196	0.2	<0.02	0.3	0.46	<0.1
121267	Rock	0.031	1.2	25.0	2.22	46.3	<0.001	5	0.13	0.022	0.06	0.2	5.5	0.03	<0.02	52	<0.1	<0.02	0.4	0.67	<0.1
121268	Rock	0.047	4.5	476.8	7.82	82.6	0.010	10	1.72	0.003	0.04	<0.1	7.3	<0.02	<0.02	9	<0.1	<0.02	5.5	2.69	<0.1
121269	Rock	0.023	0.9	22.8	2.13	30.0	0.181	6	3.56	0.061	0.03	<0.1	13.6	<0.02	0.20	15	<0.1	<0.02	10.6	0.35	0.2
121270	Rock	0.046	0.7	44.1	1.49	18.3	0.322	4	2.46	0.069	<0.01	<0.1	6.4	0.07	0.59	32	0.3	0.03	9.9	0.14	0.1
121271	Rock	0.010	<0.5	7.1	0.11	66.3	0.001	2	0.09	0.002	0.05	<0.1	0.7	0.03	<0.02	52	<0.1	<0.02	0.3	0.19	<0.1
121272	Rock	0.014	1.5	11.8	0.35	100.7	0.001	3	0.13	0.001	0.04	<0.1	2.1	0.03	<0.02	184	0.2	<0.02	0.3	0.18	<0.1
121273	Rock	0.010	<0.5	7.3	0.02	28.8	0.001	<1	0.05	0.002	0.03	<0.1	0.4	<0.02	<0.02	40	<0.1	<0.02	0.2	0.13	<0.1
121274	Rock	<0.001	<0.5	273.6	18.76	59.0	<0.001	22	0.02	0.002	<0.01	2.0	7.4	0.06	0.29	277	0.2	<0.02	0.1	0.17	<0.1
121275	Rock	0.001	<0.5	264.5	15.68	159.3	<0.001	7	0.06	0.003	0.03	0.2	5.9	0.03	0.02	322	<0.1	<0.02	0.3	2.15	<0.1
121276	Rock	<0.001	<0.5	336.7	16.20	57.3	<0.001	20	0.02	0.002	<0.01	1.1	6.0	<0.02	0.07	785	<0.1	<0.02	0.1	0.55	<0.1
121277	Rock	0.005	<0.5	198.0	12.42	47.3	<0.001	60	0.03	0.003	<0.01	2.3	4.1	<0.02	0.06	832	<0.1	<0.02	0.1	0.20	<0.1
121278	Rock	<0.001	<0.5	869.5	14.95	67.1	<0.001	82	0.20	<0.001	<0.01	0.3	10.1	<0.02	<0.02	20	<0.1	0.02	0.3	0.62	0.1
121279	Rock	<0.001	<0.5	308.3	14.85	50.7	<0.001	7	0.05	0.003	0.02	0.2	6.3	<0.02	<0.02	771	<0.1	<0.02	0.2	0.92	<0.1
121280	Rock	0.001	<0.5	675.1	13.15	954.0	<0.001	10	0.19	0.004	0.03	<0.1	7.2	<0.02	0.03	550	<0.1	<0.02	0.5	3.23	<0.1
121281	Rock	<0.001	<0.5	69.6	5.18	20.3	<0.001	5	<0.01	0.001	<0.01	0.3	1.0	<0.02	0.05	210	<0.1	<0.02	<0.1	0.05	<0.1
121282	Rock	0.013	4.4	9.7	0.77	1855	<0.001	8	0.21	0.007	0.08	<0.1	2.6	0.03	0.08	129	<0.1	<0.02	0.5	1.35	<0.1
121283	Rock	0.077	0.9	9.3	0.04	142.4	<0.001	5	0.11	0.002	0.04	<0.1	1.2	0.03	<0.02	82	<0.1	0.02	0.3	0.21	<0.1
121284	Rock	0.026	0.9	233.3	0.45	24.3	0.097	3	2.75	0.009	<0.01	<0.1	1.8	<0.02	<0.02	6	<0.1	<0.02	6.4	<0.02	<0.1
121285	Rock	0.003	1.1	13.4	0.04	187.1	<0.001	1	0.05	0.001	0.02	<0.1	1.9	0.06	<0.02	39	<0.1	<0.02	0.2	0.06	<0.1
121286	Rock	0.006	4.3	5.5	0.05	597.1	<0.001	3	0.65	0.001	0.07	<0.1	2.3	0.03	0.10	34	<0.1	0.03	0.6	0.18	<0.1
121287	Rock	0.046	5.4	8.7	0.20	649.2	0.002	6	0.48	0.011	0.17	<0.1	2.5	0.04	0.06	26	<0.1	0.05	1.9	0.52	<0.1
121288	Rock	0.002	<0.5	838.1	4.84	70.0	0.004	11	0.84	0.016	0.06	<0.1	35.4	<0.02	<0.02	30	<0.1	0.02	1.7	0.71	<0.1
121289	Rock	0.208	23.5	17.1	2.31	442.3	0.004	5	0.93	0.042	0.07	<0.1	6.3	<0.02	0.24	10	<0.1	<0.02	5.2	0.27	<0.1
121290	Rock	0.022	<0.5	7.9	2.45	36.5	0.165	3	4.19	0.018	<0.01	0.1	11.8	<0.02	0.12	9	0.2	<0.02	9.1	0.15	0.1
121291	Rock	0.003	1.1	180.1	11.42	57.9	0.001	7	0.08	0.002	0.02	0.2	5.8	0.03	<0.02	200	<0.1	<0.02	0.3	0.24	<0.1

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1095 - 1920 W. Pender St.
Vancouver BC V6E 2M6 Canada

Project: BEN
Report Date: June 09, 2012

CERTIFICATE OF ANALYSIS VAN12002437.1

Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
121262	Rock	0.10	0.51	2.1	0.3	<0.05	8.5	9.30	89.3	<0.02	<1	0.2	12.7	<10	<2
121263	Rock	0.04	0.03	1.2	0.1	<0.05	1.4	3.35	15.4	<0.02	1	0.1	3.1	<10	<2
121264	Rock	<0.02	<0.02	2.7	<0.1	<0.05	0.4	2.76	0.4	<0.02	<1	0.1	9.2	<10	2
121265	Rock	<0.02	<0.02	2.7	<0.1	<0.05	0.6	3.17	4.8	0.02	<1	0.4	2.3	<10	<2
121266	Rock	<0.02	<0.02	1.6	<0.1	<0.05	0.4	2.53	0.7	<0.02	3	<0.1	0.6	<10	<2
121267	Rock	<0.02	0.03	1.7	<0.1	<0.05	0.4	1.86	2.4	0.03	<1	<0.1	0.7	<10	<2
121268	Rock	0.13	0.03	1.3	0.3	<0.05	5.6	5.73	13.0	0.03	<1	0.4	33.6	<10	<2
121269	Rock	0.20	<0.02	0.5	0.2	<0.05	3.9	7.45	2.5	0.02	<1	0.1	10.9	<10	<2
121270	Rock	0.18	<0.02	0.2	0.1	<0.05	4.5	7.08	2.2	<0.02	2	<0.1	6.5	<10	<2
121271	Rock	<0.02	<0.02	2.1	<0.1	<0.05	0.9	1.05	0.6	<0.02	<1	<0.1	0.3	<10	<2
121272	Rock	<0.02	0.04	1.5	<0.1	<0.05	0.7	3.02	3.1	<0.02	<1	<0.1	0.4	<10	<2
121273	Rock	<0.02	0.02	1.2	<0.1	<0.05	0.4	0.79	1.1	<0.02	<1	<0.1	0.1	<10	<2
121274	Rock	<0.02	<0.02	0.3	<0.1	<0.05	<0.1	0.07	<0.1	<0.02	<1	0.3	2.5	<10	7
121275	Rock	<0.02	<0.02	1.0	<0.1	<0.05	0.2	0.42	0.2	<0.02	<1	<0.1	4.7	<10	3
121276	Rock	<0.02	<0.02	0.4	<0.1	<0.05	0.1	0.10	<0.1	<0.02	<1	0.1	2.5	<10	3
121277	Rock	<0.02	<0.02	0.3	<0.1	<0.05	<0.1	0.07	<0.1	<0.02	<1	0.1	3.6	<10	<2
121278	Rock	<0.02	<0.02	<0.1	<0.1	<0.05	0.1	0.10	<0.1	<0.02	<1	<0.1	73.9	<10	5
121279	Rock	<0.02	<0.02	0.9	<0.1	<0.05	0.1	0.62	0.2	<0.02	<1	<0.1	2.4	<10	3
121280	Rock	<0.02	<0.02	1.1	<0.1	<0.05	<0.1	0.75	0.3	<0.02	<1	<0.1	12.9	<10	4
121281	Rock	<0.02	<0.02	<0.1	<0.1	<0.05	0.2	0.06	<0.1	<0.02	<1	0.1	1.3	<10	<2
121282	Rock	0.04	<0.02	2.7	<0.1	<0.05	1.8	2.02	9.3	<0.02	2	0.1	0.6	<10	<2
121283	Rock	<0.02	0.03	1.2	<0.1	<0.05	1.0	1.03	1.8	<0.02	<1	<0.1	0.3	<10	<2
121284	Rock	0.04	0.02	<0.1	0.1	<0.05	1.4	1.38	1.8	<0.02	<1	0.2	<0.1	<10	3
121285	Rock	0.03	<0.02	0.9	<0.1	<0.05	1.0	1.54	1.8	<0.02	1	<0.1	0.2	<10	<2
121286	Rock	<0.02	0.04	2.6	<0.1	<0.05	1.1	18.86	16.5	<0.02	<1	0.7	4.8	<10	<2
121287	Rock	0.05	0.03	7.0	0.2	<0.05	1.6	3.72	14.8	<0.02	<1	0.2	5.8	<10	<2
121288	Rock	<0.02	<0.02	1.8	<0.1	<0.05	0.4	1.63	0.2	<0.02	2	<0.1	10.9	24	16
121289	Rock	0.07	0.02	1.9	<0.1	<0.05	5.0	7.84	48.6	0.02	<1	0.3	13.7	<10	<2
121290	Rock	0.02	<0.02	<0.1	<0.1	<0.05	0.3	1.53	0.6	<0.02	2	<0.1	3.7	<10	<2
121291	Rock	<0.02	0.04	0.8	<0.1	<0.05	0.7	1.24	1.8	<0.02	<1	<0.1	1.4	<10	4

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Vancouver BC V6E 2M6 Canada

Project: BEN
Report Date: June 09, 2012

CERTIFICATE OF ANALYSIS VAN12002437.1

	Method	WGHT	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
121292	Rock	0.48	0.65	38.34	2.68	18.6	8	37.2	3.2	413	1.07	117.4	<0.1	1.3	0.4	10.9	0.05	13.19	0.05	7	0.05
121293	Rock	0.48	0.14	2.82	0.48	12.6	11	1464	68.2	537	4.14	63.3	<0.1	0.9	<0.1	7.0	0.06	4.54	<0.02	13	0.26
121294	Rock	0.61	0.09	4.31	0.66	19.5	12	1029	62.1	656	3.42	98.0	<0.1	0.3	<0.1	20.9	0.03	0.61	<0.02	10	0.52
121295	Rock	0.70	0.37	42.44	2.40	45.4	32	139.4	27.9	847	3.95	4.2	0.3	0.3	2.9	317.8	0.08	1.33	<0.02	89	5.05
121296	Rock	0.42	0.09	9.38	0.44	6.9	19	899.5	47.6	756	3.93	42.5	<0.1	<0.2	<0.1	106.4	0.05	2.87	<0.02	23	1.62
121297	Rock	0.39	0.05	11.91	0.45	9.9	7	20.3	7.6	221	0.99	0.6	<0.1	0.9	0.9	6.3	0.03	0.04	<0.02	30	2.19
121298	Rock	0.53	0.37	60.28	0.82	9.5	35	874.5	66.2	811	4.66	870.5	<0.1	103.2	<0.1	129.5	0.08	85.66	<0.02	16	1.58
121299	Rock	0.70	0.17	239.0	0.37	6.6	67	278.1	25.4	652	2.57	514.0	<0.1	63.0	<0.1	611.3	0.06	111.5	<0.02	57	9.07
121300	Rock	0.83	0.22	165.4	0.44	10.2	62	503.9	47.0	753	3.62	758.8	<0.1	156.6	<0.1	561.1	0.06	115.3	<0.02	50	6.05
121301	Rock	0.75	0.13	19.49	0.46	11.2	22	892.4	55.7	644	3.88	960.5	<0.1	78.6	<0.1	66.9	0.08	39.61	<0.02	10	0.90
121302	Rock	0.81	0.48	92.20	2.45	90.5	109	168.0	48.1	1260	6.88	68.0	0.3	10.3	2.6	110.2	0.07	30.83	0.02	70	3.37
121303	Rock	0.48	1.73	17.31	0.49	4.1	65	26.0	2.3	96	0.65	51.0	0.2	12.9	0.2	58.1	0.05	31.52	<0.02	5	0.98
121304	Rock	0.59	3.72	163.1	1.01	51.2	81	738.7	120.6	1084	5.55	1620	<0.1	84.7	<0.1	445.7	0.17	544.6	<0.02	48	6.83
121305	Rock	0.48	0.67	204.0	0.32	9.0	72	863.8	65.8	757	3.91	783.0	<0.1	171.8	<0.1	223.7	0.09	126.4	<0.02	63	6.85
121306	Rock	0.57	0.30	102.0	0.38	7.0	44	719.7	54.9	659	3.47	830.9	<0.1	102.0	<0.1	257.6	0.05	75.14	<0.02	24	4.37
121307	Rock	0.60	0.12	50.33	0.26	6.9	20	822.7	51.2	632	3.17	524.0	<0.1	51.3	<0.1	87.3	0.05	102.3	<0.02	10	3.29
121308	Rock	0.76	0.12	14.21	0.09	7.2	18	1235	56.7	545	3.74	36.6	<0.1	2.9	<0.1	108.1	0.02	50.84	0.02	17	1.54
121309	Rock	0.60	2.28	17.90	1.52	11.3	11	17.7	3.3	143	0.81	4.6	0.2	1.6	0.4	26.3	0.04	1.14	0.06	11	1.03
121310	Rock	0.50	0.11	11.95	1.35	18.1	16	1055	71.8	507	3.78	851.6	<0.1	42.0	<0.1	50.2	0.03	114.1	<0.02	11	0.62
121311	Rock	1.06	0.30	29.94	5.30	55.0	40	151.2	26.4	849	3.51	8.1	0.6	2.8	2.7	528.7	0.20	6.96	<0.02	53	10.27
121312	Rock	0.65	0.23	5.00	5.34	81.8	14	27.5	14.4	1734	4.83	3.3	0.1	1.2	0.6	133.7	0.25	1.75	<0.02	65	14.12
121313	Rock	0.75	2.58	43.66	4.70	48.5	87	188.3	14.7	726	2.81	187.0	0.2	<0.2	0.3	1034	0.34	15.93	0.02	26	9.14
121314	Rock	0.46	0.20	7.93	3.91	60.8	56	15.5	19.1	829	3.56	6.5	0.2	<0.2	0.9	288.1	0.21	1.61	<0.02	41	5.52
121315	Rock	0.67	0.13	24.99	1.82	46.8	35	225.9	32.9	784	3.73	8.3	0.3	<0.2	2.5	249.6	0.10	1.76	0.05	47	6.77
121316	Rock	0.64	0.80	9.85	0.32	6.2	7	1832	67.3	735	4.49	865.6	<0.1	<0.2	<0.1	85.2	0.07	5.58	<0.02	22	3.15
121317	Rock	0.80	0.09	8.54	0.61	8.3	11	1508	65.6	800	4.19	42.1	<0.1	<0.2	<0.1	40.8	0.05	2.52	<0.02	29	0.56

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Project: BEN
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CERTIFICATE OF ANALYSIS VAN12002437.1

Method		1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
MDL		0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
121292	Rock	0.018	1.7	7.5	0.05	120.3	0.001	7	0.17	0.004	0.06	<0.1	2.1	0.04	<0.02	130	<0.1	<0.02	0.4	0.48	<0.1
121293	Rock	<0.001	<0.5	398.4	16.25	26.6	<0.001	10	0.04	0.003	0.01	0.2	6.9	<0.02	0.02	398	<0.1	<0.02	0.2	0.83	<0.1
121294	Rock	0.001	<0.5	244.9	15.06	104.5	<0.001	10	0.06	0.004	<0.01	0.2	5.4	<0.02	0.06	177	<0.1	<0.02	0.4	0.57	<0.1
121295	Rock	0.313	37.4	167.2	3.00	1266	0.037	9	1.48	0.078	0.31	<0.1	12.8	0.06	0.10	117	<0.1	<0.02	4.8	7.61	<0.1
121296	Rock	0.002	<0.5	597.6	12.00	90.6	<0.001	14	0.13	0.006	0.04	0.2	7.9	0.02	0.02	1237	<0.1	<0.02	0.5	1.90	<0.1
121297	Rock	0.004	<0.5	22.2	0.90	26.9	0.018	2	2.16	0.049	<0.01	<0.1	3.0	<0.02	<0.02	22	<0.1	<0.02	4.8	0.06	0.1
121298	Rock	0.003	<0.5	758.7	13.92	54.9	<0.001	7	0.03	0.003	0.02	0.7	9.4	0.03	0.13	697	<0.1	0.04	0.2	0.12	<0.1
121299	Rock	0.001	<0.5	608.8	9.26	67.7	<0.001	4	0.06	0.004	0.03	0.7	29.0	0.05	0.26	489	<0.1	0.08	0.1	0.38	<0.1
121300	Rock	0.004	<0.5	813.2	11.72	132.2	<0.001	6	0.06	0.003	0.03	0.7	26.9	0.05	0.39	1675	0.1	0.10	0.2	0.19	<0.1
121301	Rock	0.005	<0.5	590.2	12.04	57.0	<0.001	14	0.02	0.002	0.01	0.7	4.7	0.06	0.66	703	0.2	0.07	0.2	0.12	<0.1
121302	Rock	0.183	31.8	178.3	3.65	202.6	0.008	13	1.20	0.026	0.29	0.1	18.1	0.08	0.04	152	<0.1	<0.02	4.6	3.34	0.1
121303	Rock	0.003	2.2	16.1	0.53	24.4	<0.001	3	0.06	0.001	0.03	<0.1	1.5	<0.02	<0.02	97	0.2	0.03	0.2	0.07	<0.1
121304	Rock	0.006	<0.5	311.2	6.85	116.7	0.001	8	0.14	0.002	0.06	0.4	22.4	0.13	0.03	1149	<0.1	0.03	0.4	0.51	<0.1
121305	Rock	0.004	<0.5	721.5	9.67	55.0	<0.001	10	0.11	0.004	0.05	0.5	31.5	0.06	<0.02	744	<0.1	0.05	0.3	0.68	<0.1
121306	Rock	0.001	<0.5	437.9	11.84	77.7	<0.001	9	0.04	0.003	0.02	0.6	12.8	0.05	0.32	1391	0.1	0.10	0.1	0.22	<0.1
121307	Rock	0.003	<0.5	240.3	11.62	64.1	<0.001	6	0.02	0.002	0.01	0.6	6.1	0.03	0.24	1085	0.2	0.04	0.2	0.17	<0.1
121308	Rock	<0.001	<0.5	657.8	13.97	85.9	<0.001	7	0.07	0.011	0.02	0.1	6.8	<0.02	0.04	744	<0.1	<0.02	0.2	0.66	<0.1
121309	Rock	0.004	1.3	16.5	0.35	40.5	0.008	1	0.29	0.006	0.01	<0.1	1.4	<0.02	<0.02	35	<0.1	0.07	1.5	0.11	<0.1
121310	Rock	<0.001	<0.5	316.4	15.46	41.9	<0.001	9	0.03	0.002	0.02	0.4	6.0	0.05	0.15	7532	<0.1	0.03	0.2	0.31	<0.1
121311	Rock	0.186	17.0	61.9	4.88	1561	0.002	9	0.48	0.020	0.23	<0.1	10.1	0.09	0.05	971	<0.1	<0.02	1.0	4.30	<0.1
121312	Rock	0.008	1.3	5.3	6.27	1899	0.001	2	0.14	0.022	0.05	<0.1	2.7	<0.02	0.02	178	0.1	0.02	0.5	0.30	<0.1
121313	Rock	0.025	1.2	49.4	4.75	770.8	<0.001	5	0.24	0.012	0.10	<0.1	5.6	0.04	0.04	340	0.1	0.06	0.5	1.74	<0.1
121314	Rock	0.103	10.0	8.0	2.46	835.5	0.001	10	0.42	0.028	0.24	<0.1	9.5	0.08	0.16	364	0.1	<0.02	0.9	4.09	<0.1
121315	Rock	0.016	14.4	109.3	5.64	1196	0.001	8	0.42	0.017	0.24	<0.1	12.7	0.12	0.03	1870	<0.1	0.04	0.9	4.50	<0.1
121316	Rock	0.005	0.6	302.8	11.57	214.0	<0.001	7	0.08	0.003	0.02	0.7	7.0	0.11	<0.02	1733	<0.1	0.03	0.5	0.96	<0.1
121317	Rock	0.003	<0.5	462.4	15.50	562.5	<0.001	15	0.07	0.007	0.03	0.1	9.3	0.02	0.04	3445	<0.1	0.02	0.3	1.57	<0.1

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1095 - 1920 W. Pender St.
Vancouver BC V6E 2M6 Canada

Project: BEN
Report Date: June 09, 2012

CERTIFICATE OF ANALYSIS VAN12002437.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
	MDL	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
121292	Rock	0.05	0.02	2.0	<0.1	<0.05	1.9	1.13	3.1	<0.02	<1	<0.1	0.3	<10	<2
121293	Rock	<0.02	<0.02	0.5	<0.1	<0.05	<0.1	0.08	0.2	<0.02	<1	0.2	3.3	<10	7
121294	Rock	<0.02	<0.02	0.3	<0.1	<0.05	<0.1	0.07	0.3	<0.02	<1	0.1	4.2	<10	8
121295	Rock	<0.02	0.11	8.5	0.2	<0.05	2.2	8.55	71.3	0.04	1	0.5	48.1	<10	<2
121296	Rock	<0.02	<0.02	1.1	<0.1	<0.05	0.7	0.86	0.4	<0.02	1	0.2	6.9	<10	4
121297	Rock	0.02	<0.02	0.1	<0.1	<0.05	0.7	1.55	1.0	<0.02	<1	0.3	1.8	<10	2
121298	Rock	<0.02	<0.02	0.7	<0.1	<0.05	0.3	0.63	0.1	<0.02	<1	0.4	2.8	<10	12
121299	Rock	<0.02	<0.02	0.9	<0.1	<0.05	0.2	1.82	0.1	<0.02	<1	0.1	1.4	<10	9
121300	Rock	<0.02	<0.02	1.0	<0.1	<0.05	0.3	1.84	0.2	<0.02	<1	0.2	3.0	<10	8
121301	Rock	<0.02	<0.02	0.4	<0.1	<0.05	0.1	0.26	<0.1	<0.02	<1	0.1	2.5	<10	5
121302	Rock	0.11	0.06	9.1	0.1	<0.05	3.8	10.34	56.0	0.05	<1	0.6	19.6	<10	<2
121303	Rock	0.03	0.04	1.0	<0.1	<0.05	1.8	2.78	1.7	<0.02	<1	<0.1	0.3	<10	<2
121304	Rock	0.06	0.03	1.7	<0.1	<0.05	4.9	2.75	0.6	<0.02	<1	0.2	0.9	<10	5
121305	Rock	<0.02	<0.02	1.5	<0.1	<0.05	0.3	2.15	0.1	<0.02	1	<0.1	2.4	<10	5
121306	Rock	<0.02	<0.02	0.6	<0.1	<0.05	0.2	0.97	0.2	<0.02	<1	<0.1	1.6	15	9
121307	Rock	<0.02	<0.02	0.4	<0.1	<0.05	0.1	0.49	<0.1	<0.02	<1	0.2	1.1	41	24
121308	Rock	<0.02	<0.02	0.8	<0.1	<0.05	0.7	0.39	<0.1	<0.02	<1	0.2	4.2	<10	4
121309	Rock	0.07	0.03	0.4	0.3	<0.05	2.3	1.40	4.1	<0.02	4	<0.1	1.9	<10	<2
121310	Rock	<0.02	<0.02	0.8	<0.1	<0.05	0.5	0.21	<0.1	<0.02	<1	0.2	0.9	<10	4
121311	Rock	0.09	0.04	6.4	<0.1	<0.05	6.9	7.17	31.6	0.03	<1	0.6	1.5	<10	<2
121312	Rock	0.13	0.04	1.3	<0.1	<0.05	6.3	6.07	2.7	<0.02	<1	<0.1	0.4	12	<2
121313	Rock	0.04	<0.02	2.5	<0.1	<0.05	3.7	3.93	2.3	<0.02	2	0.2	1.4	<10	<2
121314	Rock	0.08	<0.02	5.6	<0.1	<0.05	5.3	8.14	20.5	0.03	<1	0.4	0.6	<10	<2
121315	Rock	0.08	0.02	7.9	<0.1	<0.05	5.7	4.62	22.4	0.02	<1	0.4	14.4	<10	<2
121316	Rock	<0.02	0.03	0.7	<0.1	<0.05	0.5	1.04	0.8	<0.02	<1	0.4	4.2	<10	5
121317	Rock	<0.02	<0.02	1.1	<0.1	<0.05	<0.1	0.43	<0.1	<0.02	<1	0.2	3.0	<10	6

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Project: BEN
Report Date: June 09, 2012

QUALITY CONTROL REPORT VAN12002437.1

	Method	WGHT	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
Pulp Duplicates																					
121283	Rock	0.21	0.42	15.14	2.04	21.1	6	34.3	5.2	554	0.88	66.0	<0.1	0.7	0.2	23.4	0.10	11.65	<0.02	6	0.17
REP 121283	QC		0.45	14.66	2.05	21.3	5	33.8	5.0	553	0.89	66.4	<0.1	0.3	0.2	22.8	0.11	11.59	<0.02	5	0.17
121295	Rock	0.70	0.37	42.44	2.40	45.4	32	139.4	27.9	847	3.95	4.2	0.3	0.3	2.9	317.8	0.08	1.33	<0.02	89	5.05
REP 121295	QC		0.43	41.80	2.36	44.8	30	141.9	27.8	845	4.02	4.5	0.3	<0.2	3.0	313.6	0.08	1.30	<0.02	90	5.15
Core Reject Duplicates																					
121289	Rock	0.60	5.27	11.55	8.97	51.6	84	32.0	12.9	698	2.76	0.9	0.8	<0.2	2.5	110.9	0.14	0.35	0.07	57	3.64
DUP 121289	QC		3.54	11.92	9.38	54.9	72	32.5	14.5	723	2.92	1.3	0.9	<0.2	2.5	113.4	0.12	0.34	0.07	60	3.51
Reference Materials																					
STD DS8	Standard		12.67	107.6	123.2	307.5	1872	38.3	7.2	586	2.44	24.7	2.6	121.3	6.4	60.8	2.30	5.34	6.46	41	0.68
STD DS8	Standard		13.39	104.5	111.1	316.7	1794	39.1	8.0	602	2.40	24.9	2.2	127.1	5.6	55.9	2.27	3.91	5.85	40	0.68
STD DS9	Standard		10.94	103.3	124.8	310.3	1828	38.4	6.9	534	2.25	24.9	2.4	115.7	5.7	63.0	2.31	5.32	6.53	38	0.66
STD DS9	Standard		11.86	103.7	105.7	312.2	1789	38.8	7.4	561	2.32	24.5	2.1	108.0	5.0	57.9	2.26	3.71	5.78	39	0.69
STD DS8 Expected			13.44	110	123	312	1690	38.1	7.5	615	2.46	26	2.8	107	6.89	67.7	2.38	5.7	6.67	41.1	0.7
STD DS9 Expected			12.84	108	126	317	1830	40.3	7.6	575	2.33	25.5	2.69	118	6.38	69.6	2.4	4.94	6.32	40	0.7201
BLK	Blank		<0.01	<0.01	<0.01	<0.1	2	<0.1	<0.1	<1	<0.01	0.4	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
BLK	Blank		<0.01	0.06	<0.01	<0.1	<2	0.7	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01
Prep Wash																					
G1	Prep Blank	<0.01	0.10	2.37	5.98	44.7	29	2.8	3.6	518	1.81	0.8	1.4	5.2	4.9	61.5	0.02	0.02	0.06	34	0.50
G1	Prep Blank	<0.01	0.12	2.29	6.52	42.7	47	2.3	3.6	498	1.79	0.6	1.5	0.8	5.5	63.8	0.03	0.02	0.05	33	0.54

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Project: BEN
Report Date: June 09, 2012

QUALITY CONTROL REPORT VAN12002437.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm
	MDL	0.001	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1
Pulp Duplicates																					
121283	Rock	0.077	0.9	9.3	0.04	142.4	<0.001	5	0.11	0.002	0.04	<0.1	1.2	0.03	<0.02	82	<0.1	0.02	0.3	0.21	<0.1
REP 121283	QC	0.074	0.9	9.5	0.04	143.4	<0.001	6	0.11	0.002	0.04	<0.1	1.2	0.03	<0.02	70	<0.1	0.03	0.4	0.21	<0.1
121295	Rock	0.313	37.4	167.2	3.00	1266	0.037	9	1.48	0.078	0.31	<0.1	12.8	0.06	0.10	117	<0.1	<0.02	4.8	7.61	<0.1
REP 121295	QC	0.308	37.2	168.4	3.09	1184	0.037	8	1.47	0.079	0.31	<0.1	13.3	0.08	0.10	127	<0.1	0.03	4.8	7.67	<0.1
Core Reject Duplicates																					
121289	Rock	0.208	23.5	17.1	2.31	442.3	0.004	5	0.93	0.042	0.07	<0.1	6.3	<0.02	0.24	10	<0.1	<0.02	5.2	0.27	<0.1
DUP 121289	QC	0.209	23.5	22.5	2.29	353.2	0.004	6	1.00	0.046	0.07	<0.1	6.4	<0.02	0.31	15	<0.1	<0.02	5.5	0.25	<0.1
Reference Materials																					
STD DS8	Standard	0.077	14.0	120.4	0.59	275.1	0.107	2	0.92	0.089	0.41	3.1	2.4	5.60	0.16	194	5.4	4.93	4.5	2.44	<0.1
STD DS8	Standard	0.079	14.8	125.3	0.56	287.5	0.100	3	0.90	0.084	0.40	2.9	2.7	5.38	0.16	195	4.9	4.75	4.7	2.46	0.1
STD DS9	Standard	0.080	11.1	119.1	0.59	282.4	0.096	2	0.89	0.077	0.38	2.9	2.2	5.58	0.15	207	5.0	4.87	4.2	2.34	<0.1
STD DS9	Standard	0.075	12.4	121.1	0.61	291.7	0.091	2	0.92	0.079	0.39	2.9	2.6	5.10	0.16	225	4.3	4.74	4.4	2.38	<0.1
STD DS8 Expected		0.08	14.6	115	0.6045	279	0.113	2.6	0.93	0.0883	0.41	3	2.3	5.4	0.1679	192	5.23	5	4.7	2.48	0.13
STD DS9 Expected		0.0819	13.3	121	0.6165	295	0.1108		0.9577	0.0853	0.395	2.89	2.5	5.3	0.1615	200	5.2	5.02	4.59	2.37	0.1
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1
BLK	Blank	<0.001	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1
Prep Wash																					
G1	Prep Blank	0.071	10.9	7.0	0.51	167.3	0.109	<1	0.95	0.100	0.47	<0.1	2.5	0.27	<0.02	<5	<0.1	<0.02	4.5	2.80	0.1
G1	Prep Blank	0.070	12.1	6.9	0.50	168.4	0.110	<1	0.94	0.105	0.47	<0.1	2.4	0.34	<0.02	<5	<0.1	<0.02	4.5	2.67	<0.1

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QUALITY CONTROL REPORT VAN12002437.1

	Method	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15	1F15
	Analyte	Hf	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
	MDL	0.02	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates															
121283	Rock	<0.02	0.03	1.2	<0.1	<0.05	1.0	1.03	1.8	<0.02	<1	<0.1	0.3	<10	<2
REP 121283	QC	<0.02	0.04	1.1	<0.1	<0.05	1.1	1.04	1.8	<0.02	<1	<0.1	0.3	<10	<2
121295	Rock	<0.02	0.11	8.5	0.2	<0.05	2.2	8.55	71.3	0.04	1	0.5	48.1	<10	<2
REP 121295	QC	<0.02	0.12	8.7	0.2	<0.05	2.1	8.86	70.8	0.03	<1	0.4	52.2	<10	<2
Core Reject Duplicates															
121289	Rock	0.07	0.02	1.9	<0.1	<0.05	5.0	7.84	48.6	0.02	<1	0.3	13.7	<10	<2
DUP 121289	QC	0.10	0.02	1.8	0.1	<0.05	6.2	8.24	49.7	0.02	1	0.2	13.8	<10	<2
Reference Materials															
STD DS8	Standard	0.09	1.25	36.8	6.0	<0.05	1.9	5.93	26.6	2.13	69	5.0	25.8	112	370
STD DS8	Standard	0.13	1.20	35.1	6.4	<0.05	2.4	5.91	24.1	2.10	64	5.3	26.5	125	338
STD DS9	Standard	0.07	1.05	32.1	6.1	<0.05	1.7	5.46	21.7	2.16	63	4.6	24.5	111	363
STD DS9	Standard	0.09	1.08	32.2	6.7	<0.05	2.4	5.51	19.7	2.04	54	5.6	24.9	117	353
STD DS8 Expected		0.08	1.65	39	6.7	0.003	2.3	6.1	29.8	2.19	55	5.2	26.34	110	339
STD DS9 Expected		0.08	1.33	33.8	6.4	0.004	2	5.97	25.4	2.2	61	5.4	25.2	120	350
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
Prep Wash															
G1	Prep Blank	0.07	0.56	40.6	0.4	<0.05	1.1	5.30	21.2	<0.02	<1	0.2	28.1	<10	<2
G1	Prep Blank	0.08	0.62	40.1	0.5	<0.05	1.2	5.45	22.8	<0.02	<1	0.2	27.7	<10	<2

Appendix D:
Analytical Procedures

QUALITY CONTROL: DEFINITIONS AND GUIDELINES FOR INTERPRETATION

Acme Analytical Laboratories core product is analytical data. Therefore Acme has invested heavily into proprietary software and professional staff to ensure we produce the highest quality data. Acme uses a detailed and comprehensive quality system to minimize errors and maximize the reliability of our analytical results. This system applies a tiered approach to the application of quality systems in our laboratories. These tiers are layered in the following manner;

1. ISO 9001 and 17025 documentation, training and standard operating procedures. This forms the framework of the application of each specific method in the laboratory.
2. The use of instrument calibration standards. These solutions are analyzed before any other solutions to establish the factors required to convert raw instrument data into concentration values.
3. QC validation solutions. These solutions are analyzed with client samples to validate each run and to confirm that each analytical run has been performed correctly. These are typically inserted immediately before and immediately after client sample solutions.
4. Reference materials, replicates and blanks. These samples are inserted into randomly assigned positions within each rack as generated by our proprietary LIMS system so that they are analyzed with the client solutions. Their purpose is to provide a final verification of the entire sample handling process. These samples are made up of the following categories:
    - Sample preparation blank;
    - Sample preparation replicate;
    - Analytical blank;
    - Analytical replicate;
    - Certified Reference Material (CRM);
    - Internal Reference Material (IRM).
5. Data review and validation. This is the final layer that is made up of sophisticated proprietary software and professional personnel reviewing the data. The following steps are applied;
    a. Software validation. Proprietary software is used to review the data for specific problems and to perform a series of rational checks upon the data. Data values are flagged and given specific colors, red for fail and amber for warning. Operators must take action on failures and log their actions.
    b. Rack level validation is performed by the instrument operator that analyzed the samples. At Acme, this person is a Chemist or other person with substantial and equivalent experience. This can only occur when the data has passed the software validation. The operator reviews the rack QC and validates the rack of samples if all QC samples pass.
    c. Method level validation. This validation is performed by the senior department Chemist. This review examines all racks analyzed by a specific method. Its purpose is to identify any trends or unusual results that are not apparent when only looking at a single rack of data.
    d. Final Job validation. This is performed by a Certified Assayer or equivalent senior person. This person has access to all the data from multiple analytical methods to check and compare. This is the person that ultimately signs the final certificate.

This document provides a detailed description of Acme's application of Reference materials, Replicates and Blanks.

The Use of Analytical Blanks and Preparation Blanks

Acme uses two types of blanks in the sample analysis stream for drill and rock samples. The first is a preparation blank that is collected from the cleaning sand or rock used between each and every job to clean the crushing and pulverizing equipment prior to starting another client's samples. It also separates different jobs from the same client that may have been separated due to large differences in composition or grade. This blank appears as the first sample in each job, with results reported in the QC section of the certificate under the heading Prep Wash. The analytical results from this blank are used to monitor contamination during the preparation process. The second blank is an analytical blank which is inserted during analysis to monitor reagent contamination and is reported in the QC section of the certificate as BLK.

If the Client chooses to insert blank material, they must be previously certified by a minimum of 4 ISO 9001 accredited laboratories. The nominal maximum value for acceptance will be up to 1% of the preceding sample up to a maximum of 15ppb (preceding sample of 1,500ppb). For preceding samples above this range, additional cleaning rock must be run through equipment prior to these samples and repeat analysis will be at the cost of the client. In some cases, higher rates of contamination can occur. This is typically due to mineral types that contain higher levels of water of hydration (clay minerals). Our operators are trained to recognize this and use cleaning sand between such samples. Since this additional cleaning step carries an added cost, we do our best to contact the client to confirm these actions.

The Use of Replicates

Acme uses analytical and preparation replicates on drill samples to track reproducibility of the analytical and preparation processes. Data for both types of replicates is provided with each certificate at no charge. Replicate precision varies with concentration from 100% or greater error at or near the detection limit for the method, down to the method precision at concentrations greater than 10 times the detection limit.

If clients choose to submit blind replicates please note that replicates on drill samples may not meet the same reproducibility criteria as CRM's/IRM's because the drill samples may not be as homogeneous as an aggressively prepared and mixed standard.

The presence of native gold can also cause serious reproducibility problems. Where the presence of coarse gold is suspected, the parties should discuss more appropriate analytical and preparation techniques that can mitigate these problems.

The Use of Certified Standard Reference Materials (CRM's)

Acme uses CRM's whenever possible to track analytical accuracy and precision for each method. If a CRM is not available or of such high cost that they are not practical, Acme uses internal reference materials (IRM's) that are either synthetically made or certified by performing round robin analyses by several laboratories. If an IRM is used, Acme routinely validates their concentrations using CRM's when they are available.

For concentrations above 10 times the detection limit expected geochemical exploration sample precision is 15% for methods such as 1D and 1E. Ore grade expected precision is 7% at levels greater than 10 times the detection limit for methods such as 7AR and 7TD. Exact precision is method, element and standard quality dependent, so acceptance criteria for individual standard and method combinations are determined on a minimum of 30 replicates measured during the course of routine analyses at a single laboratory. It should be noted that the expected precision for gold in methods such as Group 3 and Group 6 are difficult to predict due to the heterogeneous distribution of gold in many materials.

Client Field Replicates

Field replicate precision is a measure of the sampling process and natural variability within the sample media; they are not suited for determining analytical precision.

Client's Use of Blind or Hidden Internal Standards

Acme encourages and strongly recommends the use of blind client standards and we recognize that their use is an important component of project data evaluation and acceptance. It is Acme's policy to reanalyze any sample batch that contains a failed customer standard, free of charge, under the following conditions;

- The client supplies Acme with the certification documentation for the standard or proof of certification parameters such as, but not limited to; method of analysis, number of participating laboratories, range of data in the round robin.
- Standards must come from an accredited manufacturer such as CANMET, CDN Labs, Ore Research, Rocklabs or WCM. Certification criteria/method of analysis should be considered before determining if a standard is applicable to a method.
- The analytical result falls outside 3 standard deviations of a population of no less than 30 values determined using a single analytical method (good laboratory practice indicates that 1 value between 2 and 3 SD's is acceptable, while 2 consecutive values will call for reanalysis. In the above description, Acme refers to the standard deviation of values determined over the course of these minimum 30 routine analytical measurements at a single lab, and not the value quoted in the certification sheet for the standard. This definition includes error associated with both the analytical technique, as well as error in the certified value, and is therefore a robust measure of a CRMs performance under a particular set of analytical conditions. In addition, individual standard values that fall outside 3 standard deviations but still lie within the certified error of the material will not be considered to have failed QC validation and costs for requested repeat analyses will be borne by client.
- The failed standard is brought to our attention within 90 days of the initial reporting of the analytical results.

If the reanalysis of a batch or rack is requested by the client due to a Standard failure and the only analytical result that changes significantly is the result for the Standard, the client will be charged for the reanalysis of the rack or batch as this indicates heterogeneity of the Standard itself. In addition, if both samples AND standards are unchanged upon reanalysis, the client will bear the cost of said reanalysis.

Some additional considerations should be noted;

- Variability of a standard material is additive to the analytical method error. Therefore, a poorly prepared standard will increase the total standard deviation realized.
- Selection of an appropriate standard that is both mineralogically and compositionally similar to the samples it is to be analyzed with is of critical importance.
    - If the standard has a different matrix then it would not be unusual if the only sample failing the performance criteria is the standard itself.
    - If the standard has a concentration that is not in a useful concentration range, then unexpected results can occur. For instance, if the concentration of the standard is too high, the laboratory may consistently reanalyze this standard under the assumption that the result is highly anomalous and therefore requires another check. This will waste money and time.

Determination of Method Confidence Limits to be Used for Pass/Fail Criteria

When referring to the Standard Certificate, neither the 95% confidence interval nor the standard deviation quoted in the certificate should be used to calculate control limits or to fail a batch of samples. The 95% confidence interval (normally appearing on the front page of a certificate) is a measure of the certainty of the accuracy of the recommended value. It does not relate to the expected precision during routine use. In addition, it does not account for variations controlled by the limitations imposed by a particular digestion method.

The control limits used to determine the passing or failing of batch data should be calculated from the data that is generated by the laboratory itself (see section "Client use of Blind or Hidden Internal Standards" above for details). Each laboratory provides Standards analyzed with each batch, for this purpose.

Whenever possible, the client should discuss their quality program with the laboratory prior to the start of the project. In this way, any difference in interpretation may be discussed and agreed to in advance.

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METHOD SPECIFICATIONS
GENERAL SAMPLE PREPARATION METHODS

Receiving: Samples arrive via courier, post or by client drop-off; shipment inspected for completeness.

Sorting and Inspection: Samples sorted and inspected for quality of use (quantity and condition). Pulp samples inspected for homogeneity and fineness.

SOILS

SS80, S230, SSXX Drying and Sieving: Wet or damp soil samples are dried at 60°C (Air dried or 40°C if specified by the client). Soil and sediment sieved to -80 mesh (SS80) or -230 mesh (S230), unless client specifies otherwise (SSXX). Sieves cleaned by brush and compressed air between samples.

SP100, SCP100 Pulverizing: Soils are pulverized to -100 mesh ASTM with an option of using a mild-steel pulverizer (SP100) or a ceramic pulverizer (SCP100), per 100g.

ROCKS AND DRILL CORE

R200-250, R200-500, R200-1000: Rock and Drill Core crushed to 80% passing 10 mesh (2 mm), homogenized, riffle split (250g, 500g, or 1000g subsample) and pulverized to 85% passing 200 mesh (75 microns). Crusher and pulverizer are cleaned by brush and compressed air between routine samples. Granite/Quartz wash scours equipment after high-grade samples, between changes in rock colour and at end of each file. Granite/Quartz is crushed and pulverized as first sample in sequence and carried through to analysis.

P200, PSCB: Samples requiring pulverizing only are dried at 60°C and pulverized to 85% passing 200 mesh (75 microns), using a mild-steel pulverizer (P200), per 250g or a ceramic pulverizer (PSCB), per 100g.

M150, M200s: Rock and Drill Core are crushed, pulverized and sieved, save +150 and -150 mesh fractions (M150) or +200 and -200 mesh fractions (M200) for metallic Au or Cu analysis. Typically 500g samples are sieved.

HPUL: Rock and Drill Core are pulverized by using a mortar and pestle.

VEGETATION

PM1: Plant material is dried then milled to 1mm

VA475: Up to 0.1 kg of wet vegetation is ashed by heating to 475°C.

WWSH: Plant samples are washed with Type-1 water then dried at 60°C prior to analysis, per 100g.

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METHOD SPECIFICATIONS

GROUP 1D AND 1F – GEOCHEMICAL AQUA REGIA DIGESTION

Package Codes:	**1D01 to 1D03, 1DX1 to 1DX3, 1F01 to 1F07**
Sample Digestion:	**HNO3-HCl acid digestion**
Instrumentation Method:	**ICP-ES (1D), ICP-MS (1DX, 1F)**
Applicability:	**Sediment, Soil, Non-mineralized Rock and Drill Core**

Method Description:

Prepared sample is digested with a modified Aqua Regia solution of equal parts concentrated HCl, HNO3 and DI H2O for one hour in a heating block of hot water bath. Sample is made up to volume with dilute HCl. Sample splits of 0.5g, 15g or 30g can be analyzed.

For 1F07, Lead isotopes (Pb_{204}, Pb_{206}, Pb_{207}, Pb_{208}) are suitable for geochemical exploration of U and other commodities where gross differences in natural to radiogenic Pb ratios, is a benefit. Isotope values can be reported in both concentrations and intensities. Sample splits of 0.25g, 0.5g, 15g or 30g can be analyzed.

Element	Group 1D Detection	Group 1DX Detection	Group 1F Detection	Upper Limit
Ag	0.3 ppm	0.1 ppm	2 ppb	100 ppm
Al*	0.01%	0.01%	0.01%	10%
As	2 ppm	0.5 ppm	0.1 ppm	10000 ppm
Au	2 ppm	0.5 ppb	0.2 ppb	100 ppm
B*^	20 ppm	20 ppm	20 ppm	2000 ppm
Ba*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Bi	3 ppm	0.1 ppm	0.02 ppm	2000 ppm
Ca*	0.01%	0.01%	0.01%	40%
Cd	0.5 ppm	0.1 ppm	0.01 ppm	2000 ppm
Co	1 ppm	0.1 ppm	0.1 ppm	2000 ppm
Cr*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Cu	1 ppm	0.1 ppm	0.01 ppm	10000 ppm
Fe*	0.01%	0.01%	0.01%	40%
Ga*	-	1 ppm	0.1 ppm	1000 ppm
Hg	1 ppm	0.01 ppm	5 ppb	50 ppm
K*	0.01%	0.01%	0.01%	10%
La*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Mg*	0.01%	0.01%	0.01%	30%
Mn*	2 ppm	1 ppm	1 ppm	10000 ppm
Mo	1 ppm	0.1 ppm	0.01 ppm	2000 ppm

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Element	Group 1D Detection	Group 1DX Detection	Group 1F Detection	Upper Limit
Na*	0.01%	0.001%	0.001%	5%
Ni	1 ppm	0.1 ppm	0.1 ppm	10000 ppm
P*	0.001%	0.001%	0.001%	5%
Pb	3 ppm	0.1 ppm	0.01 ppm	10000 ppm
S	0.05%	0.05%	0.02%	10%
Sb	3 ppm	0.1 ppm	0.02 ppm	2000 ppm
Sc	-	0.1 ppm	0.1 ppm	100 ppm
Se	-	0.5 ppm	0.1 ppm	100 ppm
Sr*	1 ppm	1 ppm	0.5 ppm	10000 ppm
Te	-	0.2 ppm	0.02 ppm	1000 ppm
Th*	2 ppm	0.1 ppm	0.1 ppm	2000 ppm
Ti*	0.01%	0.001%	0.001%	5%
Tl	5 ppm	0.1 ppm	0.02 ppm	1000 ppm
U*	8 ppm	0.1 ppm	0.05 ppm	2000 ppm
V*	1 ppm	2 ppm	2 ppm	10000 ppm
W*	2 ppm	0.1 ppm	0.05 ppm	100 ppm
Zn	1 ppm	1 ppm	0.1 ppm	10000 ppm
Be*	-	-	0.1 ppm	1000 ppm
Ce*	-	-	0.1 ppm	2000 ppm
Cs*	-	-	0.02 ppm	2000 ppm
Ge*	-	-	0.1 ppm	100 ppm
Hf*	-	-	0.02 ppm	1000 ppm
In	-	-	0.02 ppm	1000 ppm
Li*	-	-	0.1 ppm	2000 ppm
Nb*	-	-	0.02 ppm	2000 ppm
Rb*	-	-	0.1 ppm	2000 ppm
Re	-	-	1 ppb	1000 ppb
Sn*	-	-	0.1 ppm	100 ppm
Ta*	-	-	0.05 ppm	2000 ppm
Y*	-	-	0.01 ppm	2000 ppm
Zr*	-	-	0.1 ppm	2000 ppm
Pt*	-	-	2 ppb	100 ppm
Pd*	-	-	10 ppb	100 ppm
Pb_{204}	-	-	0.01 ppm	10000 ppm
Pb_{206}	-	-	0.01 ppm	10000 ppm
Pb_{207}	-	-	0.01 ppm	10000 ppm
Pb_{208}	-	-	0.01 ppm	10000 ppm

* Solubility of some elements will be limited by mineral species present.
^Detection limit = 1 ppm for 15g / 30g analysis.

Limitations:

Au solubility can be limited by refractory and graphitic samples.

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CERTIFICATE OF ANALYSIS

DS9

Internal Reference Material for Geochem Aqua Regia Digestion

ELEMENT	Expected Value (ppm)	1D Tolerance ± (%)	1DX Tolerance ± (%)	1F Tolerance ± (%)
Au	**0.118**	BDL	90	65
Ag	**1.83**	35	30	23
Al	**9577**	15	15	15
As	**25.5**	20	20	20
B	**-**	-	-	-
Ba†	**330 / 295**	15	15	15
Bi	**6.32**	50	30	30
Ca	**7201**	15	15	15
Cd	**2.4**	35	25	20
Co	**7.6**	50	20	18
Cr	**121**	15	15	15
Cu	**108**	20	15	15
Fe	**23300**	11	11	11
Ga	**4.59**	BDL	20	20
Hg	**0.2**	BDL	45	35
K	**3950**	15	15	15
La	**13.3**	30	30	30
Mg	**6165**	12	12	12
Mn	**575**	15	15	15
Mo	**12.84**	25	25	25
Na	**853**	20	20	20
Ni	**40.3**	15	15	15
P	**819**	15	15	15
Pb	**126**	17	17	17
S	**1615**	15	15	15
Sb	**4.94**	85	40	30
Sc	**2.5**	BDL	24	23
Se	**5.2**	-	30	18
Sr	**69.6**	30	30	30
Te	**5.02**	-	20	17
Th	**6.38**	35	26	26
Ti	**1108**	30	28	26
Tl	**5.3**	BDL	20	20
U	**2.69**	-	35	30
V	**40**	15	15	15
W	**2.89**	175	30	26
Zn	**317**	15	15	13

ELEMENT	Expected Value	1F Tolerance ± (%)
Optional Elements		
Be	**5.4**	22
Ce	**25.4**	30
Cs	**2.37**	17
Ge	**0.1**	125
Hf	**0.08**	45
In	**2.2**	20
Li	**25.2**	21
Nb†	**0.96 / 1.33**	30
Rb	**33.8**	16
Re	**0.061**	40
Sn	**6.4**	25
Ta	**0.004**	BDL
Y	**5.97**	30
Zr	**2**	30
Pt	**0.35**	20
Pd	**0.12**	30
Dy	**1.1**	31
Er	**0.6**	31
Eu	**0.36**	38
Gd	**1.4**	36
Ho	**0.2**	35
Lu	**0.09**	60
Nd	**10**	28
Pr	**2.72**	28
Sm	**1.74**	31
Tb	**0.18**	37
Tm	**0.8**	55
Yb	**0.61**	30

Note: All units are reported in ppm. Values are subject to change upon additional testing. Any one element in a run reporting outside tolerance limits does not constitute failure of the standard.

† Values dependent on sample size selected. First number represents mean for 0.5g digestions, second number for 15 and 30g digestions.

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ISO 9001:2008
FM 63007

CERTIFICATE OF ANALYSIS

DS8

Internal Reference Material for Geochem Aqua Regia Digestion

ELEMENT	Expected Value (ppm)	1D Tolerance ± (%)	1DX Tolerance ± (%)	1F Tolerance ± (%)
Au	0.107	BDL	28	27
Ag	1.69	46	27	15
Al	9300	17	17	17
As	26	25	19	16
B	2.6	BDL	167/BDL	167/BDL
Ba	279	15	15	15
Bi	6.67	100	18	16
Ca	7000	18	18	18
Cd	2.38	52	23	16
Co	7.5	37	18	18
Cr	115	17	17	17
Cu	110	15	15	15
Fe	24600	16	16	16
Ga	4.7	95	58	19
Hg	0.192	BDL	25	20
K	4100	20	20	20
La	14.6	36	36	29
Mg	6045	18	18	18
Mn	615	16	15	15
Mo	13.44	25	16	15
Na	883	33	27	27
Ni	38.1	16	16	16
P	800	18	18	18
Pb	123	15	15	15
S	1679	15	15	15
Sb	4.8 – 5.7†	135	23	20
Sc	2.3	BDL	50	40
Se	5.23	-	34	19
Sr	67.7	20	20	20
Te	5	-	60	16
Th	6.89	68	18	18
Ti	1130	28	20	20
Tl	5.4	195	19	16
U	2.8	BDL	22	19
V	41.1	25	25	25
W	3	143	22	18
Zn	312	15	15	15

ELEMENT	Expected Value	1F Tolerance ± (%)
Optional Elements		
Be	5.2	25
Ce	29.8	27
Cs	2.48	17
Ge	0.13	169
Hf	0.08	65
In	2.19	17
Li	26.34	21
Nb	1.1 - 1.6†	41
Rb	38.97	16
Re	0.055	30
Sn	6.7	18
Ta	0.01	BDL
Y	6.1	24
Zr	2.1 – 2.3†	24
Pt	0.339	16
Pd	0.110	33
Dy	1.05	31
Er	0.57	31
Eu	0.31	38
Gd	1.29	36
Ho	0.2	35
Lu	0.09	60
Nd	10.6	28
Pr	2.87	28
Sm	1.65	31
Tb	0.18	37
Tm	0.08	65
Yb	0.57	29

Note: All units are reported in ppm. Values are subject to change upon additional testing. Any one element in a run reporting outside tolerance limits does not constitute failure of the standard.

† Values dependent on sample size selected. First number represents mean for 0.5g digestions, second number for 15 and 30g digestions.

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DS8 COA 2.1 First Issued: November 15, 2010 Revision Date of this Certificate: January 7, 2011

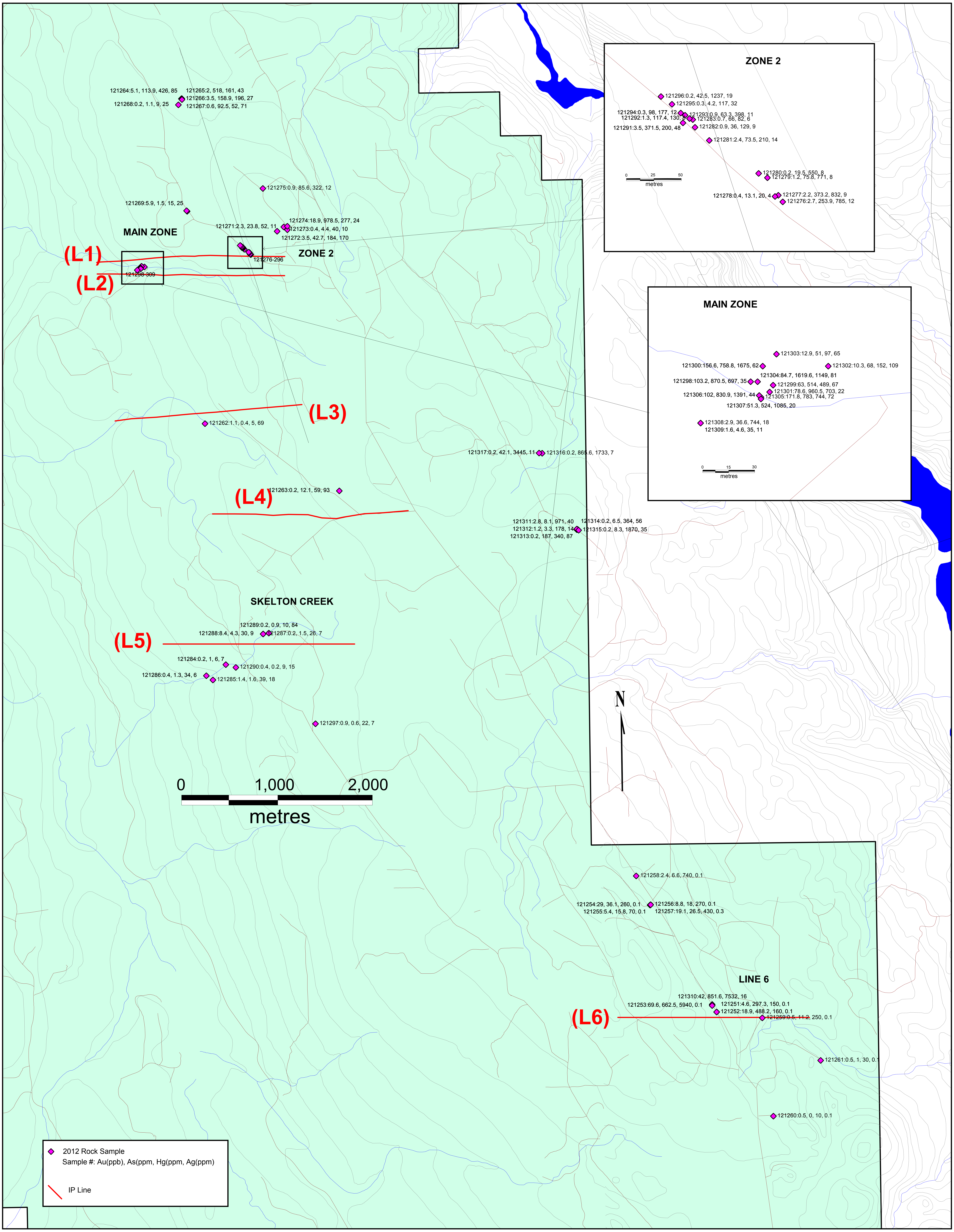

Figure 16: Rock Samples (Gold, Arsenic, Mercury and Silver)