

**BC Geological Survey  
Assessment Report  
32499**

Report on the

**Whipsaw Creek Property**

**Soil Sampling**

Similkameen Mining Division

N.T.S. 92H/07

Latitude 49 16' N, Longitude 120 45' W

for

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## SUMMARY

The Whipsaw Creek property comprises approximately 3,983.21 ha (9,842.68 acres) along Whipsaw Creek, located approximately 28 km southwest of Princeton, BC and 17.6 km west-southwest of the Copper Mountain mine. The property lies immediately east of Manning Park on mapsheets 092H/07 (BCGS TRIM map 092H027 and 037) in the Similkameen Mining Division. The centre of the property is at approximately Latitude 49° 16' N, Longitude 120° 45' W (approximate UTM coordinates 664000 E, 5461000 N). Access to the property is available along the moderately well maintained Whipsaw Creek FSR from Highway 3, approximately 13 km west of Princeton.

In general, the western third of the property is underlain by the Eagle tonalite, comprising part of the Eagle Plutonic Complex, the central third by strata of the Eastgate-Whipsaw Metamorphic Belt and the eastern third by mixed volcanoclastics correlated to the Nicola Group (Massey et al. 2009). The Eastgate-Whipsaw Metamorphic Belt consists of metamorphosed sedimentary and volcanic strata, interpreted to be of Permian or Triassic age, subsequently overlain by mixed volcanoclastics of the Middle to Upper Triassic Nicola Group. These strata were then intruded by the Eagle tonalite, correlated to the Jurassic to Cretaceous Eagle Plutonic Complex.

In preparation for the 2011 program, Corvid Consulting of Princeton, BC was retained to obtain accurate GPS coordinates for many of the important features on the property, including, but not limited to, previous drill collar locations, adits, high grade rock sample locations, geographic features, etc. Data were acquired using a Real Time Kinematic (RTK) GPS.

In addition, during the summer of 2011, Dynamic Exploration Ltd and MCM Consulting completed a small soil sampling program on the south side of Whipsaw Creek. A total of 148 soil samples were recovered. The samples were submitted to Acme Analytical Laboratories Ltd. for processing using SS80 preparation and 36 element Group 1DX2 - 15g (ICP) analysis.

Finally, limited physical work was undertaken to re-open and re-establish access to previous drill sites, trenches and old workings.

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## 1.0 INTRODUCTION

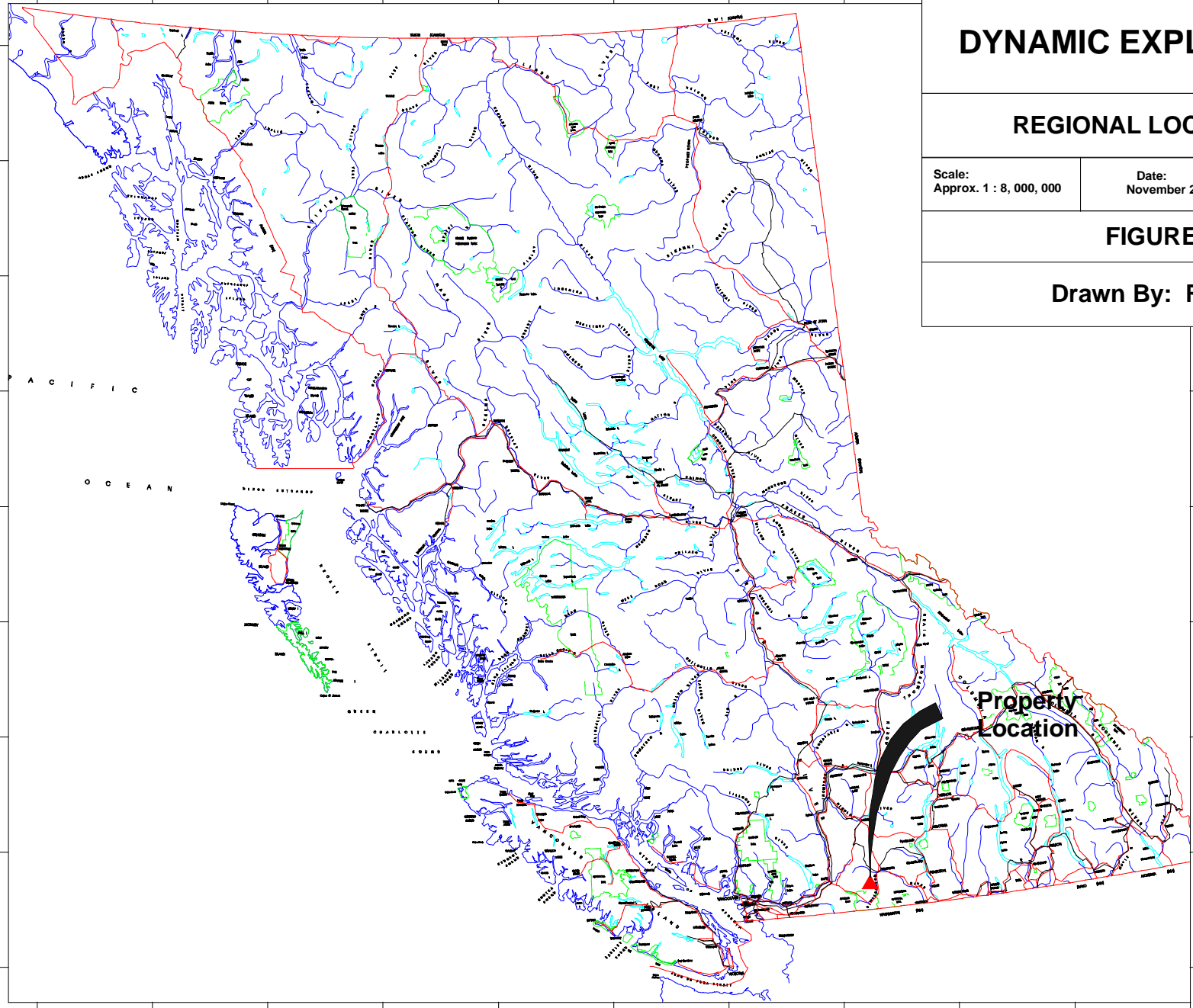
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# DYNAMIC EXPLORATION LTD

## REGIONAL LOCATION MAP

Scale:  
Approx. 1 : 8, 000, 000

Date:  
November 2011

Mapsheet:  
N.T.S. 92H / 02E & 07E  
BCGS: 092H 027

### FIGURE 1

Drawn By: Rick Walker

# DYNAMIC EXPLORATION LTD

## PROPERTY LOCATION MAP

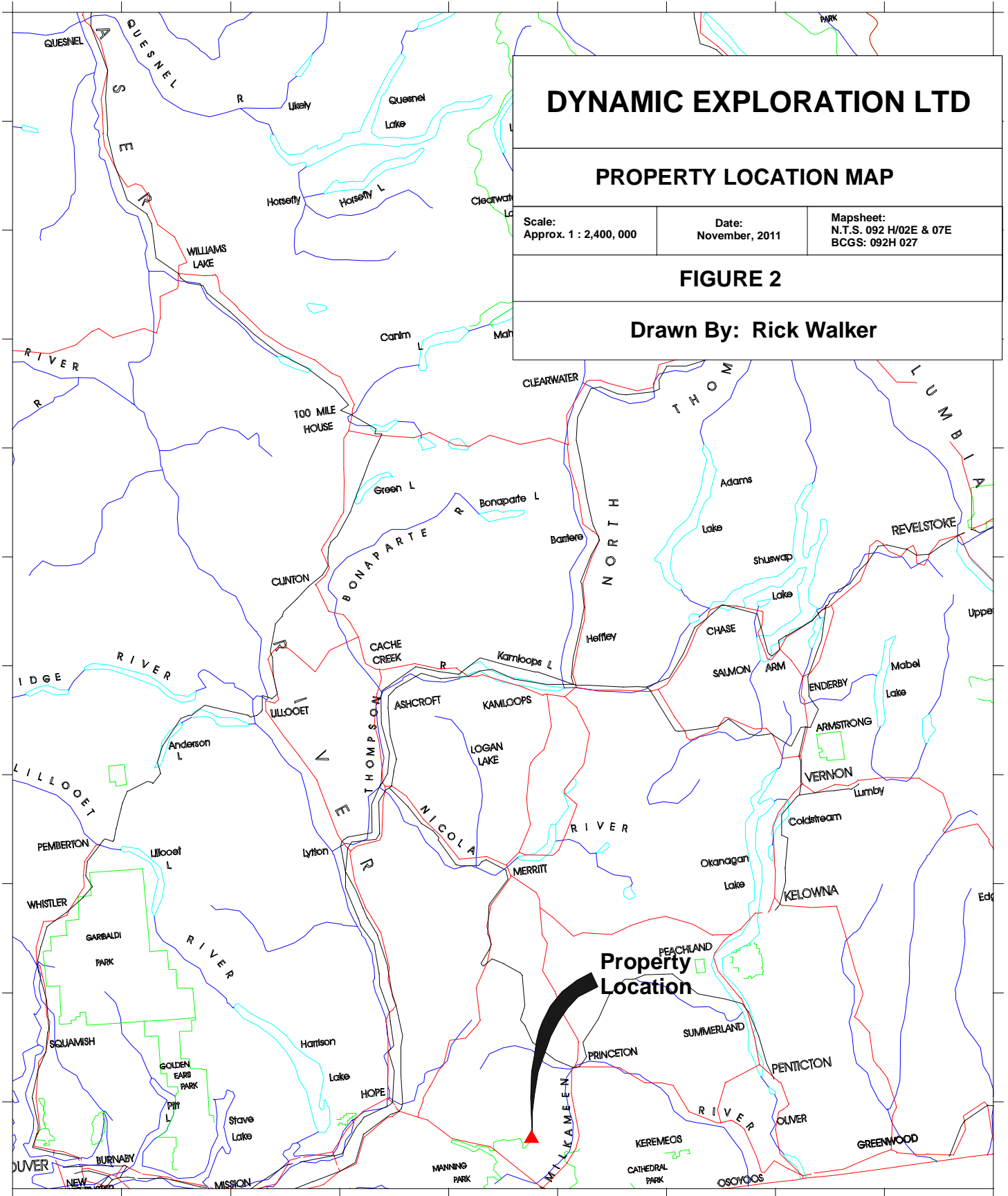
Scale:  
Approx. 1 : 2,400, 000

Date:  
November, 2011

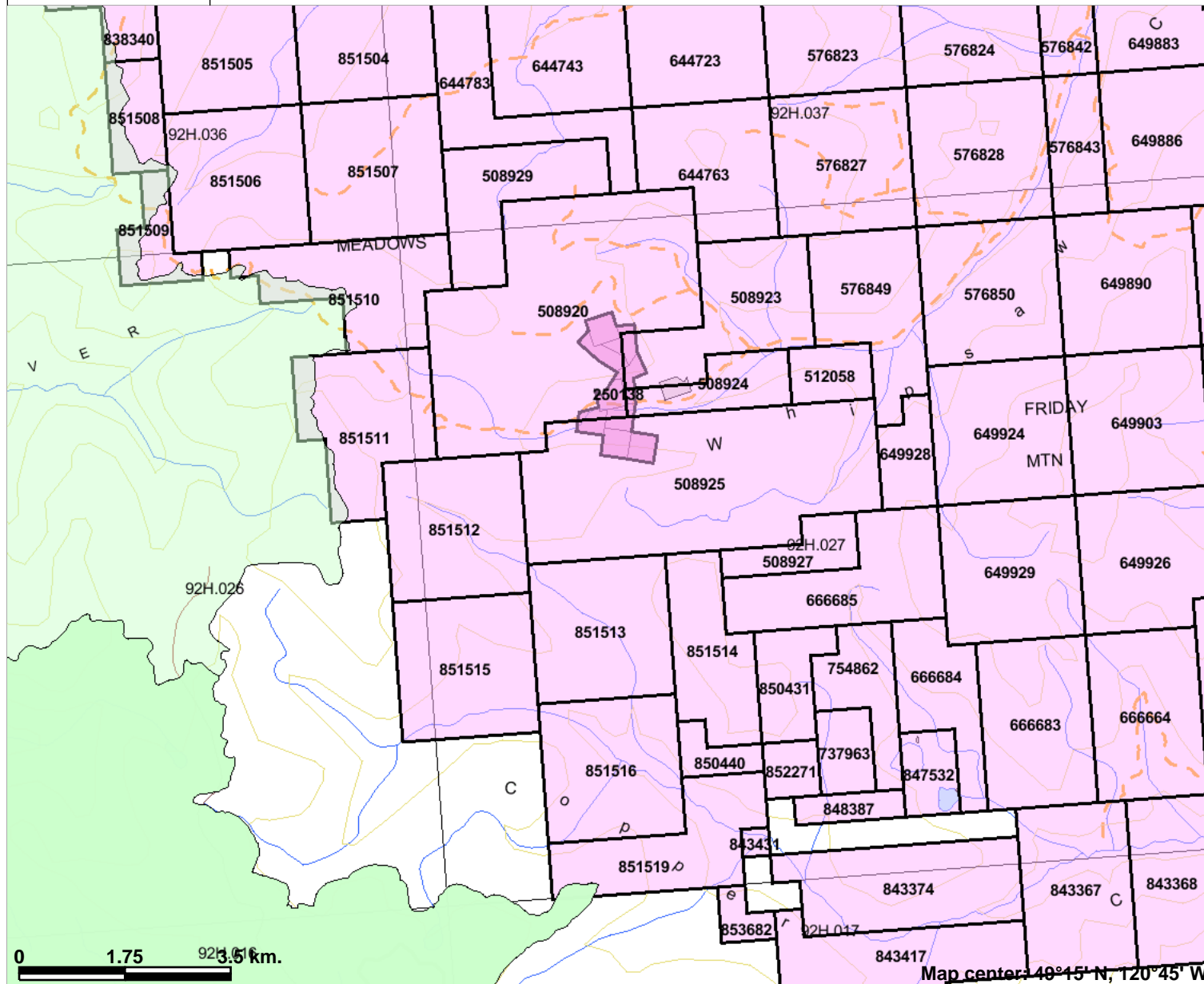
Mapsheet:  
N.T.S. 092 H/02E & 07E  
BCGS: 092H 027

### FIGURE 2

Drawn By: Rick Walker



# Figure 3 - Whipsaw Property Tenures



### Legend

- Indian Reserves
- National Parks
- Conservancy Areas
- Parks
- Mineral Tenure (current)
- Mineral Claim
- Mineral Lease
- Mineral Reserves (current)
- Placer Claim Designation
- Placer Lease Designation
- No Staking Reserve
- Conditional Reserve
- Release Required Reserve
- Surface Restriction
- Recreation Area
- Others
- Survey Parcels
- BCGS Grid
- Contours (1:250K)
- Contour - Index
- Contour - Intermediate
- Area of Exclusion
- Area of Indefinite Contours
- Annotation (1:250K)
- Transportation - Points (1:250K)
- Airfield
- Anchorage - Seaplane
- Ferry Route
- Heliport
- Seaplane Base
- Air Field
- Airport
- Air Feature - Condition Unknown

Map center: 49°15' N, 120°45' W

Scale: 1:100,000

0 1.75 3.5 km.

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.



## **2.0 LOCATION AND PHYSIOGRAPHY**

### **2.1 Location and Access**

The Whipsaw Creek property is located approximately 28 km southwest of Princeton, BC and 18 km west-southwest of the Copper Mountain Mine in the Similkameen Mining Division (Fig. 1 and 2). The property is located along Whipsaw Creek, immediately east of Manning Park on mapsheet 092H/07 (BCGS TRIM map 092H027 and 037). The centre of the property is at approximately Latitude 49° 16' N, Longitude 120° 45' W (approximate UTM coordinates 664000 E, 5461000 N).

Access to the property is available along the moderately well maintained Whipsaw Creek Forest Service Road (Radio Frequency 162.33 ), which originates at Highway 3 approximately 13 km west of the Chevron station in Princeton. Proceed south-southwest from Km 0 to Km 2.5 (Lamont Creek) and take the left fork. Continue to Km 4 and, again, take the left fork. At Km 15 (Garrison Lakes), stay to the right. At Km 18, there are three forks; the left fork provides access to a road network from which the Knight and Day can be accessed, the right fork provides access to the Granite Mountain road network. For the purposes of the soil sampling program, the centre fork provides access to the grid. At Km 22, the road splits again, with the right fork following the historical Dewdney Trail into Manning Park. The left fork crosses Whipsaw Creek across an older bridge to the south side of Whipsaw Creek. A road extends east along the south side of Whipsaw Creek and allowed access to the survey grid.

### **2.2 Physiography And Climate**

Elevations on the property vary from approximately 1260 m (4135 ft) at the eastern edge of the property along Whipsaw Creek to 1892 m (6210 ft) at the headwaters of Forty Three Mile Creek. The property is characterized by moderate relief, although areas of high relief (steep topography) are locally present.

The property is located immediately east of Manning Park, at the eastern edge of the Coast Range and the western edge of the Interior Plateau. The area is subject to a temperate continental climate with generally warm summers, although temperatures can reach 45° C, and cold winters with up to 1.5 m of snowfall accumulation.

The area is covered with a variety of coniferous trees and highly subordinate deciduous trees. Light, to locally moderate, undergrowth exists, including areas of slide alder and swampy ground in low standing areas.

Logging activity has been moderately extensive along the Whipsaw Creek drainage. Weyerhaeuser Co. has informed the property owner that the Whipsaw Creek drainage will be subject to active logging in the fall and into the winter.

The property is generally available for geological exploration from June to late October, with the possibility of early, heavy snowfall expected as early as late September. However, given the fact that active logging is planned for the Whipsaw Creek drainage and that, as a result, the roads will be plowed into / through the winter, a relatively inexpensive exploration program could be considered for the fall / winter of 2011 / 2012.

### 2.3 Claim Status

The Whipsaw Creek property consists of seven Mineral Tenure Online (MTO) tenures (Fig. 3) and one Mining Lease comprising 3,983.21 ha (9,842.68 acres) located in the Similkameen Mining Division. The property is located approximately 28 km southwest of Princeton, BC and 17 km west-southwest of the Copper Mountain Mine.

Access is available along the moderately well maintained Whipsaw Creek Forest Service Road from a point approximately 13 km west of the Chevron station in Princeton. The work described herein was carried out on Tenures 508920, 508923 and 508925. The soil grid is located on Tenure 508925.

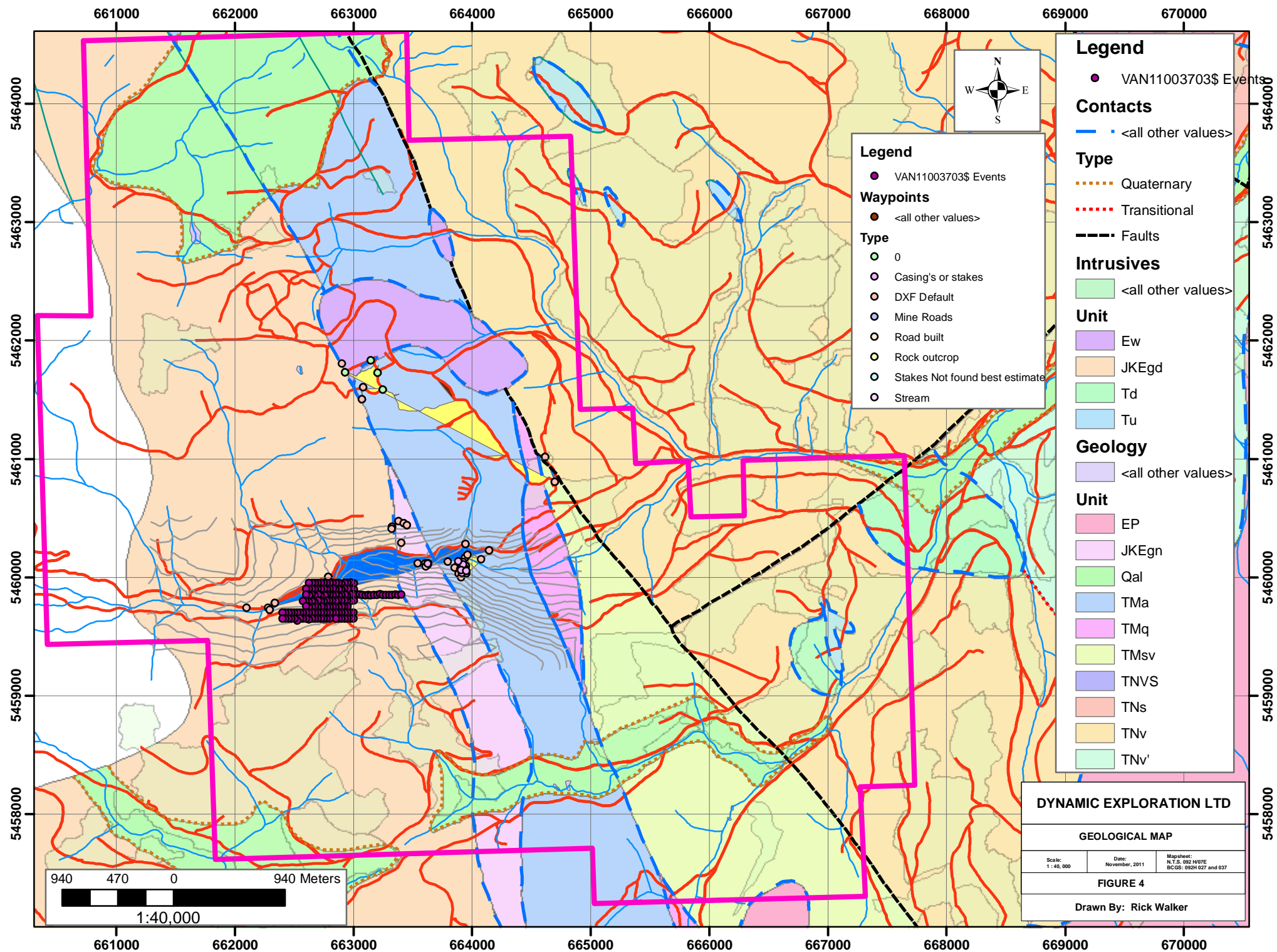
Significant claim data are summarized below:

<u>Mining Lease</u>			
<u>Tenure Number</u>	<u>Tenure Name</u>	<u>Good To Date</u>	<u>Area (ha)</u>
250138	Lease	2012/JAN/13	171.75

#### Mineral Tenure Online (MTO) Mineral Tenures

<u>Tenure Number</u>	<u>Tenure Name</u>	<u>Good To Date</u>	<u>Area (ha)</u>
508920		2013 / FEB / 16	1390.71
508923		2013 / FEB / 16	463.58
508924		2013 / FEB / 16	189.69
508925		2013 / FEB / 16	1286.02
508927	WhipsawSE	2013 / FEB / 16	147.61
508929	WhipsawMW	2013 / FEB / 16	379.14
512058		2013 / FEB / 16	126.46
<b>Total</b>			<b><u>3,983.21</u></b>

- Upon acceptance of 2011 Assessment Work credits.



### 3.0 HISTORY

The following has been taken from Chapman (2010):

“Placer deposits in the Tulameen and Similkameen rivers and their tributaries have been known and worked since the 1860s. In 1885 rich placer deposits of gold and platinum were discovered in Granite Creek near the town of Tulameen. Shortly afterward, gold and platinum placer deposits were discovered in Whipsaw Creek downstream to the east of the present Whipsaw property. Prospecting for related bedrock deposits led to the staking of gold and silver bearing veins in the central part of the current property in 1908.

In 1959, reconnaissance stream sediment sampling by Texas Gulf Sulphur Company discovered major stream sediment Cu-Zn anomalies in 45 Mile and 47 Mile creeks, tributaries entering Whipsaw Creek from the north (Bacon, 1960). These anomalies were determined to be related to the northern and southern contact areas of the Whipsaw Porphyry. Follow-up work outlined soil geochemical, electromagnetic and induced polarization anomalies near the headwaters of 47 Mile Creek (Bacon, 1960 & 1961; Holyk, 1962). This anomalous area was subsequently explored by several companies (Seraphim, 1963; Hall, 1963; Mustard, 1959; Macauley and Paulus, 1971) over the following 2 decades. Also during this period, adjacent properties were acquired and explored by several other companies and individuals. Despite the property boundary constraints to exploration programs, large areas of 0.1-0.3% Cu with accompanying molybdenum were discovered by limited diamond drilling programs while investigating the various geochemical and geophysical anomalies (Heim, 1987).

In 1960-62 soil sampling, geological mapping, EM, Magnetic and IP. surveys were completed along with 3 diamond drillholes. Moneta Porcupine, Dome, and Tennessee Corp. optioned the property through 1963-64 and carried out additional IP., soil geochemistry and drilled 2 more holes. In 1968 Amax entered into an agreement under which they completed additional soil sampling, mapping, and trenching. Texas Gulf trenched and drilled 4 holes in 1969 based on the Amax work.

Newmont's interest in the area dates from 1967, when a stream sediment survey indicated a strong anomaly, but as all the ground was staked nothing was done. In 1969 the Whipsaw property was submitted to Newmont who proposed a program of further exploration (Macauley, 1969). No further work was carried out until July 1971, when TGS optioned their ground to Newmont and an IP survey, geological mapping, and some additional geochemical sampling were completed.

In 1985, World Wide Minerals Ltd. acquired a portion of the property and soil sampled in the area of the BZ trenches to test for precious as well as base metals (Helm, 1985). It was found that the area of the BZ trenches was located within a large Cu-Zn soil anomaly accompanied by anomalous Au, Ag and As values. In 1986, the BZ trenches were cleaned out and re-sampled, with new rock samples assaying as high as 11.62 g/t Au and 185.1 g/t Ag across 0.61m in a shear zone (Heim 1987).

In 1987, World Wide Minerals Ltd. succeeded in consolidating the current property, and completed reconnaissance soil sampling over the central portion of the area. A total of 5,580 samples were collected and analyzed for Au and, separately, for 31 elements using the inductively coupled plasma (ICP) method. In late 1987 and January 1988 30 diamond drill holes totalling 3,040.1m were completed over part of the BZ zone and on two zones south of Whipsaw Creek (Richardson, 1988b). Also in 1987, World Wide Minerals contracted an airborne magnetometer and very low frequency electromagnetic (VLF-EM) survey over the southern part of the property (Walker, 1987). An intense magnetic anomaly was located over the SE portion of the property, which may indicate the presence of an ultramafic intrusion.

In 1990, World Wide completed a three hole diamond drilling program immediately north of the Whipsaw Porphyry Stock (Richardson, 1990a and 1990b). In 1990 World Wide also began a program of detail geochemical surveying to investigate the anomalous areas south of Whipsaw Creek that were discovered by the 1987 reconnaissance geochemical survey, this work was completed in 1992.

In 1991, the northern half of the Whipsaw property was optioned to Phelps Dodge Corporation of Canada, Limited. Their representatives (Fox Geological) conducted diamond drilling and percussion drilling programs in 1991 and an additional small diamond drilling program in 1992 (Fox, 1992; Fox and Goodall, 1992).

In 1995, Martech Industries Inc. acquired the property and drilled seven diamond drill holes to test the copper mineralization around the periphery of the stock, and in 1997 drilled one additional diamond drill hole near the south boundary of the stock.

A diamond drilling program was carried out in 2004 by Canfleur Mining to continue the investigation of the copper-molybdenum porphyry mineralization. Diamond Drill Holes W04-11 and W04-12 were drilled to confirm the presence of and to obtain additional samples more representative of the copper-molybdenum mineralization that was tested by earlier diamond drilling along the northern contact of the Whipsaw porphyry. Some of the earlier drill holes were drilled at a time when only "visually interesting" sections of the core were assayed because of the cost of assaying. As a result, data on Mo and Au were incomplete.

Given the significant amount of previous work, the presence of porphyry style mineralization and the widespread gold and silver geochemical anomalies the author believes that the potential for the discovery of additional zones of mineralization is significant and continued exploration on the Whipsaw property is warranted.”

## **4.0 GEOLOGICAL SETTING**

### **4.1 Regional Geology**

The oldest strata identified on the Whipsaw Property have been correlated to the Eastgate - Whipsaw Metamorphic Belt, comprised of “... three northwest-trending heterogeneous lithological assemblages that show increasing metamorphic grade, from greenschist in the east to amphibolite in the west” (Masset et al. 2009a). From east to west, the lithological units consist of a Mixed Metavolcanic-Metasedimentary Schist, a Quartzite-Biotite-Quartz Schist and an Amphibolite (Fig. 4).

Highly prospective Triassic age Nicola Group strata comprise the eastern portion of the property, west of the Boundary Fault and southwest of the Copper Mountain mine. These strata differ from similar strata east of the Boundary Fault in that “...clastic sedimentary rocks - black argillite interbedded with grey to green-grey siltstone and sandstone similar to those in the east - are intercalated with feldspathic tuff, tuff breccia, tuffaceous sandstone, pebbly sandstone and fine-grained cherty siltstone. Pyroxene is rare to absent in these beds. Thin grey limestone beds occur interbedded with argillite along the Lamont Main road.

The clastic sediment and feldspathic volcanoclastic unit passes westwards, and probably upwards, into typical Nicola pyroxene-feldspar tuff, lapilli tuff and breccia. However, in contrast to the eastern part of the map area, most of the exposed volcanic rocks are deformed and schistose. The change from massive to schistose rocks is transitional and gradual from east to west (Massey et al. 2009a).

Nicola Group strata were subsequently intruded by small dioritic plugs and stocks, interpreted to be of Triassic age. Several small ultramafic plugs have been mapped, hosted within Nicola Group strata, and have been correlated to the Tulameen Ultramafic Complex, located approximately 15 km north-northwest of the Whipsaw Property (Massey et al. 2009b). In addition, small plugs and stocks of dioritic composition, interpreted to be coeval with the Copper Mountain intrusives, have also been mapped. In the vicinity of the Whipsaw Property, these dioritic intrusions are localized along the Whipsaw Creek Fault, two of which have been truncated along their northern margins by the Whipsaw Creek Fault.

Diorite comprising these intrusions has been described as:

“... fine to medium grained and has typical grey salt-and-pepper fresh surfaces with brown or brick red to grey weathered surfaces. It is composed primarily of white feldspar and greenish black hornblende, with colour indices varying from 30 to 50 in most outcrops, but up to 70 in melanocratic phases. Minor minerals include rare euhedral biotite flakes, pyroxene or quartz. Pyroxenite is dark green to black on fresh surfaces and weathers dark grey. It is coarse grained with crystals ranging from 1 to 3 cm. Pyroxene constitutes 80–90% of the rock, the rest being chlorite, magnetite and minor feldspar.

Epidote-chlorite veinlets are common; serpentinite and calcite alteration is rare. The pyroxenite outcrops separately from, but close to, the diorite. Contacts are rarely seen but suggest that the diorite is intrusive into the pyroxenite (Massey et al. 2008).

The Nicola Group was subsequently intruded by intrusions correlated to the Eagle Plutonic Complex, including the “Eagle Tonalite” (Massey et al. 2009b) which comprises the western third of the property (Massey et al. 2009) and is described below.

“The biotite granodiorite is a syntectonic intrusion with varying texture and fabrics. A range of foliate fabrics from massive to gneissic is seen in the granodiorite, particularly in the marginal portions.

Massive phases are equigranular to seriate, varying in grain size from 3–5 mm to 5–6 mm. White feldspar forms subhedral laths. Translucent grey quartz is irregular, often interstitial to feldspar and biotite, and may be smaller in grain size. Biotite is typically black and micaceous and makes up 10–25% of the rock. Minor epidote and red garnet are common. Finer grained microgranodiorite (1–2 mm grain size) is of similar mineral composition, although more melanocratic with up to 50% biotite. ...

Biotite gneiss occurs in the Whipsaw Creek area, marginal to the intrusion. Layers of biotite or biotite-feldspar alternate with leucocratic feldspar-quartz layers. The gneiss is intruded and included by massive granodiorite. The mineralogy of the gneiss contrasts with that of the amphibolite of the adjacent Eastgate-Whipsaw metamorphic belt and suggests that it may be related to the ‘Eagle gneiss’ unit of Greig (1992) (Massey et al. 2009).

During the Eocene, the stratigraphic package was overlain by the Princeton Group, which roughly corresponds to the eastern margin of the property. The Whipsaw Porphyry comprises two intrusions, one along the edge of the Eagle Tonalite and a second, smaller intrusion along the Similkameen Fault (Massey et al. 2009a), described as follows:

“The Whipsaw porphyry forms a small stock and associated dikes in the Fortyfive Mile Creek area, north of Whipsaw Creek. This grey to pink porphyry is marked by abundant (20–30%) white to pink

feldspar laths, up to 5–8 mm in size. Quartz is less abundant (1–5%) and forms smaller (1–3 mm) rounded crystals. Hornblende and biotite phenocrysts are tabular, greenish black and often altered to epidote, making identification difficult. Disseminated sulphides and malachite staining are observed in some outcrops. The age of the Whipsaw porphyry is unknown. It intrudes the Eagle pluton and may be correlated with porphyries of the Late Cretaceous Otter Lake suite in the Tulameen area to the north. Alternatively, it may be comagmatic with the Princeton Group” (Massey et. al 2009).

## 4.2 Detail Geology

The following has been modified from Chapman (2010):

“The Whipsaw property covers 8 km of the regionally mineralized contact zone between the Upper Triassic Nicola Group and the Eagle Granodiorite. In the north-central part of the property, the west-dipping contact zone is intruded by the Whipsaw Porphyry. Dykes of feldspar porphyry extend north and south of the stock near and parallel to the Nicola Group - Eagle Granodiorite contact. The northwest portion of the Whipsaw Porphyry outcrops and has been mapped (Mustard, 1969), however the southeast lobe of the porphyry stock occurs in an area of sparse outcrop and the outline of this part of the stock is based mainly on magnetic and geochemical data.

The Whipsaw Porphyry is the apparent source of a large hydrothermal system with which at least two types of mineral deposits are associated. Porphyry copper-molybdenum-gold mineralization occurs as disseminations and in veinlets within the perimeter of the Whipsaw Porphyry but mostly in Nicola rocks bordering the porphyry. To the south, porphyry Cu-Mo-Au mineralization decreases and Au-Ag-Cu-Zn mineralization occurs in sulphide-bearing quartz veins and peripheral disseminations. There are localized areas of skarn mineralization in carbonate-bearing horizons just north of Whipsaw Creek near the Nicola - Eagle contact. Skarn zones coincide with the area of the highest soil gold geochemical anomalies on the property but the area has not yet been examined or sampled in detail.

The source of an intense magnetic anomaly in the southeast portion of the property is probably a body of ultramafic rocks, a number of which occur south of the Tulameen ultramafic intrusive. This is known to contain platinum group elements (PGE). If this interpretation of the magnetic anomaly is correct, the ultramafic body on the Whipsaw property could be the source of the platinum recovered from the placer deposits in Whipsaw Creek, east of the Whipsaw property. A second possible source of the PGE-bearing placer deposits in the creek is the mineralization associated with the Whipsaw Porphyry. At nearby Copper Mountain, PGE's have been reported to be associated with the copper-gold mineralization around the



perimeter of the Copper Mountain Stock. A third possible source of the placer platinum in Whipsaw Creek is the Tertiary sediments in which platinum and gold were probably "parked" during and after the intense Early Tertiary erosion of the Tulameen ultramafic rocks.

#### Nicola Group

The Nicola Group is composed of dark green to light grey, banded, schistose rocks that were originally andesitic volcanics. They are composed of 50% plagioclase and 50% amphibole which is often altered to chlorite. The rocks are strongly foliated with foliation striking at an azimuth of 150°-160° and dipping moderately to steeply to the west. Minor magnetite is disseminated throughout the Nicola rocks but appears to be concentrated towards the contact of the Whipsaw porphyry.

#### Eagle Batholith

The Eagle Batholith is considered to be part of the Coast Range intrusives. It is a light grey, coarse grained biotite granodiorite, composed of plagioclase, potassium feldspar, quartz, and biotite.

#### Whipsaw Porphyry

The Whipsaw porphyry is located along the contact of the Nicola Group and the Eagle Batholith. The porphyry is multiphase with the different phases being defined by the amounts of biotite and/or quartz present. These mineralogical phases were originally mapped by Mustard (1968), but have subsequently been combined under the term Whipsaw porphyry. An intrusive breccia believed to be related to the Whipsaw porphyry has also been mapped.

The Whipsaw is a feldspar porphyry composed of euhedral plagioclase phenocrysts (1-3 mm), various percentages up to 10% of hornblende phenocrysts (1-2 mm), and sometimes anhedral quartz (1-2 mm). The matrix varies from 60% to 80%, is fine grained and composed of plagioclase and mafics. Accessory minerals usually present—although not always—are hematite, magnetite, epidote, chalcopyrite, and up to 2% pyrite.

Portions of the margin of the porphyry and an area 300m east of the NE corner of the porphyry are brecciated. Fragments of Nicola rock and Eagle granodiorite occur in a feldspar porphyry matrix. Fragments are from 2mm to 8cm in size. Eagle fragments predominate along the west margin of the porphyry while Nicola fragments predominate to the east. The isolated area of breccia to the east of the porphyry may indicate the continuation of the porphyry.

The porphyry intrudes the Nicola rocks parallel to the foliation on the southern contact, whereas on the northern contact the porphyry cuts the foliation. The

northern contact between Whipsaw porphyry and Nicola volcanic is exposed in a trench and in a diamond drill hole (69-W-1). From this information the northern contact of the porphyry is interpreted to dip at approximately 45° north. Geophysical data confirms that the northern contact of the Whipsaw porphyry crosscuts the trend of the foliation”.

Massey et al. (2009) describe the mineralization on the property, in the S and M (comprising the S and M, Knight and Day, Metestoffer, Five Fissures, T.G.S. and BZ MINFILE occurrences) and the Whipsaw (comprising the Whipsaw and Marian MINFILE occurrences) camps, as follows:

In the S and M camp, mineralization is hosted in a north-trending fault zone that cuts schist of the metavolcanic-metasedimentary sub-unit and amphibolite. The brecciated fault zone varies from 5 m to greater than 10 m in width and extends for about 1.5 km. The breccia contains 2.5–25 cm fragments in a matrix of sheared clayey rock and fault gouge that may be cemented by ankerite, dolomite or calcite. Many of the breccia fragments consist of massive to semi-massive sulphides, comprising sphalerite, galena, pyrite, chalcopryrite and argentite with carbonate. Pyrite, sphalerite, galena and chalcopryrite also occur as disseminations and blebs in quartz-carbonate veinlets ranging from a few millimetres to 40 cm wide, and in quartz veins that are generally up to 15 cm in width.

Porphyry Cu-Mo mineralization is associated with the Whipsaw porphyry and its hostrocks of the Eagle Plutonic Complex and the Eastgate-Whipsaw metamorphic belt. It may also partially overprint the massive sulphide mineralization in the adjacent S and M camp. Sulphide mineralization is developed over a widespread area, as disseminations and fracture fillings, and in quartz and calcite veins. Pyrite is most abundant, ranging from 2 to 10%, particularly within altered porphyry. Trace amounts of chalcopryrite, molybdenite, bornite, chalcocite and covellite occur with up to 10% magnetite, primarily in the Eastgate-Whipsaw metamorphic belt and Eagle Plutonic Complex hostrocks flanking the stock, and in feldspar porphyry dikes and sills.

The chalcopryrite is closely associated with pyrite and occurs as disseminations in the porphyry and schist, as fracture fillings and in quartz-carbonate veins in schist. Molybdenite forms fine-grained coatings along fractures and along margins of quartz and quartz-carbonate veins in the porphyry and surrounding hostrocks. Bornite is closely associated with pyrite and occurs as fine disseminations in the porphyry. Thin blebs and rounded coatings of chalcocite and covellite are present in porphyry dikes to the south. Epidote and chlorite are the most common alteration minerals. Argillic alteration is best developed in the margins of the stock. The porphyry also

exhibits quartz-sericite alteration, which appears to be associated with the argillic alteration. Feldspars are replaced by kaolinite and minor epidote and sericite in the more altered sections of the stock. The main mineralization occurs along the stock's northern contact and near the southern contact, where a southeastward-trending apophysis extends from the main body. Sphalerite, pyrite, pyrrhotite and chalcopyrite with minor galena and molybdenite in garnet-epidote-diopside or quartz-epidote skarn on the Marian showing is peripheral to, and possibly related to, the Whipsaw porphyry Cu-Mo mineralization".

## 5.0 2011 PROGRAM

The purposes of the 2011 program was three-fold, familiarize the author with the property and the associated data available for the purposes of a NI43-101 compliant report, obtain precise coordinates for key geographic features throughout the property and undertake a detailed soil survey to follow-up results from the 2010 soil survey.

To this end, in June, 2011, the author met with the property owner, Charles Martin, in Vancouver to review maps and geochemical data available for the property for the purposes of compiling, interpreting and summarizing the data. Preliminary compilation of the data was initiated, consisting of entry of analytical results for soil samples in to a database. This work and the associated data are not included in this assessment report as the author has not yet received accompanying maps from which to determine geographic (i.e. UTM) coordinates.

In July, the property owner, accompanied by his son K. Martin, provided an orientation of the property for the author, during which access, past drill sites, trenches and salient geological features of the property were visited. In addition, Brett Bottcher, Corvid Consulting, Princeton, BC, was subsequently retained, accompanied by the property owner and his son M. Martin, for the purpose of obtaining accurate GPS coordinates for many of the important features on the property, including, but not limited to, previous drill collar locations, adits, claim stakes, high grade rock sample locations, trenches, roads, etc. Data were acquired using a Real Time Kinematic (RTK) GPS. As many of these locations were previously only known by the property owner, acquisition of these geographic data are expected to be invaluable with regard to providing geographical reference points necessary to digitize the many maps available for the property.

Drill core from previous exploration programs on the property, stored in racks on-site, is in poor shape, with the core racks having collapsed and much of the core subsequently dumped. Approximately 25% of the remaining drill core is, potentially, salvageable, if required. Drill core from the 2004 and 2005 programs on the BZ Zone, Metestoffer and Silver Tip areas is currently stored in a Mini-storage facility just east of Princeton, comprising 28 boxes (approximately 3,000 m).

In addition, sample pulps for some of the previous soil sampling is being stored at Acme Analytical Laboratories Ltd. As a result, these samples are available for further analytical work, if required.

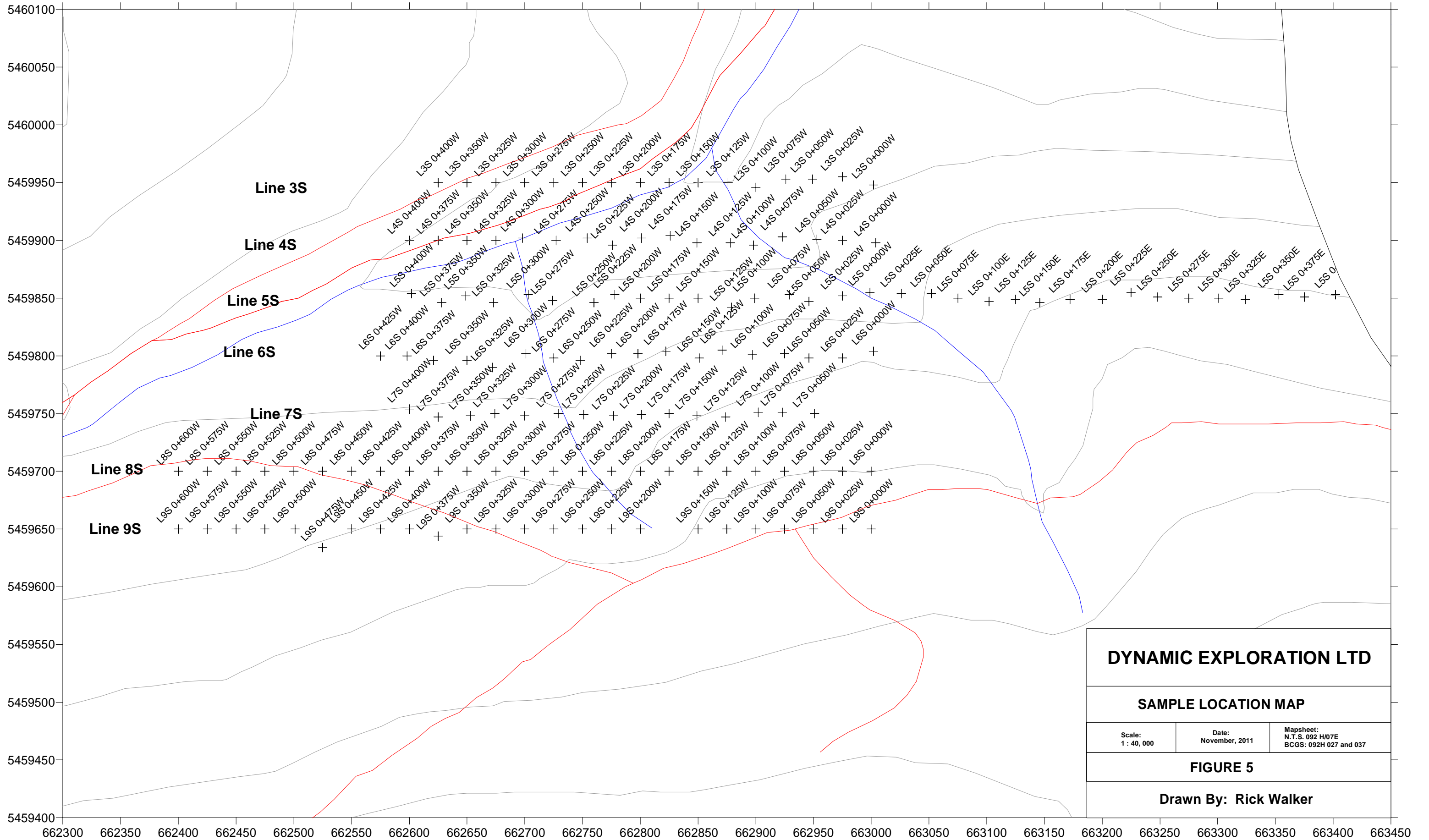
Finally, the author and an assistant flagged a detailed survey grid on the south side of Whipsaw Creek for subsequent soil sampling (Fig. 4 and 5). A grid was flagged, extending from 1S to 7S, extending from 400W to 525 E. Line spacing was 50 m, with sample stations flagged at 25 m intervals. Sample stations were flagged using a hip chain, with station locations recorded using a Magellan Mobile Mapper hand-held GPS, with the majority of station locations averaged over 60

seconds and are considered to be accurate to within 10 m. Lines 5S to 7S, from 000 to 200 W were located using a Garmin GPS76 and are generally considered to be accurate to within 15 m.

MCM Consulting (M. Martin and J. Dixon) subsequently completed a small soil sampling program on a sub-set of the flagged grid, with sampling between Lines 3S and 9S, extending from 0W to 425W. Lines 8S and 9S extended to 600 W, while Line 5S extended to 500 E. A total of 148 soil samples were recovered (Fig. 5) immediately south of the confluence of Whipsaw and Forty Three Mile creeks. Samples were collected from a variably developed "B Horizon", with sample depths ranging between 10 to 30 cm. Samples were placed into brown paper Kraft bags.

All samples recovered were submitted to Acme Analytical Laboratories in Vancouver, BC for processing using Acme's SS80 preparation and 36 element Group 1DX2 - 15g (ICP) analysis.

Copies of the analytical data are included as Appendix B.



<b>DYNAMIC EXPLORATION LTD</b>		
<b>SAMPLE LOCATION MAP</b>		
Scale: 1 : 40, 000	Date: November, 2011	Mapsheet: N.T.S. 092 H/07E BCGS: 092H 027 and 037
<b>FIGURE 5</b>		
<b>Drawn By: Rick Walker</b>		

## 6.0 RESULTS

### 6.1 Copper

A total of 145 analytical results were returned for copper, ranging from a minimum of 20.8 to a maximum of 265.5 ppm. The mean was 103.5 ppm, with a standard deviation of 47.5. A total of 24 samples returned anomalous results, interpreted to be those returning values greater than the Mean + 1 Standard Deviation, or 150 ppm.

The data document a number of local spot highs to small groupings of anomalous values (Fig. 6).

### 6.2 Gold

A total of 142 analytical results were returned for gold, ranging from a minimum of 0.7 to a maximum of 597.4 ppb. The mean was 15.29 ppb, with a standard deviation of 47.5. A total of 24 samples returned anomalous results, interpreted to be those returning values greater than the Mean + 1 Standard Deviation, or 65.64 ppb.

The value of 597.4 ppb is significantly greater than any of the other values documented in this small sample population and represents a local spot high. Furthermore, it significantly increases the value of the Standard Deviation and, as a result, increases the cut-off for definition of “Anomalous Values”.

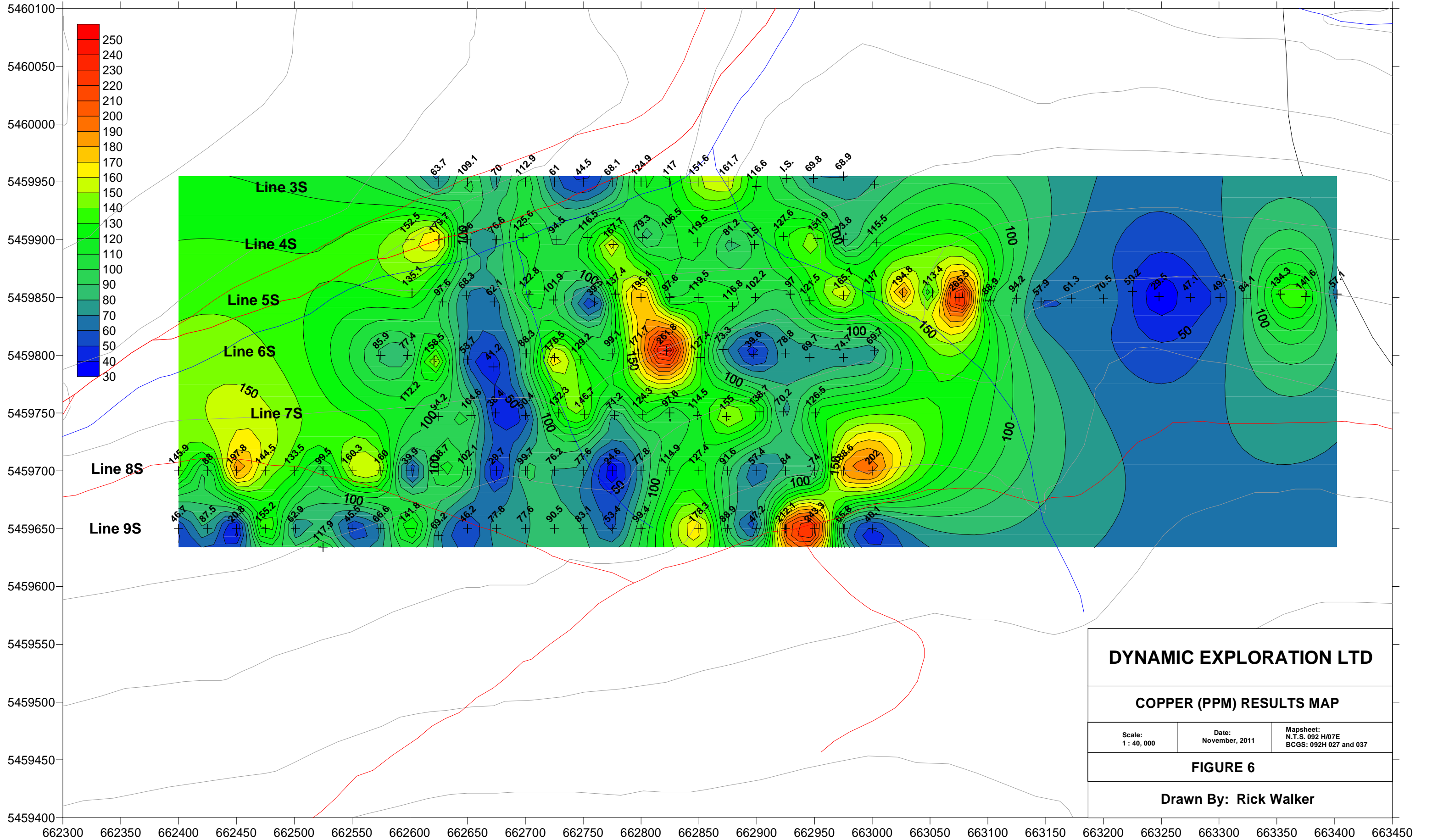
Given the potential for a Nugget Effect and an associated skew in analytical results, the author suggest that any value greater than the minimum detection limit (0.5 ppb) is **potentially** anomalous and should be treated accordingly.

### 6.3 Lead

A total of 145 analytical results were returned for lead, ranging from a minimum of 6.6 to a maximum of 315 ppm. The mean was 31.93 ppm, with a standard deviation of 34.85. A total of 4 samples returned anomalous results, interpreted to be those returning values greater than the Mean + 1 Standard Deviation, or 66 ppm.

### 6.4 Molybdenum

A total of 145 analytical results were returned for molybdenum, ranging from a minimum of 0.6 to a maximum of 3.8 ppm. The mean was 1.8 ppm, with a standard deviation of 0.7. A total of 24 samples returned anomalous results, interpreted to be those returning values greater than the Mean + 1 Standard Deviation, or 2.5 ppm.



<b>DYNAMIC EXPLORATION LTD</b>		
<b>COPPER (PPM) RESULTS MAP</b>		
Scale: 1 : 40, 000	Date: November, 2011	Mapsheet: N.T.S. 092 H/07E BCGS: 092H 027 and 037
<b>FIGURE 6</b>		
<b>Drawn By: Rick Walker</b>		



### **6.5 Silver**

A total of 145 analytical results were returned for silver, ranging from a minimum of 0.2 to a maximum of 10.7 ppm. The mean was 1.87 ppm, with a standard deviation of 1.49. A total of 18 samples returned anomalous results, interpreted to be those returning values greater than the Mean + 1 Standard Deviation, or 3.3 ppm.

### **6.6 Zinc**

A total of 145 analytical results were returned for zinc, ranging from a minimum of 58 to a maximum of 1583 ppm. The mean was 303.86 ppm, with a standard deviation of 174.93. A total of 13 samples returned anomalous results, interpreted to be those returning values greater than the Mean + 1 Standard Deviation, or 477 ppm.

## **7.0 DISCUSSION**

### **7.1 Copper**

The data document a number of local spot highs to small groupings of anomalous values (Fig. 6). Of potential interest is a north-trending low, extending from Line 9S to 4S, at approximately 325W through a background of weakly anomalous to anomalous values. This curvilinear feature may represent a fault within which copper has been flushed by fluid movement, transported into the adjacent host rocks.

Given the reported copper potential of the Whipsaw Porphyry (Massey et al. 2009) and documented by Chapman (2010), the elevated background in copper values documented in this small survey, in an area mapped as being underlain by the “Eagle Tonalite”, suggest it may also have potential as a copper porphyry and/or as a source of copper for the Whipsaw Porphyry and adjacent host strata.

### **7.2 Gold**

The most anomalous value of 597.4 ppb is significantly greater than any of the other values documented in this small sample population and represents a local spot high. Furthermore, it significantly increases the value of the Standard Deviation and, as a result, increases the cut-off for definition of “Anomalous Values”.

Given the potential for a Nugget Effect and an associated skew in analytical results, the author suggests, qualitatively, that any value greater than the minimum detection limit (0.5 ppb) is **potentially** anomalous and should be treated accordingly.

### **7.3 Lead**

With only 4 anomalous samples and a maximum of 315 ppm, lead is not considered to have much potential for delineation of a potential exploration target within the boundaries of this small survey and/or within the Eagle Tonalite.

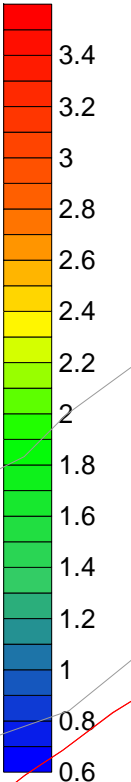
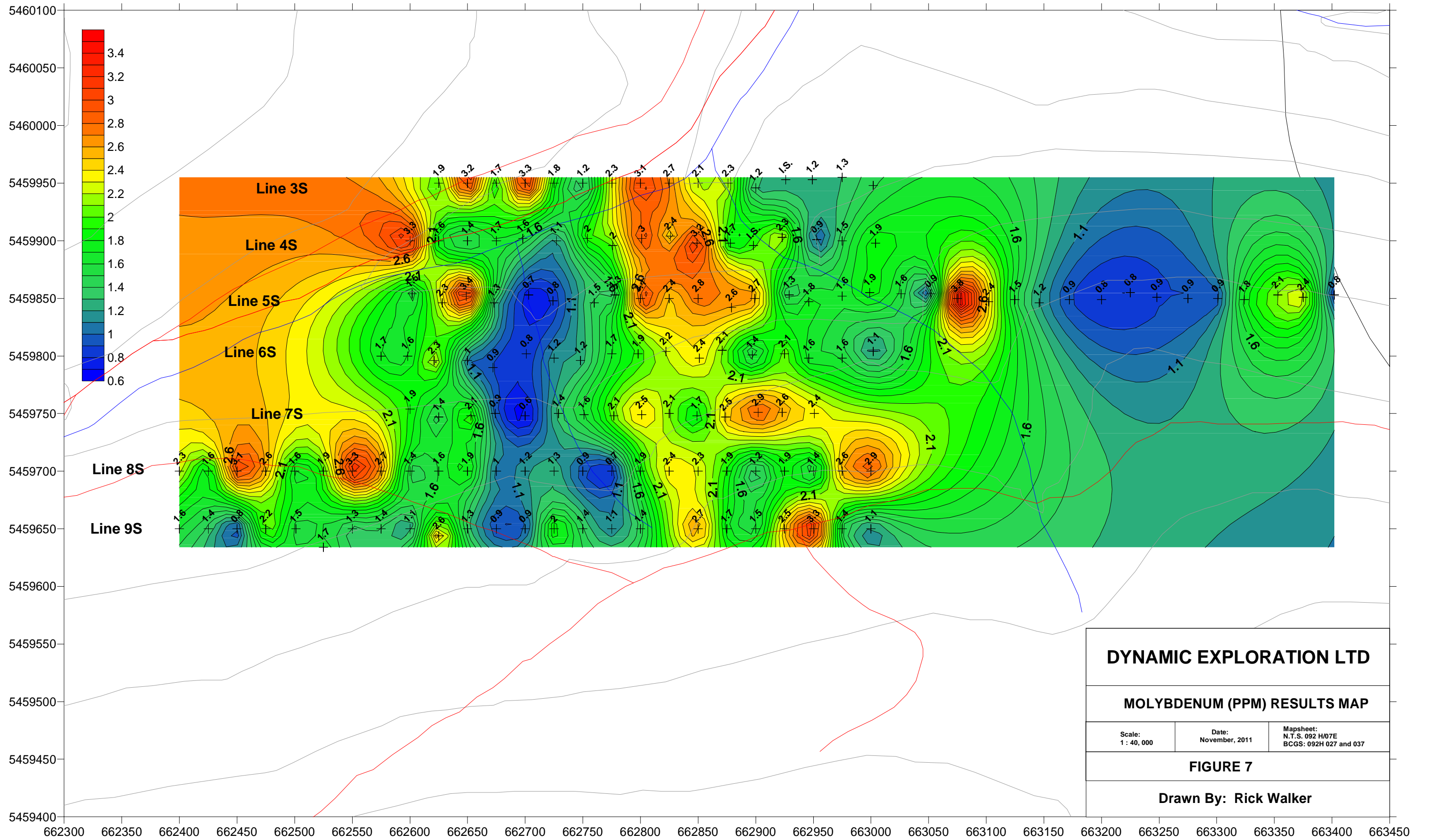
### **7.4 Molybdenum**

With a maximum value of 3.8 ppm, the 18 anomalous samples, greater than 2.5 ppm, documented in this small survey can only be considered weakly anomalous. However, analogous to copper, the data appear to delineate a low coincident with that defined by the copper results (Figure 7). Furthermore, the anomalous values tend to define local clusters of weakly anomalous data and, again, may have served as a source of molybdenum for the Whipsaw Porphyry and adjacent host rocks.

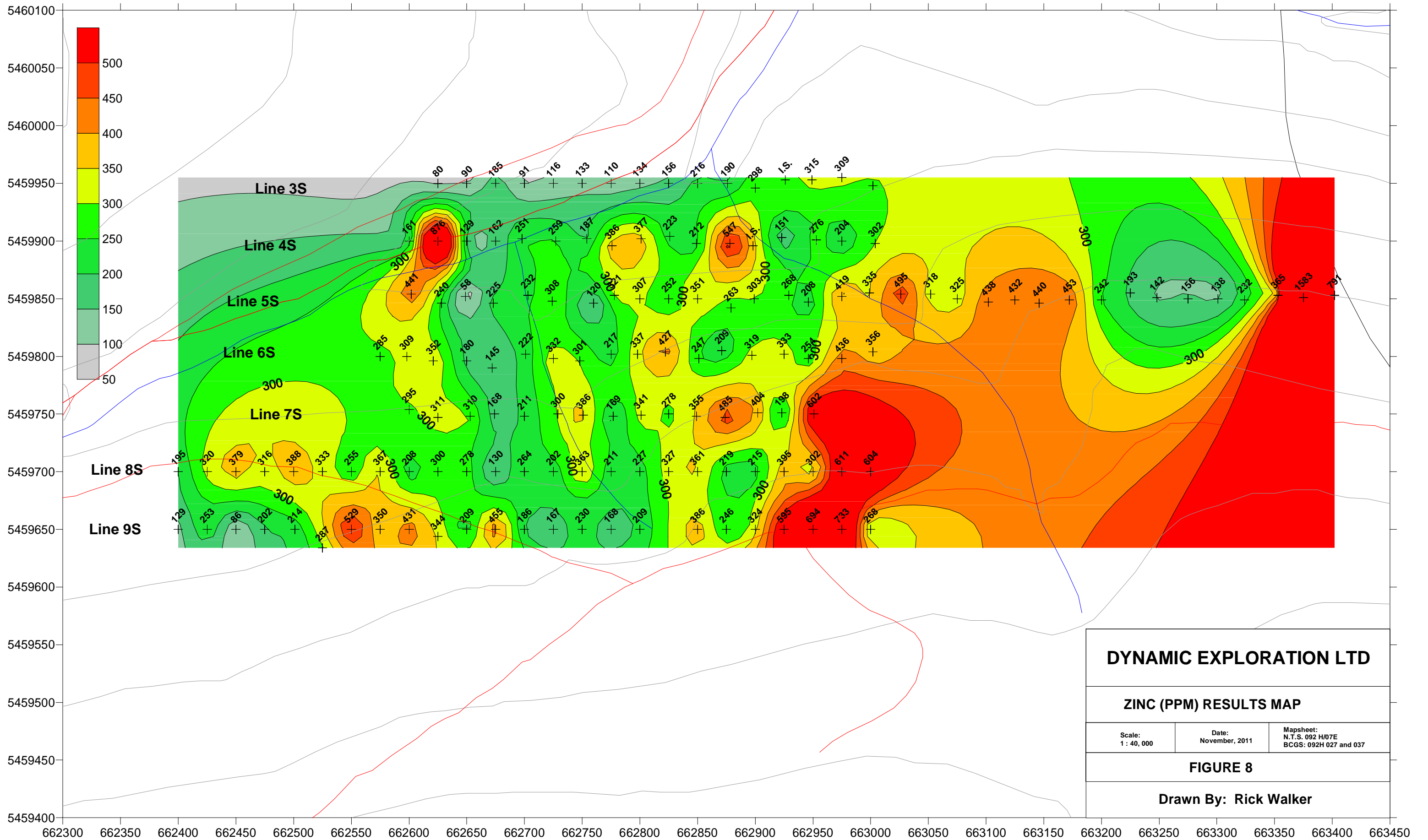
### **7.5 Zinc**

A plot of the zinc results appears to confirm the geochemical low proposed above on the basis of copper and molybdenum results, however, with a larger range of values, the low is better defined, together with geochemical gradients to either side (Figure 8).

In addition, there are a number of highly anomalous values evident at the southeast margin of the survey grid, with values ranging from 595 to 733 ppm. These values are considered to be highly anomalous for soils and are interpreted to be derived from the underlying bedrock. The apparent anomaly is at least 50 m east-west and 200 m north-south. The anomaly is defined on the basis of samples at the southern and eastern edge of the survey grid and is, therefore, open to both the south and east. The resulting anomaly may possibly extend northeast to anomalous values documented on the eastern extension of Line 5S and (Figure 8), potentially defining an anomaly extending at least 260 m and oriented northeast-southwest.



<b>DYNAMIC EXPLORATION LTD</b>		
<b>MOLYBDENUM (PPM) RESULTS MAP</b>		
Scale: 1 : 40,000	Date: November, 2011	Mapsheet: N.T.S. 092 H/07E BCGS: 092H 027 and 037
<b>FIGURE 7</b>		
<b>Drawn By: Rick Walker</b>		



## 8.0 CONCLUSIONS

A wealth of information from approximately 40 years of exploration exists for the Whipsaw Property, much of it in the form of private data, maps and reports in the possession of the property owner, Charles Martin. These data have been interpreted to suggest Cu-Mo porphyry potential associated with the Whipsaw Porphyry (Fig. 4) and Ag-Pb-Zn Volcanogenic Massive Sulphide (VMS) potential along Whipsaw Creek. Preliminary work has started toward compilation of these data into a comprehensive summary report for NI 43-101 purposes.

Preparatory work was completed as part of the 2011 field season for the purposes of initiating compilation of the available data for the property. A property orientation was undertaken with the author so as to provide a context for review of the data, maps and reports. Precise geographic coordinates for key features on the property were acquired so as to provide geographic reference points for digitization of maps and determining coordinates for locations for soils, silts and rock locations.

Finally, a detailed sample grid was flagged south of Whipsaw Creek, with a sub-set subsequently sampled. The grid overlies the Eagle Tonalite, immediately west of the Eastgate-Whipsaw Metamorphic Belt, and returned a number of potentially interesting geochemical anomalies.

Geochemical anomalies for copper and molybdenum delineate a north-trending low, extending from Line 9S to 4S, at approximately 325W which is interpreted to suggest a possible fault. A weak to moderate background in both copper and molybdenum is interpreted to be consistent with the underlying Eagle Tonalite and suggest a possible source of these elements associated with the Whipsaw Porphyry.

Gold returned a single highly anomalous spike anomaly (597.4 ppb), with a number of much lower grade anomalies. Given the “Nugget Effect”, any gold value above the minimum detection limit is potentially anomalous and should be followed up concurrently with other geochemical anomalies.

A potentially significant geochemical anomaly for zinc appears to be evident along the southeast margin of the sample grid. The apparent anomaly is at least 50 m east-west and 200 m north-south., and has potential to be larger if it extends to similarly anomalous values the eastern extension of Line 5S and, potentially defining an anomaly extending at least 260 m and oriented northeast-southwest.

The results of the detailed soil grid have returned geochemically anomalous values for copper, molybdenum and zinc considered worthy of follow-up work, interpreted to indicate potential for identification of mineralization hosted within the Eagle Tonalite, associated with the intrusive contact with the Eastgate-Whipsaw Metamorphic Belt.

## 9.0 RECOMMENDATIONS

1. A considerable amount of data exists for the Whipsaw Creek property, comprising data acquired over 40 years of exploration. Available data includes analytical results for soil and rock samples; prospecting, mapping and airborne geophysical survey results, drill hole data (core descriptions with accompanying collar locations and analytical results). In addition, at least one university thesis has been completed for an area including the Whipsaw Creek property. Finally, mapping by the BC Geological Survey Branch has recently been completed for a large area west of Copper Mountain, including the area comprising the Whipsaw property.

To the extent possible, these data should be compiled in digital form and synthesized into a summary for the current Whipsaw property. It is expected that compilation of the soil and surface rock sample data, once compiled, will indicate both areas for further sampling and surface anomalies for drill testing.

2. Previous authors have proposed potential for both VMS (Volcanogenic Massive Sulphides) and Cu / Mo ± Ag ± Au mineralization on the Whipsaw Creek property. With re-opening of the Copper Mountain Mine, the infrastructure to develop and process Cu ± Mo ± Au porphyry-style mineralization is readily available and proximal to the property. Furthermore, exploration and mining personnel are available in Princeton and the immediate area.

Subsequent to the compilation recommended above, a comprehensive exploration program should be implemented to assess the potential for these deposit types.

3. Discussions the property owner, Charles Martin, have had with personnel at Copper Mountain suggest that Titan 24 IP - Magnetotelluric geophysical surveys have provided very useful information with which to further assess and evaluate the Copper Mountain deposits.

On this basis, a Titan 24 survey should be considered for the Whipsaw property, ideally once data compilation has been concluded for the property.

4. A number of very compelling drill targets have been proposed by the property owner. These proposed drill targets should be further evaluated subsequent to the data compilation (proposed above).

Furthermore, it is expected that further drill targets will be identified subsequent to compilation of previous results, in addition to those currently proposed. A drill program is strongly recommended as part of further evaluation of this property.

## 9.0 REFERENCES

Chapman, J. 2010. Soil Sampling and Mapping Assessment Report on the Wwhipsaw Creek Property, Similkameen Mining Division, British Columbia, Assessment Report for Martech Industries Inc., dated October 16, 2010.

Massey, N.W.D., Vineham, J.M.S. and Oliver, S.L. 2009a. Southern Nicola Project: Whipsaw Creek–Eastgate–Wolfe Creek Area, Southern British Columbia (NTS 092H/01W, 02E, 07E, 08W), British Columbia Ministry of Energy, Mines and Petroleum Resources Geological Fieldwork 2008, Paper 2009-1, pp. 189 - 204.

-----, 2009b. Geology and Mineral Deposits of the Whipsaw Creek-Eastgate-Wolfe Creek Area, British Columbia, NTS 92H/01W; 02E; 07E; 08W, British Columbia Ministry of Energy, Mines and Petroleum Resources Open File 2009-08, Scale 1:30,000.

## **Appendix A**

### Statement of Qualifications



## STATEMENT OF QUALIFICATIONS

I, Richard T. Walker, of 2601 - 42<sup>nd</sup> Avenue South, Cranbrook, B.C., hereby certify that:

- 1) I am a graduate of the University of Calgary of Calgary, Alberta, having obtained a Bachelors of Science in 1986,
- 2) I obtained a Masters of Geology at the University of Calgary of Calgary, Alberta in 1989;
- 3) I am a member in good standing with the Association of Professional Engineers and Geoscientists of the Province of British Columbia;
- 4) I am a Consulting Geologist;
- 5) I am the author of this report which is based on work completed between June and August, 2011 on the Whipsaw Property;
- 6) I hereby grant permission to Charles Martin and/or Martech Industries Inc. to use this report, or any portion of it, for any legal purposes normal to the business of the firm, provided the excerpts used do not materially deviate from the intent of this report as set out in the whole.

Dated at Cranbrook, British Columbia this 10<sup>th</sup> day of November , 2011.



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Richard T. Walker, P.Geo

## **Appendix B**

### **Soil Results**



1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Acme Analytical Laboratories (Vancouver) Ltd.

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

**Client:** **Martin, Charles**  
2680 Cambridge St.  
Vancouver BC V5K 1L6 Canada

Submitted By: Charles Martin  
Receiving Lab: Canada-Vancouver  
Received: August 05, 2011  
Report Date: October 07, 2011  
Page: 1 of 6

## CERTIFICATE OF ANALYSIS

VAN11003703.1

### CLIENT JOB INFORMATION

Project: WHIPSAW-S  
Shipment ID:  
P.O. Number  
Number of Samples: 147

### SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Martin, Charles  
2680 Cambridge St.  
Vancouver BC V5K 1L6  
Canada

CC: Mike Martin  
Rick Walker

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	147	Dry at 60C			VAN
SS80	147	Dry at 60C sieve 100g to -80 mesh			VAN
1DX2	145	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

### ADDITIONAL COMMENTS



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



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Client: **Martin, Charles**  
 2680 Cambridge St.  
 Vancouver BC V5K 1L6 Canada

Project: WHIPSAW-S  
 Report Date: October 07, 2011

Page: 2 of 6 Part 1

CERTIFICATE OF ANALYSIS

VAN11003703.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
L35 0+025W	Soil		1.3	68.9	18.0	309	1.5	20.9	9.4	223	1.89	5.2	1.9	0.5	36	0.8	0.2	0.3	47	0.44	0.034	3
L35 0+050W	Soil		1.2	69.8	18.8	315	1.6	26.5	11.3	429	2.42	5.0	3.5	0.7	24	0.9	0.2	0.2	57	0.32	0.040	3
L35 0+075W	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L35 0+100W	Soil		1.2	116.6	30.5	298	2.3	32.0	16.7	578	2.92	13.8	597.4	1.1	38	1.1	0.4	0.3	69	0.54	0.076	6
L35 0+125W	Soil		2.3	161.7	21.3	190	0.8	39.1	15.7	438	3.06	16.5	42.6	0.7	24	0.5	0.6	0.2	75	0.30	0.070	5
L35 0+150W	Soil		2.1	151.6	23.2	216	0.7	39.9	15.8	412	2.79	16.3	6.9	0.7	21	0.5	0.5	0.3	69	0.30	0.052	3
L35 0+175W	Soil		2.7	117.0	20.5	156	0.6	30.1	14.1	425	2.66	9.9	4.9	0.8	29	0.5	0.3	0.3	64	0.38	0.075	5
L35 0+200W	Soil		3.1	124.9	16.1	134	0.6	22.3	11.7	329	2.43	10.7	14.8	0.9	22	0.3	0.4	0.3	56	0.26	0.082	5
L35 0+225W	Soil		2.3	68.1	8.9	110	0.2	29.7	14.1	518	2.60	4.9	2.6	0.8	34	0.3	0.2	0.2	64	0.40	0.076	4
L35 0+250W	Soil		1.2	44.5	9.1	133	1.1	14.6	7.1	202	1.84	4.1	9.8	0.6	21	0.3	0.2	0.3	42	0.20	0.065	4
L35 0+275W	Soil		1.8	61.0	9.7	116	0.5	20.6	9.8	226	2.28	5.8	0.9	0.9	13	0.2	0.2	0.2	53	0.14	0.090	4
L35 0+300W	Soil		3.3	112.9	8.8	91	0.4	22.6	11.1	307	2.47	6.8	7.1	1.1	19	0.2	0.3	0.2	57	0.22	0.088	5
L35 0+325W	Soil		1.7	70.0	12.7	185	0.6	29.4	13.9	312	2.89	7.4	9.4	0.8	17	0.4	0.2	0.2	67	0.17	0.089	3
L35 0+350W	Soil		3.2	109.1	7.0	90	0.5	10.4	8.1	219	1.98	7.1	3.1	1.0	12	0.2	0.2	0.3	45	0.18	0.111	4
L35 0+400W	Soil		1.9	63.7	8.5	80	0.4	9.5	7.8	520	1.90	4.9	4.0	0.5	29	0.2	0.2	0.2	39	0.37	0.106	7
L45 0+000W	Soil		1.9	115.5	37.3	302	1.7	25.2	13.1	587	3.05	16.7	2.8	0.7	18	0.8	0.5	0.6	75	0.18	0.056	3
L45 0+025W	Soil		1.5	73.8	23.8	204	0.9	20.6	10.0	219	2.39	9.5	2.0	0.5	18	0.3	0.3	0.3	58	0.18	0.044	3
L45 0+050W	Soil		0.9	151.9	33.8	276	2.2	33.1	13.6	410	2.43	6.9	9.6	0.4	50	1.4	0.4	0.3	60	0.78	0.093	13
L45 0+075W	Soil		2.3	127.6	16.9	151	4.8	15.6	7.4	505	2.32	7.8	3.8	0.2	44	1.4	0.3	0.2	54	0.61	0.067	11
L45 0+100W	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L45 0+125W	Soil		1.7	81.2	24.1	547	1.5	25.4	12.9	373	2.46	13.8	13.0	0.7	21	0.7	0.4	0.3	61	0.23	0.036	4
L45 0+150W	Soil		3.2	119.5	27.5	212	0.9	26.6	11.5	216	2.74	17.5	4.7	0.8	13	0.4	0.7	0.3	66	0.15	0.072	3
L45 0+175W	Soil		2.4	106.5	16.3	223	2.9	30.7	11.3	406	2.46	13.9	7.9	0.7	28	0.9	0.2	0.2	55	0.36	0.050	7
L45 0+200W	Soil		3.0	79.3	25.7	377	2.3	33.1	12.9	247	2.59	16.3	5.7	0.8	20	0.8	0.6	0.2	60	0.25	0.043	3
L45 0+225W	Soil		2.0	167.7	13.3	386	2.1	31.3	12.8	591	2.47	7.5	10.2	0.2	50	1.7	0.3	0.2	55	0.67	0.078	6
L45 0+250W	Soil		2.0	116.5	12.5	187	4.9	16.7	7.8	389	2.35	6.4	11.2	0.6	32	0.9	0.2	0.3	50	0.37	0.088	9
L45 0+275W	Soil		1.1	94.5	21.3	259	2.9	16.2	8.8	546	2.65	9.4	8.0	1.2	40	1.3	0.3	0.3	51	0.38	0.067	11
L45 0+300W	Soil		1.6	125.6	24.7	251	2.2	21.5	9.6	198	3.04	13.5	26.4	1.5	18	0.4	0.4	0.4	64	0.19	0.056	6
L45 0+325W	Soil		1.7	76.6	21.8	162	0.8	23.7	11.5	267	2.53	9.0	5.6	0.9	17	0.3	0.3	0.2	59	0.18	0.101	5
L45 0+350W	Soil		1.4	76.0	9.1	129	1.2	23.3	9.6	217	2.27	6.0	4.9	0.8	28	0.2	0.2	0.2	50	0.25	0.057	7

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Project: WHIPSAW-S  
 Report Date: October 07, 2011

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CERTIFICATE OF ANALYSIS

VAN11003703.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
L35 0+025W	Soil			38	0.73	130	0.103	3	1.66	0.021	0.04	<0.1	0.04	2.5	<0.1	0.13	7	<0.5	<0.2
L35 0+050W	Soil			45	0.82	211	0.081	<1	1.86	0.015	0.05	<0.1	0.03	2.7	<0.1	<0.05	6	<0.5	<0.2
L35 0+075W	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L35 0+100W	Soil			58	1.19	227	0.067	1	2.04	0.015	0.07	<0.1	0.05	4.8	<0.1	<0.05	5	<0.5	0.3
L35 0+125W	Soil			78	1.42	90	0.068	<1	2.06	0.010	0.08	<0.1	0.01	3.9	<0.1	<0.05	5	<0.5	0.3
L35 0+150W	Soil			78	1.28	106	0.083	<1	2.04	0.011	0.08	<0.1	0.02	3.5	<0.1	<0.05	6	<0.5	0.3
L35 0+175W	Soil			58	1.11	97	0.059	<1	1.82	0.011	0.07	<0.1	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
L35 0+200W	Soil			42	0.79	138	0.063	<1	1.69	0.011	0.08	<0.1	0.02	3.1	<0.1	<0.05	5	<0.5	0.3
L35 0+225W	Soil			60	1.16	164	0.064	<1	1.70	0.009	0.10	<0.1	0.01	3.4	<0.1	<0.05	5	<0.5	<0.2
L35 0+250W	Soil			25	0.44	203	0.064	<1	1.57	0.011	0.05	<0.1	0.03	1.9	<0.1	<0.05	6	<0.5	<0.2
L35 0+275W	Soil			37	0.65	85	0.070	<1	1.85	0.009	0.06	<0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
L35 0+300W	Soil			43	0.87	117	0.062	<1	1.59	0.008	0.12	<0.1	<0.01	3.5	<0.1	<0.05	4	<0.5	0.5
L35 0+325W	Soil			58	1.06	108	0.076	<1	2.18	0.010	0.06	<0.1	0.02	2.8	<0.1	<0.05	7	<0.5	0.2
L35 0+350W	Soil			19	0.42	82	0.053	<1	1.40	0.009	0.07	0.1	0.01	2.6	<0.1	<0.05	4	<0.5	<0.2
L35 0+400W	Soil			17	0.45	222	0.048	<1	1.04	0.009	0.09	<0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
L45 0+000W	Soil			47	0.94	124	0.088	<1	2.07	0.011	0.05	<0.1	0.04	3.0	<0.1	<0.05	7	<0.5	0.5
L45 0+025W	Soil			39	0.70	110	0.079	<1	1.83	0.011	0.04	<0.1	0.02	2.3	<0.1	<0.05	7	<0.5	<0.2
L45 0+050W	Soil			60	1.24	272	0.047	<1	2.06	0.016	0.11	<0.1	0.06	4.4	<0.1	0.06	5	1.2	<0.2
L45 0+075W	Soil			29	0.45	174	0.072	1	1.79	0.025	0.04	<0.1	0.11	2.0	<0.1	0.07	7	<0.5	<0.2
L45 0+100W	Soil			I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
L45 0+125W	Soil			50	0.78	139	0.090	<1	2.13	0.014	0.04	<0.1	0.03	2.8	<0.1	<0.05	8	<0.5	<0.2
L45 0+150W	Soil			55	0.85	68	0.074	<1	2.09	0.011	0.04	<0.1	0.03	3.0	<0.1	<0.05	7	<0.5	0.3
L45 0+175W	Soil			51	0.86	149	0.068	<1	2.31	0.016	0.05	<0.1	0.04	3.1	<0.1	<0.05	7	0.6	<0.2
L45 0+200W	Soil			59	0.76	95	0.100	<1	2.14	0.015	0.04	<0.1	0.04	2.7	<0.1	<0.05	7	<0.5	0.2
L45 0+225W	Soil			60	0.91	166	0.061	1	1.75	0.020	0.06	<0.1	0.06	2.5	<0.1	<0.05	6	0.7	<0.2
L45 0+250W	Soil			30	0.54	148	0.070	<1	1.71	0.022	0.05	<0.1	0.09	3.0	<0.1	<0.05	6	<0.5	<0.2
L45 0+275W	Soil			26	0.49	259	0.101	<1	1.73	0.021	0.04	<0.1	0.05	3.1	<0.1	<0.05	7	<0.5	0.2
L45 0+300W	Soil			43	0.68	118	0.091	<1	2.14	0.011	0.04	0.1	0.07	3.3	<0.1	<0.05	8	<0.5	0.4
L45 0+325W	Soil			46	0.82	117	0.068	<1	1.87	0.011	0.05	<0.1	0.02	2.9	<0.1	<0.05	5	<0.5	0.3
L45 0+350W	Soil			42	0.77	187	0.065	<1	1.81	0.010	0.06	<0.1	0.01	2.8	<0.1	<0.05	6	<0.5	<0.2

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CERTIFICATE OF ANALYSIS

VAN11003703.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
L45 0+375W	Soil		1.6	179.7	24.0	876	2.7	37.9	15.0	1376	2.91	9.3	4.8	0.5	39	8.9	0.6	0.2	63	0.52	0.050	15
L45 0+400W	Soil		3.3	152.5	16.6	161	0.5	34.8	15.4	479	3.23	13.0	25.1	1.3	26	0.3	0.4	0.3	75	0.34	0.092	7
L55 0+000W	Soil		1.9	117.0	35.7	335	1.6	29.0	14.6	271	3.33	17.0	7.6	0.8	17	0.7	0.3	0.4	74	0.21	0.072	4
L55 0+025W	Soil		1.6	165.7	36.2	419	3.3	30.5	11.6	966	2.88	11.3	7.6	1.1	33	2.0	0.4	0.3	60	0.44	0.058	11
L55 0+050W	Soil		1.8	121.5	25.5	208	1.4	20.0	13.1	251	2.78	18.5	4.9	0.5	14	0.4	0.6	0.4	67	0.19	0.051	4
L55 0+075W	Soil		1.3	97.0	25.8	268	1.2	23.8	12.6	381	2.73	11.0	2.1	0.7	27	0.5	0.3	0.3	65	0.36	0.051	4
L55 0+100W	Soil		2.7	102.2	32.0	303	1.7	22.9	13.8	375	2.87	20.7	6.0	0.7	12	0.8	0.7	0.3	69	0.19	0.066	4
L55 0+125W	Soil		2.6	116.8	27.4	263	1.1	32.2	14.8	304	2.96	22.3	6.3	0.8	12	0.6	0.7	0.2	73	0.17	0.073	3
L55 0+150W	Soil		2.8	119.5	32.1	351	1.7	30.7	14.8	301	3.05	21.8	13.9	0.7	12	0.7	0.6	0.3	76	0.13	0.090	3
L55 0+175W	Soil		2.4	97.6	25.5	252	1.2	30.3	15.1	281	2.90	15.3	5.3	0.9	10	0.5	0.4	0.2	70	0.12	0.101	3
L55 0+200W	Soil		3.1	195.4	33.8	307	2.1	42.1	19.8	534	3.32	21.7	11.7	0.5	30	1.0	0.8	0.3	79	0.43	0.061	6
L55 0+225W	Soil		1.3	137.4	24.3	321	3.1	30.0	13.1	443	2.65	11.2	7.8	0.6	26	0.9	0.3	0.2	65	0.33	0.046	6
L55 0+250W	Soil		1.5	39.5	12.7	120	0.9	14.2	7.1	265	2.11	6.6	9.9	0.4	10	0.4	0.2	0.2	52	0.12	0.085	3
L55 0+275W	Soil		0.8	101.9	29.5	308	2.8	22.0	10.3	374	2.58	9.4	14.0	0.8	28	0.9	0.3	0.2	57	0.31	0.055	12
L55 0+300W	Soil		0.7	122.8	32.6	232	4.6	24.6	11.6	554	2.23	9.0	16.7	0.2	49	1.2	0.3	0.2	54	0.63	0.084	24
L55 0+325W	Soil		1.3	62.1	16.9	225	1.4	14.8	6.9	257	1.68	4.3	5.1	0.6	25	0.5	0.2	0.2	39	0.26	0.045	6
L55 0+350W	Soil		3.4	68.3	6.6	58	0.4	10.1	5.4	110	1.87	5.3	5.4	0.5	9	0.1	0.1	0.2	48	0.11	0.083	3
L55 0+375W	Soil		2.3	97.6	19.1	240	10.7	18.9	11.8	1263	2.26	8.7	27.6	0.1	32	1.4	0.2	0.2	53	0.38	0.114	14
L55 0+400W	Soil		1.5	135.1	16.7	441	2.8	31.1	14.2	1016	2.71	10.7	23.3	0.5	36	1.3	0.1	0.3	63	0.40	0.065	12
L55 0+025E	Soil		1.6	194.8	35.9	495	4.4	29.3	12.1	581	2.87	14.1	17.5	1.2	21	1.8	0.3	0.3	60	0.31	0.066	12
L55 0+050E	Soil		0.9	113.4	27.7	318	2.3	46.3	20.4	890	3.75	11.5	3.1	0.8	51	1.9	0.3	0.2	86	0.73	0.051	11
L55 0+075E	Soil		3.8	265.5	53.9	325	0.5	36.4	19.7	492	3.57	63.6	14.7	0.8	18	0.7	1.7	0.4	82	0.29	0.072	4
L55 0+100E	Soil		2.4	88.9	48.9	438	1.2	23.9	15.3	358	3.20	23.2	2.9	0.6	13	1.0	0.4	0.5	83	0.17	0.091	2
L55 0+125E	Soil		1.5	94.2	42.2	432	1.1	29.5	15.9	386	3.15	23.1	11.1	0.6	16	0.9	0.5	0.4	82	0.21	0.059	3
L55 0+150E	Soil		1.2	57.9	56.5	440	1.9	24.7	12.8	250	2.86	15.4	5.2	0.7	13	1.1	0.3	0.3	73	0.17	0.070	3
L55 0+175E	Soil		0.9	61.3	26.9	453	1.4	28.6	13.6	353	2.98	11.2	3.2	0.8	15	1.5	0.2	0.3	75	0.19	0.064	4
L55 0+200E	Soil		0.8	70.5	21.0	242	0.5	41.7	19.1	489	3.42	12.6	2.3	0.7	17	0.4	0.3	0.2	84	0.24	0.054	3
L55 0+225E	Soil		0.8	50.2	17.3	193	0.6	41.0	18.6	541	3.49	8.8	0.8	1.0	13	0.4	0.2	0.2	82	0.14	0.067	4
L55 0+250E	Soil		0.9	29.5	9.7	142	0.4	43.3	17.4	895	3.61	4.1	<0.5	0.8	12	0.3	0.1	0.1	82	0.17	0.076	3
L55 0+275E	Soil		0.9	47.1	11.0	156	0.5	46.7	21.0	958	3.74	5.2	0.7	0.9	11	0.3	0.2	0.1	83	0.14	0.087	3

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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
L45 0+375W	Soil			56	1.05	178	0.070	<1	2.30	0.015	0.05	<0.1	0.05	4.2	<0.1	<0.05	6	<0.5	<0.2
L45 0+400W	Soil			65	1.37	192	0.091	<1	2.07	0.008	0.20	0.1	0.01	5.5	<0.1	<0.05	6	<0.5	0.5
L55 0+000W	Soil			51	1.00	129	0.078	<1	2.37	0.011	0.06	<0.1	0.02	3.3	<0.1	<0.05	7	<0.5	0.3
L55 0+025W	Soil			40	0.69	290	0.088	<1	2.48	0.023	0.05	<0.1	0.06	4.7	<0.1	<0.05	8	<0.5	0.2
L55 0+050W	Soil			39	0.73	104	0.074	1	2.37	0.012	0.03	<0.1	0.03	2.6	<0.1	<0.05	6	<0.5	0.3
L55 0+075W	Soil			45	0.90	218	0.081	<1	2.16	0.014	0.05	0.1	0.02	2.9	<0.1	<0.05	7	<0.5	<0.2
L55 0+100W	Soil			46	0.72	92	0.076	<1	2.23	0.013	0.04	0.1	0.04	2.5	<0.1	<0.05	7	<0.5	0.4
L55 0+125W	Soil			65	1.01	88	0.070	<1	2.40	0.009	0.05	<0.1	0.04	3.0	<0.1	<0.05	7	<0.5	0.4
L55 0+150W	Soil			64	0.97	81	0.068	<1	2.33	0.009	0.06	<0.1	0.04	2.9	<0.1	<0.05	7	<0.5	0.5
L55 0+175W	Soil			61	0.94	92	0.069	2	2.47	0.010	0.05	0.1	0.03	3.0	<0.1	<0.05	7	<0.5	0.4
L55 0+200W	Soil			83	1.37	139	0.068	<1	2.42	0.013	0.07	<0.1	0.04	3.8	<0.1	<0.05	7	0.6	0.6
L55 0+225W	Soil			53	0.85	195	0.085	<1	2.01	0.018	0.04	<0.1	0.03	2.6	<0.1	<0.05	7	0.7	0.2
L55 0+250W	Soil			32	0.54	79	0.047	<1	1.38	0.009	0.04	0.1	0.03	1.9	<0.1	<0.05	6	<0.5	0.5
L55 0+275W	Soil			38	0.71	282	0.077	<1	1.98	0.015	0.04	<0.1	0.05	3.2	<0.1	<0.05	7	<0.5	0.3
L55 0+300W	Soil			44	0.81	401	0.036	1	2.16	0.013	0.05	<0.1	0.10	3.4	<0.1	0.05	6	1.0	0.2
L55 0+325W	Soil			25	0.52	236	0.069	<1	1.40	0.014	0.04	<0.1	0.03	2.1	<0.1	<0.05	6	0.5	<0.2
L55 0+350W	Soil			23	0.41	71	0.048	<1	1.35	0.007	0.05	0.1	0.02	2.2	<0.1	<0.05	5	<0.5	0.3
L55 0+375W	Soil			35	0.60	258	0.025	1	2.14	0.015	0.04	<0.1	0.12	1.6	0.1	<0.05	7	0.9	<0.2
L55 0+400W	Soil			55	1.02	346	0.049	<1	2.49	0.012	0.07	<0.1	0.06	4.5	0.1	<0.05	6	0.7	0.3
L55 0+025E	Soil			41	0.70	146	0.099	1	2.72	0.020	0.06	<0.1	0.10	4.4	<0.1	<0.05	8	0.5	<0.2
L55 0+050E	Soil			78	1.53	344	0.066	1	2.91	0.012	0.09	<0.1	0.05	5.5	<0.1	<0.05	7	0.8	0.2
L55 0+075E	Soil			71	1.28	169	0.058	<1	2.26	0.010	0.08	<0.1	0.02	4.3	<0.1	<0.05	5	0.7	1.1
L55 0+100E	Soil			43	0.90	93	0.086	1	2.37	0.010	0.06	0.1	0.03	3.0	<0.1	<0.05	7	0.5	0.5
L55 0+125E	Soil			52	1.12	107	0.079	<1	2.33	0.009	0.08	<0.1	0.02	3.4	<0.1	<0.05	7	0.6	0.6
L55 0+150E	Soil			45	0.85	104	0.080	<1	2.41	0.011	0.06	<0.1	0.03	2.6	<0.1	<0.05	7	<0.5	0.3
L55 0+175E	Soil			48	0.86	149	0.083	<1	2.58	0.011	0.06	<0.1	0.04	3.1	<0.1	<0.05	8	<0.5	0.3
L55 0+200E	Soil			81	1.54	119	0.076	1	2.53	0.010	0.08	<0.1	0.02	4.0	<0.1	<0.05	7	0.6	0.2
L55 0+225E	Soil			76	1.28	113	0.078	<1	2.94	0.010	0.05	<0.1	0.03	3.8	<0.1	<0.05	8	<0.5	0.2
L55 0+250E	Soil			74	1.42	124	0.088	1	2.81	0.009	0.09	<0.1	0.03	3.6	<0.1	<0.05	8	<0.5	<0.2
L55 0+275E	Soil			78	1.52	104	0.068	<1	2.89	0.008	0.07	<0.1	0.05	3.9	<0.1	<0.05	8	<0.5	<0.2

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Project: WHIPSAW-S  
 Report Date: October 07, 2011

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CERTIFICATE OF ANALYSIS

VAN11003703.1

Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L55 0+300E	Soil		0.9	49.7	10.8	138	0.4	40.3	17.6	729	3.46	4.4	<0.5	1.1	11	0.4	0.1	0.1	80	0.13	0.059	4
L55 0+325E	Soil		1.8	84.1	19.4	232	2.4	47.5	16.4	1981	3.43	6.9	1.7	1.0	33	1.7	0.3	0.2	74	0.51	0.053	11
L55 0+350E	Soil		2.1	134.3	16.6	365	3.9	53.3	17.4	1228	3.69	11.7	5.1	1.2	30	1.9	0.3	0.2	79	0.44	0.046	12
L55 0+375E	Soil		2.4	141.6	19.4	1583	3.1	38.3	15.7	1623	3.18	12.3	5.5	0.8	36	7.7	0.3	0.2	67	0.59	0.076	13
L55 0+400E	Soil		0.8	57.1	22.9	791	2.2	33.4	16.3	469	3.02	12.5	4.2	0.6	19	2.3	0.4	0.2	74	0.29	0.039	3
L65 0+000W	Soil		1.1	69.7	38.1	356	0.8	20.2	11.8	241	2.90	18.7	2.8	0.6	23	1.0	0.3	0.3	75	0.42	0.077	3
L65 0+025W	Soil		1.6	74.7	37.9	436	1.7	19.9	14.3	483	2.91	13.0	3.7	0.9	24	1.2	0.3	0.3	70	0.38	0.049	5
L65 0+050W	Soil		1.6	69.7	43.1	254	1.3	16.5	11.8	383	2.95	20.3	37.1	0.7	9	1.3	0.4	0.5	71	0.13	0.079	4
L65 0+075W	Soil		2.1	78.8	28.3	333	1.4	26.2	14.3	335	2.94	16.8	6.7	0.8	16	0.6	0.3	0.3	68	0.21	0.086	4
L65 0+100W	Soil		1.4	39.6	26.9	319	1.3	16.7	8.4	576	1.92	7.1	18.3	0.4	24	0.8	0.3	0.2	48	0.51	0.056	2
L65 0+125W	Soil		2.1	73.3	33.4	209	1.0	22.4	10.9	241	2.46	15.3	2.3	0.7	12	0.8	0.4	0.2	64	0.13	0.099	3
L65 0+150W	Soil		2.4	127.4	32.1	247	1.0	22.5	10.3	197	2.43	20.9	5.8	0.6	14	0.9	0.5	0.3	67	0.16	0.086	3
L65 0+175W	Soil		2.2	261.8	41.1	427	2.1	40.6	16.8	645	3.12	22.9	9.8	0.6	28	1.1	0.8	0.3	78	0.38	0.049	8
L65 0+200W	Soil		1.9	171.7	25.2	337	2.7	33.6	14.0	588	3.01	14.6	5.1	0.6	31	0.7	0.4	0.2	73	0.33	0.056	8
L65 0+225W	Soil		1.7	99.1	19.7	217	1.9	26.7	11.3	481	2.71	8.0	8.9	0.7	32	0.7	0.2	0.2	66	0.35	0.051	10
L65 0+250W	Soil		1.2	129.2	28.5	301	4.1	25.5	10.6	655	2.71	9.0	17.2	0.6	36	1.7	0.2	0.3	61	0.37	0.062	19
L65 0+275W	Soil		1.2	176.5	36.8	332	5.1	35.1	14.4	804	3.24	14.1	13.7	0.4	55	2.1	0.3	0.3	72	0.68	0.069	24
L65 0+300W	Soil		0.8	88.3	22.9	222	2.3	19.6	8.6	426	2.05	5.6	5.4	0.6	44	1.3	0.2	0.2	50	0.49	0.049	21
L65 0+325W	Soil		0.9	41.2	23.3	145	2.5	6.1	4.4	221	1.40	3.5	4.1	0.4	25	0.6	0.1	0.2	35	0.24	0.038	7
L65 0+350W	Soil		1.0	53.7	21.6	180	5.2	11.9	6.2	196	1.70	5.1	11.8	0.3	34	0.6	0.1	0.2	43	0.37	0.076	10
L65 0+375W	Soil		2.3	158.5	42.4	352	8.4	27.4	13.8	1169	3.38	17.4	20.3	0.3	43	1.5	0.5	0.2	75	0.47	0.092	27
L65 0+400W	Soil		1.6	77.4	30.9	309	3.8	22.6	12.9	441	2.72	11.0	21.6	0.5	21	1.0	0.3	0.3	66	0.21	0.069	6
L65 0+425W	Soil		1.7	85.9	20.1	285	1.6	25.2	12.7	411	2.96	12.4	61.4	0.7	20	0.7	0.3	0.2	72	0.24	0.077	5
L75 0+050W	Soil		2.4	126.5	55.8	602	2.2	31.7	15.0	388	3.29	26.7	6.1	0.8	24	1.6	0.4	0.3	83	0.35	0.048	6
L75 0+075W	Soil		2.6	70.2	25.4	198	0.8	21.4	9.0	171	2.55	15.0	2.3	0.4	15	0.9	0.5	0.2	77	0.18	0.030	3
L75 0+100W	Soil		2.9	138.7	25.2	404	2.7	33.5	9.8	562	2.61	11.7	7.1	1.3	36	2.5	0.3	0.2	62	0.42	0.052	6
L75 0+125W	Soil		2.5	155.0	38.7	485	4.3	32.7	12.3	596	2.95	14.3	4.8	0.6	39	1.8	0.4	0.3	73	0.52	0.047	8
L75 0+150W	Soil		1.7	114.5	32.9	355	1.3	32.4	15.4	974	2.77	11.2	3.2	0.7	41	1.8	0.4	0.2	75	0.49	0.039	8
L75 0+175W	Soil		2.1	97.6	26.2	278	1.3	38.2	14.9	275	3.35	19.0	9.1	0.7	18	1.0	0.5	0.2	87	0.21	0.077	4
L75 0+200W	Soil		2.5	124.3	32.2	341	1.4	33.2	13.4	518	3.13	17.7	7.0	0.7	18	0.7	0.7	0.3	78	0.23	0.067	5

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CERTIFICATE OF ANALYSIS

VAN11003703.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
L55 0+300E	Soil			67	1.23	109	0.080	<1	2.61	0.010	0.05	<0.1	0.03	3.6	<0.1	<0.05	8	<0.5	<0.2
L55 0+325E	Soil			59	1.09	223	0.085	1	2.91	0.017	0.06	<0.1	0.06	4.7	<0.1	<0.05	8	1.0	<0.2
L55 0+350E	Soil			70	1.20	207	0.098	1	3.09	0.015	0.07	<0.1	0.06	5.0	0.1	<0.05	9	0.8	<0.2
L55 0+375E	Soil			55	0.98	171	0.087	1	2.68	0.018	0.06	<0.1	0.09	4.2	<0.1	<0.05	8	1.3	<0.2
L55 0+400E	Soil			59	1.22	104	0.081	<1	2.12	0.010	0.05	<0.1	0.03	3.3	<0.1	<0.05	6	<0.5	0.4
L65 0+000W	Soil			39	0.88	191	0.083	<1	1.85	0.011	0.05	<0.1	0.02	2.4	<0.1	<0.05	7	<0.5	0.4
L65 0+025W	Soil			29	0.74	237	0.109	1	2.04	0.018	0.05	<0.1	0.07	3.0	<0.1	<0.05	8	1.0	<0.2
L65 0+050W	Soil			32	0.66	93	0.071	<1	1.76	0.010	0.04	<0.1	0.03	2.3	<0.1	<0.05	7	<0.5	0.4
L65 0+075W	Soil			47	0.83	121	0.072	<1	2.22	0.010	0.06	<0.1	0.04	2.6	<0.1	<0.05	7	<0.5	0.3
L65 0+100W	Soil			31	0.52	243	0.071	3	1.39	0.011	0.14	<0.1	0.08	1.7	<0.1	<0.05	6	0.7	<0.2
L65 0+125W	Soil			46	0.71	67	0.072	<1	1.97	0.011	0.04	<0.1	0.05	2.3	<0.1	<0.05	7	<0.5	<0.2
L65 0+150W	Soil			43	0.62	81	0.081	1	1.99	0.014	0.04	<0.1	0.04	2.4	<0.1	<0.05	7	<0.5	0.2
L65 0+175W	Soil			71	1.12	183	0.086	<1	2.49	0.016	0.06	<0.1	0.03	4.4	<0.1	<0.05	7	0.6	0.3
L65 0+200W	Soil			54	0.82	293	0.091	<1	2.44	0.020	0.05	<0.1	0.03	3.7	<0.1	<0.05	8	0.7	<0.2
L65 0+225W	Soil			46	0.81	269	0.088	<1	2.33	0.017	0.05	<0.1	0.04	3.7	0.1	<0.05	8	<0.5	0.2
L65 0+250W	Soil			42	0.68	318	0.083	<1	2.24	0.017	0.04	<0.1	0.09	4.4	0.1	<0.05	8	0.8	<0.2
L65 0+275W	Soil			57	1.00	436	0.057	1	2.80	0.016	0.06	<0.1	0.09	6.0	0.1	<0.05	8	1.2	<0.2
L65 0+300W	Soil			34	0.64	369	0.088	2	1.77	0.019	0.06	<0.1	0.10	3.2	<0.1	<0.05	8	0.6	<0.3
L65 0+325W	Soil			11	0.18	202	0.102	<1	1.02	0.022	0.03	<0.1	0.02	1.5	<0.1	<0.05	7	0.6	<0.2
L65 0+350W	Soil			25	0.42	230	0.075	<1	1.38	0.017	0.05	<0.1	0.09	2.0	<0.1	<0.05	7	0.6	0.3
L65 0+375W	Soil			51	0.83	380	0.053	<1	2.65	0.016	0.07	<0.1	0.09	5.5	<0.1	<0.05	8	2.2	0.3
L65 0+400W	Soil			45	0.78	170	0.086	<1	1.91	0.014	0.05	<0.1	0.04	3.1	<0.1	<0.05	8	<0.5	0.4
L65 0+425W	Soil			52	0.87	172	0.084	1	2.28	0.011	0.08	0.1	0.05	3.7	<0.1	<0.05	7	<0.5	0.5
L75 0+050W	Soil			44	0.80	245	0.108	<1	2.86	0.016	0.05	<0.1	0.05	3.7	<0.1	<0.05	8	0.9	<0.2
L75 0+075W	Soil			47	0.71	102	0.087	<1	1.62	0.010	0.04	<0.1	0.03	3.0	<0.1	<0.05	7	0.6	<0.2
L75 0+100W	Soil			37	0.53	301	0.132	<1	2.85	0.027	0.05	<0.1	0.04	3.4	<0.1	<0.05	9	1.0	<0.2
L75 0+125W	Soil			44	0.64	303	0.099	<1	2.65	0.025	0.05	<0.1	0.05	3.7	<0.1	<0.05	8	1.2	<0.2
L75 0+150W	Soil			61	0.99	256	0.099	<1	2.05	0.016	0.05	<0.1	0.03	4.1	<0.1	<0.05	7	0.6	<0.2
L75 0+175W	Soil			78	1.24	91	0.093	<1	2.49	0.012	0.05	<0.1	0.03	4.0	<0.1	<0.05	8	<0.5	0.2
L75 0+200W	Soil			61	0.87	182	0.100	<1	2.69	0.013	0.06	<0.1	0.03	3.6	<0.1	<0.05	9	<0.5	0.2

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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L75 0+225W	Soil		2.1	71.2	29.6	169	0.8	19.9	8.8	186	2.62	13.6	3.9	0.5	17	0.3	0.5	0.2	71	0.23	0.119	3
L75 0+250W	Soil		1.6	146.7	40.8	386	4.6	36.8	16.1	1383	3.38	13.8	16.7	0.9	31	2.9	0.4	0.3	80	0.34	0.078	22
L75 0+275W	Soil		1.4	132.3	36.9	300	3.7	31.5	13.6	643	3.11	10.4	7.1	0.4	36	1.2	0.3	0.2	76	0.43	0.063	17
L75 0+300W	Soil		0.6	50.4	20.7	211	1.1	15.2	8.5	333	2.26	5.7	3.5	0.7	27	0.4	0.1	0.2	58	0.30	0.041	7
L75 0+325W	Soil		0.9	38.4	17.1	168	1.4	13.6	7.7	259	2.25	5.6	9.3	0.3	31	0.8	0.1	0.2	52	0.23	0.065	7
L75 0+350W	Soil		2.1	104.6	26.6	310	2.2	28.7	15.3	760	3.56	12.3	8.2	0.7	36	0.7	0.3	0.6	82	0.36	0.079	11
L75 0+375W	Soil		1.4	94.2	26.5	311	2.6	29.1	13.4	602	3.19	9.0	4.0	0.9	34	0.7	0.3	0.2	78	0.35	0.049	9
L75 0+400W	Soil		1.9	112.2	19.0	295	1.4	41.6	18.5	674	3.42	8.2	7.0	0.6	36	0.6	0.3	0.3	87	0.36	0.048	9
L85 0+000W	Soil		2.9	202.0	131.4	604	1.0	56.1	27.7	969	5.25	44.2	14.0	1.2	31	1.7	0.7	0.8	125	0.39	0.071	7
L85 0+025W	Soil		2.6	188.6	123.7	611	1.8	48.5	24.2	1279	4.72	44.4	13.4	1.0	39	2.6	0.9	0.7	112	0.50	0.081	7
L85 0+050W	Soil		1.4	74.0	44.8	302	1.2	46.3	20.8	648	3.82	12.0	5.6	0.7	21	1.3	0.2	0.2	98	0.22	0.072	4
L85 0+075W	Soil		1.9	84.0	54.0	395	1.7	38.6	18.5	418	3.75	19.3	3.7	0.7	20	1.0	0.3	0.4	99	0.22	0.073	3
L85 0+100W	Soil		1.2	57.4	17.6	215	1.1	51.8	21.1	472	3.88	7.5	<0.5	0.7	23	0.9	0.1	0.2	96	0.23	0.066	3
L85 0+125W	Soil		1.9	91.6	31.3	219	1.7	25.6	11.6	256	2.72	15.4	5.5	0.6	16	0.6	0.4	0.3	72	0.20	0.079	3
L85 0+150W	Soil		2.3	127.4	47.8	361	1.5	35.2	16.1	752	3.07	39.9	6.4	0.5	21	1.0	2.0	0.3	79	0.33	0.090	3
L85 0+175W	Soil		2.4	114.9	32.2	327	1.1	36.0	17.5	330	3.30	22.8	20.2	0.9	16	0.7	0.6	0.3	84	0.18	0.081	3
L85 0+200W	Soil		1.9	77.8	26.1	227	1.3	23.0	11.6	334	2.85	12.6	2.5	0.6	13	0.8	0.4	0.2	72	0.16	0.081	4
L85 0+225W	Soil		0.7	24.6	21.3	211	1.0	10.4	6.9	198	2.45	8.1	7.9	0.8	11	0.5	0.3	0.3	61	0.17	0.099	6
L85 0+250W	Soil		0.9	77.6	34.4	363	0.9	37.7	17.1	618	3.36	10.5	7.2	0.8	30	0.6	0.3	0.2	88	0.38	0.055	7
L85 0+275W	Soil		1.3	76.2	25.0	202	1.4	25.1	14.1	821	3.16	9.4	4.8	0.8	26	0.5	0.2	0.3	76	0.32	0.074	8
L85 0+300W	Soil		1.2	99.7	25.7	264	2.0	36.4	16.6	436	3.36	10.4	5.4	0.8	34	0.3	0.3	0.3	86	0.39	0.038	6
L85 0+325W	Soil		1.0	29.7	16.0	130	0.9	14.7	8.2	203	2.60	6.6	8.9	0.7	13	0.4	0.2	0.2	64	0.11	0.070	4
L85 0+350W	Soil		1.9	102.1	19.6	278	0.7	43.4	18.5	745	3.93	10.8	16.2	0.8	31	0.7	0.3	0.2	97	0.38	0.055	6
L85 0+375W	Soil		1.6	118.7	44.0	300	3.6	29.2	14.0	1860	3.56	12.8	7.3	0.7	53	1.6	0.5	0.4	76	0.56	0.097	19
L85 0+400W	Soil		1.4	39.9	14.7	208	1.2	17.7	8.3	177	2.47	7.2	16.0	0.6	25	0.9	0.2	0.2	59	0.28	0.108	4
L85 0+425W	Soil		2.7	160.0	44.5	367	1.7	42.5	21.9	782	4.15	24.2	53.1	1.2	28	0.8	0.6	0.4	99	0.40	0.096	9
L85 0+450W	Soil		3.3	160.3	29.1	255	0.8	45.0	24.9	860	4.11	22.9	22.7	1.4	30	0.9	0.8	0.2	89	0.43	0.070	7
L85 0+475W	Soil		1.9	99.5	25.5	333	2.9	22.5	10.6	226	2.72	16.0	20.8	0.7	14	0.9	0.4	0.3	69	0.16	0.061	5
L85 0+500W	Soil		1.6	133.5	31.7	388	4.0	32.3	15.4	1298	3.17	10.3	4.9	0.6	48	1.7	0.4	0.4	74	0.48	0.058	13
L85 0+525W	Soil		2.6	144.5	31.9	316	1.2	46.9	22.8	721	4.24	24.0	14.6	1.0	35	0.5	0.5	0.3	106	0.46	0.090	7

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Project: WHIPSAW-S  
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CERTIFICATE OF ANALYSIS

VAN11003703.1

Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
L75 0+225W	Soil			41	0.59	105	0.081	<1	1.74	0.012	0.07	<0.1	0.06	2.5	<0.1	<0.05	8	0.7	0.3
L75 0+250W	Soil			57	1.03	443	0.078	<1	2.75	0.016	0.09	<0.1	0.10	6.7	0.1	<0.05	8	1.3	0.3
L75 0+275W	Soil			55	0.99	309	0.074	<1	2.76	0.016	0.07	<0.1	0.06	5.0	<0.1	<0.05	8	0.7	<0.2
L75 0+300W	Soil			29	0.48	351	0.101	<1	1.60	0.020	0.05	<0.1	0.01	2.5	<0.1	<0.05	8	<0.5	<0.2
L75 0+325W	Soil			30	0.51	286	0.079	<1	1.43	0.014	0.05	<0.1	0.04	2.1	<0.1	<0.05	8	<0.5	<0.2
L75 0+350W	Soil			54	0.99	302	0.094	<1	2.76	0.017	0.07	0.1	0.05	4.4	<0.1	<0.05	9	0.6	0.6
L75 0+375W	Soil			54	0.93	298	0.102	<1	2.69	0.020	0.07	<0.1	0.03	4.2	<0.1	<0.05	9	<0.5	<0.2
L75 0+400W	Soil			83	1.53	242	0.095	<1	2.87	0.014	0.06	<0.1	0.03	5.0	<0.1	<0.05	8	<0.5	0.3
L85 0+000W	Soil			98	2.10	158	0.088	<1	3.41	0.013	0.20	<0.1	0.02	9.3	0.1	<0.05	8	1.3	1.0
L85 0+025W	Soil			84	1.76	189	0.082	<1	2.92	0.011	0.15	<0.1	0.05	8.1	<0.1	<0.05	8	1.1	0.9
L85 0+050W	Soil			82	1.58	117	0.089	1	2.94	0.010	0.08	<0.1	0.03	4.8	<0.1	<0.05	8	0.9	0.2
L85 0+075W	Soil			68	1.35	105	0.091	<1	2.99	0.013	0.08	<0.1	0.03	4.5	<0.1	<0.05	8	0.9	0.4
L85 0+100W	Soil			96	1.83	122	0.091	<1	3.00	0.010	0.09	<0.1	0.03	4.8	<0.1	<0.05	8	<0.5	<0.2
L85 0+125W	Soil			51	0.80	122	0.088	<1	2.06	0.013	0.04	<0.1	0.03	3.4	<0.1	<0.05	8	<0.5	0.3
L85 0+150W	Soil			72	1.00	140	0.079	1	2.31	0.011	0.06	<0.1	0.08	3.7	<0.1	<0.05	7	<0.5	0.4
L85 0+175W	Soil			71	1.08	89	0.096	<1	2.58	0.012	0.06	<0.1	0.04	4.1	<0.1	<0.05	7	<0.5	0.3
L85 0+200W	Soil			48	0.72	123	0.089	1	2.02	0.011	0.04	<0.1	0.05	2.9	<0.1	<0.05	7	0.6	0.2
L85 0+225W	Soil			20	0.42	117	0.069	<1	1.38	0.010	0.06	0.1	0.03	2.2	<0.1	<0.05	7	<0.5	0.3
L85 0+250W	Soil			75	1.29	279	0.098	2	2.53	0.012	0.06	<0.1	0.02	3.9	<0.1	<0.05	8	<0.5	0.3
L85 0+275W	Soil			45	0.80	237	0.094	1	2.30	0.015	0.06	<0.1	0.03	3.2	<0.1	<0.05	9	<0.5	0.3
L85 0+300W	Soil			71	1.28	357	0.098	2	2.56	0.013	0.06	<0.1	0.03	4.3	<0.1	<0.05	7	<0.5	0.3
L85 0+325W	Soil			32	0.50	90	0.082	1	1.71	0.014	0.04	0.1	0.05	2.0	<0.1	<0.05	8	<0.5	<0.2
L85 0+350W	Soil			91	1.80	220	0.104	1	2.76	0.015	0.09	0.1	0.01	5.2	<0.1	<0.05	8	<0.5	0.5
L85 0+375W	Soil			48	0.79	505	0.065	2	3.25	0.016	0.11	<0.1	0.09	5.6	0.1	0.06	9	0.6	0.3
L85 0+400W	Soil			37	0.60	140	0.079	1	1.80	0.014	0.05	<0.1	0.06	2.1	<0.1	<0.05	8	<0.5	0.3
L85 0+425W	Soil			81	1.55	244	0.102	1	2.46	0.011	0.25	<0.1	0.02	6.3	0.1	<0.05	7	<0.5	1.4
L85 0+450W	Soil			85	1.61	200	0.085	<1	2.36	0.015	0.20	<0.1	0.02	6.2	0.1	<0.05	6	<0.5	0.7
L85 0+475W	Soil			42	0.59	156	0.086	1	2.19	0.010	0.06	<0.1	0.06	2.9	<0.1	<0.05	8	<0.5	0.5
L85 0+500W	Soil			52	0.80	365	0.091	1	2.83	0.019	0.06	<0.1	0.05	4.0	<0.1	<0.05	8	<0.5	0.4
L85 0+525W	Soil			92	1.69	219	0.096	1	2.87	0.012	0.15	<0.1	0.02	5.7	<0.1	<0.05	7	<0.5	0.7

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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
L85 0+550W	Soil	3.1	197.8	25.3	379	1.5	47.7	23.8	614	4.52	22.2	66.3	1.1	23	1.0	0.5	0.5	117	0.29	0.045	6
L85 0+575W	Soil	1.6	88.0	24.6	320	2.1	27.6	15.5	437	3.02	10.9	10.9	0.7	21	0.8	0.2	0.3	75	0.25	0.070	4
L85 0+600W	Soil	2.3	145.9	19.5	195	1.0	41.4	20.2	699	3.77	14.5	28.7	1.2	30	0.4	0.3	0.2	95	0.38	0.078	8
L95 0+000W	Soil	1.1	40.1	27.3	268	1.2	35.6	16.2	358	3.11	9.2	1.8	0.8	16	1.2	0.1	0.2	81	0.20	0.058	4
L95 0+025W	Soil	1.4	65.8	40.1	733	1.3	43.8	18.6	914	3.59	18.6	9.2	0.9	27	2.0	0.3	0.6	94	0.45	0.048	4
L95 0+050W	Soil	3.3	243.3	315.0	694	1.2	48.4	32.5	1285	6.01	81.9	34.9	1.6	38	2.2	1.1	1.2	139	0.47	0.092	10
L95 0+075W	Soil	2.5	212.1	263.7	595	0.7	55.3	30.3	942	6.02	52.0	43.0	1.5	37	1.7	0.8	2.2	144	0.41	0.075	9
L95 0+100W	Soil	1.5	47.2	39.6	324	1.4	29.5	14.2	275	3.13	11.1	1.9	0.7	12	1.0	0.2	0.3	79	0.13	0.045	3
L95 0+125W	Soil	1.7	88.9	26.5	246	1.1	41.6	17.3	353	3.59	14.4	5.4	0.8	22	0.9	0.5	0.2	93	0.26	0.056	4
L95 0+150W	Soil	2.7	178.3	88.2	386	1.0	49.4	25.2	727	4.44	39.4	15.9	1.1	29	1.0	1.0	0.4	113	0.44	0.071	6
L95 0+200W	Soil	1.4	99.4	34.9	209	1.0	31.1	19.0	942	3.61	16.7	35.4	1.2	27	0.6	0.4	0.3	85	0.44	0.098	9
L95 0+225W	Soil	1.1	53.4	32.9	168	0.8	19.9	11.0	434	2.83	15.2	13.8	0.7	19	0.6	0.3	0.2	72	0.25	0.067	6
L95 0+250W	Soil	1.4	83.1	59.7	230	2.0	24.0	12.8	1795	3.23	9.6	3.2	0.7	40	1.1	0.3	0.2	74	0.48	0.079	14
L95 0+275W	Soil	2.0	90.5	28.7	167	0.5	26.4	15.3	653	3.18	13.1	47.5	1.1	25	0.4	0.3	0.2	78	0.42	0.115	8
L95 0+300W	Soil	0.9	77.6	31.0	186	0.4	18.7	15.0	826	3.84	17.1	14.0	2.3	22	0.2	0.4	0.3	79	0.55	0.195	17
L95 0+325W	Soil	0.9	77.8	27.2	455	0.9	36.0	17.0	409	3.36	11.1	11.9	0.8	24	0.6	0.3	0.2	79	0.31	0.047	5
L95 0+350W	Soil	1.3	46.2	24.2	209	1.0	24.2	10.9	285	2.71	8.8	3.1	0.7	14	0.6	0.2	0.2	72	0.16	0.095	3
L95 0+375W	Soil	2.6	69.2	25.5	344	1.3	29.3	14.3	339	3.40	15.5	10.9	0.7	17	0.6	0.4	0.3	87	0.20	0.072	4
L95 0+400W	Soil	1.1	141.8	28.1	431	3.1	31.8	14.0	786	3.20	11.7	6.5	0.9	38	1.3	0.3	0.3	77	0.37	0.048	12
L95 0+425W	Soil	1.4	66.6	16.6	350	1.1	33.4	15.0	323	3.23	9.1	9.6	0.8	22	0.8	0.2	0.3	84	0.24	0.075	4
L95 0+450W	Soil	1.3	45.5	23.7	529	1.7	30.0	10.6	232	2.76	13.4	35.9	0.5	15	0.7	0.3	0.5	81	0.18	0.060	2
L95 0+475W	Soil	1.7	117.9	27.1	287	4.0	33.2	15.9	1228	3.28	9.7	6.3	0.8	56	1.5	0.4	0.3	75	0.55	0.061	13
L95 0+500W	Soil	1.5	62.9	18.5	214	1.0	30.6	13.0	278	2.96	8.2	8.7	0.5	25	0.7	0.3	0.2	79	0.26	0.047	4
L95 0+525W	Soil	2.2	155.2	36.1	202	5.6	23.1	19.6	1412	2.83	12.1	8.2	0.5	61	1.5	0.3	0.3	67	0.59	0.075	21
L95 0+550W	Soil	0.8	20.8	9.6	86	2.5	11.2	4.3	100	1.73	3.2	2.5	0.3	13	0.4	0.1	0.2	45	0.18	0.095	2
L95 0+575W	Soil	1.4	87.5	11.9	253	1.1	33.7	15.9	458	3.12	5.8	4.5	0.7	27	0.7	0.2	0.2	78	0.25	0.050	5
L95 0+600W	Soil	1.6	46.7	12.7	129	1.0	13.1	6.0	124	2.15	5.2	7.4	0.7	12	0.5	0.2	0.2	49	0.09	0.063	3



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Method	Analyte	Unit	MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm		
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
L85 0+550W	Soil			97	2.10	116	0.120	1	3.07	0.014	0.19	<0.1	0.02	6.9	0.1	<0.05	7	<0.5	1.5
L85 0+575W	Soil			54	0.97	131	0.097	1	2.37	0.013	0.06	<0.1	0.05	3.1	<0.1	<0.05	8	<0.5	0.4
L85 0+600W	Soil			78	1.49	218	0.103	1	2.72	0.016	0.17	<0.1	0.02	5.4	<0.1	<0.05	7	<0.5	0.6
L95 0+000W	Soil			64	1.11	115	0.101	2	2.55	0.011	0.05	<0.1	0.04	3.3	<0.1	<0.05	8	<0.5	<0.2
L95 0+025W	Soil			76	1.49	213	0.094	<1	3.15	0.020	0.06	<0.1	0.03	4.7	<0.1	<0.05	9	<0.5	0.6
L95 0+050W	Soil			81	1.83	183	0.084	1	3.17	0.013	0.21	<0.1	0.02	10.1	0.1	<0.05	8	1.2	1.5
L95 0+075W	Soil			101	2.21	167	0.088	<1	3.63	0.014	0.27	<0.1	0.02	10.0	0.1	<0.05	8	1.0	2.6
L95 0+100W	Soil			53	0.97	114	0.087	<1	2.37	0.011	0.04	<0.1	0.04	2.9	<0.1	<0.05	8	<0.5	0.3
L95 0+125W	Soil			84	1.39	145	0.102	1	2.74	0.012	0.05	<0.1	0.01	4.1	<0.1	<0.05	8	<0.5	0.2
L95 0+150W	Soil			97	1.85	164	0.110	1	2.98	0.015	0.20	<0.1	0.02	6.6	0.1	<0.05	7	<0.5	0.6
L95 0+200W	Soil			55	1.19	296	0.096	<1	2.37	0.012	0.20	<0.1	0.04	4.9	0.1	<0.05	7	<0.5	0.3
L95 0+225W	Soil			37	0.67	190	0.092	1	1.84	0.012	0.10	<0.1	0.04	3.2	<0.1	<0.05	9	<0.5	0.2
L95 0+250W	Soil			40	0.69	446	0.097	1	2.81	0.018	0.08	<0.1	0.06	4.1	<0.1	<0.05	10	0.5	<0.2
L95 0+275W	Soil			52	1.07	242	0.095	2	2.05	0.011	0.18	<0.1	0.02	4.3	<0.1	<0.05	6	<0.5	0.4
L95 0+300W	Soil			34	1.02	418	0.112	<1	1.82	0.012	0.43	<0.1	0.02	5.3	0.1	<0.05	7	<0.5	0.4
L95 0+325W	Soil			69	1.26	187	0.094	<1	2.41	0.012	0.08	<0.1	0.02	3.8	<0.1	<0.05	7	<0.5	0.3
L95 0+350W	Soil			53	0.87	106	0.077	<1	2.05	0.012	0.05	<0.1	0.05	2.8	<0.1	<0.05	7	<0.5	0.3
L95 0+375W	Soil			61	1.02	123	0.090	<1	2.51	0.013	0.06	<0.1	0.04	3.6	<0.1	<0.05	8	<0.5	0.7
L95 0+400W	Soil			50	0.81	410	0.091	<1	3.06	0.021	0.08	<0.1	0.05	4.4	<0.1	<0.05	9	<0.5	0.3
L95 0+425W	Soil			69	1.17	131	0.094	<1	2.56	0.015	0.05	<0.1	0.03	3.5	<0.1	<0.05	8	<0.5	0.3
L95 0+450W	Soil			76	0.81	74	0.111	<1	1.78	0.011	0.04	<0.1	0.03	2.6	<0.1	<0.05	7	<0.5	1.2
L95 0+475W	Soil			56	0.97	416	0.078	1	2.89	0.019	0.07	<0.1	0.06	4.4	<0.1	<0.05	8	<0.5	0.3
L95 0+500W	Soil			63	1.09	157	0.100	1	2.10	0.014	0.06	<0.1	0.02	3.4	<0.1	<0.05	7	<0.5	0.4
L95 0+525W	Soil			40	0.64	463	0.064	1	2.67	0.018	0.08	<0.1	0.10	4.2	<0.1	<0.05	9	0.9	0.3
L95 0+550W	Soil			26	0.37	104	0.078	<1	1.05	0.010	0.04	<0.1	0.08	1.5	<0.1	<0.05	7	<0.5	0.3
L95 0+575W	Soil			73	1.32	189	0.082	<1	2.56	0.010	0.06	<0.1	0.04	3.6	<0.1	<0.05	7	<0.5	0.3
L95 0+600W	Soil			29	0.41	57	0.073	<1	1.76	0.010	0.04	<0.1	0.05	1.9	<0.1	<0.05	6	<0.5	0.3



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Project: WHIPSAW-S  
 Report Date: October 07, 2011

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# QUALITY CONTROL REPORT

VAN11003703.1

Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
L35 0+200W	Soil	3.1	124.9	16.1	134	0.6	22.3	11.7	329	2.43	10.7	14.8	0.9	22	0.3	0.4	0.3	56	0.26	0.082	5
REP L35 0+200W	QC	2.8	121.1	15.6	134	0.6	21.6	11.2	318	2.36	10.6	9.2	0.8	22	0.2	0.4	0.3	53	0.25	0.079	5
L55 0+050W	Soil	1.8	121.5	25.5	208	1.4	20.0	13.1	251	2.78	18.5	4.9	0.5	14	0.4	0.6	0.4	67	0.19	0.051	4
REP L55 0+050W	QC	1.8	120.9	27.1	214	1.4	20.3	13.6	263	2.88	18.2	13.6	0.5	15	0.4	0.6	0.4	67	0.19	0.052	4
L55 0+225W	Soil	1.3	137.4	24.3	321	3.1	30.0	13.1	443	2.65	11.2	7.8	0.6	26	0.9	0.3	0.2	65	0.33	0.046	6
REP L55 0+225W	QC	1.3	140.0	22.9	318	2.9	30.2	12.6	441	2.71	10.6	9.1	0.6	25	0.7	0.3	0.2	63	0.31	0.044	6
L65 0+150W	Soil	2.4	127.4	32.1	247	1.0	22.5	10.3	197	2.43	20.9	5.8	0.6	14	0.9	0.5	0.3	67	0.16	0.086	3
REP L65 0+150W	QC	2.2	125.0	31.9	238	0.9	21.6	10.4	193	2.57	20.4	7.4	0.6	13	0.9	0.5	0.2	65	0.15	0.083	3
L65 0+225W	Soil	1.7	99.1	19.7	217	1.9	26.7	11.3	481	2.71	8.0	8.9	0.7	32	0.7	0.2	0.2	66	0.35	0.051	10
REP L65 0+225W	QC	1.7	102.7	20.8	223	1.9	26.5	11.7	494	2.77	8.4	5.5	0.7	32	0.6	0.3	0.2	68	0.35	0.049	10
L75 0+325W	Soil	0.9	38.4	17.1	168	1.4	13.6	7.7	259	2.25	5.6	9.3	0.3	31	0.8	0.1	0.2	52	0.23	0.065	7
REP L75 0+325W	QC	0.8	38.6	17.9	167	1.5	14.1	7.8	262	2.28	5.6	26.5	0.2	30	0.7	0.2	0.2	52	0.24	0.063	6
L85 0+550W	Soil	3.1	197.8	25.3	379	1.5	47.7	23.8	614	4.52	22.2	66.3	1.1	23	1.0	0.5	0.5	117	0.29	0.045	6
REP L85 0+550W	QC	3.2	199.4	24.9	377	1.6	48.1	24.5	616	4.50	21.4	64.3	1.1	21	0.8	0.5	0.5	114	0.26	0.045	6
L95 0+500W	Soil	1.5	62.9	18.5	214	1.0	30.6	13.0	278	2.96	8.2	8.7	0.5	25	0.7	0.3	0.2	79	0.26	0.047	4
REP L95 0+500W	QC	1.5	62.7	18.2	220	1.0	30.3	13.2	276	2.95	7.8	3.8	0.5	24	0.7	0.2	0.2	76	0.25	0.047	4
Reference Materials																					
STD DS8	Standard	12.1	112.2	107.8	317	1.8	38.3	7.8	642	2.53	26.3	117.8	5.6	58	2.2	5.1	5.9	41	0.69	0.083	12
STD DS8	Standard	13.7	104.4	117.4	304	1.8	38.4	8.1	603	2.44	25.3	107.7	6.4	60	2.5	4.8	6.3	46	0.69	0.073	15
STD DS8	Standard	11.9	100.6	111.5	288	1.6	34.2	6.9	546	2.21	23.4	102.9	6.4	62	2.1	5.2	6.2	38	0.62	0.072	14
STD DS8	Standard	12.9	100.8	113.6	298	1.8	37.5	7.7	653	2.59	25.3	104.0	6.5	57	2.3	5.0	6.0	43	0.67	0.084	14
STD DS8	Standard	13.6	119.1	121.2	315	1.8	39.8	8.0	630	2.51	25.4	107.2	6.3	62	2.5	5.2	6.2	46	0.71	0.081	16
STD DS8	Standard	12.8	106.8	125.1	303	1.8	36.4	7.4	609	2.40	26.3	115.1	7.4	67	2.2	5.7	7.2	39	0.69	0.078	16
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	14.6
BLK	Blank	<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	<1
BLK	Blank	<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	<1
BLK	Blank	<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	<1
BLK	Blank	<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	<1



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QUALITY CONTROL REPORT

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Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte	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	
MDL	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	
Pulp Duplicates																	
L35 0+200W	Soil	42	0.79	138	0.063	<1	1.69	0.011	0.08	<0.1	0.02	3.1	<0.1	<0.05	5	<0.5	0.3
REP L35 0+200W	QC	41	0.77	130	0.060	<1	1.61	0.012	0.08	0.1	0.02	3.1	<0.1	<0.05	5	<0.5	0.3
L55 0+050W	Soil	39	0.73	104	0.074	1	2.37	0.012	0.03	<0.1	0.03	2.6	<0.1	<0.05	6	<0.5	0.3
REP L55 0+050W	QC	39	0.73	108	0.070	<1	2.34	0.012	0.04	<0.1	0.05	2.8	<0.1	<0.05	7	<0.5	0.3
L55 0+225W	Soil	53	0.85	195	0.085	<1	2.01	0.018	0.04	<0.1	0.03	2.6	<0.1	<0.05	7	0.7	0.2
REP L55 0+225W	QC	53	0.87	193	0.086	<1	1.97	0.018	0.04	<0.1	0.03	2.6	<0.1	<0.05	7	<0.5	0.2
L65 0+150W	Soil	43	0.62	81	0.081	1	1.99	0.014	0.04	<0.1	0.04	2.4	<0.1	<0.05	7	<0.5	0.2
REP L65 0+150W	QC	42	0.62	79	0.074	<1	1.90	0.012	0.04	0.1	0.04	2.3	<0.1	<0.05	7	<0.5	0.2
L65 0+225W	Soil	46	0.81	269	0.088	<1	2.33	0.017	0.05	<0.1	0.04	3.7	0.1	<0.05	8	<0.5	0.2
REP L65 0+225W	QC	49	0.82	281	0.087	<1	2.40	0.017	0.05	<0.1	0.05	3.9	<0.1	<0.05	8	0.5	0.2
L75 0+325W	Soil	30	0.51	286	0.079	<1	1.43	0.014	0.05	<0.1	0.04	2.1	<0.1	<0.05	8	<0.5	<0.2
REP L75 0+325W	QC	30	0.51	290	0.081	<1	1.44	0.014	0.06	<0.1	0.04	2.2	<0.1	<0.05	8	0.7	0.2
L85 0+550W	Soil	97	2.10	116	0.120	1	3.07	0.014	0.19	<0.1	0.02	6.9	0.1	<0.05	7	<0.5	1.5
REP L85 0+550W	QC	94	1.97	116	0.113	<1	2.98	0.015	0.18	<0.1	0.02	6.6	0.1	<0.05	7	0.6	1.6
L95 0+500W	Soil	63	1.09	157	0.100	1	2.10	0.014	0.06	<0.1	0.02	3.4	<0.1	<0.05	7	<0.5	0.4
REP L95 0+500W	QC	61	1.07	159	0.090	<1	2.03	0.019	0.05	<0.1	0.03	3.1	<0.1	<0.05	7	<0.5	0.5
Reference Materials																	
STD DS8	Standard	122	0.62	269	0.106	2	0.90	0.084	0.43	3.1	0.19	2.1	5.5	0.14	5	5.4	4.7
STD DS8	Standard	116	0.61	268	0.110	3	0.93	0.100	0.43	2.9	0.19	2.4	5.5	0.15	5	5.2	4.8
STD DS8	Standard	107	0.54	253	0.105	2	0.80	0.078	0.38	2.6	0.17	2.0	4.9	0.16	4	5.1	4.3
STD DS8	Standard	120	0.63	277	0.108	3	0.92	0.086	0.42	3.0	0.20	2.0	5.2	0.16	5	4.9	4.7
STD DS8	Standard	121	0.63	287	0.117	3	0.94	0.094	0.42	2.8	0.23	2.6	5.5	0.15	5	5.2	5.4
STD DS8	Standard	111	0.60	274	0.110	2	0.89	0.087	0.41	3.1	0.20	2.3	5.4	0.15	5	5.3	5.0
STD DS8 Expected		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	<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
BLK	Blank	<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
BLK	Blank	<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
BLK	Blank	<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

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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**Project:** WHIPSAW-S

**Report Date:** October 07, 2011

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## QUALITY CONTROL REPORT

VAN11003703.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
BLK	Blank	<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	<1
BLK	Blank	<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	<1





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**QUALITY CONTROL REPORT**

**VAN11003703.1**

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		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
BLK	Blank	<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
BLK	Blank	<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

## **Appendix C**

### **Statement of Expenditures**

## STATEMENT OF EXPENDITURES

The following represents a summary of those expenses filed for assessment, incurred on the Whipsaw Property between June 1<sup>st</sup> and September 1<sup>st</sup>, 2011, as represented by Charles Martin and/or Martech Industries Inc.

Expenditures have been allocated according to separate phases of the 2011 program. Some work, such as the Data Review / Evaluation, Property Orientation and the GPS Survey, represents preliminary work toward a NI 43-101 compliant report and represents on-going work, the results of which will be presented and summarized in a subsequent assessment report.

### Field Personnel

Charles Martin - Property Orientation / GPS Survey	
6 days at \$400 / day	\$ 2,400
K. Martin - Property Orientation - 2 days at \$400 / day	\$ 800
B. Bottcher - GPS Survey	\$ 908
R. Walker - Data Review / Evaluation - 1 day at \$650	\$ 650
Property Orientation - 3 days at \$650 / day	\$ 1,950
Flagging Grid - 4 days at \$650 / day	\$ 2,600
L. Walker - Flagging Grid - 4 days at \$150 / day	\$ 600
M. Martin - Pre - GPS survey - 2 days at \$400 / day	\$ 800
Soil Sampling - 5 days at \$400 / day	\$ 2,000
J. Dixon - Soil Sampling - 2 days at \$300 / day	\$ 600

### Room / Board

Accommodations - Property Orientation	\$ 618
Flagging	\$ 588
Soil Sampling	\$ 280
Meals - Property Orientation	\$ 442
Soil Sampling	\$ 400
Flagging	\$ 225

### Equipment

Quad - 10 man-days at \$200 / day	\$ 2,000
4WD Truck - Property Orientation - 8 days at \$75 / day	\$ 600
Flagging - 5 days at \$75 / day	\$ 375
Soil Sampling - 8 days at \$75 / day	\$ 600
- mileage - Property Orientation - 3,534 km at \$0.50 / day	\$ 1,767
- Flagging - 1,366 km at \$0.50 / km	\$ 683
- Soil Sampling - 1,400 km at \$0.50 / km	\$ 700
- Fuel - Property Orientation	\$ 345
- Flagging	\$ 305
- Soil Sampling	\$ 400

<b>Field Supplies</b> - 15 man-days at \$15 / day	\$ 225
<b>Analyses</b> - 148 soil samples	\$ 4,634
Shipping	\$ 55
Sample Storage - Acme Analytical (2010 samples)	\$ 340
<b>Miscellaneous</b>	
Airfare - Data Review / Evaluation	\$ 772
Core Storage - Dewdney Storage	\$ 1,000
Groceries	\$ 119
Vehicle Repairs	\$ 686
Report - 2 days at \$650 / day	\$ 1,300
Digitization - 2 days at \$650 / day	\$ 1,300
<b>Total</b>	<b><u>\$34,062</u></b>