

Ministry of Energy, Mines & Petroleum Resources
Mining & Minerals Division
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Geochemical

TOTAL COST: 35,177.08

AUTHOR(S): Jim Chapman

SIGNATURE(S): 

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): MX-4-399

YEAR OF WORK: 2014

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5541154

PROPERTY NAME: Whipsaw Creek

CLAIM NAME(S) (on which the work was done): 508920

COMMODITIES SOUGHT: Cu Mo

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: _____

MINING DIVISION: Similkameen

NTS/BCGS: 092H027, 092H037

LATITUDE: 49 ° 16 ' _____ " LONGITUDE: 120 ° 45 ' _____ " (at centre of work)

OWNER(S):

1) Martech Mining Inc.

2) _____

MAILING ADDRESS:

2680 Cambridge Street, Vancouver, BC, V5K 1L5

OPERATOR(S) [who paid for the work]:

1) Martech Mining Inc.

2) _____

MAILING ADDRESS:

2680 Cambridge Street, Vancouver, BC, V5K 1L5

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

The Whipsaw property contains mineralization that includes copper, molybdenum, gold, silver, zinc and lead, and is related to the Whipsaw Porphyry stock. The stock intrudes the west-dipping contact between the Upper Triassic Nicola Group volcanics and sediments, with the Jurassic-Cretaceous Eagle Granodiorite.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: _____

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for...)			
Soil 352 Au + 33 element ICP		508920	\$22027.93
Silt			
Rock			
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying 352 Au + 33 element ICP		508920	\$6981.66
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other Data Compilation		508920,508923, 508924, 508929	\$6167.49
TOTAL COST:			\$35177.08

BC Geological Survey
Assessment Report
35476

Soil Sampling and Data Compilation
Assessment Report

ON THE

Whipsaw Creek Property
Similkameen Mining Division
BRITISH COLUMBIA

NTS: 092H7
49°16' N North Latitude
120°45' West Longitude
(centre)

For
Martech Industries Inc.
Suite 1329 – 510 West Hastings Street
Vancouver, BC,
V6B 1L8

by

J. Chapman, P.Geo.
2705 West 5th Avenue.
Vancouver, BC
V6K 1T5

January 31, 2015,

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1. SUMMARY AND CONCLUSIONS

1.1 Property Description and Location

The Whipsaw property consists of seven mineral tenures and 1 mining lease covering 4,154.95 hectares located in the Similkameen Mining Division of south western British Columbia. The property is located 26 kilometers southwest of Princeton, B.C. and 170 kilometers east of Vancouver. Access is by 25 kilometers of logging road along Whipsaw Creek from Highway 3. The property is 16 kilometers west southwest of the Copper Mountain deposit currently in production by Copper Mountain Mining and Mitsubishi Materials Corporation. Martech Industries has controlled the property since 1987 when the current boundaries were established. The Whipsaw property contains mineralization that includes copper, molybdenum, gold, silver, zinc and lead related to the Whipsaw Porphyry stock.

1.2 Project History

After the original staking of gold-bearing, quartz-sulphide vein deposits in 1908, mineral claims covering various parts of the mineralized area have been more or less continually held by numerous owners. Major geochemical stream sediment and soil anomalies containing up to 1.8% copper were discovered in 1959 in two tributaries, Forty-five and Forty-seven Mile creeks, entering Whipsaw Creek from the north

Since 1959, various parts of the area in which the stream sediment anomalies originated were covered by claim groups with separate and unrelated ownerships. In 1987 all the properties were consolidated by Mr. Charles R. Martin, then President of World Wide Minerals Ltd.

1.3 Geology and Mineralization

The Whipsaw property contains mineralization that includes copper, molybdenum, gold, silver, zinc and lead, and is related to the Whipsaw Porphyry stock. The stock intrudes the west-dipping contact between the Upper Triassic Nicola Group volcanics and sediments, with the Jurassic-Cretaceous Eagle Granodiorite. Up to the present, copper, molybdenum and gold mineralization has been found mainly in the Nicola rocks, and appears to be spatially related to the margins of the Whipsaw Porphyry.

Drilling programs based on geophysical and geochemical surveys correlated with geology, have outlined extensive areas of 0.15-0.35% copper mineralization accompanied by significant amounts of molybdenum. In addition, soil sampling and limited follow-up mapping has indicated widespread gold and silver anomalies through the southern portion of the property.

1.4 2014 Exploration program

The 2014 exploration program consisted of grid based soil sampling, geological mapping and digitizing of historical geophysical data. The soil geochemical grid consisted of 352 samples. Lines were located 50m apart and samples collected at 25m intervals. Four lines of 500m length were added to the northern edge of the 2013 grid and 5 lines averaging 600m length added to the southern edge of the 2013 grid. All of the historical exploration records for the Whipsaw property were in paper format. The 2013 work to digitize the drill records has been the first step in creating a complete database. Along with incorporating the 2014 soil sampling data the historical geophysical surveys that were carried out over portions of the porphyry target area have been digitized during the 2014 work program to develop additional targets. The field work was carried out between October 1, and October 31, 2014 on Tenure #508920. A Total of \$40,177.08 was spent on the project prior to the current expiry date.

1.5 Conclusions and Recommendations

Previous work, including drill programs, geophysical and geochemical surveys along with geological mapping, have outlined extensive areas of 0.15-0.35% porphyry style copper

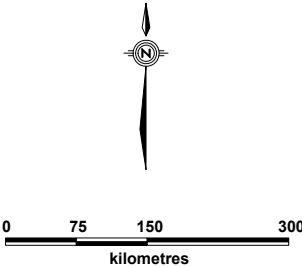


MARTECH INDUSTRIES INC.

WHIPSAW PROPERTY
Similkameen Mining Division

Location Map

Date	Feb 3, 2015	Scale	1:8,000,000	Figure	2.1
Projection	UTM Zone 10 - NAD83	State/Province	BC		
BCGS		NTS	92H02.07		
Author	MJD	File	WhipLoc		



mineralization accompanied by significant amounts of molybdenum. In addition previous regional scale soil geochemical surveys have located zones of significantly anomalous base and precious metals dominantly along the southern flank of the porphyry mineralization. The present work consisted of a grid based soil geochemical survey to expand the coverage initiated in 2013. During the current program the historical geophysical surveys carried out in this area were added to the database. The compilation is expected to provide targets for future programs.

A program consisting of further expansion of the soil geochemical grid and completion of the data compilation is recommended for the Whipsaw property. An additional 500 soil samples to expand the coverage of the known anomalies is recommended for the 2015 field program. Concurrent with that field work, the remainder of the historical geochemical, geological and geophysical data should be captured in digital format to complete the compilation. The program is estimated to cost \$55,000.00.

2 PROPERTY LOCATION AND DESCRIPTION

2.1 Property location

The Whipsaw property consists of a seven mineral tenures and 1 mining lease covering 4,154.95 hectares located in the Similkameen Mining Division of south western British Columbia. The property is located 26 kilometers southwest of Princeton, B.C. and 170 kilometers east of Vancouver (Figure 2.1). Access is by 25 kilometers of logging road along the north side of Whipsaw Creek from Highway 3. The property is also 16 kilometers west southwest of the Copper Mountain deposit.

2.2 Property Description

The Whipsaw property consists of eight (8) tenures consisting of one (1) Mineral Lease and seven (7) cell based Mineral Claims totalling 4,154.96 hectares (Figure 2.2). The claims are registered in the name of Martech Industries Inc., and have expiry dates as shown in Table 2.2, based on acceptance of the current work. This report details the work carried out in order to complete the required assessment for the seven cell based claims. Annual taxes are required to maintain the Mineral Lease

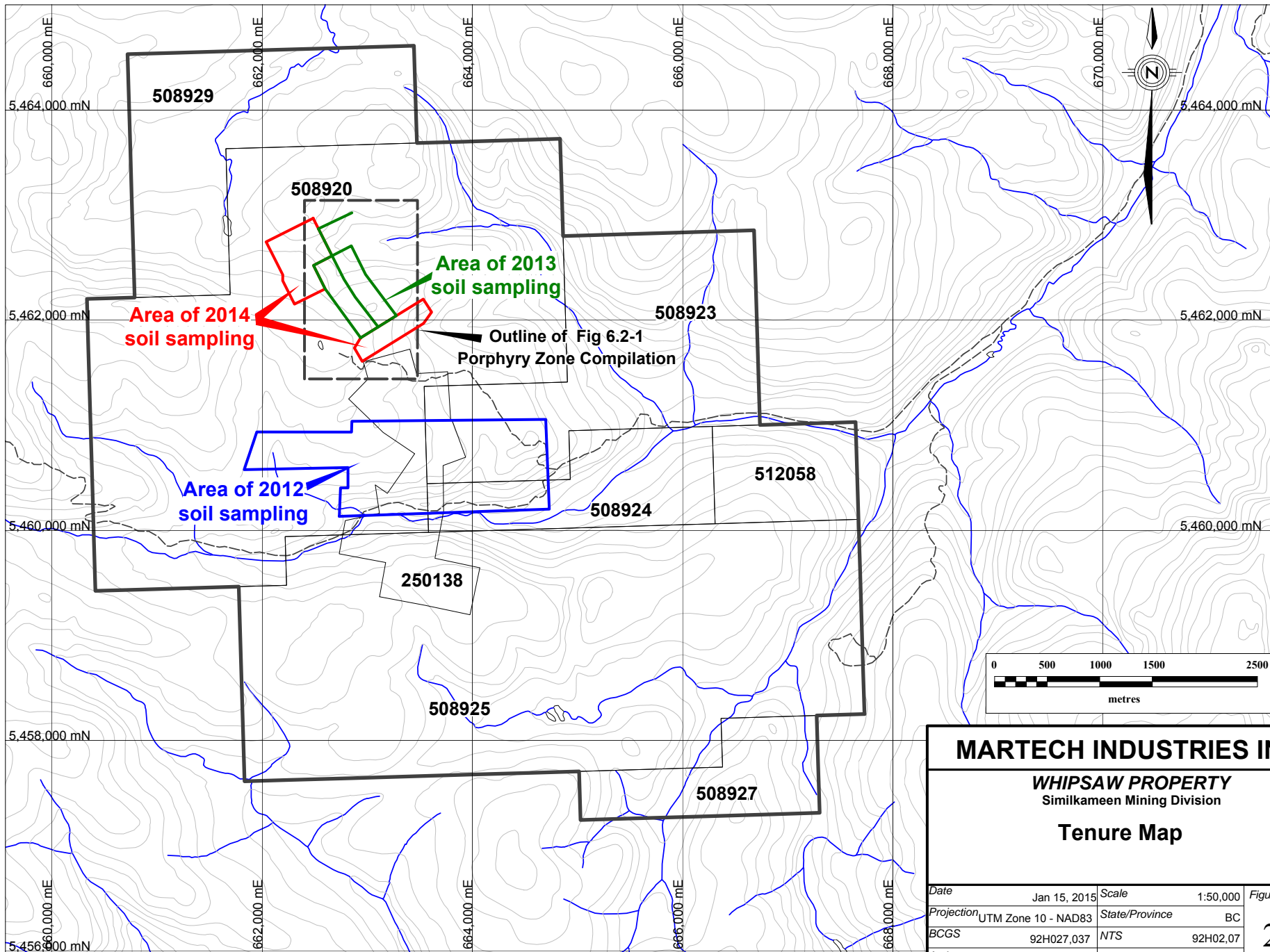
Table 2.2 – Tenure List

<u>NAME</u>	<u>TENURE NO.</u>	<u>EXPIRY DATE</u>	<u>AREA</u>
Mineral Lease	250138	2025/JAN/13	171.75
	508920	2016/Feb/16	1,390.71
	508923	2016/Feb/16	463.58
	508924	2016/Feb/16	189.69
	508925	2016/Feb/16	1,286.02
	508927	2016/Feb/16	147.61
	508929	2016/Feb/16	379.14
	512058	2016/Feb/16	126.46

Total **4,154.96ha**

Assessment work requirements in British Columbia consist of a four tier system of yearly expenditures as follows the claims are currently in their 3rd year;

- \$5.00 per hectare for anniversary years 1 and 2
- \$10.00 per hectare for anniversary years 3 and 4
- \$15.00 per hectare for anniversary years 5 and 6
- \$20.00 per hectare for subsequent anniversary years



MARTECH INDUSTRIES INC.

WHIPSAW PROPERTY
Similkameen Mining Division

Tenure Map

Date	Jan 15, 2015	Scale	1:50,000	Figure
Projection	UTM Zone 10 - NAD83	State/Province	BC	2.2
BCGS	92H027,037	NTS	92H02,07	
Author	MJD	File	WhipClaim	

“Cash-in-Lieu” payments that may be made if physical work has not been conducted on the mineral titles are as follows;

\$10 per hectare for anniversary years 1 and 2;
\$20 per hectare for anniversary years 3 and 4;
\$30 per hectare for anniversary years 5 and 6; and
\$40 per hectare for subsequent anniversary years

The Mineral Lease, Tenure # 250138, incurs an annual tax of \$20.00/ha. The remaining tenures total an area of 3,983.21ha which requires an expenditure of \$39,832.10 to maintain the claims in anniversary years 3 and 4. Excess expenditures incurred in any year can be filed up to an amount that moves the expiry date ten years into the future.

3 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

3.1 Accessibility

Access from Vancouver is 160kms via Highway 1 to Hope, then 133kms along Highway 3 to Princeton. Thirteen km southwest of Princeton, a good logging road leaves Highway 3 at Whipsaw Creek and travels southwestward along the north bank of Whipsaw Creek through the property for a distance of 30 kms (Figure 3.1). Numerous logging and mining roads give good access to most parts of the property.

3.2 Climate

The Whipsaw property enjoys a temperate continental climate with warm summers and cold winters. Snowfall accumulation in this part of the province averages 1.5 meters in depth. Surface exploration work on the Whipsaw property is best carried out between June and late October.

3.3 Infrastructure

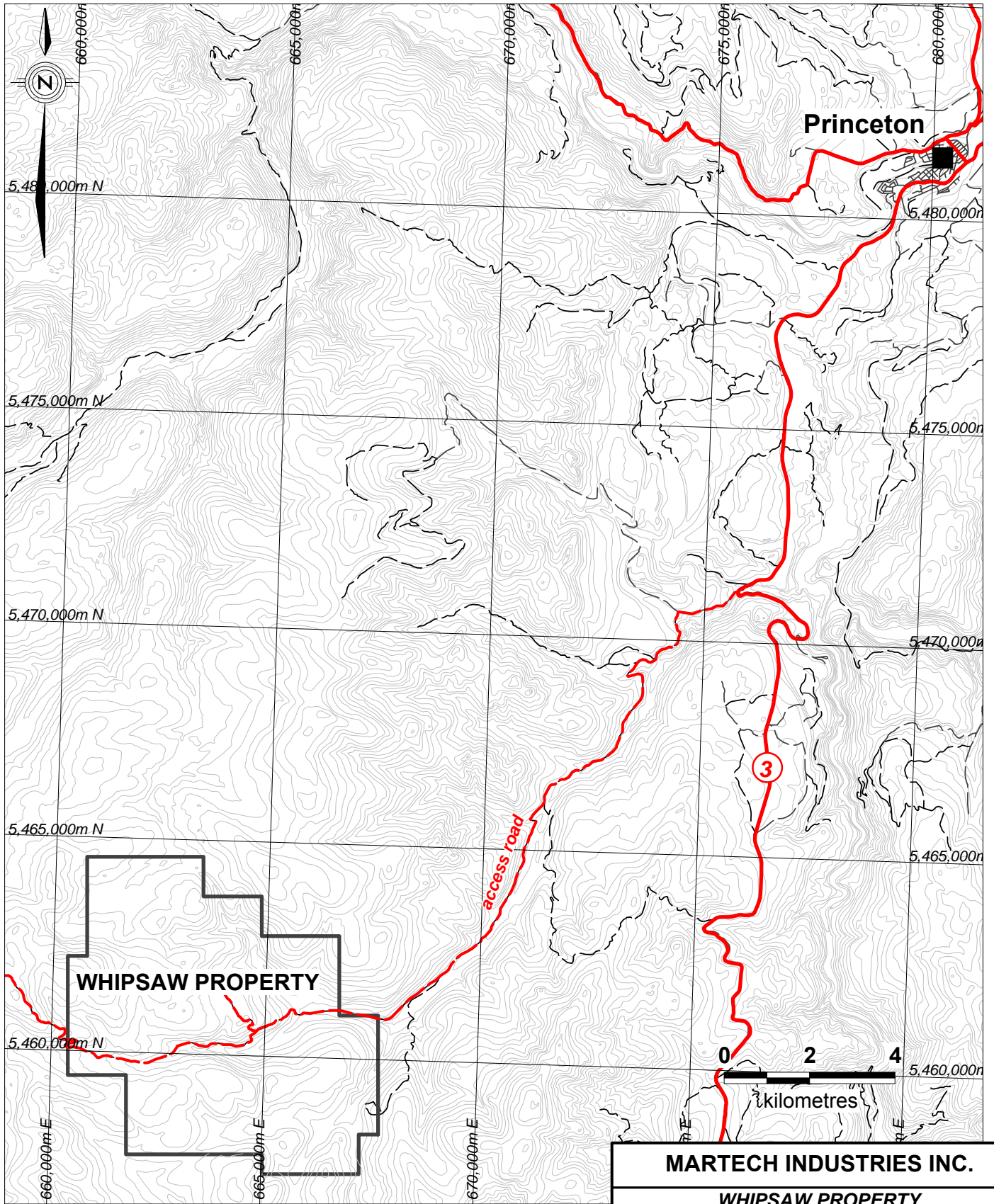
Accommodation along with basic supplies, labour and fuel may be sourced in the community of Princeton 26 kilometres to the east. Any specialized material, equipment or manpower requirements would be readily available in Vancouver, 290 kilometres to the west. Rail lines are also present in Princeton. Power lines follow the route of Highway 3. The recently reopened Copper Mountain Mine is located 17kms to the northeast.



3.4 Physiography and Vegetation

Whipsaw Creek flows southeastward through the middle of the property. The topography within the property is generally moderate, but there are some deeply incised valleys. Elevations range from 1385m to 1660m. The property is covered with large stands of commercial evergreen trees. There is generally little undergrowth but dense brush does occur locally. Extensive logging has been carried out in the area, however there is currently no active logging within the property boundaries. In general outcrop is sparse, but in many areas the overburden is less than one metre deep. Swampy areas occur near the sources of most of the creeks.

4 HISTORY

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.



-  Access road
-  Highway
-  Roads

MARTECH INDUSTRIES INC.

WHIPSAW PROPERTY
Similkameen Mining Division

**Property
Access Map**

Date	Feb 3, 2015	Scale	1:125,000	Figure
Projection	UTM Zone 10 - NAD83	State/Province	BC	3.1
BCGS	NTS	92H02,07		
Author	MJD	File	Whip13Access	

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 I.P. surveys were completed along with 3 diamond drill holes. Moneta Porcupine, Dome, and Tennessee Corp. optioned the property through 1963-64 and carried out additional I.P., 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 I.P 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 (Heim, 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 resampled, 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 ultrabasic 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 began a program of detail geochemical surveying to investigate the anomalous areas south of Whipsaw Creek that were discovered by the extensive 1987 reconnaissance geochemical survey, which 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.

In 2009-2010 a soil geochemistry and mapping programme was conducted on behalf of Martech Industries focused on the area north of Whipsaw Creek and south of the Whipsaw Porphyry and which included the BZ Zone. Infill sampling was completed at 25m stations along east – west lines 25m from the previous lines. Sufficient locations of the original grid were found to be confident of the location of the new lines. This is an area of limited outcrop so indirect exploration methods are required. Rock samples were collected where available and warranted to add to the geochemical database. Mapping incorporated outcrop, float and the fragments associated with the soil samples. The general tenor of the current sampling matches the historical results very well with a maximum value of 0.28g/t gold, 9.0g/t silver, copper to 854ppm and moly to 26.8ppm. A total of 327 soil samples and 13 rock samples were collected and analysed at Acme Analytical in Vancouver, BC for gold and a 31 element ICP package.

In 2011 Corvid Consulting, Princeton, BC, was retained for the purpose of obtaining accurate GPS coordinates for many of the important features on the property, including adits, claim stakes, high grade rock sample locations, trenches, roads, etc. Data were acquired using a Real Time Kinematic (RTK) GPS. These locations were previously only known by the property owner, and will provide geographical reference points necessary to digitize the many maps available for the property.

MCM Consulting (M. Martin and J. Dixon) subsequently completed a small grid based soil sampling program. A total of 148 soil samples were collected 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.

During 2012 exploration consisted of infill soil sampling and minor rock sampling which expanded the 2009-2010 work. Two areas were sampled, on the east and west sides of the mineral lease (tenure# 250138) and the BZ zone area, both to the north of the 2009-2010 sampling. The western area covers the area of the Eagle Granodiorite – Nicola volcanics boundary. As well, two reconnaissance soil lines were emplaced and sampled to the west of the historical grids. The 2012 work was carried out on tenures 508920 and 508923.

The 2012 sample lines were emplaced starting 25 metres north of the previous lines, with samples collected at 25 metre intervals. Sufficient locations of the original grid were found to be confident of the location of the new lines. A total of 407 soil samples and 20 rock samples were collected and analyzed at Acme Analytical in Vancouver, BC for gold and a 35 element ICP package. The general tenor of the sampling matches the historical results very well. For the 2012 samples the maximum gold value was 2,044.5 ppb, for silver 75.6 ppm, copper to 981 ppm and molybdenum to 21.7 ppm.

The 2013 soil geochemical survey consisted of 267 samples covering an area of 400m by 800m within the North Porphyry Zone. Samples were collected at 25m intervals on lines 50m apart.

Copper values for the samples ranged from 5ppm to 7,262ppm with an average of 443ppm. Anomalous copper values clustered in the northern and southwestern portions of the grid. The northern zone contains the majority of the high values. Moly values ranged from 0.4ppm to 141ppm, with an average of 12ppm. Only 2 of the 14 samples were anomalous in both elements, however the distribution of anomalous moly values is similar to the copper distribution.

Precious metal (gold and silver) values show little correlation with the copper and moly mineralization. Gold values range from 0 to 529ppb, with silver between 0 and 2.5ppm. The distribution of gold and silver is also quite erratic and does not show the clustering which is very evident in the base metal values.

The drill data for the porphyry area of the Whipsaw property was digitized during 2013. Elan Data Makers Ltd. were contracted to convert the original paper drill logs and assay data to a digital database. A total of 47 drill logs, 35 diamond and 12 percussion, were included in this contract along with all associated assay intervals. This information was then combined with the TRIM maps of the area to produce an accurate plan map of the known drilling and 2013 geochemical survey. Historical plan maps of the trenching and geology of the area were digitized and compiled with the drill locations to create a compilation map of all of the known data for this portion of the Whipsaw property. A long section through the porphyry area was then created to aid in developing additional targets for future programs.

5 GEOLOGICAL SETTING

5.1 Regional Geology

The Whipsaw Creek Property encompasses the Whipsaw porphyry, an Upper Cretaceous or Tertiary intrusive emplaced into Upper Triassic Nicola rocks, at the eastern contact of the Eagle Batholith (Figure 5.1). The Nicola Group is a varied assemblage of volcanic rocks ranging from porphyritic to non-porphyritic dacite to basalt. Along the eastern margin of the Eagle Batholith the Nicola rocks are strongly foliated, parallel the contact, and show an increase of metamorphic grade towards the contact (Anderson, 1971). The Eagle Batholith is a Jurassic to Cretaceous granodiorite that is foliated, parallel to the elongation of the batholith. The Whipsaw porphyry is a feldspar porphyry similar to others that occur 40 kms NNW between Law's Camp and the Independence Camp along the Eagle-Nicola contact.

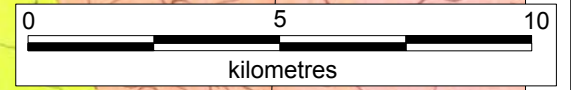
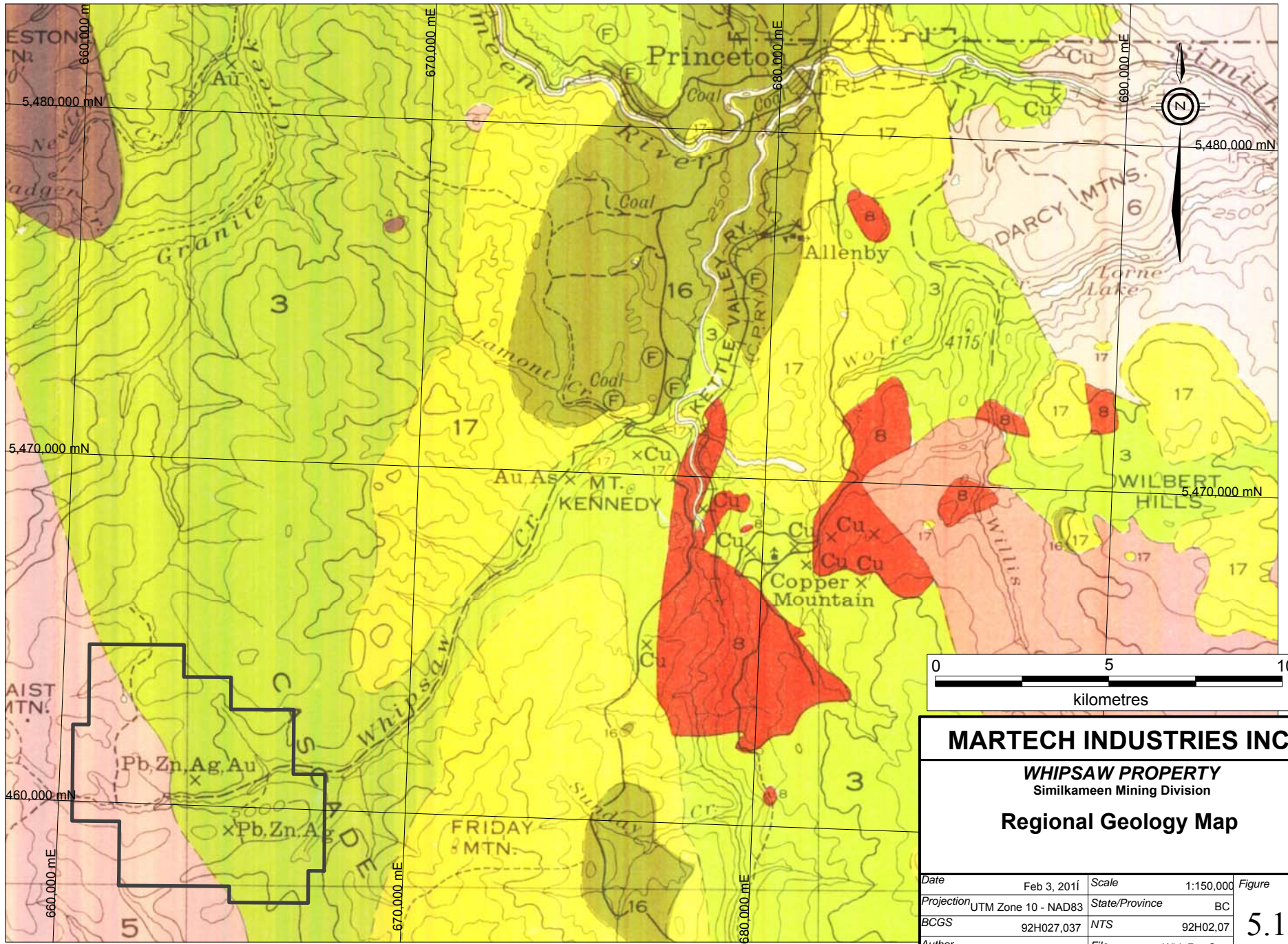
Most mineral occurrences in the area are related to intrusive bodies cutting Nicola Group rocks. The Ingerbelle-Copper Mountain deposits are the most significant, but in this case the intrusions are nearly the same age as the volcanics (Upper Triassic). Low grade chalcopyrite and molybdenite mineralization is associated with Upper Cretaceous or Tertiary intrusives along the Nicola-Eagle contact, but to date none of these occurrences has proved to be economic.

5.2 Property Geology

The bulk of the following information on the property geology is derived from filed work and research studies completed by Paul Richardson during his association with this project.

The Whipsaw property covers 8 km of the regionally mineralized contact zone between the Upper Triassic Nicola Group and the Eagle Granodiorite (Figure 5.2). 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 - 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, the porphyry Cu-Mo-Au mineralization



MARTECH INDUSTRIES INC.

WHIPSAW PROPERTY
Similkameen Mining Division

Regional Geology Map

Date	Feb 3, 2011	Scale	1:150,000	Figure	5.1a
Projection	UTM Zone 10 - NAD83	State/Province	BC		
BCGS	92H027,037	NTS	92H02,07		
Author	MJD	File	WhipRegGeo		

MIOCENE OR EARLIER

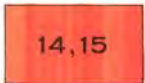
PRINCETON GROUP



16, *Mainly shale, sandstone, and conglomerate; coal*
 17, *Varicoloured andesite and basalt*

CRETACEOUS OR TERTIARY

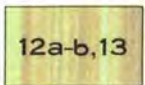
UPPER CRETACEOUS OR LATER



14, *OTTER INTRUSIONS: pink and grey granite and granodiorite*
 15, *LIGHTNING CREEK INTRUSIONS: grey quartz diorite*

CRETACEOUS

LOWER CRETACEOUS



KINGSVALE GROUP

12a, *mainly volcanic breccia; 12b, mainly andesite and basalt porphyry*
 13, *Andesite and basalt porphyry and volcanic breccia*



PASAYTEN GROUP

Mainly *grit and shale; 11a, mainly purple lava, tuff, and breccia*



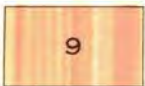
SPENCE BRIDGE GROUP

Hard, reddish andesite and basalt

JURASSIC (?) AND CRETACEOUS

UPPER JURASSIC (?) AND LOWER CRETACEOUS

DEWDNEY CREEK GROUP

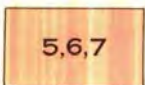


Tuff, volcanic breccia, grit, argillite; 9a, mainly conglomerate

JURASSIC OR LATER



COPPER MOUNTAIN INTRUSIONS: syenogabbro, augite diorite, pegmatite



COAST INTRUSIONS: 5, grey, slightly gneissic granodiorite; 6, mainly reddish, coarse-grained, siliceous granite and granodiorite; 7, light coloured granodiorite, quartz diorite, and gabbro

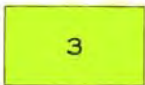


Peridotite, pyroxenite, gabbro

TRIASSIC

UPPER TRIASSIC

NICOLA GROUP



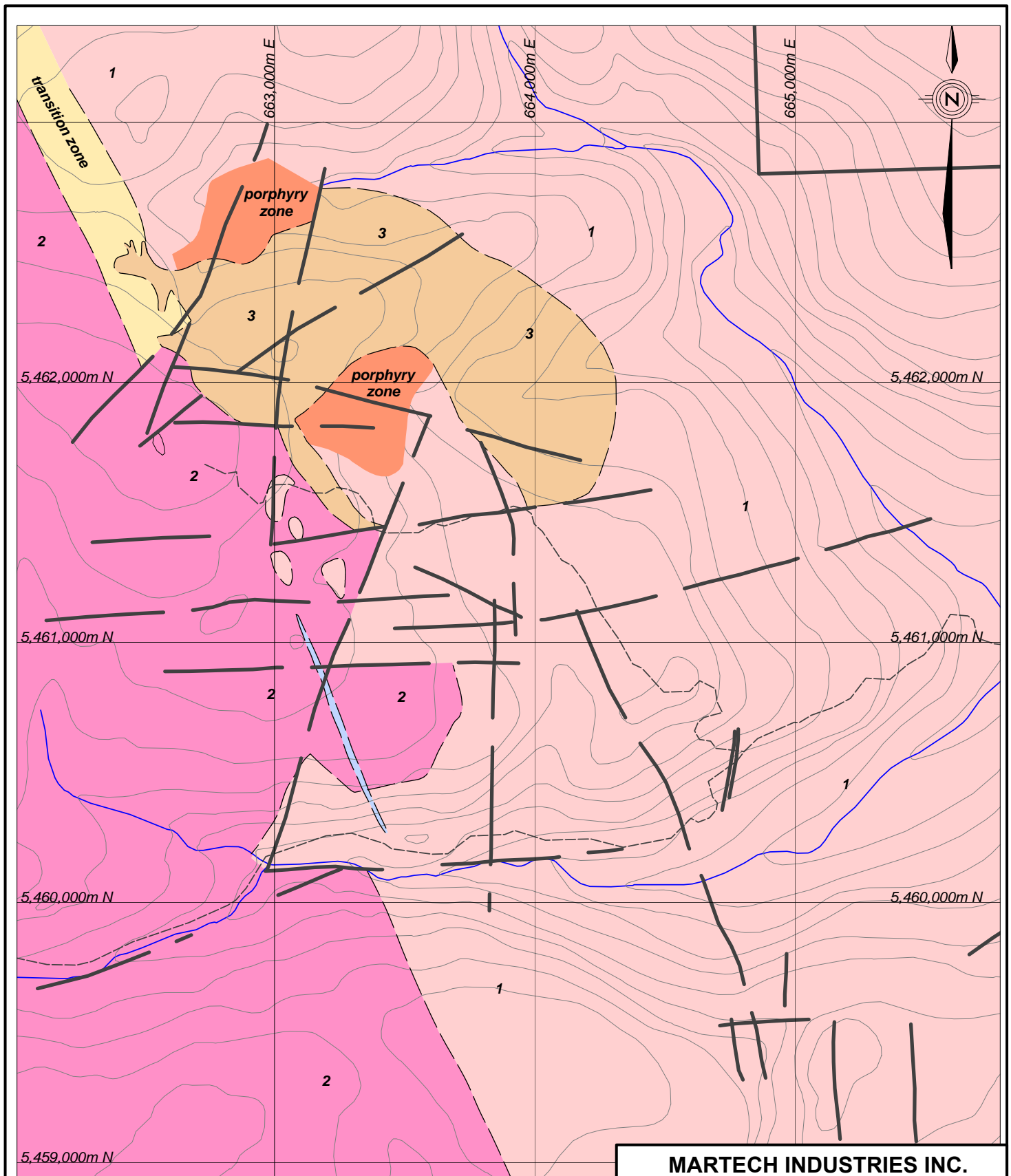
Varicoloured lava; argillite, tuff, limestone; chlorite and sericite schist

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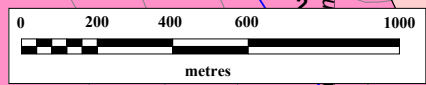
**Regional Geology
 Legend**

Date	Feb 3, 2015	Scale	na	Figure
Projection	UTM Zone 10 - NAD83	State/Province	BC	5.1b
BCGS	-	NTS	92H02,07	
Author	MJD	File	WhipRegGeo	



LEGEND

- Whipsaw Porphyry
- Eagle Granodiorite
- Nicola Group (volcanics and sediments)
- Limestone



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**Property
Geology Map**

Date	Feb 3, 2015	Scale	1:20,000	Figure
Projection	UTM Zone 10 - NAD83	State/Province	BC	5.2
BCGS		NTS	92H02.07	
Author	MJD	File	Whip13PropGeo	

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. The 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 ultrabasic 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 ultrabasic 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.

Mineralization

In the north-central part of the property, the Whipsaw Porphyry, a crescent shaped intrusion 1500 metres by 600 metres in size intrudes Nicola Group volcanics and volcanoclastics. Disseminated and veinlet style porphyry copper-molybdenum mineralization occurs within the contact zone of the Whipsaw Porphyry, primarily within Nicola rocks bordering the intrusion. Exploration to date has been successful in locating two areas of mineralization associated with the intrusive contact, the North Zone and the South Zone. Anomalous soil and silt geochemistry and widespread early drill holes suggest the possibility of a third zone on the west contact of the intrusive.

Mineralization in the Whipsaw porphyry and associated breccia consists of disseminated pyrite and chalcopyrite, occurring mainly near the margins of the intrusive. Chalcopyrite and molybdenite also occur with pyrite and quartz in fractures within the Eagle granodiorite.

6 EXPLORATION

6.1 Soil Geochemical Survey

The 2014 soil geochemical survey consisted of 352 samples covering the northern and southern extensions to the 2013 grid within the North Porphyry Zone. Grid lines were established on the same northeasterly orientation at a 50m line separation. Samples were collected at 25m intervals. An additional 8 lines were added at the northwest end of the baseline, with all of the new lines and the 6 northernmost lines of the 2013 grid extended 300m to the west. On the southern end of the 2013 grid an additional 4 lines were sampled extending 300m west and 500m east of the baseline. Samples were analysed at the Bureau Veritas facility in Vancouver, BC, utilizing the SS80 sample preparation procedure and the 33 element AQ300 analytical ICP package and AQ115 Gold analyses. Appendix 2 lists the UTM coordinates for all 2014 soil samples collected.

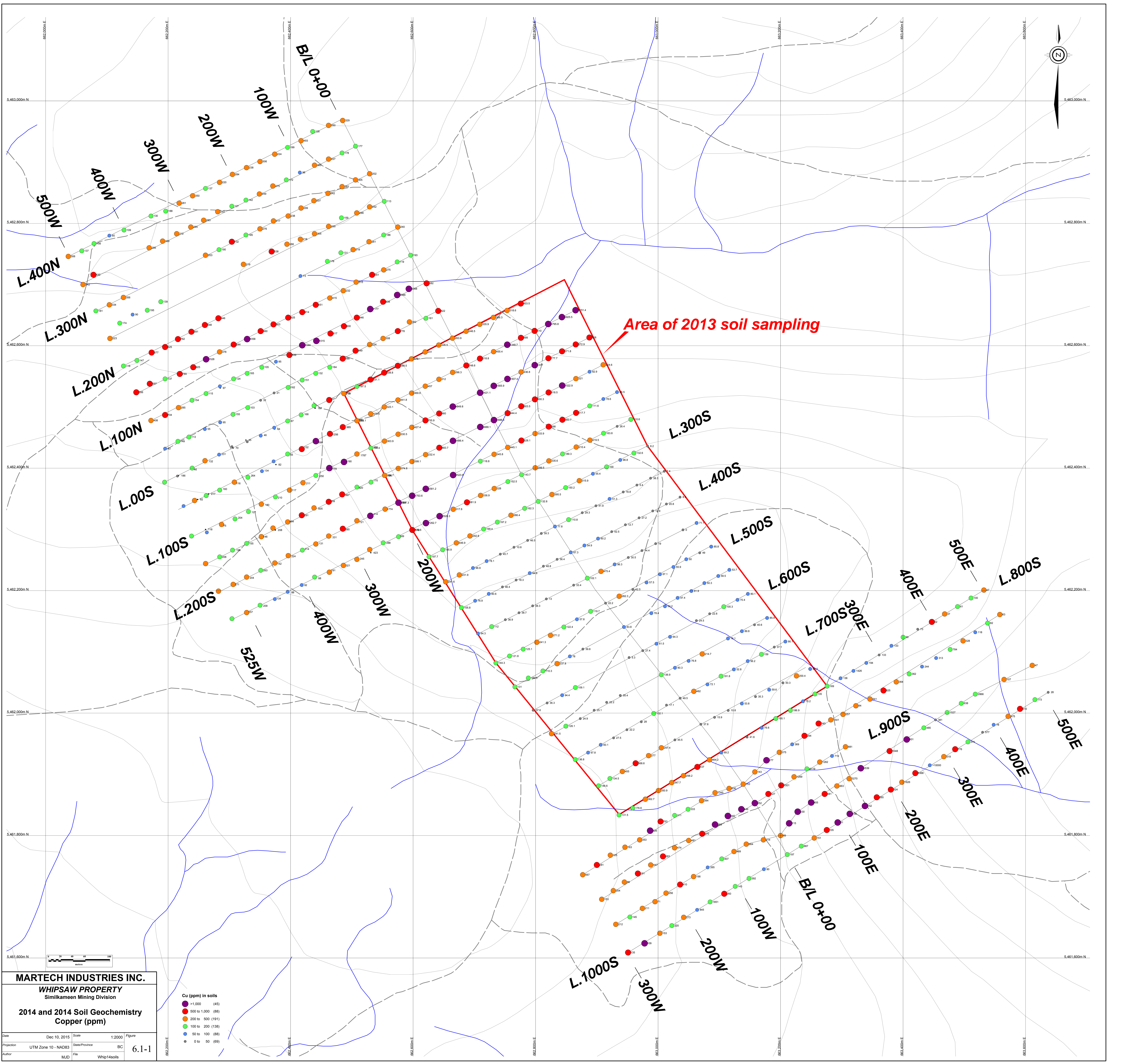
Copper values for the samples ranged from 21ppm to >10,000ppm with an average of 456ppm (Figure 6.1-1). A total of 18 samples contained greater than 1,219ppm which represents the 95th percentile of the results received for copper. Anomalous copper values within the northern and southern extensions of the grid correlated well with the 2013 sampling and extended the zones of anomalous values. These zones remain open to the northeast and the southeast. The southern zone contains the majority of the high values, including the >1% sample. In the northern anomalous zone the high copper values are spatially related to a northerly trending creek which likely represents a structural feature, possibly associated with the Whipsaw Porphyry contact zone. Exposure is quite limited in this area with extensive boggy areas. Previous drilling has shown these swampy areas to be quite shallow. The Amax Trench 5 is located in the northeast corner of the grid area, but contamination from the trenches is not believed to be a significant factor in the geochemistry as the spoil piles adjacent to the trenches are quite restricted in area.

Moly values from the grid sampling ranged from 0ppm to 250ppm, with an average of 21ppm (Figure 6.1-2). Seventeen (17) samples contained greater than 51ppm which represents the 95th percentile value for moly. As in the 2013 sampling, only 2 of the 14 samples were anomalous in both elements. The areal distribution of anomalous moly values however is very similar to the copper. This is consistent with the historical records of a copper-moly porphyry system related to the Whipsaw Porphyry.

Precious metal (gold and silver) values show little correlation with the copper and moly mineralization. Gold values range from 0 to 174ppb, with silver between 0 and 5ppm. The distribution of gold and silver is also quite erratic and does not show the clustering which is very evident in the base metal values.

6.2 Data Compilation

The process of digitizing the Whipsaw database was started during the 2013 work program. For 2014 the process continued with the addition of historical geophysical surveys that have been completed over the area covered by the recent soil sampling. These consisted of IP and magnetic surveys carried out by Dome Mines in 1960, 1963 and Newmont Mining in 1971. An airborne EM survey was carried out by McPhar Geophysics in 1960, 1961.

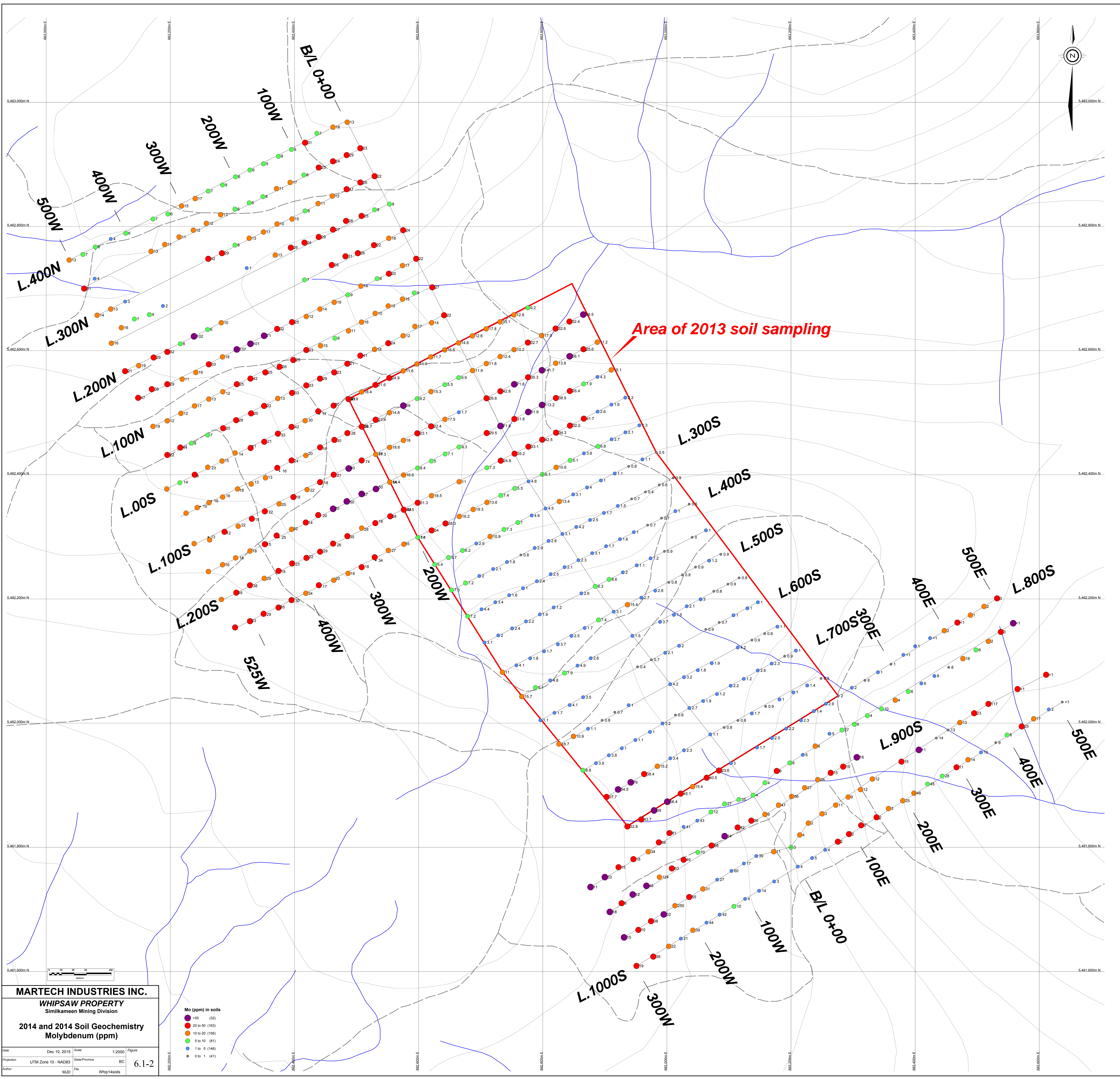


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2014 and 2014 Soil Geochemistry
Copper (ppm)

Date	Dec 10, 2015	Scale	1:2000	Figure	
Projection	UTM Zone 10 - NAD83	State/Province	BC		
Author	MJD	File	Whip14soils	6.1-1	

- Cu (ppm) in soils**
- >1,000 (45)
 - 500 to 1,000 (86)
 - 200 to 500 (191)
 - 100 to 200 (138)
 - 50 to 100 (88)
 - 0 to 50 (89)

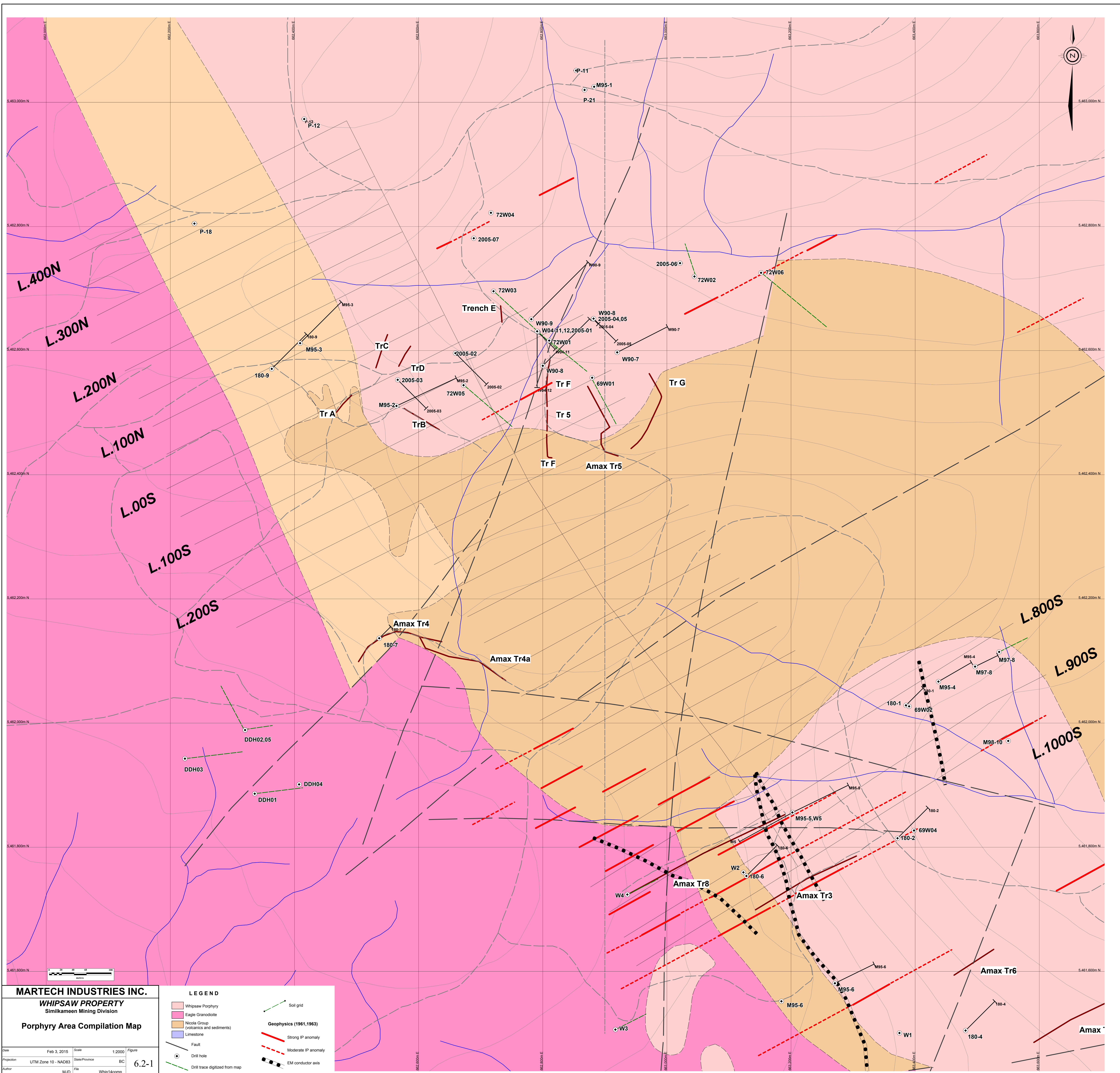


MARTECH INDUSTRIES INC.
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 Simikameen Mining Division

2014 and 2014 Soil Geochemistry
Molybdenum (ppm)

Date	Dec 10, 2015	Scale	1:2000	Figure	
Projection	UTM Zone 10 - NAD83	State/Province	BC		
Author	MJD	File	Whip14soils		6.1-2

- Mo (ppm) in soils
- <math>< 5</math> (32)
 - 5 to 10 (81)
 - 10 to 20 (156)
 - 20 to 50 (163)
 - > 50 (145)



MARTECH INDUSTRIES INC.
WHIPSAW PROPERTY
 Simikameen Mining Division
Porphyry Area Compilation Map

Date: Feb 3, 2015 Scale: 1:2000 Figure:
 Projection: UTM Zone 10 - NAD83 Data/Province: BC
 Author: MJD File: Whip14comp 6.2-1

LEGEND

- Whipsaw Porphyry
- Eagle Granodiorite
- Nicola Group (volcanics and sediments)
- Limestone
- Fault
- Drill hole
- Drill trace digitized from map
- Soil grid
- Geophysics (1961,1963)
 - Strong IP anomaly
 - Moderate IP anomaly
 - EM conductor axis

This information was then combined with the 2013 compilation to produce an accurate plan map of the known drilling and geochemical surveys within the porphyry area. Geology, geochemistry, trenching, drill locations along with IP and EM anomalies have now been digitized to create a compilation map (Figure 6.2-1) of all of the known data for this portion of the Whipsaw property. This will aid in evaluating the areas that have been drilled and assist in developing additional targets for future programs.

7 INTERPRETATIONS AND CONCLUSIONS

The soil geochemical survey was designed to expand upon the results received from the 2013 sampling program. Strong copper anomalies which remained open at the conclusion of the previous year's work were enlarged and remain open to the northeast and southeast. Values of over 1% Cu were returned from the southern edge of the new grid area. Moly values show a similar distribution to the copper, and are also associated with contact zones along the Whipsaw Porphyry.

At the northern portion of the grid area, the geophysical anomalies correlate well with the zones of anomalous copper values and extend to the northeast of the existing coverage on Lines 100S and 150N. On Line 100S a 150m chargeability anomaly is coincident with a zone of >1200ppm copper. At the southern edge of the gridded area a series of IP anomalies appear to correlate with the contact zone between the Whipsaw Porphyry and the Eagle Granodiorite to the west on nine adjacent lines. Other chargeability anomalies are present along the Whipsaw – Nicola contact on 4 lines. These anomalous zones are also coincident with anomalous copper values from the 2014 sampling.

The airborne EM anomalies also appear to be coincident with the contact zones of the Whipsaw Porphyry and the Eagle Granodiorite and Nicola Volcanics as currently mapped.

This data compilation indicates that both IP and EM appear to be valid tools in further defining mineralization within the Whipsaw Porphyry target area.

8 RECOMMENDATIONS AND BUDGET

As a result of the work completed during the program described herein, a program consisting of expansion of the soil geochemical grid and completion of the data compilation is recommended for the Whipsaw property. An additional 500 soil samples to expand the coverage of the known anomalies would represent the 2014 field program. Concurrent with that field work, the remainder of the historical geochemical, geological and geophysical data should be captured in digital format to complete the compilation. The program is estimated to cost \$55,000.00.

8.1 Cost Estimate

A budget of \$55,000 is required to support the recommended work program as outlined in Table 18.1 below:

Table 8.1 – Recommended Exploration Program Budget

Whipsaw Recommended Budget		
Item	Description	Amount
Data Compilation		\$20,000
Soil Geochemical Survey	Sample Collection	\$ 5,000
Assays	500 samples@\$20/sample	\$10,000
Support	\$75/day with 6 people, 30 days	\$ 4,000
Drafting	Digitizing	\$10,000
Field Supplies	flagging, pickets, consumables	\$ 2,000
Transportation	truck rental & fuel	\$ 2,000
Report Preparation		\$ 2,000
Sub-Total		<u>\$55,000</u>
Contingency	@10%	<u>\$ 5,500</u>
	Total Recommended Budget	\$55,500

Signed and sealed by

Jim Chapman, P.Ge.

Dated January 31, 2015

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10 CERTIFICATE of AUTHOR

Jim Chapman
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jchapman@pendergroup.ca

I, Jim Chapman, P.Geol. do hereby certify that:

1. I am currently employed as a Consulting Geologist by:
Martech Industries Inc.
Suite 1329 – 510 West Hastings Street
Vancouver, BC, V6B 1L8
2. I graduated with a B.Sc. in Geology from the University of British Columbia in 1976.
3. I am a member of the Association of Professional Engineers and Geoscientists of British Columbia, Licence # 19871.
4. I have worked as an exploration geologist since graduation from university. I supervised the exploration work carried out in 2014 as described in this report.
5. I am the author of the Assessment Report titled Soil Sampling, Mapping and Data Compilation Assessment Report, on the Whipsaw Creek Property, Similkameen Mining Division, BRITISH COLUMBIA, January 31, 2015.
6. I have no personal interest, direct or indirect, in Martech Industries Inc. or in the Whipsaw Creek property, nor do I expect to receive such interest.

Jim Chapman, P.Geol.

Dated January 31, 2015

11 SCHEDULE OF DISBURSEMENTS

Date	Description	Supplies	Personnel	Support	Total Cost
02/28/2014	Drafting/Digitizing - Moonraker Multimedia				\$ 1,496.25
03/01/2014	Copies				\$ 20.16
04/20/2014	Drafting - Moonraker Multimedia				\$ 1,929.38
11/18/2014	Soil Survey, 9/12/14 - 10/30/14	\$ 355.01	\$ 12,510.00	\$ 7,104.19	\$ 19,969.20
	S. Perrault 9days @\$430/day		\$ 3,870.00		
	J. Perrault 10days@\$430/day		\$ 4,200.00		
	F. Larocque 4days@\$430/day		\$ 1,720.00		
	Q. Sam 8 days, @\$340/day		\$ 2,720.00		
	Vehicle Rentals				\$ 1,010.00
	Assays - Acme Labs				\$ 5,932.94
	Core Storage				\$ 1,036.00
01/05/2015	Copies				\$ 2.38
02/03/2015	Drafting/Digitizing - Moonraker Multimedia				\$ 1,693.13
02/03/2015	Copies				\$ 87.64
02/04/2015	Report Prep J. Chapman, P.Geo				\$ 2,000.00
Sub-Total					\$ 35,177.08
	PAC Withdrawal				\$ 5,000.00
Total					\$ 40,177.08

Appendix 1

GEOCHEMICAL CERTIFICATES



www.acmelab.com

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: **Martech Industries Inc.**
1329 - 510 West Hastings Street
Vancouver BC V6B 1L8 CANADA

Submitted By: Charles Martin
Receiving Lab: Canada-Vancouver
Received: October 08, 2014
Report Date: November 01, 2014
Page: 1 of 6

CERTIFICATE OF ANALYSIS

VAN14003306.1

CLIENT JOB INFORMATION

Project: Whipsaw
Shipment ID:
P.O. Number
Number of Samples: 127

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
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: Martech Industries Inc.
1329 - 510 West Hastings Street
Vancouver BC V6B 1L8
CANADA

CC: Jim Chapman

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	127	Dry at 60C			VAN
SS80	127	Dry at 60C sieve 100g to -80 mesh			VAN
AQ300	127	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
AQ115	127	Acid digest, Au by ICP-MS analysis	15	Completed	VAN
DRPLP	127	Warehouse handling / disposition of pulps			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.



www.acmelab.com

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client: **Martech Industries Inc.**

1329 - 510 West Hastings Street
Vancouver BC V6B 1L8 CANADA

Project: Whipsaw

Report Date: November 01, 2014

Page: 2 of 6

Part: 1 of 2

CERTIFICATE OF ANALYSIS

VAN14003306.1

Method Analyte Unit MDL	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	
0800S 0200E	Soil	2	169	6	244	0.4	21	12	374	3.15	11	<2	20	1.2	<3	<3	62	0.25	0.061	18	36
0800S 0225E	Soil	2	136	6	86	0.4	19	10	297	2.65	9	<2	12	<0.5	<3	<3	60	0.13	0.056	4	37
0800S 0250E	Soil	8	1426	3	78	1.1	30	14	447	3.14	11	<2	26	<0.5	<3	<3	69	0.38	0.083	35	63
0800S 0275E	Soil	1	194	<3	62	0.6	14	7	158	2.24	8	<2	23	<0.5	<3	<3	49	0.29	0.018	7	24
0800S 0300E	Soil	1	133	5	76	0.5	19	9	169	2.74	7	<2	20	<0.5	<3	<3	63	0.24	0.028	5	34
0800S 0325E	Soil	<1	133	6	367	0.8	26	11	550	3.22	8	<2	40	1.1	<3	<3	67	0.43	0.031	15	43
0800S 0350E	Soil	1	90	3	76	<0.3	24	13	257	3.25	10	<2	13	<0.5	<3	<3	72	0.13	0.048	6	47
0800S 0375E	Soil	<1	73	9	81	<0.3	25	13	409	3.27	11	<2	13	<0.5	<3	<3	73	0.12	0.046	4	47
0800S 0400E	Soil	2	62	5	78	0.4	25	12	535	2.89	9	<2	18	<0.5	<3	<3	65	0.21	0.053	4	43
0800S 0425E	Soil	<1	37	<3	62	<0.3	23	10	254	2.52	6	<2	15	<0.5	<3	<3	59	0.23	0.035	3	44
0800S 0450E	Soil	1	61	4	90	<0.3	24	13	812	3.40	14	<2	12	<0.5	<3	<3	65	0.11	0.069	6	39
0800S 0475E	Soil	2	100	7	85	<0.3	21	13	358	3.67	12	<2	14	<0.5	<3	<3	66	0.11	0.083	9	31
0800S 0500E	Soil	3	47	22	85	0.8	12	9	253	4.75	16	<2	15	<0.5	<3	<3	52	0.04	0.158	14	19
0850S 300W	Soil	11	567	3	47	0.7	8	4	115	3.87	6	<2	12	<0.5	3	<3	110	0.04	0.078	5	20
0850S 0275W	Soil	33	281	3	45	0.5	6	3	111	4.83	8	<2	48	<0.5	<3	<3	118	0.05	0.061	8	16
0850S 0250W	Soil	15	125	5	44	0.6	6	2	108	4.28	6	<2	27	<0.5	<3	<3	111	0.04	0.094	6	15
0850S 0225W	Soil	18	163	5	44	1.0	6	2	121	3.89	5	<2	14	<0.5	<3	<3	139	0.07	0.074	4	11
0850S 0200W	Soil	34	353	<3	74	0.8	3	<1	169	7.78	3	<2	26	<0.5	<3	<3	275	0.03	0.090	3	3
0850S 0175W	Soil	58	326	<3	45	0.7	7	3	152	4.38	7	<2	14	<0.5	<3	<3	158	0.08	0.053	3	14
0850S 0150W	Soil	81	763	6	63	2.4	8	3	178	7.01	7	<2	20	<0.5	<3	<3	214	0.10	0.086	3	16
0850S 0125W	Soil	41	311	<3	56	1.0	6	3	137	4.85	8	<2	17	<0.5	<3	<3	193	0.07	0.082	4	14
0850S 0100W	Soil	43	333	<3	55	0.8	7	3	128	4.59	6	<2	13	<0.5	<3	<3	170	0.07	0.077	5	19
0850S 0075W	Soil	12	384	<3	45	0.6	8	5	115	2.62	6	<2	6	<0.5	<3	<3	74	0.04	0.068	4	18
0850S 0050W	Soil	27	1345	6	95	1.1	31	12	221	3.97	8	<2	15	<0.5	<3	<3	160	0.14	0.062	4	102
0850S 0025W	Soil	35	630	<3	78	1.0	20	9	256	4.20	9	<2	16	<0.5	<3	<3	163	0.16	0.056	4	57
0850S 0000E	Soil	4	153	5	42	0.5	11	5	102	2.27	6	<2	7	<0.5	<3	<3	53	0.04	0.064	3	23
0850S 0025E	Soil	4	143	7	41	0.6	8	4	77	1.88	5	<2	7	<0.5	<3	<3	45	0.05	0.047	3	18
0850S 0050E	Soil	8	277	8	82	0.5	19	10	216	2.61	7	<2	9	<0.5	<3	<3	60	0.12	0.049	4	37
0850S 0075E	Soil	6	375	<3	120	1.2	31	11	316	2.87	8	<2	22	<0.5	<3	<3	65	0.33	0.036	11	51
0850S 0100E	Soil	6	369	7	121	1.3	29	12	204	2.98	8	<2	20	<0.5	<3	<3	71	0.25	0.048	6	57

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Project: Whipsaw
Report Date: November 01, 2014

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CERTIFICATE OF ANALYSIS

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Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ115
Analyte	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	Au	
Unit	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	ppb	
MDL	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	0.5	
0800S 0200E	Soil	0.74	138	0.043	<20	1.89	<0.01	0.07	<2	<0.05	<1	<5	<5	<5	19.3
0800S 0225E	Soil	0.71	106	0.038	<20	1.68	<0.01	0.04	<2	<0.05	<1	<5	<5	<5	17.5
0800S 0250E	Soil	1.16	130	0.043	<20	1.63	<0.01	0.09	<2	<0.05	<1	<5	<5	9	44.6
0800S 0275E	Soil	0.44	167	0.061	<20	1.80	<0.01	0.04	<2	<0.05	<1	<5	<5	<5	11.7
0800S 0300E	Soil	0.58	164	0.057	<20	1.99	<0.01	0.05	<2	<0.05	<1	<5	7	<5	9.6
0800S 0325E	Soil	0.75	260	0.063	<20	2.36	<0.01	0.05	<2	<0.05	<1	<5	6	<5	8.6
0800S 0350E	Soil	0.94	129	0.043	<20	2.02	<0.01	0.06	<2	<0.05	<1	<5	5	<5	10.5
0800S 0375E	Soil	0.91	147	0.045	<20	2.13	<0.01	0.06	<2	<0.05	<1	<5	<5	<5	2.3
0800S 0400E	Soil	0.82	197	0.041	<20	1.87	<0.01	0.06	<2	<0.05	<1	<5	7	<5	3.1
0800S 0425E	Soil	0.79	116	0.036	<20	1.56	<0.01	0.11	<2	<0.05	<1	<5	<5	<5	2.5
0800S 0450E	Soil	0.69	276	0.036	<20	2.27	<0.01	0.07	<2	<0.05	<1	<5	6	<5	2.9
0800S 0475E	Soil	0.59	264	0.047	<20	2.34	<0.01	0.07	<2	<0.05	<1	<5	7	<5	6.5
0800S 0500E	Soil	0.21	315	0.009	<20	2.20	<0.01	0.08	<2	0.10	<1	<5	5	<5	20.4
0850S 300W	Soil	0.76	86	0.147	<20	3.17	0.01	0.14	<2	0.11	<1	<5	8	8	1.7
0850S 0275W	Soil	1.12	170	0.122	<20	2.99	0.02	0.50	<2	0.32	<1	<5	10	11	8.8
0850S 0250W	Soil	0.85	145	0.184	<20	3.39	0.01	0.24	<2	0.14	<1	<5	9	9	2.8
0850S 0225W	Soil	0.77	91	0.180	<20	3.15	0.01	0.10	<2	0.06	<1	<5	10	8	2.1
0850S 0200W	Soil	1.77	382	0.418	<20	2.78	0.04	1.53	<2	0.89	<1	<5	8	26	16.6
0850S 0175W	Soil	0.86	101	0.199	<20	2.85	0.01	0.11	<2	<0.05	<1	<5	6	8	9.1
0850S 0150W	Soil	1.52	93	0.262	<20	3.77	0.02	0.16	<2	0.11	<1	<5	9	13	34.1
0850S 0125W	Soil	1.09	102	0.244	<20	3.43	0.02	0.15	<2	0.08	<1	<5	8	11	7.0
0850S 0100W	Soil	0.97	98	0.214	<20	3.31	0.01	0.12	<2	0.05	<1	<5	9	10	3.2
0850S 0075W	Soil	0.39	58	0.118	<20	2.58	<0.01	0.03	<2	<0.05	<1	<5	7	<5	2.1
0850S 0050W	Soil	1.75	118	0.212	<20	3.73	<0.01	0.33	<2	<0.05	<1	<5	7	13	7.7
0850S 0025W	Soil	1.42	107	0.197	<20	3.29	<0.01	0.11	<2	<0.05	<1	<5	9	11	8.6
0850S 0000E	Soil	0.40	51	0.050	<20	1.70	<0.01	0.03	<2	<0.05	<1	<5	6	<5	3.1
0850S 0025E	Soil	0.23	66	0.064	<20	1.43	<0.01	0.03	<2	<0.05	<1	<5	6	<5	4.4
0850S 0050E	Soil	0.57	99	0.055	<20	1.85	<0.01	0.04	<2	<0.05	<1	<5	7	<5	7.2
0850S 0075E	Soil	0.76	225	0.067	<20	2.35	<0.01	0.05	<2	<0.05	<1	<5	6	<5	11.7
0850S 0100E	Soil	0.80	145	0.077	<20	2.33	<0.01	0.05	<2	<0.05	<1	<5	7	<5	6.4

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Project: Whipsaw

Report Date: November 01, 2014

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CERTIFICATE OF ANALYSIS

VAN14003306.1

Method Analyte	Unit	MDL	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300		
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm			
			1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	1	1
0850S 0125E	Soil		6	294	8	104	0.5	24	11	203	2.97	9	<2	13	<0.5	<3	<3	70	0.15	0.050	4	52	
0850S 0150E	Soil		5	343	4	112	0.9	25	12	262	2.84	7	<2	17	<0.5	<3	<3	68	0.22	0.046	6	50	
0850S 0175E	Soil		27	1541	<3	113	2.4	20	14	403	4.18	14	<2	37	<0.5	<3	<3	156	0.73	0.157	32	34	
0850S 0200E	Soil		6	257	<3	72	0.8	25	11	322	2.59	7	<2	18	<0.5	<3	<3	64	0.19	0.046	4	52	
0850S 0225E	Soil		4	94	<3	39	<0.3	43	15	462	2.59	6	<2	21	<0.5	<3	<3	63	0.32	0.074	4	87	
0850S 0250E	Soil		10	541	<3	96	0.4	31	11	219	2.90	9	<2	14	<0.5	<3	<3	83	0.17	0.052	4	77	
0850S 0275E	Soil		4	825	4	158	1.0	36	12	581	3.24	11	<2	36	<0.5	<3	<3	70	0.43	0.052	7	47	
0850S 0300E	Soil		6	364	5	102	0.9	18	8	201	2.69	9	<2	14	<0.5	<3	<3	64	0.17	0.050	4	33	
0850S 0325E	Soil		6	362	<3	97	0.7	26	12	254	3.45	11	<2	21	<0.5	<3	<3	80	0.23	0.037	5	50	
0850S 0350E	Soil		8	244	4	167	0.9	26	13	319	3.23	10	<2	16	<0.5	<3	<3	76	0.18	0.034	4	47	
0850S 0375E	Soil		8	313	5	112	0.8	31	15	363	3.59	11	<2	16	<0.5	<3	<3	85	0.13	0.052	5	59	
0850S 0400E	Soil		18	784	6	123	1.9	43	16	324	3.55	11	<2	21	<0.5	<3	<3	105	0.17	0.055	5	112	
0850S 0425E	Soil		6	328	8	83	1.3	28	15	458	3.47	13	<2	16	<0.5	<3	<3	73	0.16	0.073	7	52	
0850S 0450E	Soil		2	118	11	102	0.6	24	11	385	4.25	22	<2	11	<0.5	<3	<3	71	0.08	0.088	9	38	
0850S 0475E	Soil		3	82	5	76	0.4	20	11	367	3.78	10	<2	17	<0.5	<3	<3	66	0.10	0.057	9	32	
0850S 0500E	Soil		<1	63	<3	98	<0.3	21	10	642	2.67	7	<2	28	<0.5	<3	<3	60	0.23	0.077	3	33	
0900S 0300W	Soil		18	153	<3	38	0.5	7	4	104	3.76	5	<2	16	<0.5	<3	<3	87	0.07	0.061	3	13	
0900S 0275W	Soil		9	204	<3	45	0.6	14	9	170	2.93	6	<2	18	<0.5	<3	<3	82	0.14	0.039	3	26	
0900S 0250W	Soil		12	86	5	45	0.7	6	2	108	3.69	6	<2	13	<0.5	<3	<3	113	0.04	0.078	5	9	
0900S 0225W	Soil		46	191	<3	42	0.8	6	2	133	5.16	4	<2	22	<0.5	<3	<3	180	0.07	0.072	4	9	
0900S 0200W	Soil		124	447	<3	59	1.6	6	<1	182	9.78	6	<2	22	<0.5	<3	<3	259	0.07	0.096	3	10	
0900S 0175W	Soil		63	263	<3	49	0.7	8	3	319	4.23	13	<2	27	<0.5	<3	<3	146	0.17	0.057	3	16	
0900S 0150W	Soil		49	474	3	57	1.3	7	2	168	5.98	6	<2	19	<0.5	<3	<3	202	0.10	0.071	4	13	
0900S 0125W	Soil		70	481	<3	52	1.2	9	2	150	6.51	6	<2	21	<0.5	<3	<3	228	0.05	0.076	4	41	
0900S 0100W	Soil		68	670	<3	65	0.9	12	7	187	5.27	7	<2	25	<0.5	<3	<3	191	0.10	0.076	6	28	
0900S 0075W	Soil		14	263	3	52	0.6	11	7	155	2.84	9	<2	8	<0.5	<3	<3	78	0.07	0.056	3	22	
0900S 0050W	Soil		42	945	10	79	0.9	12	9	158	3.79	11	<2	12	<0.5	<3	<3	136	0.07	0.065	4	30	
0900S 0025W	Soil		36	449	3	71	1.0	9	6	175	3.68	9	<2	11	<0.5	<3	<3	134	0.07	0.070	4	19	
0900S 0000W	Soil		9	252	<3	78	0.7	19	9	193	3.19	8	<2	13	<0.5	<3	<3	86	0.11	0.043	3	34	
0900S 0025E	Soil		47	627	<3	76	1.0	15	10	151	3.73	12	<2	9	<0.5	<3	<3	116	0.07	0.054	3	39	

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Project: Whipsaw

Report Date: November 01, 2014

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CERTIFICATE OF ANALYSIS

VAN14003306.1

Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ115
Analyte	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	Au	
Unit	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	ppb	
MDL	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	0.5	
0850S 0125E	Soil	0.76	72	0.068	<20	2.17	<0.01	0.04	<2	<0.05	<1	<5	6	<5	4.7
0850S 0150E	Soil	0.73	124	0.065	<20	2.07	<0.01	0.04	<2	<0.05	<1	5	6	<5	2.3
0850S 0175E	Soil	1.76	189	0.176	<20	2.61	<0.01	0.31	<2	<0.05	<1	<5	10	10	31.4
0850S 0200E	Soil	0.87	162	0.038	<20	1.69	<0.01	0.05	<2	<0.05	<1	5	6	<5	3.8
0850S 0225E	Soil	1.47	71	0.048	<20	1.61	<0.01	0.08	<2	<0.05	<1	<5	<5	<5	2.6
0850S 0250E	Soil	1.21	76	0.073	<20	1.88	<0.01	0.08	<2	<0.05	<1	<5	<5	5	29.1
0850S 0275E	Soil	0.83	284	0.066	<20	2.46	<0.01	0.06	<2	<0.05	<1	5	6	<5	5.1
0850S 0300E	Soil	0.52	96	0.059	<20	1.80	<0.01	0.04	<2	<0.05	<1	<5	6	<5	4.8
0850S 0325E	Soil	1.05	98	0.040	<20	2.09	<0.01	0.05	<2	<0.05	<1	<5	6	<5	5.0
0850S 0350E	Soil	0.90	133	0.065	<20	2.31	<0.01	0.06	<2	<0.05	<1	<5	6	<5	1.8
0850S 0375E	Soil	1.13	146	0.062	<20	2.40	<0.01	0.08	<2	<0.05	<1	<5	6	<5	2.2
0850S 0400E	Soil	1.51	155	0.122	<20	2.72	<0.01	0.14	<2	<0.05	<1	<5	8	7	3.6
0850S 0425E	Soil	0.93	158	0.050	<20	2.34	<0.01	0.10	<2	<0.05	<1	<5	6	<5	7.1
0850S 0450E	Soil	0.65	333	0.028	<20	2.78	<0.01	0.07	<2	<0.05	<1	<5	8	<5	22.3
0850S 0475E	Soil	0.60	336	0.029	<20	2.33	<0.01	0.06	<2	<0.05	<1	<5	6	<5	8.1
0850S 0500E	Soil	0.59	172	0.062	<20	1.79	<0.01	0.04	<2	<0.05	<1	<5	5	<5	1.6
0900S 0300W	Soil	0.61	96	0.127	<20	2.35	0.01	0.13	<2	0.06	<1	<5	8	<5	1.4
0900S 0275W	Soil	0.74	73	0.066	<20	1.83	<0.01	0.07	<2	<0.05	<1	<5	<5	<5	3.4
0900S 0250W	Soil	0.53	92	0.182	<20	3.47	0.01	0.09	<2	0.08	<1	<5	9	6	2.0
0900S 0225W	Soil	1.02	136	0.249	<20	3.40	0.01	0.26	<2	0.11	<1	<5	9	11	4.1
0900S 0200W	Soil	1.50	110	0.314	<20	3.82	0.03	0.30	<2	0.30	<1	<5	5	13	25.3
0900S 0175W	Soil	0.87	153	0.175	<20	2.72	0.01	0.10	<2	<0.05	<1	<5	8	8	7.8
0900S 0150W	Soil	1.24	114	0.248	<20	3.52	0.02	0.27	<2	0.09	<1	<5	9	13	15.8
0900S 0125W	Soil	1.80	140	0.320	<20	3.52	0.02	0.81	<2	0.28	<1	<5	9	18	19.1
0900S 0100W	Soil	1.33	159	0.231	<20	3.16	0.02	0.39	<2	0.26	<1	<5	7	13	8.3
0900S 0075W	Soil	0.46	56	0.099	<20	2.25	<0.01	0.04	<2	<0.05	<1	6	<5	<5	6.1
0900S 0050W	Soil	1.04	66	0.177	<20	3.51	<0.01	0.06	<2	<0.05	<1	<5	9	9	3.3
0900S 0025W	Soil	0.81	93	0.177	<20	3.10	0.01	0.09	<2	<0.05	<1	6	8	8	6.0
0900S 0000W	Soil	0.83	84	0.081	<20	2.12	<0.01	0.05	<2	<0.05	<1	<5	7	<5	8.8
0900S 0025E	Soil	0.91	79	0.134	<20	2.82	<0.01	0.10	<2	<0.05	<1	<5	8	8	7.7

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CERTIFICATE OF ANALYSIS

VAN14003306.1

Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	
MDL	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001	1	1	
0900S 0050E	Soil	56	1001	<3	85	1.1	18	14	177	3.98	14	<2	11	<0.5	<3	<3	121	0.08	0.075	4	36
0900S 0075E	Soil	27	1269	7	58	0.8	15	13	223	2.97	17	<2	7	<0.5	<3	<3	81	0.07	0.128	5	32
0900S 0100E	Soil	26	6119	6	129	0.4	49	74	650	3.36	10	<2	19	<0.5	<3	<3	89	0.36	0.090	8	72
0900S 0125E	Soil	15	1282	3	220	1.2	39	27	588	5.00	24	<2	38	<0.5	<3	<3	165	0.82	0.023	14	79
0900S 0150E	Soil	10	719	4	150	0.9	33	14	210	3.23	11	<2	17	<0.5	<3	<3	99	0.26	0.045	4	70
0900S 0175E	Soil	16	881	5	114	0.8	37	19	451	3.29	10	<2	21	<0.5	<3	<3	89	0.26	0.068	8	85
0950S 0300W	Soil	15	212	8	58	1.0	10	7	128	3.37	7	<2	10	<0.5	<3	<3	83	0.06	0.055	4	18
0950S 0275W	Soil	10	145	<3	50	0.5	10	6	132	3.62	5	<2	14	<0.5	<3	<3	100	0.07	0.049	4	17
0950S 0250W	Soil	38	211	7	54	0.7	8	4	166	5.43	6	<2	26	<0.5	<3	<3	187	0.08	0.070	5	15
0950S 0225W	Soil	32	71	3	28	0.5	4	2	93	3.12	5	<2	8	<0.5	<3	<3	83	0.04	0.060	3	6
0950S 0200W	Soil	250	256	5	16	0.9	3	<1	64	8.61	18	<2	14	<0.5	<3	<3	91	0.06	0.092	2	3
0950S 0175W	Soil	55	410	<3	47	1.1	8	5	153	5.89	7	<2	13	<0.5	<3	<3	196	0.08	0.056	4	12
0950S 0150W	Soil	31	198	5	47	0.6	6	<1	122	3.97	3	<2	14	<0.5	<3	<3	133	0.08	0.061	3	8
0950S 0125W	Soil	27	265	8	45	0.7	14	4	144	3.70	6	<2	16	<0.5	<3	<3	123	0.14	0.051	3	28
0950S 0100W	Soil	60	407	9	47	1.1	10	<1	130	5.05	7	<2	18	<0.5	<3	<3	196	0.06	0.064	3	19
0950S 0075W	Soil	17	469	9	53	1.0	9	3	114	2.91	6	<2	11	<0.5	<3	<3	89	0.08	0.075	3	18
0950S 0050W	Soil	39	864	18	97	0.7	14	7	178	4.41	12	<2	29	<0.5	<3	<3	180	0.11	0.042	4	42
0950S 0025W	Soil	11	214	10	39	0.7	13	5	159	2.35	5	<2	13	<0.5	<3	<3	66	0.12	0.067	3	26
0950S 0000E	Soil	3	89	6	53	0.4	41	13	266	2.76	5	<2	17	<0.5	<3	<3	67	0.16	0.055	2	75
0950S 0025E	Soil	4	115	7	50	0.5	27	9	249	2.51	4	<2	17	<0.5	<3	<3	64	0.13	0.080	3	55
0950S 0050E	Soil	2	230	7	50	<0.3	54	18	491	3.10	3	<2	20	<0.5	<3	<3	76	0.24	0.068	3	105
0950S 0075E	Soil	3	405	8	64	<0.3	37	17	313	2.73	4	<2	18	<0.5	<3	<3	68	0.20	0.078	3	64
0950S 0100E	Soil	11	481	10	84	0.5	35	16	213	3.05	7	<2	14	<0.5	<3	<3	84	0.12	0.075	4	62
0950S 0125E	Soil	9	463	10	78	0.4	34	12	191	2.90	6	<2	13	<0.5	<3	<3	76	0.12	0.065	3	62
0950S 0150E	Soil	12	3270	11	132	0.9	49	40	694	3.46	10	<2	31	<0.5	<3	<3	92	0.52	0.091	11	88
0950S 0175E	Soil	12	5539	7	95	5.0	27	23	259	1.57	3	<2	37	<0.5	<3	<3	42	0.33	0.115	22	35
0950S 0250E	Soil	15	1048	10	124	0.3	41	16	304	3.43	9	<2	19	<0.5	<3	<3	88	0.21	0.035	6	90
0950S 0275E	Soil	11	601	9	93	0.3	39	14	473	2.87	6	<2	21	<0.5	<3	<3	71	0.22	0.039	5	79
0950S 0300E	Soil	14	485	9	141	0.7	38	14	283	3.52	7	<2	25	<0.5	<3	<3	94	0.23	0.044	5	83
0950S 0325E	Soil	13	381	12	132	1.9	49	14	341	3.32	10	<2	85	<0.5	<3	<3	77	0.52	0.041	8	81



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Project: Whipsaw
Report Date: November 01, 2014

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CERTIFICATE OF ANALYSIS

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Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ115	
Analyte	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	Au	
Unit	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	ppb	
MDL	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	0.5	
0900S 0050E	Soil	1.06	92	0.117	<20	3.27	<0.01	0.09	<2	<0.05	<1	6	7	10	23.1
0900S 0075E	Soil	0.56	47	0.080	<20	3.03	<0.01	0.04	<2	<0.05	<1	5	6	5	22.4
0900S 0100E	Soil	1.21	83	0.079	<20	1.98	<0.01	0.18	<2	<0.05	<1	<5	<5	7	26.4
0900S 0125E	Soil	1.74	199	0.166	<20	2.97	0.01	0.07	<2	<0.05	<1	<5	8	16	24.9
0900S 0150E	Soil	1.09	112	0.087	<20	2.23	<0.01	0.06	<2	<0.05	<1	<5	6	6	10.4
0900S 0175E	Soil	1.27	122	0.067	<20	2.08	<0.01	0.15	<2	<0.05	<1	5	6	6	13.8
0950S 0300W	Soil	0.61	89	0.118	<20	2.89	<0.01	0.07	<2	<0.05	<1	7	7	5	2.8
0950S 0275W	Soil	0.68	110	0.151	<20	3.15	0.01	0.12	<2	0.06	<1	<5	8	6	2.8
0950S 0250W	Soil	1.26	198	0.240	<20	3.42	0.01	0.34	<2	0.14	<1	<5	9	13	5.1
0950S 0225W	Soil	0.33	57	0.126	<20	2.50	0.01	0.06	<2	<0.05	<1	<5	8	<5	2.2
0950S 0200W	Soil	0.36	62	0.029	<20	2.15	<0.01	0.10	<2	0.06	<1	<5	5	<5	11.5
0950S 0175W	Soil	1.00	121	0.168	<20	3.27	<0.01	0.18	<2	<0.05	<1	6	9	11	7.3
0950S 0150W	Soil	0.67	87	0.164	<20	3.03	0.02	0.13	<2	0.07	<1	<5	10	7	5.7
0950S 0125W	Soil	1.00	102	0.148	<20	2.80	0.01	0.13	<2	<0.05	<1	<5	11	7	6.9
0950S 0100W	Soil	1.34	126	0.171	<20	3.15	0.02	0.30	<2	0.11	<1	<5	14	12	7.0
0950S 0075W	Soil	0.55	72	0.123	<20	2.66	0.01	0.06	<2	<0.05	<1	<5	9	5	2.9
0950S 0050W	Soil	1.65	221	0.141	<20	4.23	0.01	0.54	<2	0.07	<1	<5	13	18	9.3
0950S 0025W	Soil	0.47	81	0.086	<20	1.79	0.01	0.06	<2	<0.05	<1	<5	7	<5	5.1
0950S 0000E	Soil	1.23	71	0.068	<20	2.06	<0.01	0.06	<2	<0.05	<1	<5	<5	<5	3.8
0950S 0025E	Soil	0.80	86	0.082	<20	2.09	<0.01	0.05	<2	<0.05	<1	<5	6	<5	4.5
0950S 0050E	Soil	1.83	67	0.082	<20	2.28	<0.01	0.16	<2	<0.05	<1	<5	<5	<5	4.3
0950S 0075E	Soil	1.03	83	0.076	<20	2.29	<0.01	0.07	<2	<0.05	<1	<5	6	<5	3.2
0950S 0100E	Soil	1.00	103	0.093	<20	2.55	0.01	0.09	<2	<0.05	<1	<5	6	5	6.3
0950S 0125E	Soil	0.97	79	0.081	<20	2.09	<0.01	0.06	<2	<0.05	<1	<5	7	<5	9.3
0950S 0150E	Soil	1.57	136	0.085	<20	2.33	0.01	0.24	<2	<0.05	<1	<5	<5	7	10.5
0950S 0175E	Soil	0.61	239	0.074	<20	2.16	0.03	0.11	<2	0.07	<1	<5	<5	5	13.4
0950S 0250E	Soil	1.40	91	0.080	<20	2.13	<0.01	0.07	<2	<0.05	<1	<5	<5	6	8.9
0950S 0275E	Soil	1.26	98	0.060	<20	2.06	<0.01	0.07	<2	<0.05	<1	<5	<5	<5	6.0
0950S 0300E	Soil	1.17	113	0.083	<20	2.44	0.01	0.07	<2	<0.05	<1	<5	7	5	5.8
0950S 0325E	Soil	1.25	149	0.085	<20	2.70	0.01	0.08	<2	<0.05	<1	<5	<5	5	10.1

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Project: Whipsaw

Report Date: November 01, 2014

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CERTIFICATE OF ANALYSIS

VAN14003306.1

Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	
MDL	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001	1	1	
0950S 0350E	Soil	13	1527	12	152	1.7	39	10	742	2.89	9	<2	118	0.6	<3	<3	59	1.00	0.067	22	41
0950S 0375E	Soil	23	638	12	95	1.2	62	11	535	3.17	6	<2	65	<0.5	<3	<3	65	0.65	0.053	23	70
0950S 0400E	Soil	117	2866	15	316	1.2	84	17	1791	4.27	15	<2	100	1.0	<3	<3	76	0.78	0.060	31	61
0950S 0475E	Soil	<1	107	14	109	0.4	44	7	357	2.65	5	<2	36	<0.5	<3	<3	56	0.31	0.025	11	31
0950S 0500E	Soil	<1	47	11	104	0.7	27	7	229	2.67	3	<2	27	<0.5	<3	<3	60	0.33	0.067	6	32
1000S 0300W	Soil	19	135	9	74	0.9	11	2	133	3.73	3	<2	13	<0.5	<3	<3	101	0.09	0.053	3	16
1000S 0275W	Soil	39	109	12	40	0.3	5	2	121	3.69	4	<2	15	<0.5	<3	<3	68	0.11	0.065	2	9
1000S 0250W	Soil	22	153	10	48	0.4	6	<1	161	4.65	3	<2	15	<0.5	<3	<3	160	0.09	0.063	2	8
1000S 0225W	Soil	21	220	6	48	1.4	5	4	148	5.75	8	<2	16	<0.5	<3	<3	160	0.08	0.073	4	7
1000S 0200W	Soil	39	273	5	63	0.7	8	6	237	5.97	8	<2	16	<0.5	<3	<3	180	0.08	0.072	6	13
1000S 0175W	Soil	44	845	4	64	0.6	16	9	201	5.82	14	<2	16	<0.5	<3	<3	170	0.09	0.080	7	35
1000S 0150W	Soil	42	1851	5	80	1.3	17	23	249	6.26	33	<2	10	<0.5	<3	<3	163	0.09	0.088	8	20
1000S 0125W	Soil	10	260	8	71	0.5	15	8	145	2.89	8	<2	10	<0.5	<3	<3	70	0.07	0.062	5	30
1000S 0100W	Soil	4	143	11	60	0.5	5	3	128	2.58	9	<2	8	<0.5	<3	<3	47	0.06	0.072	5	7
1000S 0075W	Soil	14	392	13	82	0.7	14	6	155	3.26	8	<2	11	<0.5	<3	<3	93	0.09	0.065	3	25
1000S 0050W	Soil	3	90	8	17	0.7	3	<1	43	1.56	2	<2	8	<0.5	<3	<3	37	0.06	0.062	2	6
1000S 0000E	Soil	4	197	9	44	0.3	29	10	188	2.53	5	<2	13	<0.5	<3	<3	60	0.13	0.063	2	63
1000S 0025E	Soil	5	887	9	62	0.3	34	22	402	2.82	5	<2	12	<0.5	<3	<3	68	0.11	0.090	3	67
1000S 0050E	Soil	4	151	6	50	0.4	26	9	219	2.45	4	<2	11	<0.5	<3	<3	60	0.09	0.066	3	56
1000S 0075E	Soil	2	105	6	50	<0.3	42	16	395	2.88	3	<2	14	<0.5	<3	<3	70	0.14	0.068	3	89
1000S 0100E	Soil	2	81	6	53	<0.3	39	14	308	2.86	3	<2	14	<0.5	<3	<3	72	0.16	0.051	3	79
1000S 0125E	Soil	3	138	6	61	<0.3	36	12	275	2.95	5	<2	16	<0.5	<3	<3	73	0.19	0.055	4	72
1000S 0150E	Soil	2	152	5	50	<0.3	38	19	535	3.06	4	<2	17	<0.5	<3	<3	74	0.27	0.067	4	77
1000S 0175E	Soil	3	265	6	64	<0.3	56	22	606	3.29	4	<2	21	<0.5	<3	<3	85	0.32	0.066	4	112
1000S 0200E	Soil	25	924	7	64	1.8	39	12	272	3.10	7	<2	12	<0.5	<3	<3	75	0.12	0.099	4	78
1000S 0225E	Soil	46	1626	5	46	1.0	24	85	913	1.52	7	<2	11	<0.5	<3	<3	36	0.14	0.114	5	36
1000S 0250E	Soil	45	5368	4	90	2.0	39	89	922	2.31	6	<2	23	<0.5	<3	<3	53	0.32	0.120	17	62
1000S 0275E	Soil	28	>10000	8	98	1.5	36	217	1925	1.30	3	<2	174	1.2	<3	<3	29	2.49	0.076	11	30
1000S 0300E	Soil	11	519	7	59	<0.3	37	14	510	2.76	6	<2	25	<0.5	<3	<3	67	0.31	0.026	5	74
1000S 0325E	Soil	14	776	9	142	0.6	46	14	401	3.41	6	<2	48	<0.5	<3	<3	92	0.44	0.030	11	102

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CERTIFICATE OF ANALYSIS

VAN14003306.1

Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ115
Analyte	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	Au	
Unit	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	ppb	
MDL	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	0.5	
0950S 0350E	Soil	0.67	173	0.056	<20	2.48	0.02	0.04	<2	0.06	<1	<5	<5	14.4	
0950S 0375E	Soil	1.18	239	0.089	<20	2.86	0.02	0.11	<2	<0.05	<1	<5	6	8.3	
0950S 0400E	Soil	0.84	455	0.065	<20	3.15	0.02	0.13	<2	<0.05	<1	<5	8	21.5	
0950S 0475E	Soil	0.51	389	0.067	<20	2.08	0.02	0.05	<2	<0.05	<1	<5	<5	4.3	
0950S 0500E	Soil	0.50	165	0.072	<20	2.16	0.02	0.07	<2	<0.05	<1	<5	7	<5	3.0
1000S 0300W	Soil	0.50	84	0.162	<20	2.65	0.02	0.08	<2	<0.05	<1	<5	11	<5	3.6
1000S 0275W	Soil	0.34	47	0.093	<20	2.15	0.01	0.06	<2	<0.05	<1	<5	10	<5	4.1
1000S 0250W	Soil	0.97	134	0.211	<20	3.10	0.02	0.22	<2	0.06	<1	<5	15	9	3.2
1000S 0225W	Soil	0.81	121	0.163	<20	2.87	0.01	0.19	<2	0.06	<1	<5	<5	10	6.4
1000S 0200W	Soil	1.16	135	0.207	<20	3.42	0.01	0.20	<2	0.05	<1	<5	<5	13	2.0
1000S 0175W	Soil	1.39	162	0.169	<20	3.85	<0.01	0.31	<2	0.05	<1	<5	<5	15	14.3
1000S 0150W	Soil	0.88	86	0.112	<20	4.26	<0.01	0.12	<2	<0.05	<1	<5	<5	14	11.9
1000S 0125W	Soil	0.56	73	0.093	<20	2.62	0.01	0.04	<2	<0.05	<1	<5	<5	<5	15.2
1000S 0100W	Soil	0.16	61	0.038	<20	2.17	0.01	0.04	<2	<0.05	<1	<5	6	<5	2.5
1000S 0075W	Soil	0.69	78	0.135	<20	2.90	0.01	0.04	<2	<0.05	<1	<5	9	<5	6.4
1000S 0050W	Soil	0.10	30	0.090	<20	1.59	0.02	0.03	<2	<0.05	<1	<5	7	<5	0.7
1000S 0000E	Soil	0.94	47	0.067	<20	1.86	<0.01	0.06	<2	<0.05	<1	<5	<5	<5	3.3
1000S 0025E	Soil	1.00	55	0.075	<20	2.41	<0.01	0.06	<2	<0.05	<1	<5	<5	<5	4.8
1000S 0050E	Soil	0.81	79	0.066	<20	1.73	<0.01	0.04	<2	<0.05	<1	<5	7	<5	2.0
1000S 0075E	Soil	1.37	61	0.059	<20	2.14	<0.01	0.06	<2	<0.05	<1	<5	6	<5	<0.5
1000S 0100E	Soil	1.30	66	0.066	<20	2.16	<0.01	0.07	<2	<0.05	<1	<5	7	<5	4.0
1000S 0125E	Soil	1.12	92	0.072	<20	2.22	<0.01	0.07	<2	<0.05	<1	<5	8	<5	<0.5
1000S 0150E	Soil	1.44	100	0.071	<20	1.83	<0.01	0.22	<2	<0.05	<1	<5	5	5	21.9
1000S 0175E	Soil	1.88	111	0.075	<20	2.34	<0.01	0.21	<2	<0.05	<1	<5	7	6	4.4
1000S 0200E	Soil	1.26	66	0.064	<20	4.56	<0.01	0.23	<2	0.11	<1	<5	6	6	8.2
1000S 0225E	Soil	0.62	31	0.035	<20	7.41	0.01	0.13	<2	0.15	<1	<5	<5	<5	0.8
1000S 0250E	Soil	1.04	61	0.043	<20	5.59	0.01	0.19	<2	0.08	<1	<5	<5	<5	2.2
1000S 0275E	Soil	0.49	185	0.021	<20	1.18	0.01	0.09	4	0.12	<1	<5	<5	<5	3.8
1000S 0300E	Soil	1.21	101	0.058	<20	1.73	<0.01	0.06	<2	<0.05	<1	<5	<5	<5	12.0
1000S 0325E	Soil	1.40	178	0.095	<20	2.61	0.01	0.06	<2	<0.05	<1	<5	6	7	5.6

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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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client: **Martech Industries Inc.**

1329 - 510 West Hastings Street
Vancouver BC V6B 1L8 CANADA

Project: Whipsaw

Report Date: November 01, 2014

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

VAN14003306.1

Method	Analyte	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	
MDL		1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001	1	1
1000S 0350E	Soil	10	374	9	107	1.2	46	10	474	2.97	6	<2	90	<0.5	<3	<3	63	0.65	0.040	9	62
1000S 0375E	Soil	9	577	11	119	0.7	42	14	638	3.17	7	<2	95	0.7	<3	<3	64	0.78	0.048	11	59
1000S 0400E	Soil	8	78	7	45	<0.3	33	13	364	2.66	13	<2	34	<0.5	<3	<3	55	0.33	0.057	7	64
1000S 0425E	Soil	25	475	7	308	<0.3	52	16	458	3.08	6	<2	33	<0.5	<3	<3	70	0.34	0.037	5	90
1000S 0450E	Soil	17	510	7	300	0.6	63	14	245	2.99	7	<2	27	<0.5	<3	<3	65	0.23	0.043	6	61
1000S 0475E	Soil	2	173	6	73	0.3	30	9	213	2.53	7	<2	28	<0.5	<3	<3	53	0.27	0.034	12	42
1000S 0500E	Soil	<1	28	8	52	0.4	16	6	121	2.22	9	<2	15	<0.5	<3	<3	45	0.13	0.078	4	25



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Vancouver BC V6B 1L8 CANADA

Project: Whipsaw

Report Date: November 01, 2014

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CERTIFICATE OF ANALYSIS

VAN14003306.1

Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ115
Analyte	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	Au	
Unit	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	ppb	
MDL	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	0.5	
1000S 0350E	Soil	0.93	225	0.089	<20	2.71	0.02	0.06	<2	<0.05	<1	<5	<5	<5	2.6
1000S 0375E	Soil	0.98	198	0.065	<20	2.25	0.02	0.07	<2	<0.05	<1	<5	<5	5	3.3
1000S 0400E	Soil	1.16	103	0.038	<20	1.60	<0.01	0.07	<2	<0.05	<1	<5	<5	<5	6.1
1000S 0425E	Soil	1.56	90	0.063	<20	2.13	<0.01	0.06	<2	<0.05	<1	<5	5	<5	8.3
1000S 0450E	Soil	1.02	212	0.074	<20	2.58	0.01	0.08	<2	<0.05	<1	<5	6	<5	<0.5
1000S 0475E	Soil	0.66	204	0.035	<20	1.89	0.01	0.06	<2	<0.05	<1	<5	<5	<5	1.6
1000S 0500E	Soil	0.36	112	0.034	<20	1.68	0.01	0.05	<2	<0.05	<1	<5	6	<5	<0.5



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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Project: Whipsaw
Report Date: November 01, 2014

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QUALITY CONTROL REPORT

VAN14003306.1

Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	
MDL	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001	1	1	
Pulp Duplicates																					
0850S 0050E	Soil	8	277	8	82	0.5	19	10	216	2.61	7	<2	9	<0.5	<3	<3	60	0.12	0.049	4	37
REP 0850S 0050E	QC																				
0850S 0075E	Soil	6	375	<3	120	1.2	31	11	316	2.87	8	<2	22	<0.5	<3	<3	65	0.33	0.036	11	51
REP 0850S 0075E	QC	6	373	<3	121	1.3	31	11	315	2.90	11	<2	22	<0.5	<3	<3	66	0.33	0.037	11	52
0900S 0150E	Soil	10	719	4	150	0.9	33	14	210	3.23	11	<2	17	<0.5	<3	<3	99	0.26	0.045	4	70
REP 0900S 0150E	QC	11	745	<3	155	1.0	34	14	218	3.31	13	<2	17	<0.5	<3	<3	103	0.26	0.046	5	74
1000S 0150W	Soil	42	1851	5	80	1.3	17	23	249	6.26	33	<2	10	<0.5	<3	<3	163	0.09	0.088	8	20
REP 1000S 0150W	QC																				
1000S 0125W	Soil	10	260	8	71	0.5	15	8	145	2.89	8	<2	10	<0.5	<3	<3	70	0.07	0.062	5	30
REP 1000S 0125W	QC	9	261	8	71	0.5	15	8	147	2.96	8	<2	10	<0.5	<3	<3	71	0.07	0.061	5	29
1000S 0500E	Soil	<1	28	8	52	0.4	16	6	121	2.22	9	<2	15	<0.5	<3	<3	45	0.13	0.078	4	25
REP 1000S 0500E	QC	<1	28	5	52	0.4	15	6	120	2.26	10	<2	15	<0.5	<3	<3	47	0.13	0.075	4	25
Reference Materials																					
STD DS10	Standard	12	147	153	354	1.9	72	11	871	2.62	44	5	60	2.2	9	7	42	0.98	0.073	15	52
STD DS10	Standard	10	146	138	349	1.8	71	11	860	2.58	43	5	58	2.4	7	10	40	0.97	0.074	13	50
STD DS10	Standard	13	153	145	371	1.8	73	10	854	2.65	45	5	65	2.1	8	12	42	1.02	0.074	15	51
STD DS10	Standard	14	151	152	370	1.8	72	10	847	2.64	44	5	67	2.2	8	11	42	1.02	0.071	15	50
STD DS10	Standard	14	156	153	380	1.8	72	11	896	2.77	47	5	67	2.4	9	10	42	1.07	0.075	15	52
STD OREAS45EA	Standard	2	677	8	28	0.5	369	45	388	22.76	13	9	3	<0.5	<3	<3	299	0.03	0.029	7	838
STD OREAS45EA	Standard	1	664	6	28	0.3	356	43	387	22.81	9	8	3	<0.5	<3	<3	289	0.03	0.028	7	826
STD OREAS45EA	Standard	2	713	16	32	<0.3	386	47	412	22.86	13	5	4	<0.5	<3	<3	300	0.03	0.029	7	871
STD OREAS45EA	Standard	2	706	15	31	<0.3	393	47	407	23.30	14	5	4	<0.5	<3	<3	298	0.03	0.029	7	856
STD OREAS45EA	Standard	2	703	16	33	<0.3	395	48	411	22.78	12	8	4	<0.5	<3	<3	312	0.03	0.029	8	888
STD OREAS901	Standard																				
STD OREAS901	Standard																				
STD OREAS901	Standard																				
STD OREAS901	Standard																				
STD OREAS901 Expected																					



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 PHONE (604) 253-3158

Client: **Martech Industries Inc.**
 1329 - 510 West Hastings Street
 Vancouver BC V6B 1L8 CANADA

Project: Whipsaw
 Report Date: November 01, 2014

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QUALITY CONTROL REPORT

VAN14003306.1

Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ115
Analyte	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	Au	
Unit	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	ppb	
MDL	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	0.5	
Pulp Duplicates															
0850S 0050E	Soil	0.57	99	0.055	<20	1.85	<0.01	0.04	<2	<0.05	<1	<5	7	<5	7.2
REP 0850S 0050E	QC														6.9
0850S 0075E	Soil	0.76	225	0.067	<20	2.35	<0.01	0.05	<2	<0.05	<1	<5	6	<5	11.7
REP 0850S 0075E	QC	0.75	224	0.067	<20	2.34	<0.01	0.05	<2	<0.05	<1	<5	7	<5	
0900S 0150E	Soil	1.09	112	0.087	<20	2.23	<0.01	0.06	<2	<0.05	<1	<5	6	6	10.4
REP 0900S 0150E	QC	1.14	117	0.094	<20	2.37	<0.01	0.06	<2	<0.05	<1	6	6	6	6.9
1000S 0150W	Soil	0.88	86	0.112	<20	4.26	<0.01	0.12	<2	<0.05	<1	<5	<5	14	11.9
REP 1000S 0150W	QC														11.3
1000S 0125W	Soil	0.56	73	0.093	<20	2.62	0.01	0.04	<2	<0.05	<1	<5	<5	<5	15.2
REP 1000S 0125W	QC	0.56	73	0.094	<20	2.58	0.01	0.04	<2	<0.05	<1	<5	<5	<5	
1000S 0500E	Soil	0.36	112	0.034	<20	1.68	0.01	0.05	<2	<0.05	<1	<5	6	<5	<0.5
REP 1000S 0500E	QC	0.36	108	0.037	<20	1.65	0.01	0.05	<2	<0.05	<1	<5	6	<5	<0.5
Reference Materials															
STD DS10	Standard	0.73	403	0.068	<20	0.96	0.06	0.32	<2	0.28	<1	7	<5	<5	
STD DS10	Standard	0.72	387	0.062	<20	0.91	0.06	0.31	3	0.26	<1	7	<5	<5	
STD DS10	Standard	0.74	416	0.069	<20	0.97	0.06	0.32	3	0.28	<1	<5	<5	<5	
STD DS10	Standard	0.75	411	0.073	<20	1.00	0.07	0.32	2	0.28	<1	<5	<5	<5	
STD DS10	Standard	0.78	426	0.077	<20	1.01	0.07	0.33	3	0.29	<1	<5	<5	<5	
STD OREAS45EA	Standard	0.09	134	0.089	<20	2.90	0.02	0.05	<2	<0.05	<1	<5	<5	78	
STD OREAS45EA	Standard	0.08	131	0.089	<20	2.84	0.02	0.05	<2	<0.05	<1	<5	<5	78	
STD OREAS45EA	Standard	0.09	140	0.095	<20	3.14	0.02	0.05	<2	<0.05	<1	<5	15	83	
STD OREAS45EA	Standard	0.09	144	0.096	<20	3.09	0.02	0.05	<2	<0.05	<1	<5	<5	81	
STD OREAS45EA	Standard	0.08	155	0.102	<20	3.22	0.02	0.06	<2	<0.05	<1	<5	9	85	
STD OREAS901	Standard														394.6
STD OREAS901	Standard														358.3
STD OREAS901	Standard														363.7
STD OREAS901	Standard														392.8
STD OREAS901 Expected															363



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Client: Martech Industries Inc.
 1329 - 510 West Hastings Street
 Vancouver BC V6B 1L8 CANADA

Project: Whipsaw
 Report Date: November 01, 2014

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QUALITY CONTROL REPORT

VAN14003306.1

	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm
	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001	1	1
STD DS10 Expected	14.69	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	43.7	7.5	67.1	2.49	8.23	11.65	43	1.0625	0.073	17.5	54.6
STD OREAS45EA Expected	1.39	709	14.3	28.9	0.26	381	52	400	23.51	9	10.7	3.5				303	0.036	0.029	6.57	849
BLK Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1	<1
BLK Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1	<1
BLK Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1	<1
BLK Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1	<1
BLK Blank																				
BLK Blank																				
BLK Blank																				
BLK Blank																				
BLK Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1	<1



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Project: Whipsaw
 Report Date: November 01, 2014

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QUALITY CONTROL REPORT

VAN14003306.1

		AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ115	
		Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	Au
		%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	ppb
		0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	0.5
STD DS10 Expected		0.775	359	0.0817		1.0259	0.067	0.338	3.32	0.29	0.3	5.1	4.3	2.8	
STD OREAS45EA Expected		0.095	148	0.0875		3.13	0.02	0.053		0.036			11.7	78	
BLK	Blank	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5	
BLK	Blank	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5	
BLK	Blank	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5	
BLK	Blank	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5	
BLK	Blank														<0.5
BLK	Blank														<0.5
BLK	Blank														<0.5
BLK	Blank														<0.5
BLK	Blank	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5	



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Client: **Martech Industries Inc.**
829 - 510 West Hastings Street
Vancouver BC V6B 1L8 CANADA

Submitted By: Charles Martin
Receiving Lab: Canada-Vancouver
Received: November 03, 2014
Report Date: November 26, 2014
Page: 1 of 9

CERTIFICATE OF ANALYSIS

VAN14003580.1

CLIENT JOB INFORMATION

Project: Whipsaw
Shipment ID:
P.O. Number
Number of Samples: 225

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
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: Martech Industries Inc.
829 - 510 West Hastings Street
Vancouver BC V6B 1L8
CANADA

CC: Jim Chapman

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	225	Dry at 60C			VAN
SS80	225	Dry at 60C sieve 100g to -80 mesh			VAN
AQ300	225	1:1:1 Aqua Regia digestion ICP-ES analysis	0.5	Completed	VAN
DRPLP	225	Warehouse handling / disposition of pulps			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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Project: Whipsaw

Report Date: November 26, 2014

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CERTIFICATE OF ANALYSIS

VAN14003580.1

Method Analyte	Unit	AQ300																			
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr
MDL	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm
L400N 500W	Soil	13	306	<3	38	<0.3	21	8	149	1.52	<2	<2	37	<0.5	<3	<3	39	0.40	0.076	6	46
L400N 475W	Soil	7	137	<3	32	<0.3	17	5	115	1.34	2	<2	20	<0.5	<3	<3	56	0.18	0.029	2	42
L400N 450W	Soil	6	156	4	28	<0.3	16	5	102	1.72	<2	<2	13	<0.5	<3	<3	56	0.09	0.035	3	45
L400N 425W	Soil	4	60	4	29	0.6	13	4	88	2.28	2	<2	9	<0.5	<3	<3	58	0.09	0.046	2	34
L400N 400W	Soil	6	109	4	34	<0.3	16	6	111	2.68	3	<2	9	<0.5	<3	<3	66	0.09	0.050	3	44
L400N 350W	Soil	7	130	6	41	0.4	20	7	131	2.25	2	<2	15	<0.5	<3	<3	57	0.16	0.048	3	43
L400N 325W	Soil	6	188	<3	58	0.6	23	9	322	2.08	<2	<2	31	<0.5	<3	<3	55	0.46	0.064	3	43
L400N 300W	Soil	15	281	4	69	0.3	29	13	290	3.11	3	<2	33	<0.5	<3	3	79	0.26	0.067	3	66
L400N 275W	Soil	17	350	<3	85	<0.3	36	16	303	3.55	3	<2	27	<0.5	<3	<3	92	0.20	0.066	3	83
L400N 250W	Soil	7	137	3	39	<0.3	15	7	122	2.50	2	<2	12	<0.5	<3	<3	64	0.11	0.062	3	37
L400N 225W	Soil	8	220	<3	53	<0.3	17	7	161	2.90	3	<2	9	<0.5	<3	<3	72	0.09	0.087	3	38
L400N 200W	Soil	6	284	<3	75	<0.3	28	16	311	3.04	3	<2	11	<0.5	<3	<3	79	0.10	0.069	3	60
L400N 175W	Soil	6	238	4	60	0.3	25	11	278	2.83	2	<2	12	<0.5	<3	<3	75	0.13	0.065	3	55
L400N 150W	Soil	5	306	<3	52	0.4	23	11	191	2.86	2	<2	15	<0.5	<3	<3	76	0.09	0.066	3	53
L400N 125W	Soil	8	224	5	51	0.4	21	10	177	3.04	3	<2	12	<0.5	<3	<3	85	0.08	0.061	3	49
L400N 100W	Soil	9	199	<3	49	0.3	23	10	174	2.96	2	<2	10	<0.5	<3	<3	80	0.09	0.063	3	53
L400N 075W	Soil	31	493	<3	76	<0.3	30	15	321	4.12	3	<2	36	<0.5	<3	<3	126	0.22	0.075	4	68
L400N 050W	Soil	7	128	<3	48	0.4	21	8	141	2.70	2	<2	11	<0.5	<3	<3	71	0.08	0.077	3	55
L400N 025W	Soil	18	250	<3	56	<0.3	19	9	153	3.56	3	<2	22	<0.5	<3	<3	117	0.11	0.077	3	43
L400N 000W	Soil	13	329	4	72	0.3	30	18	253	3.98	2	<2	15	<0.5	<3	<3	112	0.13	0.070	3	62
L350N 500W	Soil	31	342	3	61	0.3	30	16	358	4.26	15	<2	19	<0.5	<3	<3	86	0.15	0.103	7	65
L350N 475W	Soil	4	530	<3	62	<0.3	15	7	14	0.18	<2	<2	27	<0.5	<3	<3	2	0.22	0.026	3	2
L350N 375W	Soil	13	285	<3	55	<0.3	33	11	189	2.27	3	<2	26	<0.5	<3	<3	84	0.22	0.027	4	72
L350N 350W	Soil	11	300	3	50	<0.3	26	9	172	2.23	3	<2	18	<0.5	<3	<3	71	0.18	0.039	4	53
L350N 325W	Soil	11	312	<3	54	<0.3	31	12	171	3.65	5	<2	12	<0.5	<3	<3	82	0.10	0.051	4	69
L350N 300W	Soil	12	265	<3	71	0.4	29	13	328	3.26	4	<2	29	<0.5	<3	3	82	0.23	0.075	3	64
L350N 275W	Soil	12	283	3	70	0.4	31	13	263	3.53	3	<2	24	<0.5	<3	<3	89	0.16	0.067	4	73
L350N 250W	Soil	13	293	4	72	<0.3	30	13	294	3.54	4	<2	30	<0.5	<3	<3	88	0.20	0.067	3	72
L350N 225W	Soil	6	127	<3	50	<0.3	25	10	203	3.05	2	<2	12	<0.5	<3	4	77	0.09	0.059	3	54
L350N 200W	Soil	6	142	<3	52	<0.3	19	8	175	2.93	3	2	12	<0.5	<3	<3	72	0.09	0.063	3	41

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Client: Martech Industries Inc.
829 - 510 West Hastings Street
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Project: Whipsaw

Report Date: November 26, 2014

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VAN14003580.1

Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
Unit	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
MDL	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
L400N 500W	Soil	0.84	142	0.043	<20	1.61	0.01	0.12	<2	0.23	<1	<5	<5
L400N 475W	Soil	0.65	66	0.054	<20	1.37	<0.01	0.03	<2	0.06	<1	<5	<5
L400N 450W	Soil	0.61	85	0.096	<20	1.76	<0.01	0.03	<2	<0.05	<1	<5	7
L400N 425W	Soil	0.40	36	0.089	<20	1.46	<0.01	0.02	<2	<0.05	<1	<5	6
L400N 400W	Soil	0.52	50	0.094	<20	2.46	<0.01	0.03	<2	<0.05	<1	<5	8
L400N 350W	Soil	0.62	58	0.074	<20	1.93	<0.01	0.05	<2	<0.05	<1	<5	<5
L400N 325W	Soil	0.72	98	0.083	<20	1.63	0.02	0.12	<2	<0.05	<1	<5	5
L400N 300W	Soil	0.93	114	0.095	<20	2.19	0.01	0.17	<2	0.07	<1	<5	5
L400N 275W	Soil	1.18	204	0.124	<20	2.74	0.01	0.33	<2	0.10	<1	<5	<5
L400N 250W	Soil	0.49	74	0.086	<20	1.92	<0.01	0.05	<2	<0.05	<1	<5	<5
L400N 225W	Soil	0.62	59	0.119	<20	2.38	<0.01	0.05	<2	<0.05	<1	<5	6
L400N 200W	Soil	0.91	69	0.113	<20	2.51	<0.01	0.05	<2	<0.05	<1	<5	<5
L400N 175W	Soil	0.78	62	0.107	<20	2.26	<0.01	0.05	<2	<0.05	<1	<5	5
L400N 150W	Soil	0.72	74	0.105	<20	2.37	<0.01	0.05	<2	<0.05	<1	<5	6
L400N 125W	Soil	0.70	66	0.123	<20	2.43	<0.01	0.05	<2	<0.05	<1	<5	<5
L400N 100W	Soil	0.73	55	0.118	<20	2.72	<0.01	0.04	<2	<0.05	<1	<5	<5
L400N 075W	Soil	1.46	133	0.161	<20	2.71	<0.01	0.33	<2	0.15	<1	<5	<5
L400N 050W	Soil	0.65	58	0.105	<20	2.33	<0.01	0.04	<2	<0.05	<1	<5	5
L400N 025W	Soil	0.78	131	0.145	<20	2.74	<0.01	0.11	<2	0.10	<1	<5	5
L400N 000W	Soil	0.98	83	0.109	<20	3.03	<0.01	0.08	<2	<0.05	<1	<5	6
L350N 500W	Soil	1.18	134	0.097	<20	2.54	<0.01	0.16	<2	0.09	<1	<5	<5
L350N 475W	Soil	0.03	65	0.005	<20	0.46	<0.01	0.01	<2	0.55	<1	<5	<5
L350N 375W	Soil	1.09	142	0.088	<20	2.22	<0.01	0.03	<2	0.10	<1	<5	<5
L350N 350W	Soil	0.92	85	0.098	<20	2.39	0.01	0.04	<2	<0.05	<1	<5	5
L350N 325W	Soil	0.97	64	0.088	<20	3.37	<0.01	0.06	<2	<0.05	<1	<5	7
L350N 300W	Soil	0.99	129	0.103	<20	2.42	0.01	0.18	<2	0.06	<1	<5	<5
L350N 275W	Soil	1.10	123	0.108	<20	2.50	<0.01	0.18	<2	0.07	<1	<5	<5
L350N 250W	Soil	1.10	135	0.107	<20	2.38	<0.01	0.22	<2	0.08	<1	<5	<5
L350N 225W	Soil	0.93	78	0.111	<20	2.46	<0.01	0.06	<2	<0.05	<1	<5	<5
L350N 200W	Soil	0.68	70	0.125	<20	2.64	<0.01	0.05	<2	<0.05	<1	<5	<5

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Project: Whipsaw

Report Date: November 26, 2014

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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	
	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001	1	1	
L350N 175W	Soil	8	249	3	52	0.4	20	9	148	2.94	3	<2	13	<0.5	<3	<3	78	0.08	0.061	3	44
L350N 150W	Soil	11	275	6	58	0.3	26	12	213	3.36	4	2	15	<0.5	<3	<3	89	0.09	0.074	3	58
L350N 125W	Soil	17	172	<3	55	0.4	19	8	196	3.78	3	2	15	<0.5	<3	<3	105	0.09	0.058	3	44
L350N 100W	Soil	8	98	<3	42	0.3	13	6	234	2.82	2	<2	14	<0.5	<3	<3	75	0.14	0.068	2	32
L350N 075W	Soil	23	360	<3	67	<0.3	28	14	316	3.87	2	<2	38	<0.5	<3	<3	121	0.23	0.074	4	63
L350N 050W	Soil	24	227	4	53	0.3	22	9	173	3.57	<2	2	20	<0.5	<3	<3	114	0.09	0.041	3	52
L350N 025W	Soil	29	178	<3	56	<0.3	15	8	199	3.91	4	3	20	<0.5	<3	<3	125	0.13	0.059	3	36
L350N 000W	Soil	23	177	<3	55	<0.3	21	8	201	3.42	3	<2	14	<0.5	<3	<3	103	0.11	0.059	3	54
L300N 500W	Soil	14	181	<3	55	<0.3	22	8	168	3.42	9	<2	11	<0.5	<3	<3	74	0.08	0.099	5	50
L300N 475W	Soil	13	334	<3	34	<0.3	11	7	158	2.12	<2	<2	10	<0.5	<3	<3	49	0.08	0.033	10	25
L300N 450W	Soil	3	356	<3	17	<0.3	5	3	10	0.06	<2	<2	29	<0.5	<3	<3	11	0.28	0.058	7	2
L300N 300W	Soil	42	203	3	41	0.5	10	4	131	4.26	3	<2	33	<0.5	<3	<3	115	0.08	0.070	3	28
L300N 275W	Soil	29	190	4	40	<0.3	18	6	106	2.91	3	<2	16	<0.5	<3	<3	61	0.19	0.054	7	42
L300N 250W	Soil	8	732	4	73	<0.3	27	11	269	3.02	<2	<2	21	<0.5	<3	<3	76	0.18	0.029	4	54
L300N 225W	Soil	13	195	5	53	<0.3	24	11	228	3.45	3	2	17	<0.5	<3	<3	88	0.09	0.080	3	53
L300N 200W	Soil	17	276	<3	64	<0.3	30	13	216	3.84	4	2	22	<0.5	<3	<3	100	0.12	0.088	3	63
L300N 175W	Soil	10	217	7	46	0.4	18	9	236	3.14	3	<2	14	<0.5	<3	<3	83	0.09	0.078	3	41
L300N 150W	Soil	15	238	<3	64	<0.3	26	12	199	3.89	2	<2	17	<0.5	<3	<3	101	0.09	0.065	3	56
L300N 125W	Soil	8	299	<3	73	<0.3	33	17	235	3.26	3	<2	20	<0.5	<3	<3	84	0.17	0.071	4	65
L300N 100W	Soil	11	207	4	63	<0.3	27	13	267	3.39	3	<2	26	<0.5	<3	<3	90	0.18	0.080	3	59
L300N 075W	Soil	13	242	5	61	<0.3	25	12	272	3.29	3	<2	27	<0.5	<3	<3	89	0.17	0.069	3	56
L300N 050W	Soil	41	383	3	73	0.5	29	13	276	5.24	4	3	76	<0.5	<3	<3	147	0.19	0.075	5	69
L300N 025W	Soil	26	305	4	61	0.3	25	11	260	4.34	3	<2	36	<0.5	<3	<3	132	0.17	0.066	4	60
L300N 000W	Soil	22	202	5	55	0.4	30	12	192	4.16	3	<2	22	<0.5	<3	<3	113	0.14	0.062	3	72
L250N 500W	Soil	16	223	5	35	0.3	13	6	144	2.93	2	<2	15	<0.5	<3	<3	62	0.08	0.059	8	32
L250N 475W	Soil	16	174	5	32	<0.3	16	6	132	3.22	3	<2	14	<0.5	<3	<3	70	0.06	0.069	7	42
L250N 450W	Soil	7	90	6	29	<0.3	11	4	109	3.14	14	<2	13	<0.5	<3	<3	66	0.07	0.074	5	27
L250N 425W	Soil	9	195	5	14	0.5	6	3	58	1.45	<2	<2	10	<0.5	<3	<3	29	0.05	0.035	6	15
L250N 400W	Soil	2	139	<3	13	<0.3	2	<1	9	0.06	<2	<2	16	<0.5	<3	<3	6	0.12	0.065	3	2
L250N 250W	Soil	1	219	5	15	<0.3	2	4	20	0.28	<2	<2	18	<0.5	<3	<3	9	0.19	0.045	2	4

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Vancouver BC V6B 1L8 CANADA

Project: Whipsaw

Report Date: November 26, 2014

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CERTIFICATE OF ANALYSIS

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Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	
Unit	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	
L350N 175W	Soil	0.68	73	0.119	<20	2.47	<0.01	0.05	<2	<0.05	<1	<5	6	<5
L350N 150W	Soil	0.89	77	0.115	<20	2.63	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
L350N 125W	Soil	0.72	82	0.150	<20	2.57	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
L350N 100W	Soil	0.47	59	0.110	<20	1.93	<0.01	0.04	<2	<0.05	<1	<5	<5	<5
L350N 075W	Soil	1.35	132	0.163	<20	2.57	0.01	0.34	<2	0.17	<1	<5	<5	8
L350N 050W	Soil	1.13	100	0.157	<20	2.40	<0.01	0.13	<2	0.12	<1	<5	<5	6
L350N 025W	Soil	0.94	111	0.181	<20	2.75	<0.01	0.12	<2	<0.05	<1	<5	<5	7
L350N 000W	Soil	0.83	75	0.162	<20	2.90	<0.01	0.06	<2	<0.05	<1	<5	<5	6
L300N 500W	Soil	0.76	84	0.086	<20	2.90	<0.01	0.05	<2	<0.05	<1	<5	6	<5
L300N 475W	Soil	0.63	48	0.066	<20	1.76	0.01	0.04	<2	<0.05	1	<5	7	<5
L300N 450W	Soil	0.03	49	0.015	<20	0.92	0.01	0.01	<2	0.87	<1	<5	<5	<5
L300N 300W	Soil	0.85	154	0.151	<20	2.21	0.01	0.18	<2	0.20	<1	<5	6	8
L300N 275W	Soil	0.62	36	0.096	<20	2.64	<0.01	0.04	<2	0.07	<1	<5	7	<5
L300N 250W	Soil	1.16	87	0.116	<20	1.91	<0.01	0.11	<2	<0.05	<1	<5	<5	<5
L300N 225W	Soil	0.87	90	0.111	<20	2.60	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
L300N 200W	Soil	1.13	97	0.123	<20	2.50	<0.01	0.06	<2	<0.05	<1	<5	<5	6
L300N 175W	Soil	0.64	77	0.115	<20	2.32	<0.01	0.05	<2	<0.05	<1	<5	<5	<5
L300N 150W	Soil	0.93	82	0.136	<20	2.69	<0.01	0.06	<2	<0.05	1	<5	<5	5
L300N 125W	Soil	0.95	92	0.109	<20	2.72	<0.01	0.07	<2	<0.05	<1	<5	<5	<5
L300N 100W	Soil	0.90	114	0.113	<20	2.48	<0.01	0.09	<2	0.06	<1	<5	<5	<5
L300N 075W	Soil	0.90	108	0.118	<20	2.28	<0.01	0.12	<2	0.08	<1	<5	<5	<5
L300N 050W	Soil	1.57	171	0.205	<20	3.35	0.02	0.40	<2	0.25	<1	<5	<5	11
L300N 025W	Soil	1.42	141	0.191	<20	2.80	0.02	0.38	<2	0.19	<1	<5	<5	9
L300N 000W	Soil	1.02	110	0.149	<20	2.79	<0.01	0.07	<2	<0.05	<1	<5	<5	6
L250N 500W	Soil	0.60	112	0.124	<20	1.81	0.01	0.06	<2	0.05	<1	<5	6	<5
L250N 475W	Soil	0.63	78	0.105	<20	2.34	<0.01	0.06	<2	0.06	<1	<5	6	<5
L250N 450W	Soil	0.43	86	0.101	<20	1.72	<0.01	0.05	<2	<0.05	<1	<5	6	<5
L250N 425W	Soil	0.23	37	0.060	<20	1.11	0.01	0.03	<2	<0.05	<1	<5	<5	<5
L250N 400W	Soil	0.02	29	0.012	<20	0.74	0.03	0.04	<2	0.30	<1	<5	<5	<5
L250N 250W	Soil	0.04	17	0.098	<20	0.87	0.03	0.01	<2	0.38	<1	<5	<5	<5



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Method Analyte Unit MDL	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	
L250N 200W	Soil	13	538	4	24	0.4	10	3	97	2.42	<2	<2	17	<0.5	<3	<3	56	0.06	0.039	5	27
L250N 175W	Soil	26	266	3	51	<0.3	26	10	181	3.75	2	<2	30	<0.5	<3	<3	99	0.09	0.063	5	59
L250N 150W	Soil	24	218	4	54	0.3	19	7	195	4.36	3	<2	63	<0.5	<3	<3	135	0.16	0.077	6	46
L250N 125W	Soil	29	305	7	60	0.6	22	11	185	4.28	<2	<2	42	<0.5	<3	<3	125	0.15	0.062	5	45
L250N 100W	Soil	27	235	6	51	0.7	20	8	155	4.15	<2	<2	38	<0.5	<3	<3	112	0.10	0.074	5	44
L250N 075W	Soil	28	159	4	52	<0.3	16	6	205	4.26	2	<2	29	<0.5	<3	<3	117	0.13	0.069	3	40
L250N 050W	Soil	25	286	6	58	<0.3	25	10	204	4.94	3	<2	52	<0.5	<3	<3	143	0.16	0.066	4	62
L250N 025W	Soil	8	252	<3	64	<0.3	34	17	272	3.51	2	<2	28	<0.5	<3	<3	93	0.15	0.077	4	71
L250N 000W	Soil	8	113	5	42	<0.3	15	7	147	3.37	<2	<2	18	<0.5	<3	<3	91	0.12	0.060	3	38
L200N 500W	Soil	21	118	5	36	<0.3	18	6	141	3.74	5	2	26	<0.5	<3	<3	79	0.07	0.113	7	41
L200N 475W	Soil	19	147	6	32	0.6	18	6	163	3.70	4	<2	19	<0.5	<3	<3	81	0.09	0.059	6	48
L200N 450W	Soil	29	577	4	35	0.5	15	6	127	3.52	6	<2	26	<0.5	<3	<3	64	0.09	0.049	10	38
L200N 425W	Soil	32	525	5	23	0.5	10	4	89	3.09	10	<2	17	<0.5	<3	<3	53	0.05	0.087	5	25
L200N 400W	Soil	6	762	3	18	0.7	4	3	52	1.69	2	<2	7	<0.5	<3	<3	33	0.04	0.080	4	11
L200N 375W	Soil	102	691	7	37	<0.3	23	10	187	6.43	10	<2	37	<0.5	<3	<3	100	0.06	0.113	8	57
L200N 350W	Soil	6	548	<3	21	<0.3	4	3	65	2.13	3	<2	12	<0.5	<3	<3	44	0.04	0.023	3	11
L200N 325W	Soil	10	946	3	31	<0.3	4	9	87	1.37	2	<2	13	<0.5	<3	<3	47	0.14	0.066	5	6
L200N 175W	Soil	7	73	3	35	<0.3	2	2	117	1.53	<2	<2	18	<0.5	<3	<3	53	0.18	0.019	2	6
L200N 125W	Soil	35	178	<3	52	0.7	14	7	158	4.61	2	<2	30	<0.5	<3	<3	141	0.08	0.062	4	34
L200N 100W	Soil	31	131	<3	43	0.4	11	6	104	3.96	2	<2	18	<0.5	<3	<3	111	0.09	0.057	3	26
L200N 075W	Soil	26	219	<3	52	0.5	18	9	157	4.46	3	<2	32	<0.5	<3	<3	140	0.11	0.080	4	42
L200N 050W	Soil	22	261	4	61	0.5	21	8	183	5.47	3	<2	48	<0.5	<3	<3	168	0.14	0.069	4	58
L200N 025W	Soil	18	186	<3	56	<0.3	24	10	219	4.36	3	<2	50	<0.5	<3	<3	136	0.17	0.057	4	61
L200N 000W	Soil	24	240	<3	58	0.5	21	9	206	5.51	5	<2	30	<0.5	<3	<3	164	0.14	0.079	3	59
L150N 500W	Soil	47	556	4	38	1.2	18	9	170	3.79	25	<2	26	<0.5	<3	<3	70	0.07	0.064	16	44
L150N 475W	Soil	38	697	<3	35	1.2	21	8	171	3.33	17	<2	27	<0.5	<3	<3	67	0.08	0.096	9	49
L150N 450W	Soil	29	137	3	27	0.8	14	5	122	3.36	5	<2	36	<0.5	<3	<3	63	0.05	0.102	7	36
L150N 425W	Soil	11	789	<3	22	0.5	8	4	76	2.49	3	<2	13	<0.5	<3	<3	47	0.05	0.107	5	21
L150N 400W	Soil	19	925	<3	21	0.7	8	4	78	2.77	4	<2	16	<0.5	<3	<3	48	0.04	0.130	7	21
L150N 375W	Soil	33	1528	<3	37	0.3	18	6	157	4.57	7	<2	46	<0.5	<3	<3	79	0.08	0.065	11	57

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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

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Client: Martech Industries Inc.
829 - 510 West Hastings Street
Vancouver BC V6B 1L8 CANADA

Project: Whipsaw

Report Date: November 26, 2014

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CERTIFICATE OF ANALYSIS

VAN14003580.1

Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
Analyte	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	
Unit	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	
L250N 200W	Soil	0.37	42	0.104	<20	2.48	<0.01	0.04	<2	0.07	<1	<5	7	<5
L250N 175W	Soil	1.01	121	0.126	<20	2.67	<0.01	0.11	<2	0.05	<1	<5	<5	6
L250N 150W	Soil	1.10	198	0.179	<20	3.43	0.01	0.17	<2	0.21	<1	<5	<5	10
L250N 125W	Soil	1.25	155	0.152	<20	3.52	0.01	0.15	<2	0.12	<1	<5	6	9
L250N 100W	Soil	0.83	124	0.152	<20	3.06	0.01	0.11	<2	0.10	<1	<5	6	6
L250N 075W	Soil	0.88	99	0.156	<20	2.55	0.01	0.08	<2	0.05	<1	<5	<5	6
L250N 050W	Soil	1.25	149	0.173	<20	3.06	0.01	0.12	<2	0.10	<1	<5	<5	9
L250N 025W	Soil	1.01	112	0.112	<20	2.64	<0.01	0.06	<2	<0.05	<1	<5	<5	<5
L250N 000W	Soil	0.64	75	0.136	<20	2.62	0.01	0.05	<2	<0.05	<1	<5	<5	<5
L200N 500W	Soil	0.71	158	0.120	<20	2.92	0.01	0.10	<2	0.13	<1	<5	8	<5
L200N 475W	Soil	0.70	111	0.139	<20	2.71	<0.01	0.07	<2	0.06	<1	<5	<5	<5
L200N 450W	Soil	0.65	159	0.096	<20	1.93	0.01	0.12	<2	0.12	<1	<5	5	<5
L200N 425W	Soil	0.38	79	0.116	<20	1.43	0.01	0.06	<2	0.06	<1	<5	9	<5
L200N 400W	Soil	0.15	30	0.078	<20	1.11	0.01	0.04	<2	<0.05	<1	<5	6	<5
L200N 375W	Soil	1.13	288	0.151	<20	2.67	<0.01	0.24	<2	0.28	<1	<5	10	6
L200N 350W	Soil	0.19	51	0.080	<20	0.84	0.02	0.05	<2	0.06	<1	<5	<5	<5
L200N 325W	Soil	0.68	192	0.099	<20	1.46	0.02	0.33	<2	0.23	<1	<5	8	<5
L200N 175W	Soil	1.03	185	0.223	<20	1.29	0.02	0.50	<2	0.06	<1	<5	16	11
L200N 125W	Soil	1.03	124	0.209	<20	3.07	<0.01	0.17	<2	0.09	<1	<5	11	11
L200N 100W	Soil	0.50	68	0.161	<20	2.50	<0.01	0.05	<2	<0.05	<1	<5	11	<5
L200N 075W	Soil	1.02	103	0.161	<20	2.92	<0.01	0.11	<2	0.08	<1	<5	11	8
L200N 050W	Soil	1.32	139	0.180	<20	3.54	0.01	0.14	<2	0.12	<1	<5	13	11
L200N 025W	Soil	1.44	146	0.168	<20	3.58	0.01	0.18	<2	0.10	<1	<5	11	10
L200N 000W	Soil	1.52	97	0.178	<20	3.60	<0.01	0.10	3	0.05	<1	<5	12	11
L150N 500W	Soil	0.77	178	0.148	<20	2.20	0.02	0.13	<2	0.15	<1	<5	9	7
L150N 475W	Soil	0.89	162	0.112	<20	2.35	0.01	0.17	<2	0.14	<1	<5	6	7
L150N 450W	Soil	0.58	185	0.097	<20	2.33	0.01	0.11	<2	0.17	<1	<5	9	<5
L150N 425W	Soil	0.37	74	0.103	<20	1.76	0.01	0.06	<2	0.06	<1	<5	8	<5
L150N 400W	Soil	0.38	105	0.098	<20	2.19	<0.01	0.09	<2	0.08	<1	<5	8	<5
L150N 375W	Soil	0.92	180	0.102	<20	2.61	0.01	0.23	<2	0.17	<1	<5	7	5

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9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

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Client: Martech Industries Inc.
829 - 510 West Hastings Street
Vancouver BC V6B 1L8 CANADA

Project: Whipsaw
Report Date: November 26, 2014

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CERTIFICATE OF ANALYSIS

VAN14003580.1

Method Analyte	Unit	AQ300																			
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr
MDL	MDL	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm
L150N 350W	Soil	18	378	3	31	<0.3	15	5	130	2.66	3	<2	26	<0.5	<3	<3	71	0.07	0.025	5	41
L150N 325W	Soil	137	644	4	28	<0.3	5	3	62	7.23	19	<2	13	<0.5	<3	<3	90	0.06	0.067	8	18
L150N 300W	Soil	101	1058	8	28	0.5	15	6	116	7.70	54	<2	87	<0.5	<3	<3	118	0.05	0.175	28	43
L150N 275W	Soil	71	860	<3	23	0.4	8	4	70	5.32	10	2	50	<0.5	<3	<3	87	0.04	0.107	18	35
L150N 250W	Soil	32	903	7	35	0.4	17	7	130	4.62	18	<2	51	<0.5	<3	<3	86	0.08	0.096	19	49
L150N 225W	Soil	25	925	5	50	0.4	21	10	157	4.78	6	<2	25	<0.5	<3	<3	102	0.08	0.109	11	59
L150N 200W	Soil	12	914	<3	37	0.5	17	8	139	3.20	4	<2	21	<0.5	<3	<3	72	0.09	0.073	9	43
L150N 175W	Soil	14	651	<3	32	0.6	10	4	88	3.23	3	<2	13	<0.5	<3	<3	75	0.06	0.067	7	34
L150N 150W	Soil	19	415	<3	59	0.6	33	14	210	4.40	7	<2	24	<0.5	<3	<3	111	0.10	0.073	6	81
L150N 125W	Soil	9	232	<3	18	<0.3	6	3	65	2.43	<2	<2	7	<0.5	<3	<3	61	0.04	0.032	3	22
L150N 100W	Soil	14	315	<3	33	0.5	18	7	119	3.82	4	<2	16	<0.5	<3	<3	91	0.08	0.063	4	54
L150N 075W	Soil	8	551	<3	18	1.3	5	3	52	2.40	3	<2	11	<0.5	<3	<3	51	0.04	0.044	5	15
L150N 050W	Soil	20	275	<3	45	1.2	19	8	155	4.10	<2	<2	45	<0.5	<3	<3	118	0.11	0.082	4	48
L150N 025W	Soil	17	119	<3	49	0.4	16	7	145	3.91	3	<2	37	<0.5	<3	<3	117	0.13	0.063	3	42
L150N 000W	Soil	22	193	<3	57	<0.3	16	8	180	4.38	3	<2	31	<0.5	<3	<3	130	0.18	0.064	3	42
L100N 500W	Soil	19	408	4	37	0.4	15	6	124	3.68	5	<2	25	<0.5	<3	<3	83	0.07	0.093	5	45
L100N 475W	Soil	12	704	3	26	0.5	12	5	93	2.83	4	<2	12	<0.5	<3	<3	56	0.06	0.085	5	32
L100N 450W	Soil	12	285	<3	26	0.8	10	4	80	2.72	4	<2	10	<0.5	<3	<3	61	0.05	0.086	4	29
L100N 425W	Soil	17	154	8	34	0.4	14	5	118	3.42	4	<2	27	<0.5	<3	<3	75	0.06	0.081	6	39
L100N 400W	Soil	13	115	8	31	0.4	13	5	109	3.12	5	<2	21	<0.5	<3	<3	68	0.07	0.083	6	33
L100N 375W	Soil	12	97	8	31	<0.3	9	4	92	2.89	5	<2	12	<0.5	<3	<3	67	0.06	0.085	4	25
L100N 350W	Soil	25	124	<3	32	0.4	12	4	99	3.21	4	<2	32	<0.5	<3	<3	72	0.07	0.079	8	30
L100N 325W	Soil	42	165	7	25	0.7	7	3	75	3.45	13	<2	22	<0.5	<3	<3	74	0.05	0.108	6	18
L100N 300W	Soil	25	105	6	26	0.3	8	3	78	3.02	7	<2	12	<0.5	<3	<3	63	0.05	0.085	6	23
L100N 275W	Soil	26	85	<3	19	0.4	5	2	58	2.59	3	<2	7	<0.5	<3	<3	58	0.04	0.047	3	14
L100N 250W	Soil	25	539	6	32	0.9	11	4	97	3.73	5	<2	22	<0.5	<3	<3	90	0.06	0.061	7	33
L100N 225W	Soil	23	1044	6	46	0.9	18	7	143	4.20	4	<2	37	<0.5	<3	<3	95	0.12	0.101	13	52
L100N 200W	Soil	15	1015	3	31	1.1	12	5	110	2.92	3	<2	20	<0.5	<3	<3	66	0.09	0.061	13	34
L100N 175W	Soil	8	817	6	21	1.1	7	4	70	2.33	3	<2	9	<0.5	<3	<3	42	0.06	0.093	9	23
L100N 150W	Soil	11	800	5	26	0.7	9	4	84	2.93	3	<2	15	<0.5	<3	<3	55	0.07	0.051	10	25

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829 - 510 West Hastings Street
Vancouver BC V6B 1L8 CANADA

Project: Whipsaw

Report Date: November 26, 2014

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CERTIFICATE OF ANALYSIS

VAN14003580.1

Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
Analyte	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	
Unit	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	
L150N 350W	Soil	0.76	85	0.123	<20	1.30	0.02	0.11	<2	0.09	<1	<5	8	<5
L150N 325W	Soil	0.40	83	0.157	<20	1.88	0.01	0.14	2	0.10	<1	<5	11	<5
L150N 300W	Soil	0.80	381	0.122	<20	2.78	0.02	0.32	<2	0.52	<1	<5	12	11
L150N 275W	Soil	0.45	176	0.117	<20	2.40	0.02	0.18	<2	0.30	<1	<5	12	<5
L150N 250W	Soil	0.83	180	0.136	<20	2.22	0.01	0.18	<2	0.20	<1	<5	9	5
L150N 225W	Soil	0.94	96	0.140	<20	2.70	<0.01	0.09	<2	0.09	<1	<5	10	5
L150N 200W	Soil	0.69	76	0.097	<20	2.14	0.01	0.07	<2	0.06	<1	<5	7	<5
L150N 175W	Soil	0.42	50	0.113	<20	2.71	<0.01	0.04	<2	0.06	<1	<5	8	<5
L150N 150W	Soil	1.23	133	0.141	<20	3.32	<0.01	0.11	<2	0.06	<1	<5	8	8
L150N 125W	Soil	0.24	27	0.102	<20	1.46	0.01	0.03	<2	<0.05	<1	<5	7	<5
L150N 100W	Soil	0.68	75	0.121	<20	3.33	<0.01	0.07	<2	0.05	<1	<5	8	5
L150N 075W	Soil	0.22	24	0.100	<20	1.85	0.01	0.03	<2	0.06	<1	<5	7	6
L150N 050W	Soil	0.96	102	0.139	<20	2.96	<0.01	0.16	<2	0.13	<1	<5	8	7
L150N 025W	Soil	0.95	87	0.135	<20	2.73	0.01	0.07	<2	0.05	<1	<5	9	7
L150N 000W	Soil	0.99	103	0.151	<20	3.06	0.01	0.12	<2	0.06	<1	<5	10	8
L100N 500W	Soil	0.70	120	0.132	<20	2.58	<0.01	0.09	<2	0.09	<1	<5	9	<5
L100N 475W	Soil	0.45	53	0.096	<20	2.81	<0.01	0.05	<2	0.06	<1	<5	9	<5
L100N 450W	Soil	0.40	66	0.108	<20	2.16	<0.01	0.05	<2	<0.05	<1	<5	9	<5
L100N 425W	Soil	0.67	146	0.130	<20	2.69	0.01	0.10	<2	0.10	<1	<5	<5	<5
L100N 400W	Soil	0.58	156	0.122	<20	2.50	0.01	0.11	<2	0.09	<1	<5	<5	<5
L100N 375W	Soil	0.39	91	0.122	<20	2.13	0.01	0.05	<2	<0.05	<1	<5	<5	<5
L100N 350W	Soil	0.62	170	0.123	<20	2.58	0.01	0.16	<2	0.14	<1	<5	<5	<5
L100N 325W	Soil	0.42	166	0.114	<20	2.48	0.02	0.11	<2	0.14	<1	<5	<5	<5
L100N 300W	Soil	0.43	85	0.118	<20	2.60	0.01	0.05	<2	<0.05	<1	<5	<5	<5
L100N 275W	Soil	0.24	53	0.116	<20	1.82	0.01	0.04	<2	<0.05	<1	<5	<5	<5
L100N 250W	Soil	0.57	110	0.132	<20	2.36	0.01	0.10	<2	0.09	<1	<5	<5	6
L100N 225W	Soil	0.88	171	0.124	<20	2.16	0.01	0.11	<2	0.13	<1	<5	<5	6
L100N 200W	Soil	0.60	94	0.096	<20	1.70	0.01	0.07	<2	0.07	<1	<5	<5	<5
L100N 175W	Soil	0.28	34	0.100	<20	2.82	0.01	0.03	<2	0.05	<1	<5	<5	5
L100N 150W	Soil	0.38	56	0.106	<20	1.54	0.01	0.05	<2	0.08	<1	<5	<5	<5

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Project: Whipsaw

Report Date: November 26, 2014

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CERTIFICATE OF ANALYSIS

VAN14003580.1

Method Analyte Unit MDL	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	
	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001	1	1	
L100N 125W	Soil	16	946	6	50	0.7	19	8	151	3.73	5	<2	18	<0.5	<3	<3	86	0.08	0.106	7	51
L100N 100W	Soil	10	1177	<3	33	1.4	14	6	99	2.89	4	<2	12	<0.5	<3	<3	66	0.07	0.139	6	40
L100N 075W	Soil	15	838	<3	39	1.0	17	6	137	3.38	3	<2	18	<0.5	<3	<3	84	0.08	0.088	6	47
L100N 050W	Soil	15	1086	<3	62	1.0	21	7	151	4.38	4	<2	44	<0.5	<3	<3	116	0.08	0.135	7	65
L100N 025W	Soil	9	1088	5	26	1.2	9	4	72	2.55	3	<2	14	<0.5	<3	<3	55	0.08	0.136	7	25
L100N 000W	Soil	27	682	4	42	1.0	18	6	171	4.50	4	<2	25	<0.5	<3	<3	97	0.12	0.081	4	48
L050N 500W	Soil	22	83	4	29	0.3	8	3	94	3.33	5	<2	13	<0.5	<3	<3	71	0.05	0.089	4	21
L050N 475W	Soil	44	149	<3	36	0.4	10	3	131	3.92	6	<2	27	<0.5	<3	<3	81	0.08	0.112	5	24
L050N 450W	Soil	8	113	5	41	0.5	11	5	154	2.86	4	<2	9	<0.5	<3	<3	64	0.05	0.089	4	27
L050N 425W	Soil	7	55	4	21	0.3	5	2	58	2.29	3	<2	8	<0.5	<3	<3	52	0.04	0.075	3	15
L050N 400W	Soil	20	95	4	28	0.5	8	3	88	2.68	3	<2	17	<0.5	<3	<3	64	0.08	0.069	4	20
L050N 375W	Soil	26	155	5	28	0.7	8	3	76	2.79	7	<2	13	<0.5	<3	<3	58	0.05	0.069	7	17
L050N 350W	Soil	20	103	3	32	0.4	12	4	100	3.22	11	<2	30	<0.5	<3	<3	66	0.06	0.091	9	31
L050N 325W	Soil	23	32	3	23	<0.3	6	2	64	2.49	2	<2	13	<0.5	<3	<3	54	0.04	0.068	4	17
L050N 300W	Soil	13	21	5	15	<0.3	3	1	41	1.77	<2	<2	6	<0.5	<3	<3	40	0.03	0.051	2	8
L050N 275W	Soil	33	162	7	32	0.3	11	4	97	3.13	14	<2	11	<0.5	<3	<3	72	0.06	0.074	4	31
L050N 250W	Soil	33	151	4	37	<0.3	10	4	113	3.95	4	<2	25	<0.5	<3	<3	100	0.05	0.073	7	26
L050N 225W	Soil	29	132	3	27	0.7	9	3	82	3.89	4	<2	15	<0.5	<3	<3	84	0.04	0.068	4	24
L050N 200W	Soil	23	184	3	19	0.4	5	2	60	2.76	2	<2	17	<0.5	<3	<3	64	0.03	0.049	4	12
L050N 175W	Soil	21	588	<3	28	0.8	7	3	76	3.38	2	<2	22	<0.5	<3	<3	81	0.04	0.086	5	20
L050N 150W	Soil	41	649	4	75	0.8	16	3	243	5.80	5	<2	75	<0.5	<3	<3	178	0.07	0.061	6	58
L050N 125W	Soil	18	234	3	41	0.3	20	7	142	3.74	5	<2	26	<0.5	<3	<3	94	0.08	0.059	4	57
L050N 100W	Soil	24	308	6	45	0.5	18	7	156	4.04	4	<2	37	<0.5	<3	<3	102	0.09	0.078	5	48
L050N 075W	Soil	12	778	<3	35	0.9	14	5	104	3.35	4	<2	21	<0.5	<3	<3	81	0.06	0.122	4	40
L050N 050W	Soil	17	362	6	45	0.5	17	5	136	3.86	4	<2	23	<0.5	<3	<3	103	0.07	0.081	4	51
L050N 025W	Soil	14	161	6	33	0.5	14	5	103	3.48	3	<2	17	<0.5	<3	<3	92	0.06	0.072	3	38
L050N 000W	Soil	22	822	5	38	0.9	10	3	109	3.80	3	<2	43	<0.5	<3	<3	100	0.06	0.090	7	34
L000N 525W	Soil	14	186	6	44	0.6	17	5	139	3.50	5	<2	24	<0.5	<3	<3	96	0.06	0.061	4	49
L000N 500W	Soil	8	46	10	20	0.6	3	<1	57	2.40	3	<2	10	<0.5	<3	<3	50	0.03	0.094	3	7
L000N 475W	Soil	23	132	9	34	0.3	11	2	104	3.32	5	<2	14	<0.5	<3	<3	81	0.06	0.115	3	29

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PHONE (604) 253-3158

Client: Martech Industries Inc.
829 - 510 West Hastings Street
Vancouver BC V6B 1L8 CANADA

Project: Whipsaw

Report Date: November 26, 2014

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Part: 2 of 2

CERTIFICATE OF ANALYSIS

VAN14003580.1

Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
Analyte	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	
Unit	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	
L100N 125W	Soil	0.84	79	0.124	<20	2.98	<0.01	0.08	<2	0.08	<1	<5	<5	8
L100N 100W	Soil	0.60	47	0.104	<20	2.85	0.01	0.06	<2	<0.05	<1	<5	<5	5
L100N 075W	Soil	0.83	86	0.112	<20	2.47	<0.01	0.08	<2	0.07	<1	<5	<5	6
L100N 050W	Soil	1.22	140	0.172	<20	4.20	0.02	0.24	<2	0.28	<1	<5	<5	12
L100N 025W	Soil	0.46	45	0.092	<20	2.97	0.01	0.05	<2	0.07	<1	<5	<5	5
L100N 000W	Soil	0.98	94	0.090	<20	2.49	0.01	0.21	<2	0.13	<1	<5	<5	6
L050N 500W	Soil	0.43	128	0.137	<20	2.33	0.01	0.08	<2	0.07	<1	<5	<5	<5
L050N 475W	Soil	0.75	286	0.151	<20	2.71	0.01	0.26	<2	0.21	<1	<5	<5	6
L050N 450W	Soil	0.40	89	0.124	<20	3.07	0.01	0.04	<2	<0.05	<1	<5	<5	<5
L050N 425W	Soil	0.24	61	0.118	<20	2.22	0.01	0.03	<2	<0.05	<1	<5	<5	<5
L050N 400W	Soil	0.45	117	0.119	<20	1.96	0.01	0.07	<2	0.07	<1	<5	<5	<5
L050N 375W	Soil	0.46	102	0.094	<20	2.50	<0.01	0.07	<2	<0.05	<1	<5	5	<5
L050N 350W	Soil	0.53	175	0.116	<20	2.29	0.01	0.12	<2	0.13	<1	<5	<5	<5
L050N 325W	Soil	0.29	73	0.107	<20	2.17	0.01	0.04	<2	0.06	<1	<5	<5	<5
L050N 300W	Soil	0.11	41	0.098	<20	1.31	0.01	0.02	<2	<0.05	<1	<5	<5	<5
L050N 275W	Soil	0.48	73	0.115	<20	2.22	<0.01	0.04	<2	<0.05	<1	<5	<5	<5
L050N 250W	Soil	0.75	179	0.155	<20	2.23	<0.01	0.20	<2	0.14	<1	<5	<5	7
L050N 225W	Soil	0.51	104	0.141	<20	2.33	0.01	0.09	<2	0.08	<1	<5	<5	5
L050N 200W	Soil	0.31	92	0.122	<20	1.31	0.02	0.09	<2	0.11	<1	<5	<5	<5
L050N 175W	Soil	0.49	106	0.144	<20	2.16	0.01	0.11	<2	0.12	<1	<5	<5	5
L050N 150W	Soil	2.18	230	0.265	<20	3.49	0.05	0.98	<2	0.67	<1	<5	<5	23
L050N 125W	Soil	0.85	111	0.127	<20	2.58	<0.01	0.13	<2	0.07	<1	<5	<5	6
L050N 100W	Soil	0.89	135	0.132	<20	2.72	0.01	0.12	<2	0.11	<1	<5	<5	7
L050N 075W	Soil	0.62	66	0.116	<20	2.96	<0.01	0.09	<2	0.08	<1	<5	<5	<5
L050N 050W	Soil	0.91	94	0.144	<20	2.68	<0.01	0.15	<2	0.12	<1	<5	11	7
L050N 025W	Soil	0.64	85	0.132	<20	2.76	0.01	0.06	<2	<0.05	<1	<5	9	5
L050N 000W	Soil	0.84	148	0.149	<20	2.95	0.02	0.22	<2	0.27	<1	<5	10	7
L000N 525W	Soil	0.91	133	0.125	<20	2.88	<0.01	0.09	<2	0.07	<1	<5	10	7
L000N 500W	Soil	0.22	73	0.119	<20	2.14	0.01	0.04	<2	<0.05	<1	<5	9	<5
L000N 475W	Soil	0.61	126	0.144	<20	1.55	0.01	0.08	<2	0.08	<1	<5	10	<5

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Project: Whipsaw

Report Date: November 26, 2014

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CERTIFICATE OF ANALYSIS

VAN14003580.1

Method Analyte	Unit	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	
		1	1	3	1	0.3	1	1	2	0.01	2	2	0.5	3	3	1	0.01	0.001	1	1	
L000N 450W	Soil	15	231	7	26	0.9	8	2	74	2.73	3	<2	9	<0.5	<3	<3	61	0.04	0.092	4	24
L000N 425W	Soil	14	70	6	22	0.6	4	<1	64	2.63	2	<2	12	<0.5	<3	<3	52	0.05	0.116	5	9
L000N 400W	Soil	11	45	7	21	0.6	5	1	62	2.54	4	<2	10	<0.5	<3	<3	55	0.03	0.075	4	13
L000N 375W	Soil	21	46	<3	18	0.7	4	1	46	2.41	16	<2	13	<0.5	<3	<3	46	0.03	0.066	6	10
L000N 350W	Soil	33	64	8	25	0.4	4	1	65	2.53	6	<2	20	<0.5	<3	<3	55	0.04	0.097	5	10
L000N 325W	Soil	42	87	7	27	0.7	9	2	81	3.28	3	<2	16	<0.5	<3	<3	70	0.05	0.070	4	25
L000N 300W	Soil	30	168	<3	39	0.4	14	5	129	3.73	6	<2	34	<0.5	<3	<3	88	0.09	0.083	8	36
L000N 275W	Soil	17	167	13	45	0.5	13	3	143	4.59	4	<2	26	<0.5	<3	<3	131	0.06	0.073	5	36
L000N 250W	Soil	20	137	6	35	1.0	10	3	104	3.96	4	<2	20	<0.5	<3	<3	98	0.06	0.080	4	29
L000N 225W	Soil	41	739	4	68	1.0	12	1	231	8.70	4	<2	53	<0.5	<3	<3	258	0.04	0.057	6	40
L050S 525W	Soil	10	82	3	25	0.6	7	2	83	2.66	3	<2	9	<0.5	<3	<3	60	0.05	0.088	3	19
L050S 500W	Soil	16	217	<3	45	0.7	18	6	151	3.70	5	<2	21	<0.5	<3	<3	91	0.07	0.087	5	48
L050S 475W	Soil	16	160	<3	41	0.6	16	5	149	3.47	4	<2	25	<0.5	<3	<3	84	0.07	0.076	5	42
L050S 450W	Soil	18	116	<3	35	0.4	11	3	121	3.29	6	<2	28	<0.5	<3	<3	71	0.06	0.083	6	28
L050S 425W	Soil	13	264	4	38	0.4	11	3	121	3.38	6	<2	9	<0.5	<3	<3	81	0.06	0.127	4	32
L050S 400W	Soil	13	134	6	32	0.7	8	2	86	2.81	4	<2	9	<0.5	<3	<3	67	0.05	0.096	5	25
L050S 375W	Soil	16	82	5	32	0.4	9	3	96	2.73	5	<2	12	<0.5	<3	<3	66	0.08	0.082	3	24
L050S 350W	Soil	24	55	8	22	0.9	6	1	93	2.46	7	<2	14	<0.5	<3	<3	50	0.05	0.066	4	14
L050S 325W	Soil	20	132	<3	31	0.5	11	3	107	3.33	6	<2	20	<0.5	<3	<3	73	0.05	0.085	5	28
L050S 300W	Soil	16	698	6	27	1.5	8	2	104	2.67	5	<2	12	<0.5	<3	<3	56	0.06	0.103	6	20
L050S 275W	Soil	30	1256	9	36	0.6	9	2	112	3.58	4	<2	31	<0.5	<3	<3	91	0.07	0.053	17	25
L050S 250W	Soil	28	985	<3	38	0.6	10	3	102	3.82	3	<2	23	<0.5	<3	<3	99	0.06	0.070	8	31
L050S 225W	Soil	26	559	<3	35	0.7	9	3	95	3.39	3	<2	21	<0.5	<3	<3	89	0.06	0.060	5	26
L100S 525W	Soil	13	118	13	35	0.5	12	4	108	2.75	4	<2	10	<0.5	<3	<3	63	0.06	0.101	4	29
L100S 500W	Soil	12	75	8	24	0.7	7	2	80	2.73	5	<2	12	<0.5	<3	<3	59	0.05	0.103	4	20
L100S 475W	Soil	22	204	3	46	0.5	18	6	177	3.57	10	<2	37	<0.5	<3	<3	91	0.17	0.103	5	47
L100S 450W	Soil	15	127	5	36	0.5	10	3	108	3.26	6	<2	12	<0.5	<3	<3	79	0.06	0.077	4	28
L100S 425W	Soil	22	180	8	31	0.5	8	2	86	2.93	14	<2	10	<0.5	<3	<3	67	0.06	0.086	5	22
L100S 400W	Soil	25	210	4	42	0.4	15	4	128	3.77	6	<2	26	<0.5	<3	<3	97	0.07	0.074	5	41
L100S 375W	Soil	18	117	7	32	0.8	10	3	94	2.87	5	<2	12	<0.5	<3	<3	72	0.06	0.078	3	27

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Project: Whipsaw

Report Date: November 26, 2014

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Part: 2 of 2

CERTIFICATE OF ANALYSIS

VAN14003580.1

Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
Analyte	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	
Unit	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	
L000N 450W	Soil	0.41	94	0.116	<20	2.24	<0.01	0.06	<2	<0.05	<1	<5	9	<5
L000N 425W	Soil	0.31	118	0.122	<20	2.44	0.01	0.09	<2	0.05	<1	<5	10	<5
L000N 400W	Soil	0.27	83	0.123	<20	2.40	0.01	0.05	<2	<0.05	<1	<5	9	<5
L000N 375W	Soil	0.18	76	0.085	<20	2.36	0.01	0.04	<2	0.05	<1	<5	8	<5
L000N 350W	Soil	0.32	110	0.118	<20	2.57	0.01	0.07	<2	0.08	<1	<5	10	<5
L000N 325W	Soil	0.47	80	0.125	<20	2.79	0.01	0.05	<2	0.06	<1	<5	10	<5
L000N 300W	Soil	0.82	171	0.120	<20	2.61	0.01	0.13	<2	0.13	<1	<5	10	6
L000N 275W	Soil	1.00	198	0.175	<20	2.91	0.01	0.23	<2	0.16	<1	<5	12	10
L000N 250W	Soil	0.63	134	0.162	<20	2.48	0.01	0.11	<2	0.09	<1	<5	11	6
L000N 225W	Soil	2.22	304	0.298	<20	3.33	0.05	1.38	<2	1.09	<1	<5	11	29
L050S 525W	Soil	0.37	79	0.117	<20	2.22	0.01	0.04	<2	<0.05	<1	<5	8	<5
L050S 500W	Soil	0.93	152	0.131	<20	2.95	<0.01	0.10	<2	0.07	<1	<5	9	6
L050S 475W	Soil	0.81	166	0.125	<20	2.34	0.01	0.09	<2	0.09	<1	<5	9	5
L050S 450W	Soil	0.64	188	0.128	<20	2.52	0.01	0.11	<2	0.10	<1	<5	10	<5
L050S 425W	Soil	0.54	67	0.128	<20	2.83	0.01	0.04	<2	<0.05	<1	<5	8	5
L050S 400W	Soil	0.42	57	0.121	<20	3.15	0.01	0.03	<2	<0.05	<1	<5	10	<5
L050S 375W	Soil	0.44	104	0.120	<20	1.91	0.01	0.05	<2	<0.05	<1	<5	8	<5
L050S 350W	Soil	0.27	88	0.112	<20	2.43	0.01	0.04	<2	<0.05	<1	<5	8	<5
L050S 325W	Soil	0.56	124	0.123	<20	2.49	0.01	0.08	<2	0.08	<1	<5	9	<5
L050S 300W	Soil	0.33	71	0.102	<20	2.45	0.01	0.03	<2	<0.05	<1	<5	9	<5
L050S 275W	Soil	0.81	196	0.152	<20	2.14	0.02	0.24	<2	0.22	<1	<5	12	8
L050S 250W	Soil	0.66	116	0.150	<20	2.48	0.01	0.11	<2	0.10	<1	<5	10	6
L050S 225W	Soil	0.63	93	0.152	<20	2.51	0.01	0.10	<2	0.09	<1	<5	10	6
L100S 525W	Soil	0.52	70	0.111	<20	2.53	<0.01	0.04	<2	<0.05	<1	<5	9	<5
L100S 500W	Soil	0.33	79	0.110	<20	2.39	0.01	0.04	<2	<0.05	<1	<5	8	<5
L100S 475W	Soil	0.88	154	0.116	<20	2.36	0.01	0.11	<2	0.09	<1	<5	10	6
L100S 450W	Soil	0.54	95	0.130	<20	2.58	0.01	0.05	<2	<0.05	<1	<5	8	<5
L100S 425W	Soil	0.41	77	0.111	<20	2.59	<0.01	0.04	<2	<0.05	<1	<5	9	<5
L100S 400W	Soil	0.77	133	0.139	<20	2.82	0.01	0.09	<2	0.09	<1	<5	10	6
L100S 375W	Soil	0.50	74	0.113	<20	2.19	0.01	0.04	<2	<0.05	<1	<5	8	<5

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PHONE (604) 253-3158

Client: Martech Industries Inc.
829 - 510 West Hastings Street
Vancouver BC V6B 1L8 CANADA

Project: Whipsaw
Report Date: November 26, 2014

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CERTIFICATE OF ANALYSIS

VAN14003580.1

Method Analyte	Unit	MDL	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300		
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm			
			1	1	3	1	0.3	1	1	2	0.01	2	2	2	1	0.5	3	3	1	0.01	0.001	1	1
L100S 350W	Soil		22	211	4	26	1.0	6	2	65	2.53	7	<2	8	<0.5	<3	<3	53	0.04	0.124	4	18	
L100S 325W	Soil		18	250	<3	27	1.0	7	2	74	2.69	4	<2	10	<0.5	<3	<3	59	0.04	0.084	5	19	
L100S 300W	Soil		21	178	<3	37	0.4	13	4	108	3.64	6	<2	23	<0.5	<3	<3	84	0.05	0.072	7	38	
L100S 275W	Soil		40	1190	7	26	0.9	6	3	82	2.84	5	<2	17	<0.5	<3	<3	64	0.07	0.067	12	16	
L100S 250W	Soil		74	1787	<3	49	0.4	12	4	132	5.10	10	<2	29	<0.5	<3	<3	113	0.07	0.124	11	32	
L100S 225W	Soil		34	370	<3	46	1.2	9	3	123	4.49	4	<2	24	<0.5	<3	<3	135	0.06	0.071	5	25	
L150S 525W	Soil		16	206	<3	44	0.5	18	7	175	3.29	9	<2	23	<0.5	<3	<3	77	0.13	0.129	4	41	
L150S 500W	Soil		18	199	4	40	0.3	12	5	124	3.27	19	<2	20	<0.5	<3	<3	72	0.10	0.106	5	30	
L150S 475W	Soil		18	155	<3	34	<0.3	8	3	126	2.88	12	<2	13	<0.5	<3	<3	65	0.05	0.087	4	22	
L150S 450W	Soil		15	146	<3	34	0.4	8	3	95	2.92	6	<2	13	<0.5	<3	<3	64	0.05	0.096	5	23	
L150S 425W	Soil		25	208	<3	41	0.5	14	5	127	3.36	7	<2	17	<0.5	<3	<3	81	0.09	0.093	5	35	
L150S 400W	Soil		32	494	<3	34	0.8	8	3	91	3.33	11	<2	19	<0.5	<3	<3	72	0.06	0.103	8	24	
L150S 375W	Soil		14	291	<3	29	0.5	7	2	70	2.78	6	<2	9	<0.5	<3	<3	59	0.04	0.102	5	19	
L150S 350W	Soil		20	605	6	35	0.5	9	3	100	3.47	8	<2	20	<0.5	<3	<3	73	0.06	0.118	7	24	
L150S 325W	Soil		20	259	3	32	0.6	8	3	86	2.98	7	<2	11	<0.5	<3	<3	69	0.05	0.073	5	23	
L150S 300W	Soil		50	897	<3	34	0.6	11	4	92	3.55	16	<2	13	<0.5	<3	<3	81	0.04	0.093	8	29	
L150S 275W	Soil		57	920	3	30	1.0	7	2	82	4.03	6	<2	27	<0.5	<3	<3	91	0.04	0.103	9	23	
L150S 250W	Soil		50	175	4	35	0.8	8	3	94	4.58	4	<2	14	<0.5	<3	<3	83	0.04	0.088	3	18	
L150S 225W	Soil		54	194	<3	49	1.3	8	2	114	4.73	4	<2	20	<0.5	<3	<3	134	0.04	0.067	4	22	
L200S 525W	Soil		16	271	6	32	0.6	8	4	101	2.59	5	<2	17	<0.5	<3	<3	56	0.06	0.039	5	21	
L200S 500W	Soil		38	204	<3	42	0.6	8	3	113	3.75	13	<2	41	<0.5	<3	<3	70	0.05	0.115	10	16	
L200S 475W	Soil		29	263	6	48	0.5	16	6	135	3.37	8	<2	22	<0.5	<3	<3	80	0.07	0.091	5	39	
L200S 450W	Soil		19	152	4	37	0.4	11	4	118	3.12	6	<2	16	<0.5	<3	<3	74	0.06	0.079	4	28	
L200S 425W	Soil		23	224	4	41	0.4	17	6	138	3.85	7	<2	25	<0.5	<3	<3	90	0.06	0.107	5	44	
L200S 400W	Soil		22	214	7	42	0.5	14	4	127	3.78	7	<2	32	<0.5	<3	<3	94	0.10	0.089	5	41	
L200S 375W	Soil		29	131	<3	28	0.6	7	2	69	2.85	13	<2	14	<0.5	<3	<3	66	0.04	0.076	4	19	
L200S 350W	Soil		26	331	6	36	0.5	11	4	108	3.23	8	<2	15	<0.5	<3	<3	78	0.05	0.084	4	32	
L200S 325W	Soil		35	285	<3	39	0.6	13	5	121	3.42	11	<2	13	<0.5	<3	<3	82	0.06	0.086	5	30	
L200S 300W	Soil		28	721	<3	33	0.7	10	4	94	3.11	6	<2	10	<0.5	<3	<3	77	0.06	0.104	6	29	
L200S 275W	Soil		18	414	8	41	0.6	16	7	131	3.39	7	<2	13	<0.5	<3	<3	92	0.07	0.071	4	45	

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Project: Whipsaw

Report Date: November 26, 2014

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CERTIFICATE OF ANALYSIS

VAN14003580.1

Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	
Unit	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	
L100S 350W	Soil	0.35	54	0.096	<20	2.35	0.01	0.04	<2	<0.05	<1	<5	<5	
L100S 325W	Soil	0.33	57	0.106	<20	2.49	0.01	0.04	<2	<0.05	<1	<5	<5	
L100S 300W	Soil	0.66	120	0.122	<20	2.41	<0.01	0.09	<2	0.09	<1	<5	5	
L100S 275W	Soil	0.41	118	0.112	<20	1.35	0.01	0.07	<2	0.09	<1	<5	<5	
L100S 250W	Soil	1.02	199	0.155	<20	2.98	0.01	0.22	<2	0.19	<1	<5	10	
L100S 225W	Soil	1.05	133	0.209	<20	3.21	0.01	0.19	<2	0.11	<1	<5	11	
L150S 525W	Soil	0.78	105	0.092	<20	2.21	<0.01	0.08	<2	0.06	<1	<5	<5	
L150S 500W	Soil	0.58	106	0.089	<20	2.17	<0.01	0.07	<2	0.05	<1	<5	<5	
L150S 475W	Soil	0.38	91	0.098	<20	1.85	<0.01	0.04	<2	<0.05	<1	<5	<5	
L150S 450W	Soil	0.40	88	0.108	<20	2.24	<0.01	0.05	<2	<0.05	<1	<5	<5	
L150S 425W	Soil	0.69	103	0.118	<20	2.37	<0.01	0.06	<2	<0.05	<1	<5	<5	
L150S 400W	Soil	0.53	134	0.112	<20	2.40	0.01	0.09	<2	0.11	<1	<5	<5	
L150S 375W	Soil	0.33	64	0.108	<20	2.50	<0.01	0.05	<2	<0.05	<1	<5	<5	
L150S 350W	Soil	0.50	140	0.115	<20	2.46	0.01	0.09	<2	0.10	<1	<5	<5	
L150S 325W	Soil	0.39	75	0.106	<20	2.30	<0.01	0.04	<2	<0.05	<1	<5	<5	
L150S 300W	Soil	0.59	89	0.108	<20	2.39	<0.01	0.11	<2	0.07	<1	<5	5	
L150S 275W	Soil	0.57	148	0.137	<20	2.16	0.01	0.12	<2	0.17	<1	<5	6	
L150S 250W	Soil	0.54	86	0.158	<20	2.18	0.01	0.10	<2	0.06	<1	<5	<5	
L150S 225W	Soil	0.91	126	0.205	<20	3.19	0.01	0.16	<2	0.11	<1	<5	10	
L200S 525W	Soil	0.48	66	0.108	<20	1.46	0.01	0.06	<2	0.06	<1	<5	<5	
L200S 500W	Soil	0.54	244	0.102	<20	2.42	0.02	0.18	<2	0.25	<1	<5	6	
L200S 475W	Soil	0.75	123	0.100	<20	2.25	<0.01	0.08	<2	0.07	<1	<5	<5	
L200S 450W	Soil	0.52	111	0.111	<20	1.93	<0.01	0.06	<2	0.06	<1	<5	<5	
L200S 425W	Soil	0.82	140	0.118	<20	2.48	0.01	0.10	<2	0.11	<1	<5	5	
L200S 400W	Soil	0.80	149	0.127	<20	2.65	<0.01	0.12	<2	0.12	<1	<5	6	
L200S 375W	Soil	0.34	75	0.098	<20	2.12	<0.01	0.04	<2	<0.05	<1	<5	<5	
L200S 350W	Soil	0.54	92	0.107	<20	2.20	<0.01	0.06	<2	0.06	<1	<5	<5	
L200S 325W	Soil	0.71	101	0.108	<20	2.63	<0.01	0.06	<2	<0.05	<1	<5	5	
L200S 300W	Soil	0.55	65	0.116	<20	2.53	<0.01	0.06	<2	<0.05	<1	<5	<5	
L200S 275W	Soil	0.72	73	0.124	<20	2.31	<0.01	0.07	<2	<0.05	<1	<5	5	

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829 - 510 West Hastings Street
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Project: Whipsaw

Report Date: November 26, 2014

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CERTIFICATE OF ANALYSIS

VAN14003580.1

Method	Analyte	AQ300																			
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm
MDL		1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001	1	1
L200S 250W	Soil	38	1774	7	34	1.9	13	5	109	2.83	6	<2	20	<0.5	<3	<3	68	0.11	0.107	16	33
L200S 225W	Soil	34	304	4	46	0.8	7	3	102	3.78	4	<2	17	<0.5	<3	<3	90	0.05	0.071	3	18
L250S 525W	Soil	23	157	4	36	0.4	9	4	107	3.31	11	<2	13	<0.5	<3	<3	68	0.06	0.107	7	22
L250S 500W	Soil	29	209	5	37	0.3	10	4	103	3.15	9	<2	22	<0.5	<3	<3	72	0.06	0.080	6	27
L250S 475W	Soil	35	134	7	33	0.4	7	3	88	3.13	12	<2	23	<0.5	<3	<3	65	0.05	0.096	7	19
L250S 450W	Soil	30	88	7	29	<0.3	6	2	79	3.14	4	<2	21	<0.5	<3	<3	64	0.05	0.090	4	15
L250S 425W	Soil	34	92	<3	23	<0.3	3	1	66	3.11	4	<2	11	<0.5	<3	<3	62	0.05	0.101	3	9
L250S 400W	Soil	17	88	8	29	<0.3	6	2	104	3.19	4	<2	17	<0.5	<3	<3	65	0.06	0.094	4	15
L250S 375W	Soil	20	191	6	32	0.5	8	3	100	3.22	5	<2	16	<0.5	<3	<3	75	0.05	0.080	5	24
L250S 350W	Soil	19	321	6	26	0.8	5	2	72	2.73	4	<2	12	<0.5	<3	<3	59	0.06	0.065	4	16
L250S 325W	Soil	16	245	6	21	0.5	5	2	61	2.41	4	<2	11	<0.5	<3	<3	51	0.05	0.093	5	14
L250S 300W	Soil	34	423	6	49	0.6	13	8	127	3.22	8	<2	10	<0.5	<3	<3	76	0.06	0.075	4	31
L250S 275W	Soil	27	288	5	44	0.5	12	6	116	3.35	7	<2	10	<0.5	<3	<3	81	0.05	0.073	4	29
L250S 250W	Soil	16	189	8	34	0.5	12	5	145	2.93	5	<2	15	<0.5	<3	<3	78	0.12	0.061	3	30
L250S 225W	Soil	14	179	6	36	0.6	10	5	96	2.98	4	<2	9	<0.5	<3	<3	77	0.05	0.070	4	26



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Project: Whipsaw
Report Date: November 26, 2014

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CERTIFICATE OF ANALYSIS

VAN14003580.1

Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
Unit	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
MDL	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
L200S 250W	Soil	0.72	90	0.091	<20	2.16	<0.01	0.08	<2	0.09	<1	<5	<5
L200S 225W	Soil	0.59	102	0.159	<20	2.41	0.01	0.08	<2	0.05	<1	<5	5
L250S 525W	Soil	0.49	128	0.116	<20	2.31	<0.01	0.08	<2	0.05	<1	<5	<5
L250S 500W	Soil	0.53	104	0.096	<20	2.21	<0.01	0.06	<2	0.07	<1	<5	<5
L250S 475W	Soil	0.44	146	0.107	<20	2.16	0.01	0.11	<2	0.10	<1	<5	<5
L250S 450W	Soil	0.39	153	0.125	<20	2.10	0.01	0.10	<2	0.10	<1	<5	<5
L250S 425W	Soil	0.21	63	0.118	<20	1.23	0.01	0.04	<2	0.05	<1	<5	6
L250S 400W	Soil	0.37	104	0.119	<20	2.10	0.01	0.08	<2	0.08	<1	<5	<5
L250S 375W	Soil	0.46	94	0.120	<20	2.17	<0.01	0.07	<2	0.07	<1	<5	<5
L250S 350W	Soil	0.32	69	0.108	<20	1.42	0.01	0.05	<2	<0.05	<1	<5	<5
L250S 325W	Soil	0.25	56	0.119	<20	2.71	0.01	0.04	<2	<0.05	<1	<5	<5
L250S 300W	Soil	0.61	61	0.098	<20	2.72	<0.01	0.05	<2	<0.05	<1	<5	5
L250S 275W	Soil	0.57	63	0.119	<20	2.58	0.01	0.04	<2	<0.05	<1	<5	<5
L250S 250W	Soil	0.53	59	0.113	<20	2.10	<0.01	0.05	<2	<0.05	<1	<5	<5
L250S 225W	Soil	0.44	50	0.134	<20	2.73	0.01	0.05	<2	<0.05	<1	<5	<5



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Project: Whipsaw
 Report Date: November 26, 2014

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QUALITY CONTROL REPORT

VAN14003580.1

Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	
MDL	1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001	1	1	
Pulp Duplicates																					
L400N 000W	Soil	13	329	4	72	0.3	30	18	253	3.98	2	<2	15	<0.5	<3	<3	112	0.13	0.070	3	62
REP L400N 000W	QC	13	329	3	72	<0.3	31	18	250	3.95	4	<2	15	<0.5	<3	<3	112	0.13	0.071	3	61
L250N 475W	Soil	16	174	5	32	<0.3	16	6	132	3.22	3	<2	14	<0.5	<3	<3	70	0.06	0.069	7	42
REP L250N 475W	QC	15	175	<3	31	<0.3	16	6	129	3.19	3	<2	14	<0.5	<3	<3	67	0.06	0.069	7	42
L150N 325W	Soil	137	644	4	28	<0.3	5	3	62	7.23	19	<2	13	<0.5	<3	<3	90	0.06	0.067	8	18
REP L150N 325W	QC	135	637	3	28	<0.3	4	3	61	7.05	19	<2	13	<0.5	<3	<3	88	0.06	0.066	8	18
L050N 475W	Soil	44	149	<3	36	0.4	10	3	131	3.92	6	<2	27	<0.5	<3	<3	81	0.08	0.112	5	24
REP L050N 475W	QC	45	148	6	36	0.4	10	4	132	3.94	8	<2	28	<0.5	<3	<3	82	0.08	0.115	6	24
L050S 450W	Soil	18	116	<3	35	0.4	11	3	121	3.29	6	<2	28	<0.5	<3	<3	71	0.06	0.083	6	28
REP L050S 450W	QC	19	120	4	35	0.5	12	3	123	3.35	7	<2	29	<0.5	<3	<3	72	0.06	0.086	6	29
L200S 525W	Soil	16	271	6	32	0.6	8	4	101	2.59	5	<2	17	<0.5	<3	<3	56	0.06	0.039	5	21
REP L200S 525W	QC	16	303	5	33	0.7	9	4	107	2.74	5	<2	19	<0.5	<3	<3	57	0.06	0.042	5	22
L250S 225W	Soil	14	179	6	36	0.6	10	5	96	2.98	4	<2	9	<0.5	<3	<3	77	0.05	0.070	4	26
REP L250S 225W	QC	14	177	<3	36	0.6	10	5	98	2.97	4	<2	9	<0.5	<3	<3	77	0.06	0.067	4	26
Reference Materials																					
STD DS10	Standard	12	150	145	363	1.9	73	12	884	2.72	45	7	64	2.7	8	12	42	1.05	0.077	15	54
STD DS10	Standard	12	154	151	372	1.9	75	12	904	2.78	47	7	64	2.7	6	11	42	1.07	0.078	15	54
STD DS10	Standard	14	145	143	360	1.8	70	11	850	2.66	42	5	66	2.3	8	11	41	1.03	0.072	16	50
STD DS10	Standard	13	153	152	361	1.8	72	11	872	2.68	45	5	66	2.2	8	12	42	1.05	0.074	15	51
STD DS10	Standard	15	158	153	387	1.8	80	13	954	2.93	50	8	71	2.6	6	12	47	1.14	0.080	17	56
STD DS10	Standard	12	152	153	371	1.8	72	12	882	2.73	46	6	66	2.4	8	10	42	1.05	0.074	15	51
STD DS10	Standard	13	151	150	364	1.8	69	11	859	2.64	44	6	65	2.3	8	12	40	1.03	0.072	15	49
STD OREAS45EA	Standard	3	684	10	27	<0.3	382	54	403	23.57	9	10	4	0.6	<3	<3	302	0.03	0.030	7	837
STD OREAS45EA	Standard	3	681	12	27	<0.3	377	55	408	23.59	8	11	4	<0.5	<3	<3	303	0.03	0.031	7	838
STD OREAS45EA	Standard	2	656	14	30	<0.3	362	44	371	19.54	11	7	3	2.0	<3	<3	281	0.03	0.027	7	813
STD OREAS45EA	Standard	2	654	19	30	<0.3	377	45	375	19.79	11	7	3	0.9	<3	<3	285	0.03	0.027	6	827
STD OREAS45EA	Standard	4	746	10	28	<0.3	422	59	432	25.54	10	11	4	<0.5	<3	<3	320	0.03	0.032	7	885
STD OREAS45EA	Standard	2	666	19	30	<0.3	371	46	381	20.90	10	8	4	0.6	<3	<3	295	0.03	0.028	7	849

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
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Method	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
Analyte	Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc	
Unit	%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm	
MDL	0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5	
Pulp Duplicates														
L400N 000W	Soil	0.98	83	0.109	<20	3.03	<0.01	0.08	<2	<0.05	<1	<5	6	6
REP L400N 000W	QC	0.97	84	0.110	<20	3.10	<0.01	0.08	<2	<0.05	<1	<5	6	6
L250N 475W	Soil	0.63	78	0.105	<20	2.34	<0.01	0.06	<2	0.06	<1	<5	6	<5
REP L250N 475W	QC	0.62	77	0.104	<20	2.37	<0.01	0.06	<2	0.06	<1	<5	<5	<5
L150N 325W	Soil	0.40	83	0.157	<20	1.88	0.01	0.14	2	0.10	<1	<5	11	<5
REP L150N 325W	QC	0.40	82	0.157	<20	1.88	0.01	0.14	<2	0.10	<1	<5	11	<5
L050N 475W	Soil	0.75	286	0.151	<20	2.71	0.01	0.26	<2	0.21	<1	<5	<5	6
REP L050N 475W	QC	0.76	287	0.152	<20	2.75	0.01	0.26	<2	0.22	<1	<5	<5	6
L050S 450W	Soil	0.64	188	0.128	<20	2.52	0.01	0.11	<2	0.10	<1	<5	10	<5
REP L050S 450W	QC	0.66	193	0.129	<20	2.61	0.01	0.11	<2	0.11	<1	<5	10	<5
L200S 525W	Soil	0.48	66	0.108	<20	1.46	0.01	0.06	<2	0.06	<1	<5	<5	<5
REP L200S 525W	QC	0.52	72	0.113	<20	1.61	0.01	0.06	<2	0.06	<1	<5	<5	<5
L250S 225W	Soil	0.44	50	0.134	<20	2.73	0.01	0.05	<2	<0.05	<1	<5	<5	<5
REP L250S 225W	QC	0.44	49	0.136	<20	2.68	0.01	0.05	<2	<0.05	<1	<5	<5	<5
Reference Materials														
STD DS10	Standard	0.76	424	0.070	<20	0.99	0.06	0.34	<2	0.28	<1	<5	<5	<5
STD DS10	Standard	0.78	426	0.069	<20	1.00	0.06	0.34	3	0.29	<1	10	<5	<5
STD DS10	Standard	0.75	414	0.078	<20	1.01	0.06	0.32	4	0.28	<1	<5	<5	<5
STD DS10	Standard	0.77	425	0.076	<20	1.01	0.06	0.33	2	0.29	<1	5	7	<5
STD DS10	Standard	0.83	462	0.080	<20	1.11	0.07	0.36	3	0.30	<1	<5	6	<5
STD DS10	Standard	0.77	428	0.077	<20	1.01	0.06	0.33	2	0.29	<1	<5	<5	<5
STD DS10	Standard	0.75	416	0.076	<20	0.99	0.06	0.32	2	0.28	<1	<5	<5	<5
STD OREAS45EA	Standard	0.10	150	0.092	<20	3.06	0.01	0.05	<2	<0.05	<1	<5	<5	83
STD OREAS45EA	Standard	0.10	155	0.091	<20	3.04	0.02	0.05	<2	<0.05	<1	<5	<5	83
STD OREAS45EA	Standard	0.07	139	0.094	<20	3.01	0.02	0.05	<2	<0.05	<1	<5	11	79
STD OREAS45EA	Standard	0.07	142	0.094	<20	3.02	0.02	0.05	<2	<0.05	<1	<5	15	80
STD OREAS45EA	Standard	0.11	158	0.102	<20	3.43	0.02	0.06	<2	<0.05	<1	<5	<5	91
STD OREAS45EA	Standard	0.07	146	0.098	<20	2.98	0.02	0.05	<2	<0.05	<1	<5	6	80



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		AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm
		1	1	3	1	0.3	1	1	2	0.01	2	2	1	0.5	3	3	1	0.01	0.001	1	1
STD OREAS45EA	Standard	2	656	20	30	<0.3	361	44	373	20.07	11	8	3	1.7	<3	<3	285	0.03	0.027	7	821
STD DS10 Expected		14.69	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	43.7	7.5	67.1	2.49	8.23	11.65	43	1.0625	0.073	17.5	54.6
STD OREAS45EA Expected		1.39	709	14.3	28.9	0.26	381	52	400	23.51	9	10.7	3.5				303	0.036	0.029	6.57	849
BLK	Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1	<1
BLK	Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1	<1
BLK	Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1	<1
BLK	Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1	<1
BLK	Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1	<1
BLK	Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1	<1
BLK	Blank	<1	<1	<3	<1	<0.3	<1	<1	<2	<0.01	<2	<2	<1	<0.5	<3	<3	<1	<0.01	<0.001	<1	<1



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		AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300	AQ300
		Mg	Ba	Ti	B	Al	Na	K	W	S	Hg	Tl	Ga	Sc
		%	ppm	%	ppm	%	%	%	ppm	%	ppm	ppm	ppm	ppm
		0.01	1	0.001	20	0.01	0.01	0.01	2	0.05	1	5	5	5
STD OREAS45EA	Standard	0.07	142	0.097	<20	2.94	0.02	0.05	<2	<0.05	<1	<5	<5	78
STD DS10 Expected		0.775	359	0.0817		1.0259	0.067	0.338	3.32	0.29	0.3	5.1	4.3	2.8
STD OREAS45EA Expected		0.095	148	0.0875		3.13	0.02	0.053		0.036			11.7	78
BLK	Blank	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5
BLK	Blank	<0.01	<1	<0.001	<20	<0.01	<0.01	<0.01	<2	<0.05	<1	<5	<5	<5

Appendix 2

Soil Sample Locations

Zone 10 NAD 83

Sample	UTM_E_	UTM_N_		Sample	UTM_E_	UTM_N_
0800S+0200E	663276	5462044		0900S+0300W	662908	5461696
0800S+0225E	663298	5462057		0900S+0275W	662927	5461710
0800S+0250E	663319	5462069		0900S+0250W	662945	5461724
0800S+0275E	663340	5462082		0900S+0225W	662967	5461738
0800S+0300E	663361	5462095		0900S+0200W	662988	5461752
0800S+0325E	663381	5462110		0900S+0175W	663008	5461766
0800S+0350E	663400	5462124		0900S+0150W	663027	5461780
0800S+0375E	663424	5462137		0900S+0125W	663050	5461792
0800S+0400E	663447	5462149		0900S+0100W	663072	5461803
0800S+0425E	663468	5462162		0900S+0075W	663093	5461818
0800S+0450E	663489	5462174		0900S+0050W	663114	5461832
0800S+0475E	663511	5462188		0900S+0025W	663136	5461843
0800S+0500E	663532	5462201		0900S+0000W	663158	5461853
0850S+300W	662877	5461736		0900S+0025E	663180	5461868
0850S+0275W	662900	5461752		0900S+0050E	663201	5461882
0850S+0250W	662922	5461768		0900S+0075E	663222	5461896
0850S+0225W	662946	5461781		0900S+0100E	663243	5461909
0850S+0200W	662970	5461793		0900S+0125E	663264	5461920
0850S+0175W	662987	5461808		0900S+0150E	663284	5461930
0850S+0150W	663004	5461823		0900S+0175E	663306	5461945
0850S+0125W	663027	5461833		0950S+0300W	662931	5461655
0850S+0100W	663049	5461843		0950S+0275W	662954	5461667
0850S+0075W	663071	5461857		0950S+0250W	662977	5461678
0850S+0050W	663093	5461870		0950S+0225W	662995	5461692
0850S+0025W	663116	5461877		0950S+0200W	663013	5461706
0850S+0000E	663139	5461884		0950S+0175W	663036	5461720
0850S+0025E	663158	5461904		0950S+0150W	663058	5461733
0850S+0050E	663177	5461923		0950S+0125W	663081	5461748
0850S+0075E	663198	5461936		0950S+0100W	663104	5461762
0850S+0100E	663219	5461949		0950S+0075W	663124	5461774
0850S+0125E	663239	5461963		0950S+0050W	663144	5461786
0850S+0150E	663262	5461983		0950S+0025W	663172	5461793
0850S+0175E	663282	5461989		0950S+0000E	663200	5461800
0850S+0200E	663302	5461998		0950S+0025E	663214	5461820
0850S+0225E	663323	5462012		0950S+0050E	663228	5461839
0850S+0250E	663346	5462023		0950S+0075E	663250	5461854
0850S+0275E	663368	5462037		0950S+0100E	663272	5461868
0850S+0300E	663389	5462051		0950S+0125E	663292	5461881

Sample	UTM_E_	UTM_N_		Sample	UTM_E_	UTM_N_
0850S+0325E	663410	5462064		0950S+0150E	663312	5461893
0850S+0350E	663431	5462076		0950S+0175E	663331	5461910
0850S+0375E	663454	5462090		0950S+0250E	663378	5461938
0850S+0400E	663477	5462104		0950S+0275E	663406	5461957
0850S+0425E	663498	5462118		0950S+0300E	663434	5461976
0850S+0450E	663518	5462132		0950S+0325E	663453	5461989
0850S+0475E	663538	5462147		0950S+0350E	663472	5462001
0850S+0500E	663558	5462161		0950S+0375E	663495	5462016
0950S+0400E	663518	5462031		L000N+500W	662238	5462398
0950S+0475E	663565	5462055		L000N+525W	662217	5462388
0950S+0500E	663611	5462078		L050N+000W	662641	5462657
1000S+0300W	662951	5461609		L050N+025W	662621	5462645
1000S+0275W	662978	5461624		L050N+050W	662594	5462639
1000S+0250W	663005	5461639		L050N+075W	662575	5462624
1000S+0225W	663023	5461653		L050N+100W	662551	5462612
1000S+0200W	663040	5461667		L050N+125W	662529	5462602
1000S+0175W	663063	5461682		L050N+150W	662506	5462592
1000S+0150W	663085	5461696		L050N+175W	662485	5462579
1000S+0125W	663106	5461707		L050N+200W	662464	5462565
1000S+0100W	663126	5461717		L050N+225W	662441	5462555
1000S+0075W	663149	5461730		L050N+250W	662419	5462544
1000S+0050W	663173	5461745		L050N+275W	662396	5462532
1000S+0000E	663211	5461769		L050N+300W	662373	5462523
1000S+0025E	663234	5461783		L050N+325W	662351	5462511
1000S+0050E	663255	5461796		L050N+350W	662330	5462499
1000S+0075E	663275	5461809		L050N+375W	662306	5462488
1000S+0100E	663293	5461821		L050N+400W	662285	5462475
1000S+0125E	663313	5461836		L050N+425W	662260	5462464
1000S+0150E	663338	5461848		L050N+450W	662234	5462451
1000S+0175E	663357	5461863		L050N+475W	662216	5462444
1000S+0200E	663380	5461875		L050N+500W	662195	5462432
1000S+0225E	663398	5461887		L050S+225W	662508	5462478
1000S+0250E	663420	5461902		L050S+250W	662487	5462467
1000S+0275E	663444	5461915		L050S+275W	662464	5462455
1000S+0300E	663467	5461929		L050S+300W	662441	5462442
1000S+0325E	663485	5461941		L050S+325W	662418	5462434
1000S+0350E	663506	5461953		L050S+350W	662395	5462422
1000S+0375E	663530	5461969		L050S+375W	662376	5462406
1000S+0400E	663548	5461981		L050S+400W	662353	5462396
1000S+0425E	663572	5461995		L050S+425W	662331	5462388
1000S+0450E	663591	5462007		L050S+450W	662307	5462375
1000S+0475E	663615	5462022		L050S+475W	662285	5462366

Sample	UTM_E_	UTM_N_		Sample	UTM_E_	UTM_N_
1000S+0500E	663637	5462034		L050S+500W	662266	5462358
L000N+225W	662487	5462522		L050S+525W	662248	5462349
L000N+250W	662461	5462513		L100N+000W	662622	5462702
L000N+275W	662440	5462498		L100N+025W	662593	5462693
L000N+300W	662418	5462488		L100N+050W	662574	5462683
L000N+325W	662396	5462477		L100N+075W	662551	5462672
L000N+350W	662374	5462464		L100N+100W	662530	5462660
L000N+375W	662352	5462454		L100N+125W	662508	5462646
L000N+400W	662327	5462446		L100N+150W	662487	5462632
L000N+425W	662306	5462433		L100N+175W	662465	5462620
L000N+450W	662283	5462423		L100N+200W	662442	5462608
L000N+475W	662262	5462411		L100N+225W	662419	5462601
L100N+250W	662398	5462585		L150S+250W	662531	5462380
L100N+275W	662376	5462574		L150S+275W	662507	5462368
L100N+300W	662353	5462565		L150S+300W	662485	5462356
L100N+325W	662329	5462555		L150S+325W	662461	5462346
L100N+350W	662307	5462546		L150S+350W	662441	5462334
L100N+375W	662285	5462531		L150S+375W	662418	5462323
L100N+400W	662262	5462522		L150S+400W	662394	5462313
L100N+425W	662239	5462511		L150S+425W	662375	5462299
L100N+450W	662217	5462499		L150S+450W	662351	5462288
L100N+475W	662195	5462487		L150S+475W	662328	5462277
L100N+500W	662172	5462478		L150S+500W	662307	5462266
L100S+225W	662531	5462434		L150S+525W	662284	5462255
L100S+250W	662510	5462421		L200N+000W	662575	5462794
L100S+275W	662486	5462411		L200N+025W	662552	5462781
L100S+300W	662464	5462399		L200N+050W	662528	5462770
L100S+325W	662443	5462387		L200N+075W	662502	5462757
L100S+350W	662421	5462375		L200N+100W	662482	5462752
L100S+375W	662398	5462364		L200N+125W	662460	5462738
L100S+400W	662375	5462352		L200N+175W	662416	5462714
L100S+425W	662354	5462340		L200N+325W	662282	5462645
L100S+450W	662332	5462328		L200N+350W	662260	5462634
L100S+475W	662310	5462319		L200N+375W	662238	5462623
L100S+500W	662286	5462306		L200N+400W	662216	5462611
L100S+525W	662261	5462300		L200N+425W	662195	5462598
L150N+000W	662596	5462748		L200N+450W	662173	5462589
L150N+025W	662574	5462737		L200N+475W	662149	5462576
L150N+050W	662552	5462724		L200N+500W	662127	5462567
L150N+075W	662533	5462716		L200S+225W	662577	5462344
L150N+100W	662507	5462704		L200S+250W	662553	5462333
L150N+125W	662486	5462690		L200S+275W	662531	5462325

Sample	UTM_E_	UTM_N_		Sample	UTM_E_	UTM_N_
L150N+150W	662464	5462678		L200S+300W	662508	5462312
L150N+175W	662441	5462667		L200S+325W	662485	5462300
L150N+200W	662419	5462655		L200S+350W	662464	5462287
L150N+225W	662396	5462646		L200S+375W	662442	5462277
L150N+250W	662372	5462635		L200S+400W	662419	5462268
L150N+275W	662351	5462624		L200S+425W	662397	5462256
L150N+300W	662329	5462611		L200S+450W	662374	5462244
L150N+325W	662307	5462602		L200S+475W	662351	5462233
L150N+350W	662284	5462590		L200S+500W	662329	5462221
L150N+375W	662262	5462578		L200S+525W	662305	5462210
L150N+400W	662241	5462565		L250N+000W	662553	5462836
L150N+425W	662219	5462554		L250N+025W	662529	5462827
L150N+450W	662195	5462546		L250N+050W	662508	5462817
L150N+475W	662170	5462538		L350N+125W	662393	5462871
L150N+500W	662148	5462524		L350N+150W	662371	5462861
L150S+225W	662554	5462388		L350N+175W	662349	5462848
L250N+150W	662416	5462774		L250N+075W	662483	5462809
L250N+175W	662394	5462766		L250N+100W	662462	5462795
L250N+200W	662369	5462754		L250N+125W	662439	5462783
L250N+250W	662323	5462733		L350N+200W	662327	5462838
L250N+400W	662188	5462672		L350N+225W	662304	5462828
L250N+425W	662166	5462658		L350N+250W	662281	5462819
L250N+450W	662142	5462651		L350N+275W	662258	5462805
L250N+475W	662121	5462637		L350N+300W	662237	5462794
L250N+500W	662105	5462612		L350N+325W	662214	5462783
L250S+225W	662599	5462299		L350N+350W	662191	5462771
L250S+250W	662574	5462289		L350N+375W	662169	5462760
L250S+275W	662552	5462278		L350N+475W	662078	5462716
L250S+300W	662531	5462262		L350N+500W	662061	5462700
L250S+325W	662509	5462252		L400N+000W	662485	5462968
L250S+350W	662486	5462241		L400N+025W	662462	5462960
L250S+375W	662462	5462233		L400N+050W	662436	5462950
L250S+400W	662441	5462220		L400N+075W	662417	5462935
L250S+425W	662418	5462209		L400N+100W	662395	5462924
L250S+450W	662397	5462197		L400N+125W	662374	5462913
L250S+475W	662373	5462187		L400N+150W	662350	5462901
L250S+500W	662351	5462175		L400N+175W	662328	5462891
L250S+525W	662327	5462165		L400N+200W	662305	5462880
L300N+000W	662529	5462881		L400N+225W	662284	5462867
L300N+025W	662506	5462871		L400N+250W	662261	5462857
L300N+050W	662484	5462860		L400N+275W	662240	5462845
L300N+075W	662461	5462849		L400N+300W	662218	5462833

Sample	UTM_E_	UTM_N_		Sample	UTM_E_	UTM_N_
L300N+100W	662438	5462837		L400N+325W	662196	5462820
L300N+125W	662417	5462825		L400N+350W	662172	5462812
L300N+150W	662396	5462812		L400N+400W	662128	5462789
L300N+175W	662372	5462804		L400N+425W	662104	5462780
L300N+200W	662350	5462791		L400N+450W	662079	5462767
L300N+225W	662327	5462781		L400N+475W	662059	5462755
L300N+250W	662304	5462770		L400N+500W	662037	5462746
L300N+275W	662283	5462757				
L300N+300W	662261	5462748				
L300N+450W	662127	5462679				
L300N+475W	662104	5462667				
L300N+500W	662082	5462657				
L350N+000W	662506	5462926				
L350N+025W	662484	5462915				
L350N+050W	662462	5462905				
L350N+075W	662439	5462895				
L350N+100W	662415	5462883				