

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016 – 510 West Hastings Street
Vancouver, B.C. V6B 1L8

Telephone: 604-688-2568

Fax: 604-688-2578

ASSESSMENT REPORT

describing

MAPPING, PROSPECTING AND GEOCHEMICAL SAMPLING

at the

FOUR CORNERS WEST PROPERTY

4C 7-22	YC22686-YC22701
29-42	YC22708-YC22721
51-58	YC22730-YC22737
277-288	YC22862-YC22873
299	YC22884
301	YC22886
303	YC22888
305-308	YC22890-YC22893
355-356	YC22922-YC22923
377-382	YC22944-YC22949
403-404	YC22970-YC22971
405-408	YC23110-YC23113
429-434	YC22988-YC22993

NTS 105B/16 and 105G/01
Latitude 61°02'N; Longitude 130°09'W

located in the

Watson Lake Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

WOLVERINE MINERALS CORP.
and
STRATEGIC METALS LTD.

by

C.J. Chung, B.Sc., GIT
May 2012

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INTRODUCTION

The Four Corners West property covers anomalous gold-, arsenic-, copper- and silver-in-soil targets and at least two gold showings. The property is located in the Finlayson Lake VMS District of southeastern Yukon. Wolverine Minerals Corp. can earn a 100% interest in the property subject to an option agreement with Strategic Metals Ltd.

The report describes a five day exploration program conducted by Archer, Cathro & Associates (1981) Limited on behalf of Strategic Metals between July 10 and August 10, 2011 and one day of prospecting by an independent prospector contracted by Wolverine Minerals on July 30, 2011. The author compiled and interpreted the 2011 data. Appendix I contains the author's Statement of Qualifications.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Four Corners West property consists of 77 contiguous mining claims and is located in southeastern Yukon at latitude 61°02' north and longitude 130°09' west on NTS map sheets 105B/16 and 105G/1 (Figure 1). The claims are registered with the Watson Lake Mining Recorder in the name of Archer Cathro which holds them in trust for Strategic Metals. Claim registration data are listed below while locations of individual claims are shown on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
4C 7-22	YC22686-YC22701	March 13, 2019
29-42	YC22708-YC22721	March 13, 2019
51-58	YC22730-YC22737	March 13, 2019
277-288	YC22862-YC22873	March 13, 2019
299	YC22884	March 13, 2019
301	YC22886	March 13, 2019
303	YC22888	March 13, 2019
305-308	YC22890-YC22893	March 13, 2019
355-356	YC22922-YC22923	March 13, 2019
377-382	YC22944-YC22949	March 13, 2019
403-404	YC22970-YC22971	March 13, 2019
405-408	YC23110-YC23113	March 13, 2019
429-434	YC22988-YC22993	March 13, 2019

* Expiry dates include 2011 work that has been filed for assessment credit but not yet accepted.

The 4C claims lie approximately 115 km northwest of Watson Lake. The closest road access is from the Robert Campbell Highway, which at its nearest point is 45 km east of the property. Access to and from the property in 2011 was provided by a Hughes 500D helicopter owned and operated by Kluane Airways Ltd. from the Inconnu Lodge on McEvoy Lake, located approximately 85 km to the north of the property. All personnel stayed at the lodge.

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FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
PROPERTY LOCATION
4C WEST PROPERTY

0 250 km
UTM ZONE 9, NAD 83, 105G/01

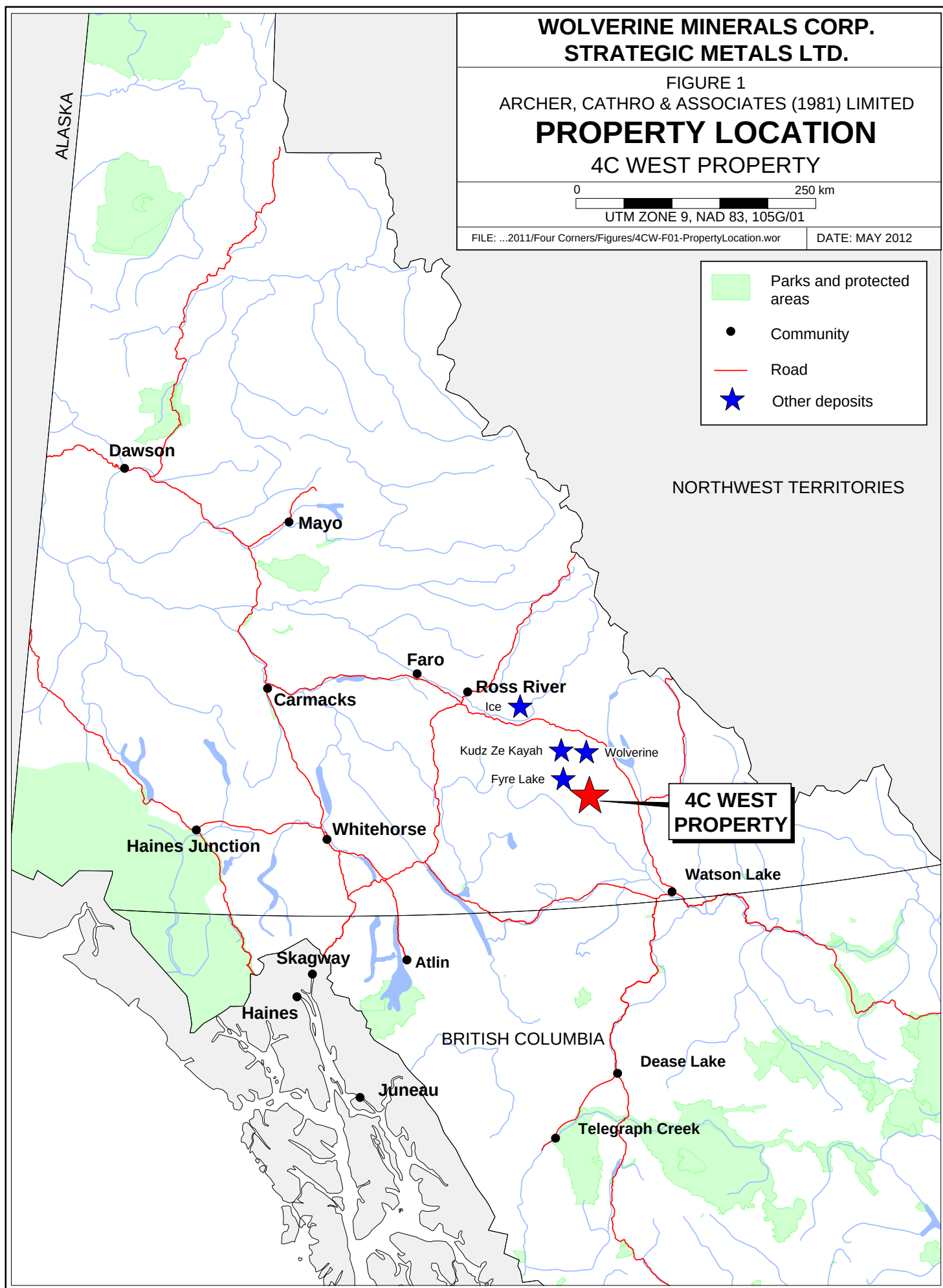
FILE: ...2011\Four Corners\Figures\4CW-F01-PropertyLocation.wor

DATE: MAY 2012

-  Parks and protected areas
-  Community
-  Road
-  Other deposits

NORTHWEST TERRITORIES

**4C WEST
PROPERTY**



HISTORY

Regional-scale geological mapping in the vicinity of the Four Corners West property was performed by the Geological Survey of Canada (GSC) in 1960 and 1977 (Poole *et al.*, 1960 and Tempelman-Kluit, 1977). Drainages in the vicinity of the Four Corners West property were sampled in 1978 during reconnaissance-scale stream sediment geochemical surveys supervised by the GSC (Hornbrook and Ballantyne, 1978 and 1988).

The only record of previous exploration in the area now covered by the Four Corners West property is work conducted by Cominco Ltd. between 1995 and 1996. That work targeted VMS mineralization modelled on the Kudz Ze Kayah deposit, located 60 km north-northwest of the Four Corners West property. Cominco flew helicopter-borne geophysical surveys over most of the Finlayson Lake District following the discovery of Kudz Ze Kayah, and it later staked numerous claim blocks to cover the resulting geophysical anomalies. Results from the geophysical surveys were not reported for assessment credit.

In 1996 and 1997, Cominco staked three claim blocks (BL 1-93, Wat 1-165 and IC 1-28) in the area (Senft, 1997). Parts of the Wat and BL claim blocks overlapped with the northern and southern portions of the current Four Corner West property. Cominco performed reconnaissance-scale soil and stream sediment sampling, geological mapping and prospecting. Both claim blocks were subsequently allowed to expire.

In early spring 2003, Strategic Metals staked its initial 4C claims and later that spring it optioned those claims to Firestone Ventures Inc. (Wengzynowski, 2003). Exploration for emeralds was conducted that summer. This work resulted in the discovery of a few small beryl crystals, but no green or gem quality stones were found. Some rock samples collected during that program returned elevated gold assays but no systematic follow-up was done.

In 2005, after Firestone dropped its option, Strategic Metals explored the property for VMS potential by soil sampling, prospecting and geological mapping (Wengzynowski, 2006).

In 2006, Geotech Ltd. conducted helicopter-borne magnetic and variable time domain electromagnetic (VTEM) surveys over part of the 4C claim block on behalf of Strategic Metals (Wengzynowski, 2007). Very little of the survey overlapped with the Four Corners West property and no features of interest were noted in that area.

In 2010, Strategic Metals continued work on the 4C claim block by collecting 53 soil samples along two parallel contour lines. Soil sampling outlined localized gold-arsenic anomalies within a broader band of elevated copper values (Eaton, 2011).

In fall 2010, the west side of the 4C claim block (Four Corners West property) was optioned to Wolverine Minerals and the eastern half (Four Corners East property) to another group.

GEOMORPHOLOGY

The Four Corners West property lies within the Simpson Range of the Pelly Mountains, near the headwaters of the Liard River. Elevations range between 1100 and 1860 m. Topography is rugged with predominantly north flowing creeks draining U-shaped valleys that often emanate from cirques. Slopes are moderate to steep, typically ranging between 20 and 45°. Ridge crests are mostly rounded uplands with extensive felsenmeer. Ice sheets covered the entire Pelly Mountain area during the Pleistocene with the main ice flows directed southeasterly along the larger river valleys. Alpine glacial features such as cirques, tarn lakes and lateral moraines are common.

Much of the property lies above tree line, which is at about 1500 m. Vegetation consists of scattered stunted spruce, balsam and willow at lower elevations, giving way to buckbrush and moss and ultimately to grass and lichen at higher elevations.

The creeks draining the claim block flow into tributaries of the Liard River and ultimately into the Arctic Ocean via the Mackenzie River.

REGIONAL GEOLOGY

The Four Corners West property lies within the Finlayson Lake VMS District. This district has been the focus of numerous government and industry sponsored studies due to its VMS potential. The Geological Survey of Canada mapped the Finlayson Lake area (NTS map sheet 105G) twice at a 1:250,000 scale (Wheeler *et al.*, 1960 and Tempelman-Kluit, 1977). In the late 1990s and early 2000s, the Yukon Geological Survey performed more detailed (1:50,000 scale) mapping in the area and in 2002, it completed a geological compilation and updated the lithological names (Bond *et al.*, 2002). In 2003, Gordey and Makepeace incorporated this data into a Yukon-wide geological compilation. The following geological descriptions are based on the published data.

The Finlayson Lake District comprises an isolated outlier of Yukon-Tanana and Slide Mountain Terranes and affiliated overlap assemblages (Figure 3). The district is bounded by the Tintina Fault to the southwest and the Inconnu Thrust Fault to the northeast. Five major VMS deposits have been discovered in the district (Figure 4). The Fyre Lake, Kudz Ze Kayah, GP4F and Wolverine Deposits, all occur within Yukon-Tanana Terrane, while the Ice Deposit is hosted in Slide Mountain Terrane.

Yukon-Tanana and Slide Mountain Terranes represent continental arc and back-arc basin sequences that developed along the ancient Pacific margin of North America during late Devonian and through Permian (Piercey *et al.*, 2006). Pericratonic rocks of Yukon-Tanana Terrane and oceanic rocks of Slide Mountain Terrane are juxtaposed against rocks of the North American continental margin sequence along the post-Late Triassic Inconnu Thrust Fault (Murphy *et al.*, 2006). Rocks of Yukon-Tanana and Slide Mountain Terranes in the Finlayson Lake District are characterized by variably deformed and metamorphosed, lower greenschist to amphibolite facies metasedimentary and metavolcanic rocks and affiliated metaplutonic suites.

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FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

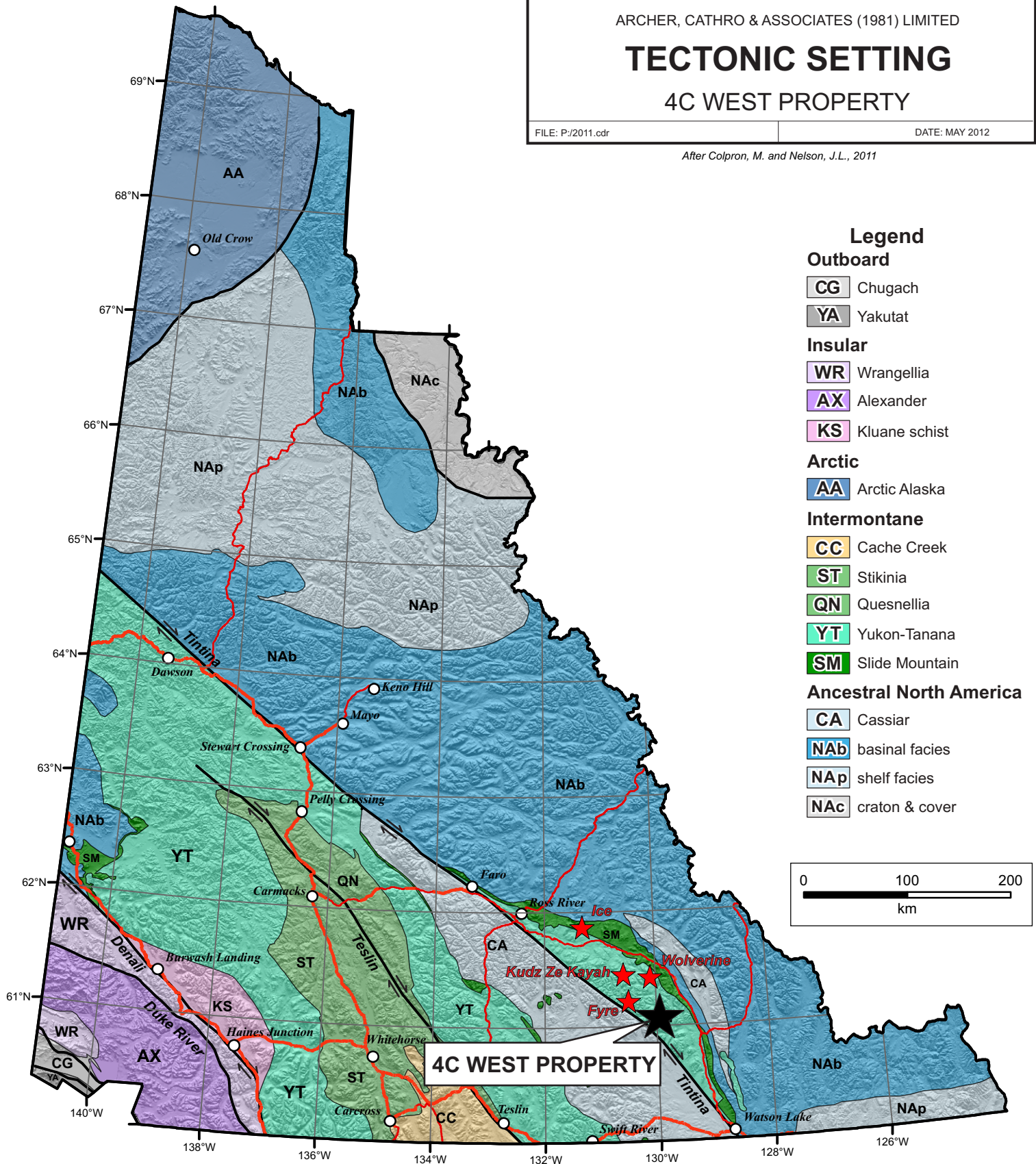
TECTONIC SETTING

4C WEST PROPERTY

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DATE: MAY 2012

After Colpron, M. and Nelson, J.L., 2011



The following descriptions of Yukon-Tanana and Slide Mountain Terranes are largely summarized from Murphy *et al.* (2006).

Rocks of Yukon-Tanana Terrane in the Finlayson Lake District lie between the Tintina Fault and the Jules Creek Fault. Yukon-Tanana Terrane is subdivided into a number of fault- and unconformity-bounded groups and formations. From the structurally deepest levels of the district outwards, these include: (1) North River Formation, Grass Lakes and Wolverine Lake Groups, and affiliated metaplutonic rocks in the Big Campbell Thrust Sheet; (2) North River, Waters Creek and Tuchitua River Formations and affiliated intrusions in the Money Creek Thrust Sheet; and (3) Cleaver Lake Formation and intrusions of the Cleaver Lake Thrust Sheet (Figure 4). Regional shortening, uplift, erosion and synorogenic clastic sedimentation took place during Early Permian. Lower Permian Money Creek Formation was deposited unconformably atop folded Mississippian and Pennsylvanian rocks and was subsequently folded and overthrust by the Cleaver Lake and Money Creek Thrust Faults. The movement of the Money Creek Thrust Fault is constrained to Early Permian because both the hanging wall and footwall are unconformably overlain by Lower Permian rocks of Campbell Range Formation of Slide Mountain Terrane.

North River Formation quartzose metaclastic rocks and metapelites are the oldest exposed rock units in the Big Campbell Thrust Sheet. North River Formation is overlain by chloritic schist and lesser carbonaceous phyllite of Fyre Lake Formation of Grass Lakes Group. This formation hosts the Besshi-style Fyre Lake VMS Deposit (Hunt, 2002). This Late Devonian deposit is associated with chloritic phyllite and greenstone of boninitic composition (Piercey *et al.*, 2004). Mafic and variably serpentinized ultramafic rocks are present as sills and dykes in Fyre Lake and North River Formations, respectively. Stratigraphically overlying Fyre Lake Formation is a carbonaceous phyllite-dominated succession which has been divided into two parts. The lower part, Kudzu Ze Kayah Formation, contains felsic metavolcanic rocks that host the Kuroko-style Kudzu Ze Kayah and GP4F VMS Deposits, while the upper part, Wind Lake Formation, contains mafic metavolcanic rocks and quartzite (Murphy, 1998). Grass Lakes Group is intruded by Late Devonian to Early Mississippian Grass Lakes Plutonic Suite and Early Mississippian Simpson Range Plutonic Suite.

Wolverine Lake Group unconformably overlies Grass Lakes Group and hosts the Kuroko-style Wolverine VMS Deposit. This deposit occurs in a thick sequence of Carboniferous rhyolitic metavolcanic rocks and carbonaceous argillite (Tucker *et al.*, 1997). Together, the Grass Lakes and Wolverine Groups have been interpreted to represent a continental back-arc rift to back-arc basin assemblage.

During Early Permian, Yukon-Tanana Terrane experienced regional shortening and uplift. The deformation and erosion of the Mississippian and Pennsylvanian rocks were followed by unconformable deposition of Money Creek Formation. Money Creek Formation comprises carbonaceous phyllite and sandstone, varicoloured chert, chert-pebble conglomerate, and diamictite. This formation was emplaced atop units of Wolverine Lake Group in the Big Campbell Thrust Sheet and Tuchitua River Formation, Whitefish Limestone, White Lake Formation, King Arctic Formation and Finlayson Creek Limestone in the Money Creek Thrust

Sheet by the Cleaver Lake and Money Creek Thrust Faults. Money Creek Formation is preserved in the Big Campbell and Money Creek Klippen.

The imbricated rocks of Yukon-Tanana Terrane are juxtaposed against rocks of Slide Mountain Terrane along the Jules Creek Fault. Slide Mountain Terrane of the Finlayson Lake District consists of Mississippian to Lower Permian Fortin Creek Group, Lower Permian Campbell Range Formation and spatially associated plutonic rocks, and Lower Permian limestone and quartzite. The Ice VMS Deposit is hosted in Campbell Range Formation basalt (Hunt, 2002).

Middle Permian and younger sequences in the Finlayson Lake District are derived from, or deposited on both Yukon-Tanana and Slide Mountain Terranes. Middle Permian to Triassic Simpson Lake Group is composed of clastic rocks derived from both terranes and Middle Permian felsic and mafic metavolcanic rocks (Mortensen *et al.*, 1999). Slide Mountain Terrane, Yukon-Tanana Terrane and overlapping rocks are juxtaposed against Triassic shale and siltstone and older rocks of the North American continental margin sequence along the Inconnu Thrust Fault.

During the Mesozoic era, two types of intrusion were emplaced in the Finlayson Lake District. The first comprises several unmetamorphosed Early Jurassic mafic and intermediate composition plutons. The second consists of Late Cretaceous two-mica quartz monzonite and granite (Mortensen and Jilson, 1985).

PROPERTY GEOLOGY

In 2011, G. Belik, a prospector contracted by Wolverine Minerals, completed a one day prospecting and mapping program on the Four Corners West property. Figure 5 shows the geology from this study and Belik's property evaluation report is copied in Appendix II. The lithological units and contacts are inferred because little detailed property mapping has been done and most contacts are obscured by talus, glacial till or vegetation. Unit descriptions and terminology used throughout this section are based on mapping done by the Yukon Geological Survey (Murphy and Piercey, 1999 and Murphy *et al.*, 2003).

Yukon-Tanana rocks on the Four Corners West property comprise stratified volcanic units and laterally extensive ultramafic intrusions. The lowest stratigraphic unit consists of mafic metavolcanic rocks of Late Devonian Fyre Lake Formation. This unit is conformably overlain by felsic metavolcanic rocks of Late Devonian Kudz Ze Kayah Formation. These stratigraphic units have been intruded by Late Devonian, variably serpentinized ultramafic rocks. The youngest rocks in close proximity to the property belong to a Mid-Cretaceous intrusion located one kilometre to the southwest of the claim block. The intrusion is a north-northwesterly elongated, approximately 10 km long granitic stock. Unit descriptions are summarized in the following table.

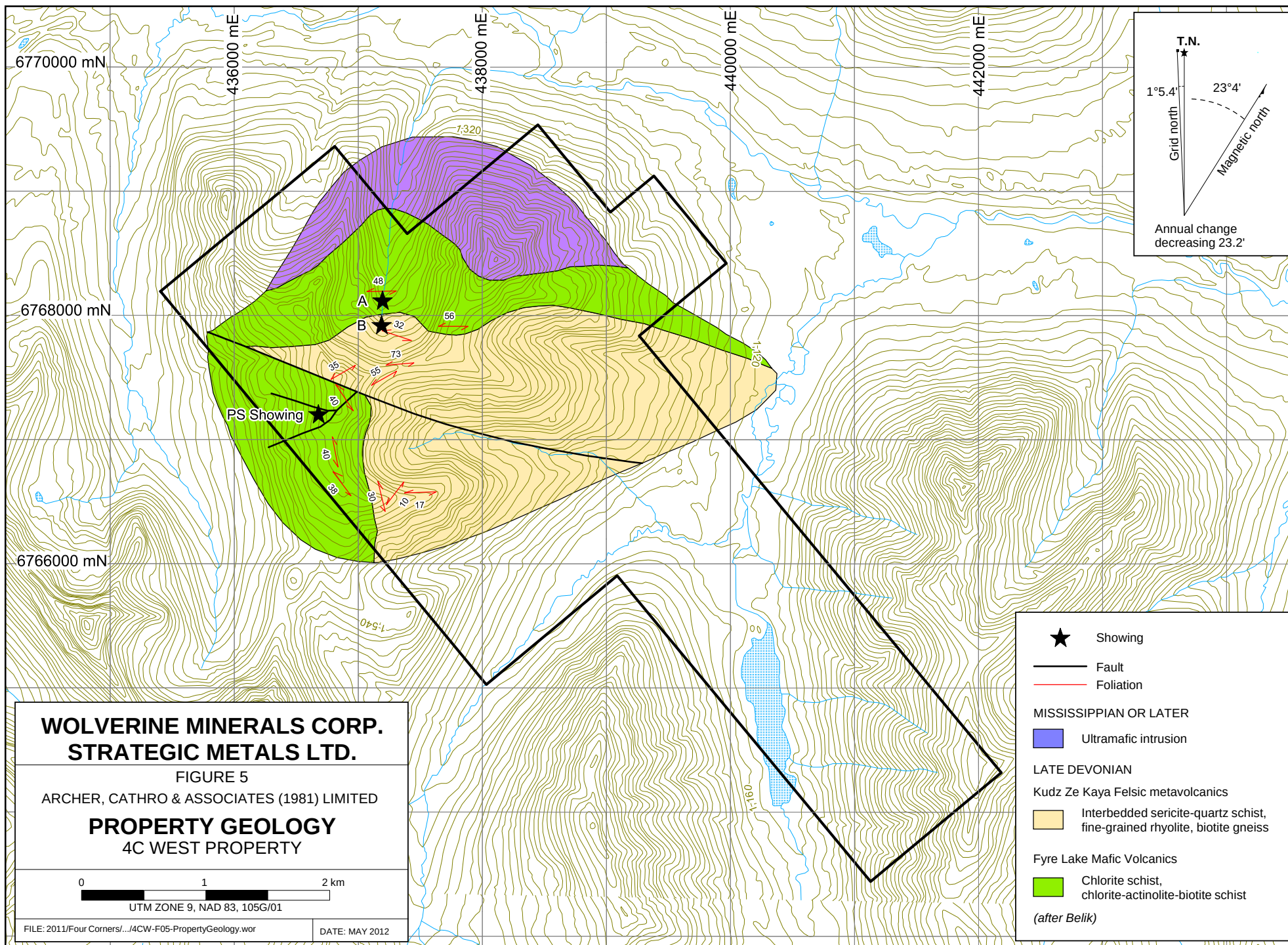


Table I: Lithological Units at the Four Corners West property
(after Murphy and Piercey, 1999 and Murphy *et al.*, 2003)

<u>Unit (Age)</u>	<u>Description</u>
Granitic stock (Mid-Cretaceous)	Massive to weakly foliated, medium to coarse grained biotite-muscovite granite, generally equigranular.
Ultramafic rocks (Late Devonian)	Brown weathering, dark green to black, variably serpentinized dunite, includes gabbro and/or pyroxenite locally.
Kudz Ze Kayah Formation (Late Devonian)	Kudz Ze Kayah felsic metavolcanic formation: feldspar-muscovite-quartz schist.
Fyre Lake Formation (Late Devonian)	Fyre Lake mafic metavolcanic formation: massive to subtly layered chlorite-biotite-plagioclase-actinolite schist.

Foliation attitudes strike northwesterly and dip moderately to the north. Compositional layering in the stratified rocks is approximately parallel to foliation.

The Four Corners West property lies in a thrust window that is bound to the north and south by the Money Creek Thrust Fault.

MINERALIZATION

Gold mineralization (PS Showing) was discovered in the western part of the property (Figure 5) in 2003 by Strategic Metals. The PS Showing consists of gold bearing, silica-altered rocks that form a more than 100 m long talus train within Fyre Lake chlorite schist. The talus train is about 8 m wide and consists primarily of white quartz flooded material. In the centre of the train there is a one to three metre wide band of distinctive green chalcedony believed to be coloured by finely disseminated chrome mica. In 2003, a sample composed of several chips from two 70 cm diameter boulders of the green chalcedony assayed 4.28 g/t gold and 2.64 g/t silver. Another chip sample taken nearby across three metres of talus centered on the green chalcedony band returned 198 ppb gold. The source material of the gold-bearing talus is not exposed.

A second gold showing (A) was also reportedly discovered in 2003. It is exposed along an actively eroding creek bank that is located one kilometre north-northeast of the PS Showing. The A Showing comprises disseminated pyrite and arsenopyrite in a three to five metre thick, dark grey siliceous horizon within a section of chlorite schist. This horizon was not sampled but rusty soil collected a few metres uphill returned 591 ppb gold.

A third showing (B) was discovered about 200 m upstream from Showing A and comprises thin grey siliceous laminations with finely disseminated pyrite. This pyritic zone totals three metre thick and may represent an exhalite horizon.

G. Belik collected a total of seven rock samples from the Four Corners West property during the 2011 program. Sample locations and results for copper, silver, gold, arsenic and antimony are plotted on Figures 6 to 11, respectively. Rock sample descriptions are given in Appendix III while Certificates of Analysis are provided in Appendix IV.

Rock sample sites on the property were marked by orange flagging tape labeled with the sample number. The location of each sample was determined using a handheld GPS unit. Preparation of rock samples was carried out at ALS Chemex in Whitehorse, Yukon, where each sample was dried and fine crushed to better than 70% passing -2 mm before a 250 g split was pulverized to better than 85% passing 75 micron. The fine fraction was then sent to ALS Chemex in North Vancouver, B.C., where splits were analyzed for gold using fire assay followed by inductively coupled plasma-atomic emission spectroscopy analysis and for 35 other elements using an aqua regia digestion and inductively coupled plasma-atomic emission spectroscopy analysis (Au-AA24 and ME-ICP41).

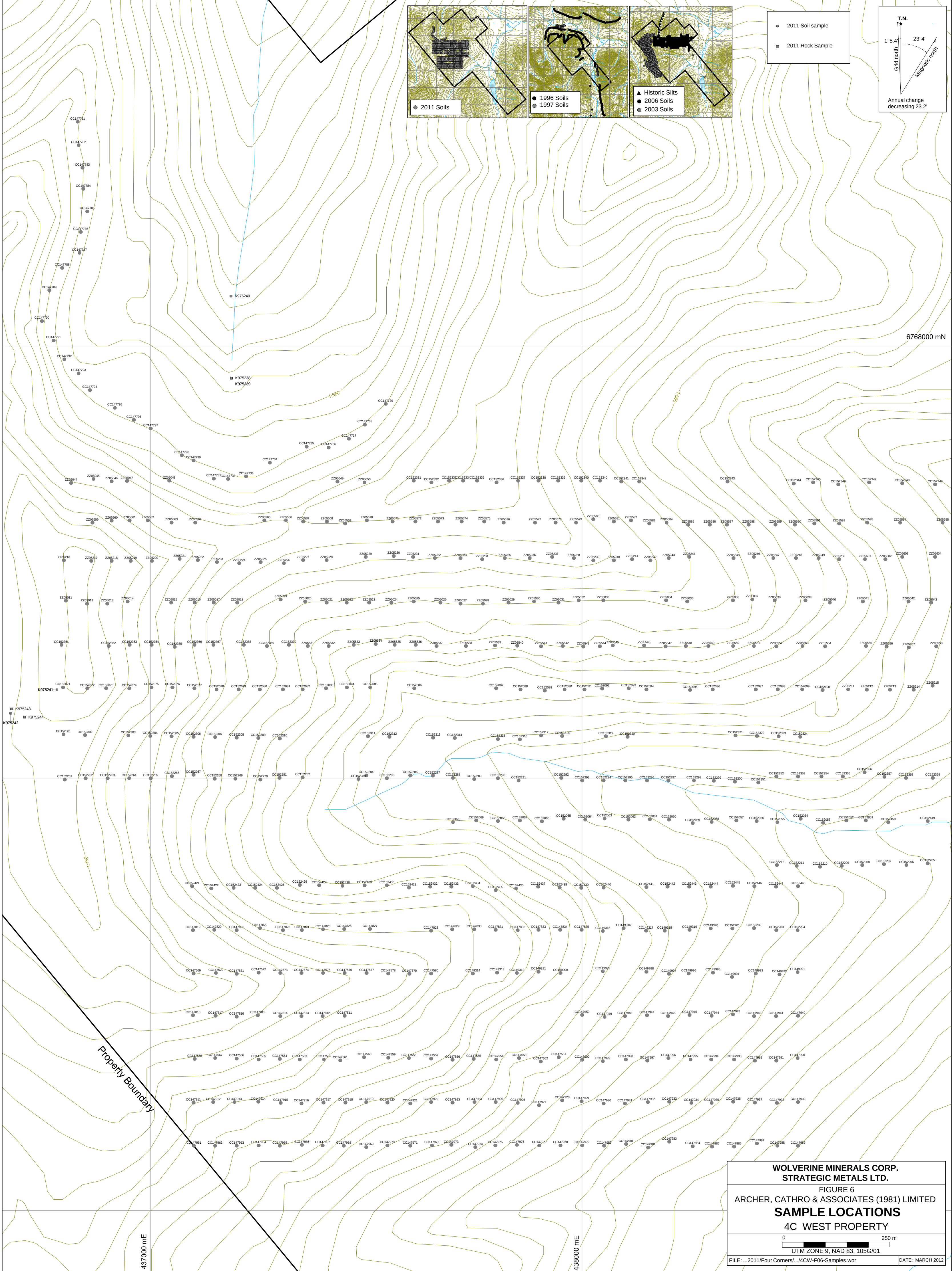
Four samples were taken from the PS Showing, one was collected at Showing A and the remaining two were from Showing B. Two of the PS Showing samples were from green quartz boulders, while the other two were composite samples of quartz and quartz breccia from across the full width of the zone. The samples taken from showings A and B comprised quartz-carbonate altered phyllite with disseminated pyrite.

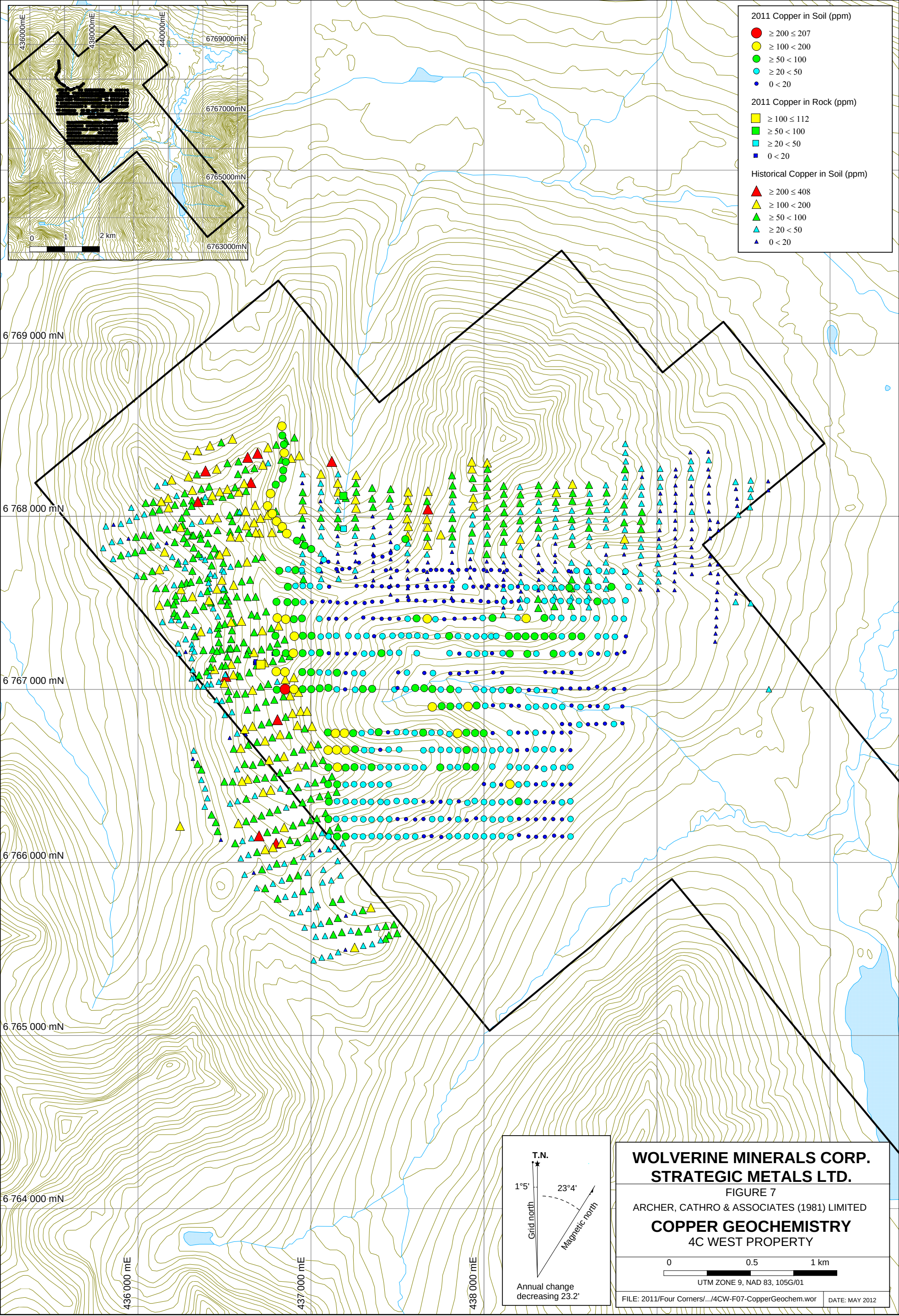
Anomalous values were obtained from the samples taken at the PS Showing for silver (5.2 ppm), gold (278 ppb) and antimony (up to 273 ppm). The sample taken from Showing A yielded elevated gold (241 ppb), arsenic (55 ppm) and antimony (273 ppm). The samples from Showing B returned weakly elevated values for silver (up to 1.3 ppm) and background results for all other metals of interest.

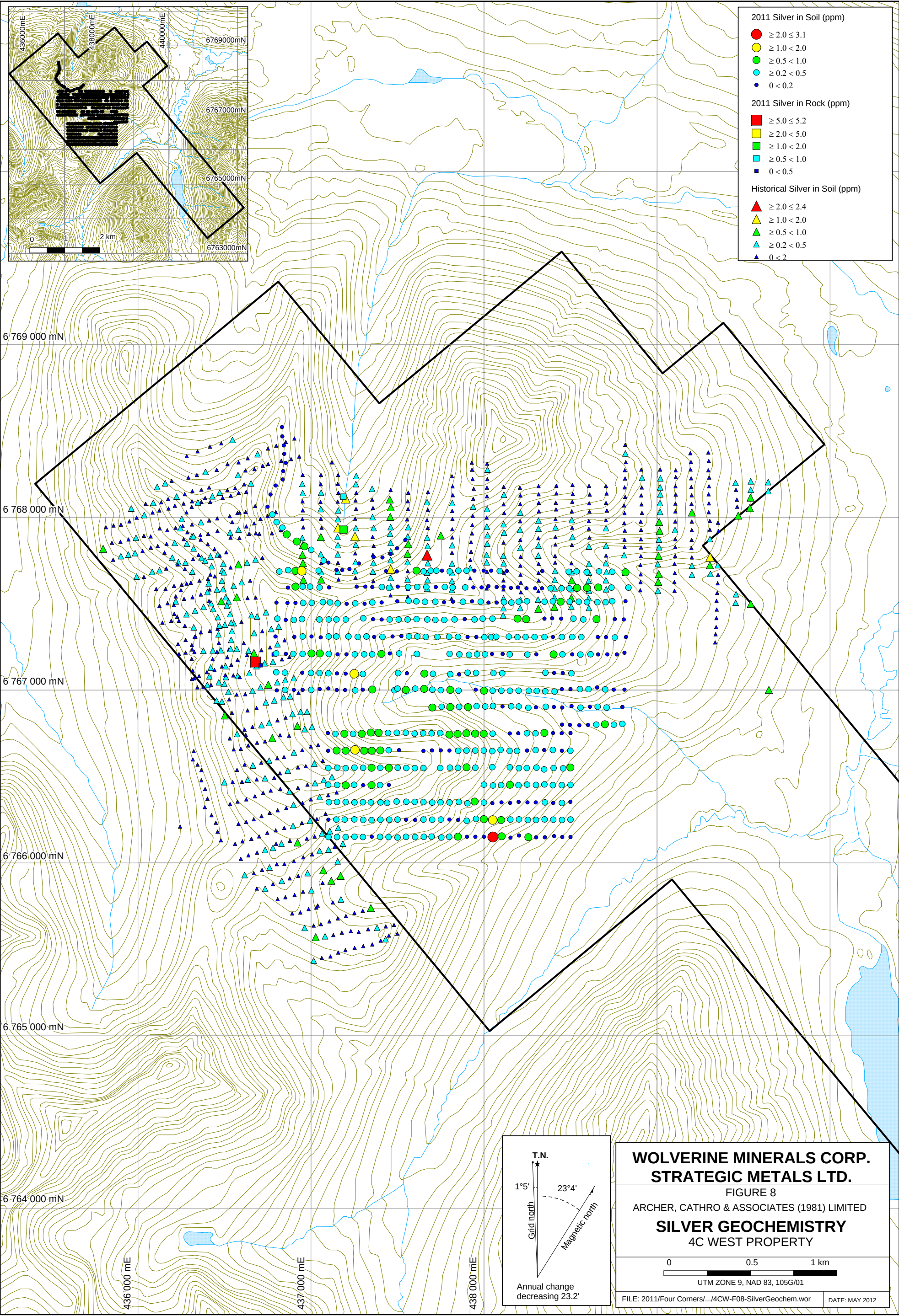
SOIL GEOCHEMISTRY

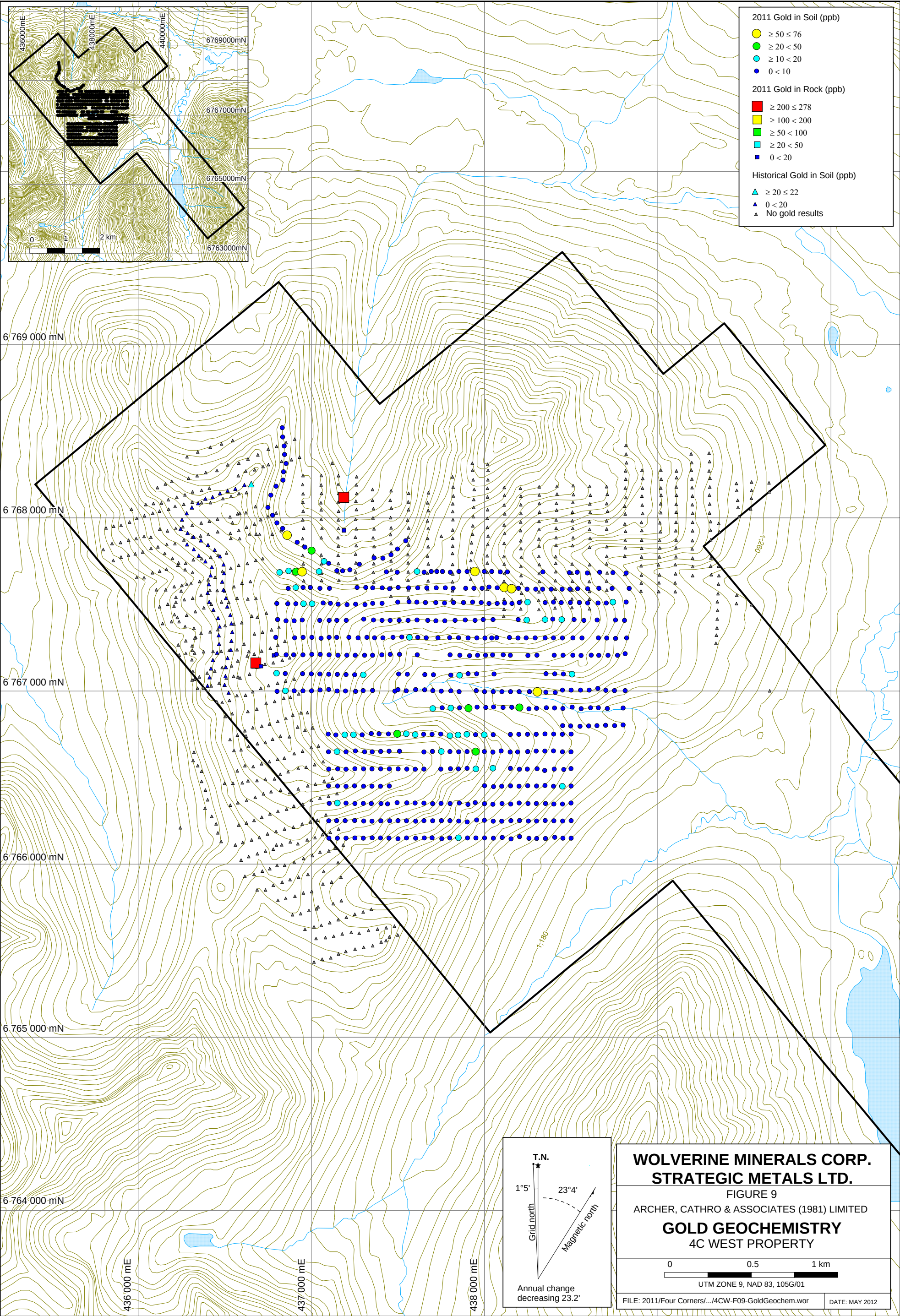
Different parts of the area covered by the Four Corners West property have been soil sampled at various times since 1996. In 2011, 517 soil samples were taken on a 50 by 100 m grid and along one contour traverse in the centre of the property. Sample locations and results for copper, silver, gold, arsenic and antimony, along with historical data are plotted on Figures 6 to 11, respectively. Certificates of Analysis are in Appendix IV.

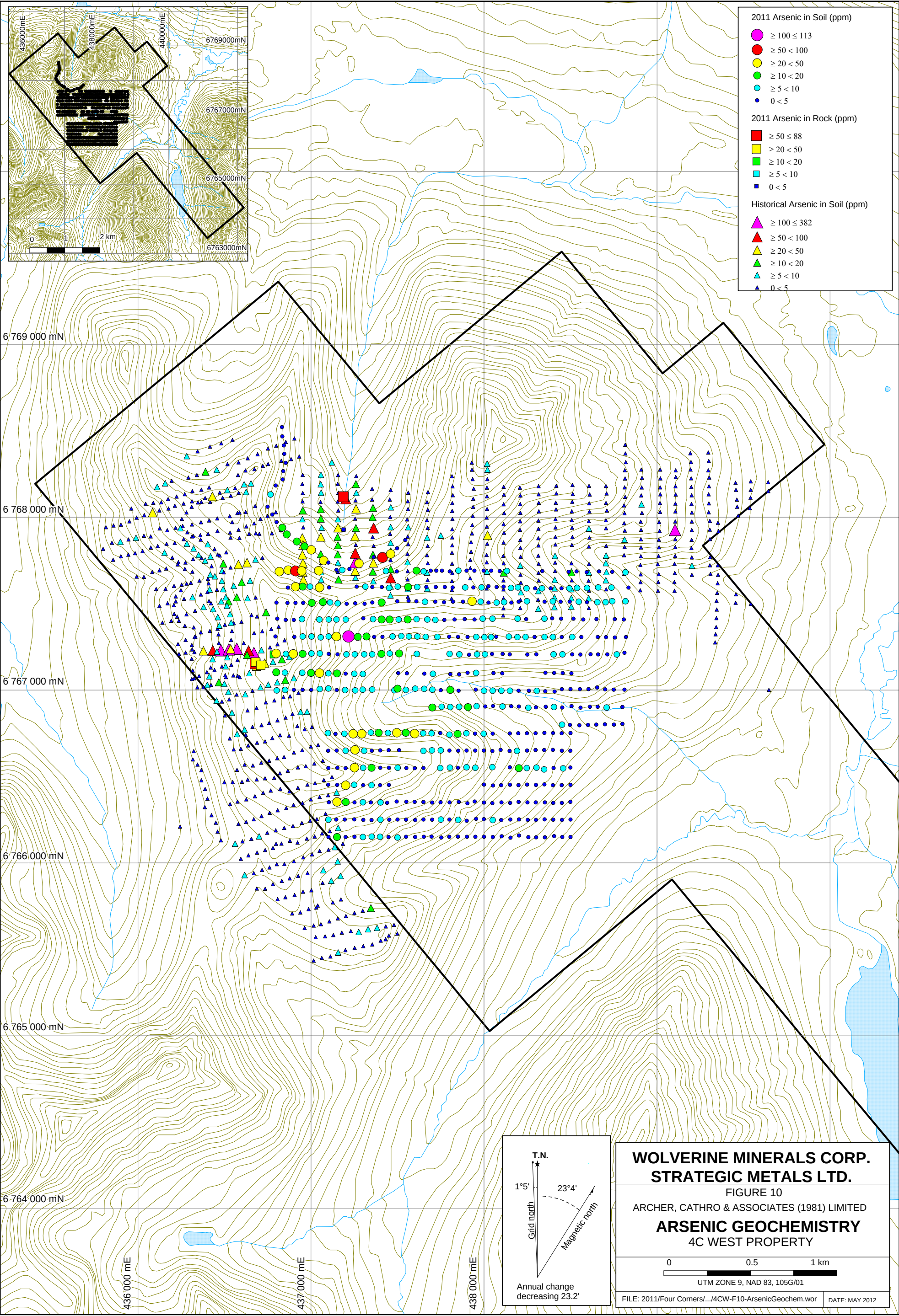
A relatively continuous, arcuate, 3500 by 400 m copper anomaly in the western and northern parts of the property was defined by previous sampling. This anomaly closely conforms to the inferred trace of the metavolcanic strata of the Fyre Lake Formation. Limited data for gold is available, but historical samples that contained elevated gold values were all hosted in Fyre Lake Formation metavolcanic and most were taken near the known showing.

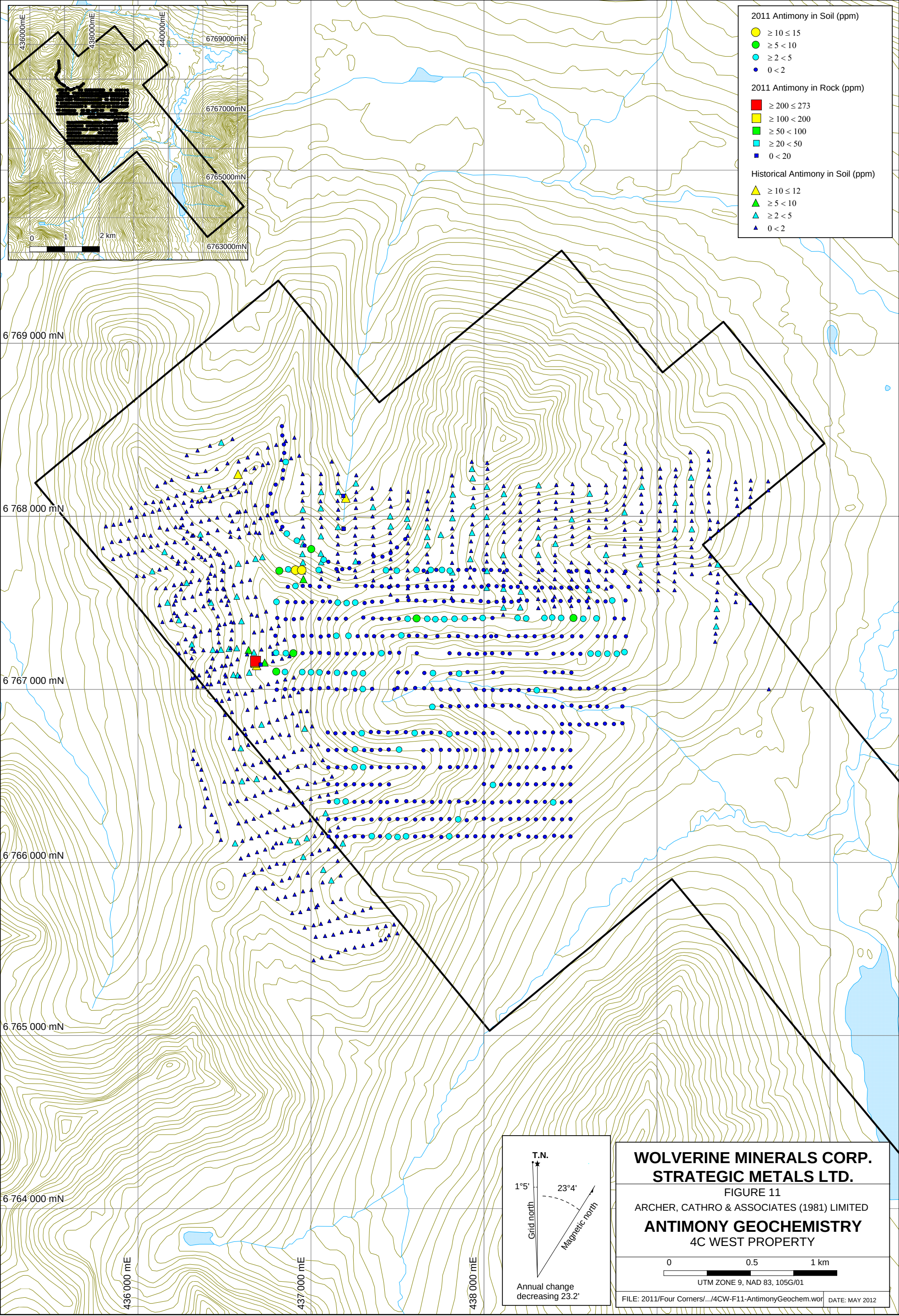












In 2011, the soil samples were collected from 20 to 60 cm deep holes dug by hand-held soil augers. All samples were placed into individually pre-numbered Kraft paper bags. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. All sample locations were recorded using hand-held GPS units.

All soil samples were sent to ALS Chemex, where they were dried, screened to -180 microns, dissolved in aqua regia solution and then analyzed for 35 elements using the inductively coupled plasma with atomic emission spectroscopy technique (ME-ICP41). An additional 30 g charge was further analysed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21).

A sporadic, 700 by 200 m, northwest-southeast elongated copper anomaly is present in the centre of the property. It appears to be parallel the larger and stronger, historical copper anomaly located about 800 m to the west. Values within the new anomaly range from 50 to 185 ppm. The highest copper (207 ppm) value occurs on the western edge of the grid within the historical copper anomaly. Results for the other metals are more sporadic. The best silver value (3.1 ppm) came from a sample collected at the southern end of the soil grid. A discontinuous trend in the northeastern part of the soil grid yielded weakly to moderately elevated values for gold (up to 76 ppb). Anomalous arsenic and antimony values are clustered in the western part of the grid, along the contact between Kudz Ze Kayah and Fyre Lake formations.

DISCUSSION AND CONCLUSIONS

The Four Corners West property lies within the Finlayson Lake District, an area best known for its precious metal enriched VMS base metal deposits. Modern studies are beginning to examine the spatial relationship between orogenic gold deposits and VMS deposits. No direct association has been established as of yet (ie. one deposit type can form without the other); however, it has been observed that orogenic gold deposits commonly occur within VMS districts.

Soil sampling has outlined copper anomalies along the contact between Kudz Ze Kayah and Fyre Lake formations. These copper anomalies are locally accompanied by weakly anomalous silver, gold and arsenic values. The best gold, arsenic and antimony values are located near known showings. Prospecting in 2011 identified one new showing (Showing B), approximately 200 metres upstream from a previously known showing. Mineralization at both of these showings appears to be stratabound, but the PS Showing is definitely discordant to compositional layering.

Additional work is warranted on the Four Corners West property on a low priority basis. The work should better define the nature and extent of the geochemical anomalies and establish their relationship to the known showings. Property-scale mapping should be conducted to determine the geological contacts, particularly the bounds of the Fyre Lake Formation. Systematic chip sampling and hand trenching should be done at and along strike from the known showings.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

C.J. Chung, B.Sc., GIT

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APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Crystal J Chung, geologist, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address in Burnaby, British Columbia do hereby certify that:

1. I graduated from the University of British Columbia in 2005 with a B.Sc. majoring in Earth and Ocean Sciences (Geology).
2. From 2004 to present, I have been actively engaged in mineral exploration in British Columbia, Alaska and the Yukon Territory.
3. I am a Geoscientist in Training (GIT) with the Association of Professional Engineers and Geoscientists of British Columbia (Member Number 138321).
4. I have personally reviewed and interpreted all data resulting from this work.

C. J. Chung, B.Sc. Geology, GIT

APPENDIX II

EVALUATION REPORT ON THE FOUR CORNERS PROPERTY

Evaluation Report on the 4 Corners Property, Finlayson Project, Yukon, for Wolverine Minerals Corp.

Summary:

The 4 Corners property is comprised of 77 contiguous mining claims located in the Watson Lake Mining Division, Yukon Territory. The property is centered at approximately geographic coordinates N61°02', W130°09' (NTS 105B/16 and 105G/01). The closest settlement is the town of Watson Lake, which is located about 135 kms to the southeast. The closest road is the Robert Campbell Highway, which is located about 40 kms to the northeast.

The claim area is underlain by deformed metasedimentary and metavolcanic rocks of the Devonian Kudz Ze Kayah Formation and Fire Lake Mafic Volcanic Suite, which have been intruded along the northern edge of the claim block by a serpentized ultramafic body (Figure 1). Within the claim area the Kudz Ze Kayah Formation is comprised of fine-grained felsic metavolcanics (mainly white to tan weathering, finely laminated tuffs and quartz-sericite schist) interbedded with metapelitic units (quartz-biotite gneiss and minor siliceous grey phyllite). The Fire Lake Suite is comprised of mainly dark green chloritic phyllite and chlorite-actinolite +/- biotite schist. Metavolcanic-metasedimentary units have been moderately to strongly deformed and display a well-developed axial plane cleavage.

In 1995 and 1996, Cominco Ltd. flew airborne geophysical surveys over most of the Finlayson Lake District, targeting VMS mineralization modeled after the Kudz Ze Kayah deposit, which is located about 60 kms northwest of the 4 Corners property. In 1996 and 1997, Cominco staked three claim blocks in the area, two of which overlapped northern and western parts of the current 4 Corners property. Cominco completed soil and stream sediment mapping, geological mapping and prospecting. The geochemical surveys identified arsenic anomalies locally associated with weak to moderately anomalous gold values.

Strategic Metals staked the 4 corners property in 2003. The claims were initially optioned to Fyrestone Venture Inc. who carried out exploration work for emeralds without success; Fyrestone relinquished the option in 2005. In 2005 and 2006, Strategic Metals carried out soil sampling, geologic mapping and flew a VTEM survey over parts of the claim area directed primarily at evaluating the VMS potential of the property. In 2010, Strategic carried out a modest program of contour soil sampling, which was filed for assessment credit in March 2011.

Early prospecting by Strategic Metals (2003) identified gold mineralization in two locations on the 4 Corners property. The first, referred to as the PS showing, is described as "gold bearing, silica altered rocks that form a more than 100 m long talus train within Fyre Lake chlorite schist." A small segment of the float train reportedly contains "distinctive green chalcedony" boulders. A composite sample from two of the larger green boulders assayed 4.28 g/t gold and 2.64 g/t silver. A second sample, collected across a three-meter width, centered on the band of green quartz float, assayed 198 ppb gold.

The second showing is located about 1.1 kms north-northeast of the PS showing and is partially exposed along creek bank in the center of a large basin. The showing reportedly consists of

disseminated pyrite and arsenopyrite in a three to five meter thick siliceous horizon hosted by chlorite schist.

The writer examined the 4 Corners property on July 30, 2011. Both showing areas were examined and reconnaissance-type geological mapping was carried out in the northern section of the claim area. Results of the reconnaissance mapping are shown in Figure 1 at a scale of about 1:35,000. Figure 1A is an enlarged map of the PS showing area at a scale of 1:10,000.

The PS showing consists of a zone of quartz suboutcrop and talus which is exposed over an area of about 200 m by 150 m. The zone consists of complex multistage veins, quartz breccia and silicification. Most of the vein quartz consists of white bull quartz but the zone also contains clear to translucent white varieties with limonite and silicified quartz breccia with limonite. The zone consists of two main lenses which appear to converge and join to the east. Both lenses extend down hill under colluvial cover to the west. The zone is interpreted to be associated with two faults that intersect at about 436850E, 6767250N (Fig. 1A). A major zone of dilation, accompanied by extensive veining and silicification, occurred at the intersection of the faults, which is probably related to differential, contemporaneous movement along the fault zones. Continued movement along the faults resulted in periodic brecciation, rehealing and the generation of new vein sets.

Four samples were collected from the PS showing. Two samples were from green quartz boulders similar to those described by Strategic Metals. The two other samples were composite samples of various types of quartz and quartz breccia collected across the full width of the zone.

Two showings were located in the basin area north of the PS showing. Zone A consists of a zone of limonitic bleached, altered (quartz-carbonate) chlorite phyllite with disseminated pyrite cut by a few thin quartz-carbonate veins. The alteration zone appears to be in part structurally and in part stratigraphically controlled. The zone has a maximum width of about 10 meters.

Zone B occurs about 200 meters upstream from Zone A and is a 3 m+/- thick pyritic zone, which may be a thin exhalite horizon. The unit contains thin grey siliceous laminations with finely disseminated pyrite, which is largely oxidized to limonite. A few small lenses of leached, highly gossanous material were noted in the talus fan below the showing. Two samples have been collected from the zone to check for a possible base-metal/gold association.

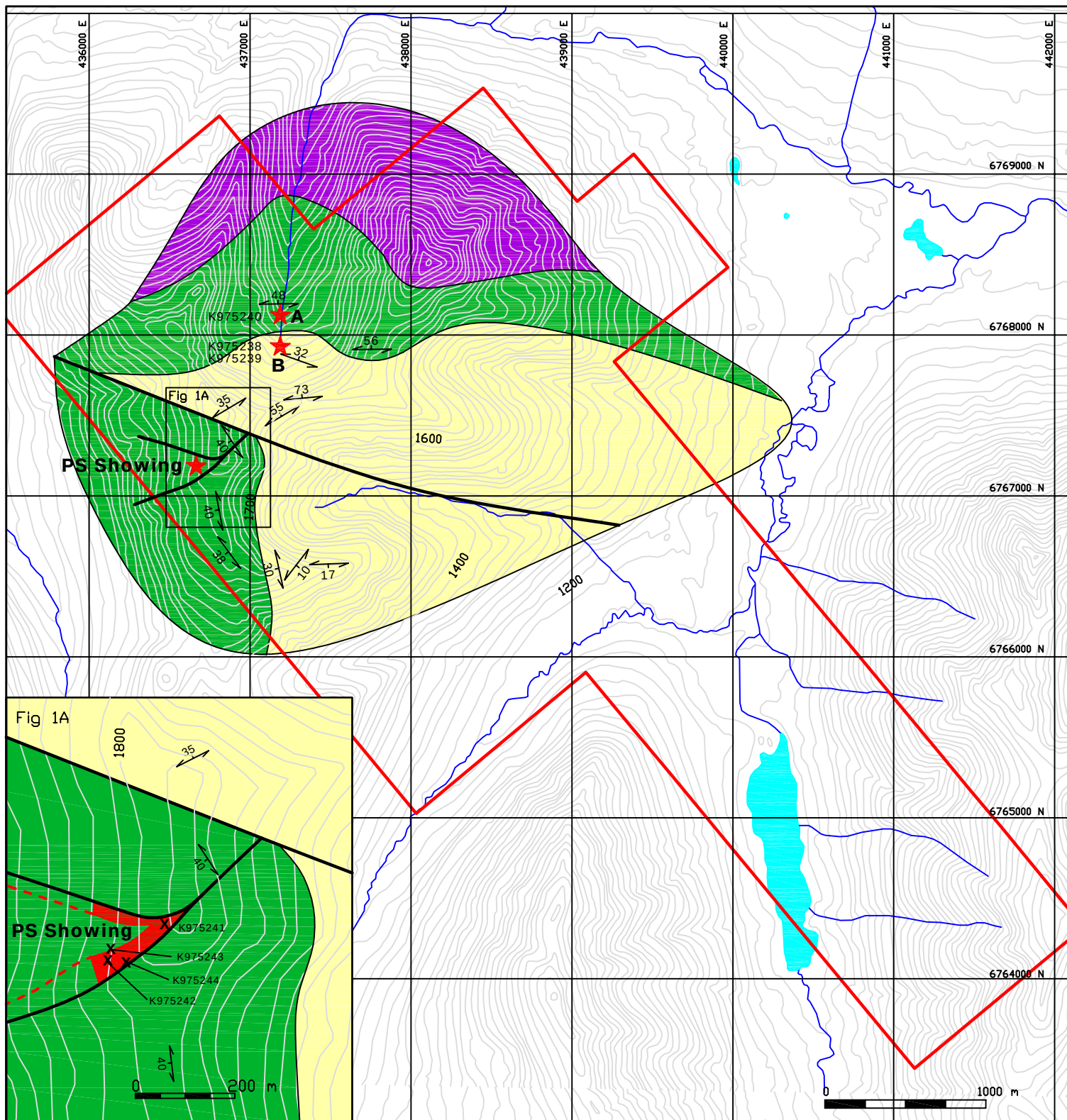
Conclusions:

Zones A is small and of no interest. Zone B may be an exhalite but it is thin and probably quite distal. Felsic volcanics in the area are also fine-grained distal varieties with no apparent proximal vent-type facies. Unless the samples collected from the zone show significant base metal-gold enrichment, further work directed at this target would not be warranted.

The PS showing has a significant size potential but any recommendations for further work will be contingent on rock assay and soil geochemical results.

G. D. Belik, P. Geo

August 6, 2011



LEGEND

MISSISSIPPIAN OR LATER

 ULTRAMAFIC INTRUSION

LATE DEVONIAN

Kud z Ze Kayah Felsic Metavolcanics

 INTERBEDDED SERICITE-QUARTZ SCHIST, FINE-GRAINED RHYOLITE, BIOTITE GNEISS

Fire Lake Mafic Volcanics

 CHLORITE SCHIST, CHLORITE-ACTINOLITE-BIOTITE SCHIST

 SHOWING

 QUARTZ VEIN

 FAULT

 FOLIATION

 SAMPLE LOCATION

WOLVERINE MINERALS CORP.

FINLAYSON PROJECT
WATSON LAKE MINING DIVISION, YUKON

4C PROPERTY
GEOLOGY MAP
UTM ZONE 9, NAD 83

SCALE: AS SHOWN

DATE: AUGUST, 2011

DRAWN BY: GB

FIGURE: 1

Sample No	Location NAD 83	Material	Host Rock	Type	Description
K975238	9 V 437188 6767928	outcrop	grey pyritic schist	grab	leached, gossanous, siliceous phyllite
K975239	9 V 437188 6767928	outcrop	grey pyritic schist	grab	phyllite with grey quartz laminations with disseminated pyrite
K975240	9 V 437187 6768118	outcrop	phyllite	grab	bleached altered (quartz-carbonate) phyllite with disseminated pyrite
K975241	9 V 436784 6767206	suboutcrop	vein quartz and silicification	grab	vein quartz, silicified host, silicified breccia; fair to locally abundant brown and orange-brown limonite; local traces of py and cpy.
K975242	9 V 436677 6767152	float	vein quartz	grab	old sample ribbon; quartz with green hue
K975243	9 V 436679 6767162	float	vein quartz	grab	5 by 15 cm block of fine-grained quartz; uniform light green color
K975244	9 V 436709 6767143	float	vein quartz and silicification	grab	vuggy quartz and silicified breccia; limonitic boxworks

APPENDIX III

ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions			Project: <u>Finlayson</u>		Property: <u>4C</u>	
Sample Number:	Grid East:	E	Grid North:	N	Type: grab	Dimension:
K975238	UTM: 437188	E	UTM: 6767928	N	Sample Width:	Abundance:
	Elevation:	m				
Comments:	leached, gossanous, siliceous phyllite with grey pyritic schist					
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K975239	UTM: 437188	E	UTM: 6767928	N	Sample Width:	Abundance:
	Elevation:	m				
Comments:	phyllite with grey quartz laminations with disseminated pyrite with grey pyritic schist					
Sample Number:	Grid East:	E	Grid North:	N	Type: grab	Dimension:
K975240	UTM: 437187	E	UTM: 6768118	N	Sample Width:	Abundance:
	Elevation:	m				
Comments:	bleached altered (quartz-carbonate) phyllite with disseminated pyrite					
Sample Number:	Grid East:	E	Grid North:	N	Type: grab	Dimension:
K975241	UTM: 436784	E	UTM: 6767206	N	Sample Width:	Abundance:
	Elevation:	m				
Comments:	vein quartz, silicified host, silicified breccia; fair to locally abundant brown and orange-brown limonite; local traces of py and cpy.					

Rock Sample Descriptions			Project: <u>Finlayson</u>		Property: <u>4C</u>	
Sample Number:	Grid East:	E	Grid North:	N	Type: grab	Dimension:
K975242	UTM: 436677	E	UTM: 6767152	N	Sample Width:	Abundance:
	Elevation:	m				
Comments:	old sample ribbon; quartz with green hue					
Sample Number:	Grid East:	E	Grid North:	N	Type: grab	Dimension:
K975243	UTM: 436679	E	UTM: 6767162	N	Sample Width:	Abundance:
	Elevation:	m				
Comments:	5 by 15 cm block of fine-grained quartz; uniform light green color					
Sample Number:	Grid East:	E	Grid North:	N	Type: grab	Dimension:
K975244	UTM: 436709	E	UTM: 6767143	N	Sample Width:	Abundance:
	Elevation:	m				
Comments:	vuggy quartz and silicified breccia; limonitic boxworks					

APPENDIX IV
CERTIFICATE OF ANALYSIS



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Account: F

CERTIFICATE WH11158205

Project: Wolverine - 4C West

P.O. No.:

This report is for 179 Soil samples submitted to our lab in Whitehorse, YT, Canada on 15- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

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

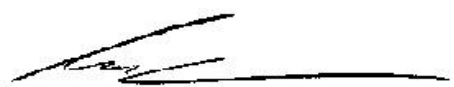
ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Account: F

Project: Wolverine - 4C West

CERTIFICATE OF ANALYSIS WH11158205

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC152421		0.20	0.003	<0.2	1.44	8	<10	260	1.1	<2	0.27	<0.5	11	48	51	3.65
CC152422		0.36	0.004	0.3	1.96	4	<10	600	2.5	<2	0.31	<0.5	17	65	122	3.86
CC152423		0.22	0.016	0.5	1.68	8	<10	850	2.7	<2	0.34	<0.5	19	64	109	5.00
CC152424		0.26	0.010	0.4	1.76	26	<10	740	3.0	<2	0.23	0.6	15	60	75	5.00
CC152425		0.22	0.009	0.8	1.18	32	<10	300	1.9	<2	0.13	<0.5	9	41	47	3.66
CC152426		0.20	0.003	0.6	1.90	6	<10	120	3.2	<2	0.26	<0.5	8	47	31	3.76
CC152427		0.34	0.007	0.7	2.69	12	<10	530	4.9	<2	0.58	<0.5	20	44	75	5.72
CC152428		0.24	0.008	0.4	1.39	5	<10	140	2.9	<2	0.18	<0.5	4	11	18	3.28
CC152429		0.22	0.028	0.2	2.25	21	<10	390	3.4	2	0.26	<0.5	11	43	34	4.87
CC152430		0.20	0.013	0.3	2.04	10	<10	430	3.0	<2	0.30	<0.5	12	26	39	4.57
CC152431		0.36	0.011	0.4	2.63	21	<10	750	3.7	2	0.21	<0.5	10	27	33	4.89
CC152432		0.30	0.005	0.4	2.24	6	<10	340	1.5	2	0.17	<0.5	10	53	65	4.26
CC152433		0.18	0.003	0.2	2.79	5	<10	500	2.6	<2	0.11	<0.5	8	33	48	3.95
CC152434		0.28	0.004	0.2	1.73	2	<10	110	<0.5	2	0.16	<0.5	6	52	29	3.11
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CC152436		0.24	0.012	0.6	1.41	13	<10	1360	1.9	<2	0.06	0.5	15	25	104	5.12
CC152437		0.26	0.014	0.9	1.17	5	<10	1560	0.6	<2	0.05	<0.5	6	25	66	5.07
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CC152441		0.24	0.002	<0.2	2.10	3	<10	210	0.8	<2	0.07	<0.5	7	58	24	3.34
CC152442		0.24	0.004	<0.2	0.50	2	<10	100	<0.5	<2	0.05	<0.5	3	27	18	1.84
CC152443		0.18	0.001	0.2	0.86	2	<10	90	<0.5	2	0.06	<0.5	2	18	10	1.48
CC152444		0.16	0.004	0.2	0.96	2	<10	430	<0.5	2	0.05	<0.5	2	23	27	4.06
CC152445		0.24	0.001	0.5	0.80	2	<10	130	<0.5	2	0.03	<0.5	<1	11	8	1.02
CC152446		0.20	0.002	<0.2	0.65	4	<10	150	<0.5	<2	0.02	<0.5	2	16	6	1.27
CC152447		0.20	0.003	<0.2	0.92	4	<10	130	<0.5	<2	0.04	<0.5	4	49	14	2.51
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CC152449		0.38	0.003	<0.2	1.28	3	<10	430	0.8	2	0.13	<0.5	21	307	15	3.37
CC152450		0.24	0.005	0.2	1.76	5	<10	450	1.1	<2	0.19	<0.5	17	241	27	3.69
ZZ05011		0.34	0.005	0.3	2.43	3	<10	1010	1.3	2	0.19	<0.5	17	74	107	4.42
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ZZ05015		0.30	0.003	0.2	1.35	7	<10	290	2.0	<2	0.08	<0.5	7	32	36	3.24
ZZ05016		0.28	0.002	0.2	1.21	9	<10	120	1.3	<2	0.06	<0.5	3	16	16	2.62
ZZ05017		0.40	<0.001	0.2	1.46	9	<10	130	1.9	2	0.08	<0.5	5	11	13	2.72
ZZ05018		0.44	0.004	0.2	2.38	7	<10	70	2.0	<2	0.07	<0.5	4	22	15	3.00
ZZ05019		0.42	0.004	0.2	1.40	3	<10	120	1.2	<2	0.04	<0.5	3	14	10	2.83
ZZ05020		0.36	0.002	<0.2	1.11	7	<10	140	0.9	<2	0.02	<0.5	5	14	10	3.33



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Plus Appendix Pages
Finalized Date: 3- OCT- 2011
Account: F

Project: Wolverine - 4C West

CERTIFICATE OF ANALYSIS WH11158205

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC152421		10	<1	0.11	10	0.44	683	2	0.02	31	750	21	0.08	<2	3	17
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CC152423		10	1	0.30	30	0.71	1905	2	0.02	73	840	26	0.09	<2	12	30
CC152424		10	<1	0.30	50	0.69	1420	4	0.01	56	750	38	0.06	<2	9	19
CC152425		10	<1	0.14	40	0.32	731	4	0.02	35	830	54	0.10	3	3	20
CC152426		10	1	0.19	70	0.65	964	4	0.02	36	590	53	0.05	<2	5	18
CC152427		10	1	0.43	80	1.20	1665	6	0.02	82	1070	28	0.05	<2	9	22
CC152428		10	1	0.18	50	0.43	679	2	0.03	10	570	42	0.07	<2	3	10
CC152429		10	<1	0.50	50	0.95	1200	2	0.03	35	560	36	0.09	<2	8	16
CC152430		10	1	0.46	60	0.81	1240	2	0.04	40	740	40	0.08	<2	7	19
CC152431		10	1	0.72	60	1.01	1935	1	0.03	25	790	51	0.03	3	12	14
CC152432		10	1	0.31	20	0.81	658	2	0.03	50	970	35	0.11	<2	5	21
CC152433		10	1	0.38	30	0.84	656	2	0.03	46	660	15	0.07	<2	4	16
CC152434		10	1	0.04	10	0.36	318	<1	0.04	22	530	7	0.06	<2	2	8
CC152435		10	<1	0.11	10	0.11	1300	3	0.03	19	870	42	0.07	2	1	8
CC152436		<10	<1	0.15	20	0.22	2870	5	0.03	53	890	38	0.08	<2	3	12
CC152437		10	<1	0.18	10	0.15	1395	5	0.04	24	770	23	0.12	<2	2	23
CC152438		10	<1	0.15	10	0.10	626	2	0.04	15	820	72	0.15	<2	1	20
CC152439		<10	1	0.33	40	0.42	1585	7	0.03	38	650	46	0.10	<2	4	19
CC152440		<10	1	0.04	10	0.07	98	1	0.04	5	430	3	0.05	<2	<1	7
CC152441		10	<1	0.15	10	0.68	472	1	0.03	35	310	11	0.05	<2	2	12
CC152442		10	<1	0.05	10	0.11	140	1	0.03	14	240	10	0.03	<2	1	6
CC152443		10	1	0.08	10	0.20	172	1	0.03	7	220	13	0.03	<2	1	6
CC152444		10	<1	0.10	10	0.22	313	2	0.03	16	610	19	0.07	<2	2	11
CC152445		10	1	0.05	10	0.09	85	1	0.03	3	370	13	0.03	<2	<1	7
CC152446		10	<1	0.05	10	0.09	120	1	0.03	7	210	12	0.03	<2	1	6
CC152447		10	<1	0.07	10	0.21	435	2	0.02	22	410	17	0.03	<2	2	8
CC152448		10	1	0.08	10	0.42	227	<1	0.03	26	340	13	0.03	<2	3	8
CC152449		<10	<1	0.10	10	1.83	495	<1	0.03	255	320	13	0.03	<2	3	13
CC152450		10	1	0.09	20	1.96	409	2	0.03	235	410	18	0.04	<2	3	15
ZZ05011		10	1	0.49	20	1.00	1760	<1	0.04	65	670	14	0.04	<2	10	15
ZZ05012		10	1	0.60	10	1.19	936	<1	0.04	67	480	15	0.04	<2	8	11
ZZ05013		10	1	0.48	10	0.81	998	<1	0.04	55	900	9	0.04	<2	7	9
ZZ05014		10	1	0.56	20	1.02	963	<1	0.04	63	810	15	0.09	<2	8	12
ZZ05015		<10	1	0.18	40	0.45	932	2	0.03	26	490	14	0.06	<2	3	12
ZZ05016		10	1	0.20	20	0.36	405	2	0.03	13	500	13	0.07	<2	1	7
ZZ05017		10	1	0.26	40	0.47	630	1	0.03	10	570	12	0.06	<2	2	7
ZZ05018		10	1	0.18	30	0.49	364	<1	0.03	13	510	11	0.06	<2	2	7
ZZ05019		10	<1	0.35	20	0.43	611	1	0.03	7	450	8	0.06	<2	1	6
ZZ05020		10	<1	0.26	10	0.29	987	2	0.03	7	430	19	0.06	<2	2	7



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
CC152421		<20	0.06	<10	<10	65	<10	135
CC152422		<20	0.08	<10	<10	82	<10	134
CC152423		<20	0.10	<10	<10	109	<10	190
CC152424		<20	0.09	<10	<10	88	<10	189
CC152425		<20	0.04	<10	<10	66	<10	123
CC152426		<20	0.08	<10	<10	47	<10	148
CC152427		<20	0.13	<10	<10	97	<10	151
CC152428		<20	0.05	<10	<10	24	<10	84
CC152429		<20	0.14	<10	<10	60	<10	158
CC152430		<20	0.13	<10	<10	59	<10	140
CC152431		20	0.19	<10	<10	65	<10	123
CC152432		<20	0.16	<10	<10	127	<10	67
CC152433		<20	0.11	<10	<10	69	<10	71
CC152434		<20	0.10	<10	<10	74	<10	38
CC152435		<20	0.07	<10	<10	88	<10	140
CC152436		<20	0.05	<10	<10	72	<10	345
CC152437		<20	0.07	<10	<10	80	<10	116
CC152438		<20	0.07	<10	<10	119	<10	119
CC152439		20	0.05	<10	<10	42	<10	141
CC152440		<20	0.03	<10	<10	21	<10	16
CC152441		<20	0.11	<10	<10	57	<10	79
CC152442		<20	0.14	<10	<10	83	<10	37
CC152443		<20	0.09	<10	<10	43	<10	22
CC152444		<20	0.12	<10	<10	97	<10	64
CC152445		<20	0.03	<10	<10	28	<10	15
CC152446		<20	0.08	<10	<10	53	<10	23
CC152447		<20	0.12	<10	<10	77	<10	47
CC152448		<20	0.09	<10	<10	42	<10	45
CC152449		<20	0.08	<10	<10	41	<10	91
CC152450		<20	0.08	<10	<10	44	<10	112
ZZ05011		<20	0.18	<10	<10	135	<10	133
ZZ05012		<20	0.20	<10	<10	89	<10	119
ZZ05013		<20	0.14	<10	<10	83	<10	98
ZZ05014		<20	0.18	<10	<10	98	<10	123
ZZ05015		<20	0.05	<10	<10	39	<10	93
ZZ05016		<20	0.05	<10	<10	28	<10	78
ZZ05017		<20	0.07	<10	<10	23	<10	86
ZZ05018		<20	0.09	<10	<10	28	<10	72
ZZ05019		<20	0.09	<10	<10	30	<10	63
ZZ05020		<20	0.10	<10	<10	39	<10	69



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North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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CERTIFICATE OF ANALYSIS WH11158205

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ05021		0.36	0.002	<0.2	1.18	12	<10	160	1.2	<2	0.02	<0.5	5	13	11	3.51
ZZ05022		0.34	0.003	0.2	1.15	10	<10	130	1.2	<2	0.02	<0.5	4	15	14	3.27
ZZ05023		0.30	0.001	0.3	1.16	6	<10	180	1.5	<2	0.03	<0.5	4	16	19	2.93
ZZ05024		0.38	0.003	0.2	1.63	10	<10	410	1.6	3	0.06	<0.5	5	19	21	3.32
ZZ05025		0.48	0.006	0.3	1.61	8	<10	2050	1.3	4	0.13	<0.5	12	28	58	4.07
ZZ05026		0.38	0.005	0.4	1.47	5	<10	1480	1.6	3	0.09	<0.5	10	24	108	4.81
ZZ05027		0.32	0.004	0.4	1.46	6	<10	230	1.1	3	0.08	<0.5	5	21	22	3.38
ZZ05028		0.52	0.002	0.2	1.57	4	<10	120	1.3	2	0.06	<0.5	4	18	15	3.06
ZZ05029		0.24	0.003	0.2	1.16	2	<10	100	0.9	3	0.06	0.5	4	12	13	2.39
ZZ05030		0.40	0.001	<0.2	1.80	4	<10	320	2.1	3	0.11	1.0	8	24	16	3.24
ZZ05031		0.24	0.001	0.3	1.93	4	<10	240	2.2	3	0.11	1.1	6	21	13	3.01
ZZ05032		0.30	0.005	0.2	1.61	5	<10	1870	1.6	3	0.11	1.2	11	25	45	4.35
ZZ05033		0.34	0.005	0.3	2.02	6	<10	1960	2.2	2	0.14	0.9	14	33	63	5.06
ZZ05034		0.26	0.002	0.5	1.34	6	<10	1970	0.9	3	0.05	0.7	6	29	39	3.85
ZZ05035		0.36	0.011	0.5	1.47	<2	<10	2200	1.7	5	0.02	0.5	13	26	152	6.66
ZZ05036		0.34	0.019	<0.2	1.49	5	<10	2510	1.1	4	0.08	0.6	20	29	73	3.39
ZZ05037		0.22	0.003	<0.2	0.90	3	<10	1670	0.6	3	0.03	<0.5	8	28	47	3.21
ZZ05038		0.28	0.012	<0.2	0.81	3	<10	1590	0.5	3	0.02	<0.5	5	29	40	3.27
ZZ05039		0.40	0.005	0.2	0.91	3	<10	890	0.5	3	0.01	<0.5	4	30	42	3.55
ZZ05040		0.26	0.002	0.2	0.77	4	<10	690	<0.5	3	0.01	<0.5	4	22	30	3.05
ZZ05041		0.44	0.001	0.5	1.26	2	<10	1030	0.6	3	0.03	<0.5	4	28	35	3.80
ZZ05042		0.40	0.003	<0.2	1.20	2	<10	1460	0.5	2	0.05	0.7	8	127	31	4.01
ZZ05043		0.38	0.002	<0.2	0.86	4	<10	740	<0.5	2	0.02	<0.5	6	191	24	3.43
ZZ05044		0.28	0.011	0.2	1.59	29	<10	750	3.6	3	0.42	<0.5	19	82	88	5.32
ZZ05045		0.56	0.010	0.2	0.77	22	<10	480	1.5	3	0.17	0.9	13	30	48	4.46
ZZ05046		0.46	0.033	0.8	0.59	77	<10	480	1.7	2	0.11	0.6	16	22	51	5.58
ZZ05047		0.30	0.063	1.0	0.85	41	<10	570	1.2	<2	0.15	<0.5	14	33	48	4.85
ZZ05048		0.50	0.012	0.3	1.12	23	<10	360	2.4	<2	0.16	0.8	7	13	26	4.38
ZZ05049		0.38	0.004	<0.2	1.32	5	<10	260	3.3	<2	0.26	0.5	8	3	10	3.40
ZZ05050		0.40	0.002	<0.2	1.56	4	<10	370	3.4	2	0.12	<0.5	8	3	8	2.96
ZZ05211		0.32	0.002	0.3	1.87	4	<10	240	1.0	2	0.03	<0.5	7	28	32	2.92
ZZ05212		0.14	0.001	<0.2	0.51	3	<10	120	<0.5	4	0.01	<0.5	7	180	11	2.17
ZZ05213		0.24	<0.001	<0.2	1.58	4	<10	200	0.7	4	0.02	<0.5	4	17	21	3.00
ZZ05214		0.22	0.001	<0.2	1.17	6	<10	130	0.6	4	0.02	<0.5	4	38	15	2.27
ZZ05215		0.14	0.002	<0.2	0.80	3	<10	190	<0.5	2	0.03	<0.5	13	544	13	4.96
ZZ05216		0.18	0.004	<0.2	1.80	<2	<10	320	0.8	2	0.06	<0.5	11	83	60	2.93
ZZ05217		0.32	0.002	<0.2	3.92	2	<10	1310	1.5	<2	0.11	<0.5	24	187	65	5.57
ZZ05218		0.22	0.004	<0.2	0.61	3	<10	250	0.8	3	0.02	<0.5	12	42	63	3.64
ZZ05219		0.30	0.010	0.2	2.69	3	<10	620	1.6	2	0.06	<0.5	8	78	43	4.61
ZZ05220		0.28	0.012	0.4	1.55	13	<10	150	2.5	<2	0.09	0.5	7	17	19	3.21



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ05021		10	1	0.31	10	0.33	466	2	0.03	8	380	18	0.04	<2	3	6
ZZ05022		10	1	0.32	10	0.34	382	2	0.03	10	460	15	0.05	<2	2	6
ZZ05023		10	1	0.16	20	0.23	531	1	0.03	13	560	18	0.07	<2	1	8
ZZ05024		10	1	0.25	20	0.44	317	1	0.01	17	490	19	0.05	3	2	7
ZZ05025		10	1	0.17	10	0.31	1485	2	0.01	30	1020	86	0.08	5	2	18
ZZ05026		10	1	0.21	20	0.26	1145	2	0.01	42	950	71	0.16	2	2	33
ZZ05027		10	1	0.26	10	0.44	445	1	0.01	16	600	23	0.04	2	2	7
ZZ05028		10	1	0.19	20	0.41	312	1	0.01	12	380	13	0.02	4	2	6
ZZ05029		10	1	0.18	10	0.28	405	1	0.01	8	590	22	0.03	3	1	6
ZZ05030		10	1	0.36	20	0.56	945	<1	0.01	14	670	12	0.04	3	2	9
ZZ05031		10	1	0.36	20	0.57	534	<1	0.01	13	680	14	0.05	<2	2	9
ZZ05032		10	1	0.27	20	0.42	1225	2	0.01	28	930	173	0.12	2	2	28
ZZ05033		10	1	0.23	10	0.47	1280	3	0.02	44	1180	169	0.18	<2	2	34
ZZ05034		10	1	0.21	10	0.24	427	2	0.01	22	940	36	0.19	3	1	33
ZZ05035		<10	<1	0.11	10	0.20	921	3	0.01	28	1160	37	0.12	3	5	31
ZZ05036		10	1	0.10	10	0.32	1220	1	0.01	36	770	15	0.07	4	2	53
ZZ05037		10	1	0.11	10	0.16	1510	1	0.01	20	920	21	0.10	2	1	28
ZZ05038		10	<1	0.11	10	0.15	769	1	0.01	17	690	17	0.08	3	1	23
ZZ05039		10	1	0.09	10	0.14	384	1	0.01	19	690	16	0.08	5	1	20
ZZ05040		10	1	0.10	10	0.14	598	1	0.01	14	730	16	0.06	2	1	15
ZZ05041		10	1	0.11	10	0.24	451	2	0.01	20	810	23	0.06	2	2	17
ZZ05042		10	1	0.13	10	0.34	590	1	0.01	61	690	28	0.05	<2	2	19
ZZ05043		10	1	0.07	10	0.16	261	1	0.01	76	660	20	0.04	<2	1	13
ZZ05044		10	1	0.26	30	0.73	1630	1	0.01	88	820	14	0.04	7	11	41
ZZ05045		<10	1	0.25	40	0.30	1410	2	0.01	40	570	41	0.06	4	7	23
ZZ05046		<10	1	0.24	30	0.19	1555	4	0.01	38	610	100	0.18	15	8	36
ZZ05047		<10	1	0.31	40	0.35	1015	4	0.02	36	710	85	0.17	11	7	36
ZZ05048		10	<1	0.33	90	0.37	822	4	0.01	16	530	39	0.13	3	6	23
ZZ05049		10	1	0.33	100	0.34	1095	2	0.02	5	560	18	0.04	4	7	12
ZZ05050		10	1	0.53	80	0.60	1165	3	0.01	6	360	18	<0.01	2	5	7
ZZ05211		10	1	0.09	20	0.68	409	3	0.01	26	350	19	0.01	4	4	7
ZZ05212		10	1	0.04	10	0.27	534	1	0.01	80	400	4	<0.01	2	1	3
ZZ05213		10	<1	0.07	10	0.37	352	1	0.01	14	490	12	0.01	2	3	6
ZZ05214		10	1	0.08	10	0.28	259	1	0.01	19	360	11	<0.01	3	2	5
ZZ05215		10	1	0.04	10	0.51	375	1	0.01	194	500	8	0.01	2	2	7
ZZ05216		10	<1	0.17	10	0.79	920	<1	0.01	47	420	8	0.02	3	5	6
ZZ05217		20	<1	1.04	10	1.90	1720	<1	0.02	121	750	12	0.01	<2	12	5
ZZ05218		<10	1	0.08	10	0.12	927	1	0.01	45	640	14	0.03	<2	4	26
ZZ05219		10	1	0.90	40	1.09	584	2	0.02	37	690	18	0.27	<2	8	16
ZZ05220		10	<1	0.11	30	0.38	617	3	0.01	19	410	15	0.03	<2	3	9



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North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ05021		<20	0.08	<10	<10	43	<10	80
ZZ05022		<20	0.08	<10	<10	40	<10	74
ZZ05023		<20	0.05	<10	<10	48	<10	69
ZZ05024		<20	0.07	<10	<10	40	<10	89
ZZ05025		<20	0.05	<10	<10	62	<10	154
ZZ05026		<20	0.05	<10	<10	74	<10	208
ZZ05027		<20	0.08	<10	<10	47	<10	87
ZZ05028		<20	0.08	<10	<10	36	<10	68
ZZ05029		<20	0.06	<10	<10	34	<10	60
ZZ05030		<20	0.09	<10	<10	43	<10	114
ZZ05031		<20	0.10	<10	<10	38	<10	113
ZZ05032		<20	0.09	<10	<10	77	<10	350
ZZ05033		<20	0.07	<10	<10	111	<10	442
ZZ05034		<20	0.06	<10	<10	87	<10	107
ZZ05035		<20	0.04	<10	<10	93	<10	223
ZZ05036		<20	0.05	<10	<10	59	<10	141
ZZ05037		<20	0.04	<10	<10	74	<10	63
ZZ05038		<20	0.06	<10	<10	92	<10	52
ZZ05039		<20	0.04	<10	<10	84	<10	58
ZZ05040		<20	0.06	<10	<10	82	<10	44
ZZ05041		<20	0.07	<10	<10	83	<10	67
ZZ05042		<20	0.08	<10	<10	102	<10	120
ZZ05043		<20	0.07	<10	<10	87	<10	64
ZZ05044		<20	0.09	<10	<10	100	<10	155
ZZ05045		<20	0.05	<10	<10	46	<10	184
ZZ05046		<20	0.02	<10	<10	46	<10	224
ZZ05047		<20	0.05	<10	<10	51	<10	132
ZZ05048		30	0.05	<10	<10	29	<10	149
ZZ05049		30	0.06	<10	<10	18	<10	83
ZZ05050		30	0.10	<10	<10	14	<10	85
ZZ05211		<20	0.08	<10	<10	41	<10	74
ZZ05212		<20	0.04	<10	<10	26	<10	30
ZZ05213		<20	0.08	<10	<10	37	<10	68
ZZ05214		<20	0.08	<10	<10	35	<10	62
ZZ05215		<20	0.12	<10	<10	79	<10	51
ZZ05216		<20	0.10	<10	<10	82	<10	91
ZZ05217		<20	0.31	<10	<10	162	<10	183
ZZ05218		<20	0.02	<10	<10	65	<10	127
ZZ05219		<20	0.20	<10	<10	96	<10	156
ZZ05220		<20	0.05	<10	<10	29	<10	131



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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS WH11158205

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
ZZ05221		0.14	0.003	0.3	1.13	12	<10	90	1.3	<2	0.08	<0.5	3	13	13	3.14
ZZ05222		0.18	0.003	0.2	1.97	9	<10	130	2.1	<2	0.06	<0.5	5	10	12	3.29
ZZ05223		0.20	0.009	0.3	1.91	9	<10	110	2.6	<2	0.07	<0.5	5	13	13	3.40
ZZ05224		0.14	0.002	<0.2	3.00	3	<10	110	4.1	<2	0.17	<0.5	29	202	18	4.96
ZZ05225		0.16	0.001	0.2	1.40	4	<10	90	1.7	<2	0.04	<0.5	6	26	11	3.59
ZZ05226		0.24	0.003	<0.2	1.04	2	<10	100	1.0	<2	0.03	<0.5	4	13	10	2.87
ZZ05227		0.16	0.001	0.2	0.53	<2	<10	190	0.6	<2	0.03	<0.5	5	11	6	1.08
ZZ05228		0.16	0.005	<0.2	1.95	18	<10	220	3.1	<2	0.14	<0.5	6	22	12	3.79
ZZ05229		0.22	0.003	<0.2	1.46	4	<10	100	1.1	<2	0.05	<0.5	5	30	12	3.19
ZZ05230		0.18	0.002	0.2	2.62	3	<10	280	2.8	<2	0.13	<0.5	12	52	18	4.87
ZZ05231		0.16	0.005	0.4	1.49	3	<10	180	1.3	<2	0.07	<0.5	5	14	13	3.48
ZZ05232		0.18	0.004	0.2	1.68	6	<10	210	1.9	<2	0.08	<0.5	6	15	12	4.45
ZZ05233		0.20	0.002	0.2	1.51	2	<10	130	1.4	<2	0.07	<0.5	5	17	11	3.27
ZZ05234		0.22	0.004	<0.2	1.05	3	<10	70	0.7	<2	0.03	<0.5	3	10	11	2.57
ZZ05235		0.20	0.004	<0.2	1.55	3	<10	130	1.6	<2	0.08	<0.5	6	18	12	3.02
ZZ05236		0.14	0.002	0.2	1.29	2	<10	100	1.1	<2	0.07	<0.5	4	22	11	3.00
ZZ05237		0.16	<0.001	<0.2	1.17	22	<10	100	1.1	<2	0.04	0.8	4	15	11	2.55
ZZ05238		0.14	<0.001	0.3	2.52	8	<10	260	3.1	<2	0.19	0.5	9	27	15	3.22
ZZ05239		0.18	<0.001	<0.2	1.94	<2	<10	150	1.2	<2	0.06	<0.5	5	17	10	3.66
ZZ05240		0.20	<0.001	<0.2	1.82	5	<10	180	1.5	<2	0.08	<0.5	5	20	12	3.34
ZZ05241		0.18	0.001	0.4	3.22	6	<10	230	2.8	<2	0.21	<0.5	19	45	24	5.46
ZZ05242		0.24	<0.001	0.3	2.14	3	<10	170	2.1	<2	0.10	<0.5	8	21	14	3.85
ZZ05243		0.28	<0.001	0.2	2.86	4	<10	220	2.4	<2	0.14	<0.5	11	32	19	5.13
ZZ05244		0.28	0.014	0.2	2.70	5	<10	320	2.5	<2	0.17	0.5	11	29	22	4.97
ZZ05245		0.18	<0.001	0.2	0.83	<2	<10	680	0.5	2	0.03	<0.5	4	18	22	2.18
ZZ05246		0.20	0.001	0.4	1.40	5	<10	1480	1.1	<2	0.07	<0.5	9	26	37	3.29
ZZ05247		0.22	0.004	0.7	1.54	4	<10	2540	1.0	<2	0.06	<0.5	9	29	48	3.47
ZZ05248		0.24	0.001	0.4	1.44	3	<10	2430	0.7	<2	0.04	<0.5	5	27	39	3.40
ZZ05249		0.20	0.004	0.3	1.05	6	<10	1970	0.6	<2	0.03	<0.5	5	36	44	3.72
ZZ05250		0.18	0.003	0.2	0.92	3	<10	1920	0.6	<2	0.03	<0.5	2	22	46	3.20
ZZ05531		0.16	<0.001	<0.2	0.94	4	<10	130	0.7	<2	0.04	<0.5	4	13	15	2.80
ZZ05532		0.20	<0.001	0.2	0.73	3	<10	170	0.5	2	0.07	<0.5	4	12	21	2.72
ZZ05533		0.16	<0.001	<0.2	0.51	6	<10	210	0.5	<2	0.02	<0.5	3	13	25	3.36
ZZ05534		0.22	<0.001	<0.2	1.26	5	<10	160	1.3	<2	0.09	<0.5	9	33	33	3.23
ZZ05535		0.22	0.012	0.2	0.98	5	<10	180	0.6	<2	0.03	<0.5	4	16	28	3.17
ZZ05536		0.22	<0.001	0.4	1.77	5	<10	460	2.5	<2	0.07	0.5	12	25	25	3.60
ZZ05537		0.20	0.003	0.3	1.17	5	<10	950	0.8	<2	0.05	<0.5	6	36	45	3.63
ZZ05538		0.18	0.001	0.2	1.05	7	<10	290	0.8	<2	0.05	<0.5	5	19	38	3.32
ZZ05539		0.18	0.004	0.3	0.82	3	<10	640	0.6	<2	0.05	<0.5	8	17	51	3.43
ZZ05540		0.20	0.007	0.2	1.29	3	<10	520	0.9	<2	0.07	<0.5	6	20	48	3.17



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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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CERTIFICATE OF ANALYSIS WH11158205

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ05221		10	<1	0.23	20	0.33	381	2	0.01	9	410	10	0.04	<2	2	6
ZZ05222		10	<1	0.35	20	0.64	364	2	0.01	8	370	10	0.03	<2	4	6
ZZ05223		10	<1	0.31	20	0.61	429	2	0.01	9	360	23	0.04	2	4	7
ZZ05224		10	<1	0.80	30	1.66	814	1	0.01	73	300	8	0.02	2	16	8
ZZ05225		10	<1	0.31	20	0.41	693	3	<0.01	12	390	12	0.02	2	3	7
ZZ05226		10	<1	0.32	10	0.37	265	2	0.01	8	310	9	0.02	<2	3	6
ZZ05227		<10	<1	0.07	20	0.07	2920	2	0.01	7	800	4	0.09	<2	<1	6
ZZ05228		10	1	0.28	50	0.68	408	2	0.01	13	430	9	0.04	<2	4	9
ZZ05229		10	<1	0.28	10	0.38	719	1	0.01	10	580	9	0.05	<2	2	7
ZZ05230		10	<1	0.45	40	1.11	774	2	0.01	23	440	9	0.04	<2	7	9
ZZ05231		10	1	0.36	10	0.45	590	2	0.01	9	640	11	0.05	<2	2	6
ZZ05232		10	<1	0.45	20	0.53	506	2	0.01	9	460	9	0.04	<2	4	6
ZZ05233		10	<1	0.25	20	0.43	450	2	0.01	10	670	12	0.06	<2	1	8
ZZ05234		10	<1	0.21	10	0.26	308	2	<0.01	7	530	8	0.06	<2	1	5
ZZ05235		10	<1	0.27	20	0.47	489	1	<0.01	10	440	13	0.04	<2	2	7
ZZ05236		10	<1	0.32	10	0.46	357	2	0.01	10	480	9	0.05	<2	3	7
ZZ05237		10	<1	0.27	10	0.33	773	2	<0.01	11	570	15	0.06	<2	1	6
ZZ05238		10	<1	0.37	20	0.84	439	1	0.01	21	540	8	0.04	<2	5	15
ZZ05239		20	<1	0.56	10	0.79	343	2	0.01	9	610	10	0.04	<2	4	10
ZZ05240		10	<1	0.47	10	0.66	572	2	0.01	12	570	10	0.03	<2	4	8
ZZ05241		20	<1	0.91	20	1.19	751	2	0.01	35	740	12	0.06	<2	9	19
ZZ05242		10	<1	0.59	20	0.77	409	2	0.01	14	460	7	0.05	<2	5	10
ZZ05243		20	<1	0.67	20	1.00	512	2	0.01	21	780	26	0.06	<2	7	11
ZZ05244		10	<1	0.65	30	1.00	525	2	0.01	22	820	16	0.07	<2	8	13
ZZ05245		10	<1	0.09	10	0.09	787	2	<0.01	11	820	19	0.09	<2	<1	14
ZZ05246		10	<1	0.16	10	0.30	868	3	0.03	26	960	41	0.11	<2	2	23
ZZ05247		<10	1	0.10	10	0.25	614	2	0.03	26	920	43	0.12	<2	1	26
ZZ05248		10	<1	0.09	20	0.24	483	2	0.03	23	800	32	0.12	<2	1	29
ZZ05249		10	<1	0.08	10	0.15	445	2	0.03	20	730	29	0.12	<2	1	27
ZZ05250		<10	1	0.11	10	0.13	250	1	0.03	17	570	26	0.13	<2	1	29
ZZ05531		10	<1	0.28	10	0.28	706	1	0.01	9	500	16	0.04	<2	2	5
ZZ05532		10	<1	0.14	10	0.13	841	1	0.02	10	640	15	0.03	<2	2	6
ZZ05533		10	<1	0.10	10	0.07	266	3	0.01	13	440	18	0.03	<2	1	6
ZZ05534		10	1	0.15	10	0.42	459	<1	0.02	22	690	14	0.03	2	3	6
ZZ05535		10	1	0.10	10	0.19	411	2	0.01	15	520	20	0.02	<2	1	6
ZZ05536		10	1	0.24	30	0.35	2010	1	0.01	15	1160	34	0.08	<2	1	10
ZZ05537		10	<1	0.09	10	0.31	611	<1	0.02	25	420	20	0.04	<2	4	7
ZZ05538		10	1	0.20	10	0.28	492	1	0.02	16	810	37	0.03	<2	4	8
ZZ05539		<10	<1	0.11	10	0.17	1775	2	0.02	24	730	41	0.03	<2	2	8
ZZ05540		<10	<1	0.14	10	0.24	1935	<1	0.02	20	700	30	0.03	<2	2	9



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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CERTIFICATE OF ANALYSIS WH11158205

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
ZZ05221		<20	0.09	<10	<10	28	<10
ZZ05222		<20	0.13	<10	<10	26	<10
ZZ05223		<20	0.13	<10	<10	33	<10
ZZ05224		<20	0.18	<10	<10	110	<10
ZZ05225		<20	0.13	<10	<10	46	<10
ZZ05226		<20	0.09	<10	<10	37	<10
ZZ05227		<20	0.01	<10	<10	17	<10
ZZ05228		<20	0.09	<10	<10	34	<10
ZZ05229		<20	0.09	<10	<10	44	<10
ZZ05230		<20	0.21	<10	<10	63	<10
ZZ05231		<20	0.07	<10	<10	37	<10
ZZ05232		<20	0.15	<10	<10	40	<10
ZZ05233		<20	0.05	<10	<10	36	<10
ZZ05234		<20	0.05	<10	<10	29	<10
ZZ05235		<20	0.10	<10	<10	37	<10
ZZ05236		<20	0.14	<10	<10	43	<10
ZZ05237		<20	0.10	<10	<10	41	<10
ZZ05238		<20	0.15	<10	<10	42	<10
ZZ05239		<20	0.24	<10	<10	57	<10
ZZ05240		<20	0.16	<10	<10	43	<10
ZZ05241		<20	0.27	<10	<10	96	<10
ZZ05242		<20	0.20	<10	<10	56	<10
ZZ05243		<20	0.26	<10	<10	83	<10
ZZ05244		<20	0.25	<10	<10	78	<10
ZZ05245		<20	0.03	<10	<10	54	<10
ZZ05246		<20	0.06	<10	<10	77	<10
ZZ05247		<20	0.04	<10	<10	65	<10
ZZ05248		<20	0.05	<10	<10	72	<10
ZZ05249		<20	0.05	<10	<10	75	<10
ZZ05250		<20	0.04	<10	<10	75	<10
ZZ05531		<20	0.09	<10	<10	38	<10
ZZ05532		<20	0.07	<10	<10	49	<10
ZZ05533		<20	0.03	<10	<10	56	<10
ZZ05534		<20	0.07	<10	<10	52	<10
ZZ05535		<20	0.06	<10	<10	49	<10
ZZ05536		<20	0.04	<10	<10	58	<10
ZZ05537		<20	0.09	<10	<10	72	<10
ZZ05538		<20	0.10	<10	<10	58	<10
ZZ05539		<20	0.05	<10	<10	53	<10
ZZ05540		<20	0.05	<10	<10	56	<10



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North Vancouver BC V7H 0A7
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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ05541		0.22	<0.001	<0.2	1.18	4	<10	780	1.0	<2	0.07	1.6	9	23	40	3.69
ZZ05542		0.24	0.002	<0.2	1.47	5	<10	970	1.3	<2	0.06	1.4	7	26	49	4.38
ZZ05543		0.24	0.001	0.2	0.98	5	<10	720	0.6	<2	0.14	0.5	8	29	48	3.88
ZZ05544		0.18	0.001	0.4	1.20	5	<10	2470	0.8	<2	0.06	<0.5	11	41	45	3.99
ZZ05545		0.20	0.003	0.4	1.43	<2	<10	1000	1.1	<2	0.07	<0.5	4	19	38	2.37
ZZ05546		0.16	0.002	0.3	1.19	5	<10	2460	1.1	<2	0.11	2.3	16	38	53	3.63
ZZ05547		0.32	0.003	0.3	1.33	7	<10	3540	1.7	<2	0.15	1.6	15	31	73	5.14
ZZ05548		0.24	0.007	0.4	1.35	5	<10	2710	1.6	<2	0.07	1.1	22	31	90	4.41
ZZ05549		0.30	0.002	0.3	1.05	4	<10	2630	1.1	<2	0.10	1.2	10	30	67	3.41
ZZ05550		0.32	0.002	0.2	1.10	5	<10	1660	1.3	<2	0.07	1.6	14	29	71	3.55
ZZ05551		0.36	0.003	<0.2	1.51	9	<10	1390	1.1	<2	0.06	<0.5	17	32	87	3.79
ZZ05552		0.22	<0.001	0.3	0.58	4	<10	740	<0.5	<2	0.03	<0.5	4	21	37	2.21
ZZ05553		0.26	0.004	0.3	1.51	7	<10	990	0.9	<2	0.06	<0.5	9	34	54	3.49
ZZ05554		0.26	0.002	0.4	1.23	3	<10	2000	0.8	<2	0.05	<0.5	7	30	50	3.35
ZZ05555		0.32	<0.001	<0.2	0.91	3	<10	350	<0.5	<2	0.04	<0.5	4	52	28	2.72
ZZ05556		0.20	<0.001	<0.2	0.84	3	<10	1800	<0.5	<2	0.02	<0.5	5	75	23	2.68
ZZ05557		0.24	<0.001	0.3	0.86	3	<10	820	<0.5	2	0.03	<0.5	4	36	28	2.71
ZZ05558		0.34	<0.001	<0.2	0.30	<2	<10	110	<0.5	<2	0.01	<0.5	73	1060	7	5.80
ZZ05559		0.24	0.001	<0.2	1.47	4	<10	780	1.6	<2	0.20	<0.5	20	75	81	4.54
ZZ05560		0.24	0.011	0.5	0.87	32	<10	550	1.4	<2	0.21	<0.5	14	29	43	4.75
ZZ05561		0.22	0.003	0.3	1.06	11	<10	420	1.0	<2	0.05	<0.5	8	24	40	3.87
ZZ05562		0.26	<0.001	0.2	0.91	8	<10	260	2.0	2	0.09	<0.5	6	5	23	3.75
ZZ05563		0.20	<0.001	0.4	2.10	28	<10	170	3.8	2	0.23	1.3	10	5	32	5.06
ZZ05564		0.24	<0.001	<0.2	1.92	3	<10	200	4.1	2	0.26	<0.5	7	8	10	3.67
ZZ05565		0.24	<0.001	<0.2	1.23	<2	<10	270	3.8	2	0.12	0.5	10	3	7	2.96
ZZ05566		0.24	<0.001	<0.2	1.73	6	<10	90	1.7	2	0.10	<0.5	8	18	12	3.33
ZZ05567		0.30	<0.001	<0.2	1.73	4	<10	150	2.5	4	0.09	<0.5	8	9	9	3.69
ZZ05568		0.26	<0.001	0.2	1.40	3	<10	140	2.3	3	0.05	<0.5	9	9	9	3.85
ZZ05569		0.32	0.002	0.3	1.76	7	<10	170	2.2	4	0.13	<0.5	8	18	12	2.72
ZZ05570		0.26	<0.001	<0.2	1.66	5	<10	170	2.3	3	0.06	<0.5	7	9	10	2.88
ZZ05571		0.18	0.002	0.2	1.85	10	<10	100	1.7	3	0.04	<0.5	4	7	11	3.38
ZZ05572		0.22	<0.001	0.3	1.42	6	<10	110	1.3	3	0.03	<0.5	4	10	9	2.89
ZZ05573		0.26	0.001	0.2	0.78	4	<10	90	1.0	2	0.03	<0.5	5	7	13	2.61
ZZ05574		0.28	<0.001	<0.2	1.46	4	<10	120	1.5	3	0.05	<0.5	5	13	9	2.67
ZZ05575		0.28	<0.001	0.3	0.89	3	<10	70	0.6	4	0.03	<0.5	4	11	8	2.18
ZZ05576		0.26	<0.001	0.4	1.54	4	<10	150	2.1	4	0.04	0.5	7	10	14	3.12
ZZ05577		0.48	0.002	0.3	2.33	6	<10	230	2.6	3	0.07	0.6	13	18	26	4.45
ZZ05578		0.26	<0.001	<0.2	1.86	4	<10	120	2.1	4	0.04	0.5	6	11	13	3.60
ZZ05579		0.26	<0.001	<0.2	1.43	5	<10	90	1.4	4	0.06	<0.5	6	18	11	2.54
ZZ05580		0.38	<0.001	<0.2	2.22	3	<10	220	2.6	2	0.16	<0.5	10	21	16	3.42



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CERTIFICATE OF ANALYSIS WH11158205

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
ZZ05541		10	<1	0.26	10	0.28	1480	1	0.02	21	750	28	0.06	<2	2
ZZ05542		10	<1	0.33	10	0.39	1175	<1	0.02	27	940	101	0.07	<2	2
ZZ05543		10	<1	0.12	10	0.17	1510	2	0.02	26	720	63	0.06	<2	1
ZZ05544		10	<1	0.13	10	0.28	1485	2	0.03	28	860	31	0.09	<2	1
ZZ05545		10	<1	0.12	10	0.32	321	<1	0.03	19	700	77	0.07	<2	1
ZZ05546		<10	<1	0.21	10	0.26	2270	<1	0.03	27	1370	99	0.16	<2	1
ZZ05547		<10	1	0.26	10	0.27	4860	3	0.04	40	790	40	0.12	<2	3
ZZ05548		<10	1	0.24	10	0.24	2550	1	0.03	43	1150	46	0.12	<2	2
ZZ05549		<10	<1	0.18	10	0.22	1520	<1	0.03	39	1020	23	0.13	<2	1
ZZ05550		<10	<1	0.15	10	0.17	2690	1	0.02	49	1150	32	0.11	<2	1
ZZ05551		10	1	0.14	10	0.31	926	<1	0.02	56	620	65	0.06	<2	2
ZZ05552		10	<1	0.11	10	0.08	518	<1	0.01	16	600	35	0.05	<2	<1
ZZ05553		10	<1	0.14	10	0.27	793	<1	0.02	30	810	45	0.06	<2	1
ZZ05554		<10	<1	0.12	10	0.22	898	<1	0.02	26	760	42	0.09	<2	1
ZZ05555		10	<1	0.07	10	0.18	352	<1	0.02	32	540	18	0.03	<2	1
ZZ05556		10	<1	0.08	10	0.16	758	1	0.02	39	460	20	0.07	<2	1
ZZ05557		10	<1	0.09	10	0.16	424	1	0.02	23	690	24	0.06	<2	2
ZZ05558		<10	<1	0.02	<10	6.11	827	<1	0.02	892	430	4	0.02	<2	2
ZZ05559		<10	<1	0.56	20	0.64	1620	<1	0.03	74	700	13	0.01	<2	13
ZZ05560		<10	<1	0.37	50	0.36	1050	2	0.03	30	740	29	0.23	3	7
ZZ05561		<10	<1	0.42	30	0.39	701	2	0.02	23	620	24	0.13	<2	6
ZZ05562		10	1	0.37	50	0.33	564	6	0.01	8	470	22	0.12	<2	5
ZZ05563		10	<1	0.59	100	0.70	1345	9	0.02	8	700	31	0.09	<2	5
ZZ05564		10	1	0.50	110	0.64	924	2	0.01	6	480	33	0.02	<2	7
ZZ05565		10	1	0.09	90	0.11	744	3	<0.01	5	430	18	0.01	<2	6
ZZ05566		10	1	0.17	20	0.49	290	1	0.01	13	490	14	0.02	<2	4
ZZ05567		10	1	0.48	20	0.59	777	3	0.01	6	530	8	0.04	<2	7
ZZ05568		10	1	0.29	20	0.36	779	4	0.01	6	550	9	0.04	<2	7
ZZ05569		10	<1	0.18	40	0.57	325	2	0.01	15	340	8	0.02	<2	3
ZZ05570		10	1	0.33	30	0.45	535	2	0.01	6	470	31	0.02	<2	4
ZZ05571		10	<1	0.24	20	0.43	223	2	0.01	4	250	33	0.02	<2	4
ZZ05572		10	1	0.24	10	0.41	246	2	0.01	5	350	9	0.04	<2	3
ZZ05573		<10	1	0.12	30	0.20	168	4	0.01	5	300	23	0.05	<2	3
ZZ05574		10	1	0.17	20	0.42	293	2	0.01	7	330	12	0.03	<2	2
ZZ05575		10	<1	0.13	10	0.22	215	2	0.01	5	580	7	0.06	<2	1
ZZ05576		10	1	0.35	30	0.39	378	2	0.01	7	370	15	0.04	<2	3
ZZ05577		10	1	0.52	40	0.53	440	2	0.01	16	320	14	0.06	<2	6
ZZ05578		10	1	0.43	20	0.42	257	2	0.01	9	270	11	0.02	<2	4
ZZ05579		10	1	0.15	20	0.32	353	1	<0.01	11	620	15	0.03	<2	1
ZZ05580		10	1	0.36	30	0.64	416	<1	0.01	16	780	14	0.02	<2	6



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CERTIFICATE OF ANALYSIS WH11158205

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
ZZ05541		<20	0.08	<10	<10	73	<10	314
ZZ05542		<20	0.08	<10	<10	84	<10	375
ZZ05543		<20	0.05	<10	<10	92	<10	293
ZZ05544		<20	0.05	<10	<10	79	<10	197
ZZ05545		<20	0.05	<10	<10	48	<10	198
ZZ05546		<20	0.04	<10	<10	110	<10	367
ZZ05547		<20	0.06	<10	<10	86	<10	420
ZZ05548		<20	0.05	<10	<10	103	<10	291
ZZ05549		<20	0.04	<10	<10	84	<10	266
ZZ05550		<20	0.03	<10	<10	87	<10	332
ZZ05551		<20	0.05	<10	<10	81	<10	325
ZZ05552		<20	0.02	<10	<10	78	<10	89
ZZ05553		<20	0.04	<10	<10	83	<10	146
ZZ05554		<20	0.04	<10	<10	80	<10	131
ZZ05555		<20	0.06	<10	<10	69	<10	58
ZZ05556		<20	0.07	<10	<10	88	<10	43
ZZ05557		<20	0.07	<10	<10	79	<10	58
ZZ05558		<20	0.02	<10	<10	39	<10	96
ZZ05559		<20	0.13	<10	<10	97	<10	141
ZZ05560		20	0.04	<10	<10	40	<10	84
ZZ05561		<20	0.07	<10	<10	42	<10	102
ZZ05562		20	0.06	<10	<10	20	<10	96
ZZ05563		30	0.12	<10	<10	19	<10	235
ZZ05564		30	0.10	<10	<10	19	<10	79
ZZ05565		20	<0.01	<10	<10	18	<10	182
ZZ05566		<20	0.11	<10	<10	40	<10	76
ZZ05567		<20	0.13	<10	<10	37	<10	104
ZZ05568		<20	0.09	<10	<10	42	<10	111
ZZ05569		<20	0.09	<10	<10	32	<10	65
ZZ05570		<20	0.10	<10	<10	31	<10	98
ZZ05571		<20	0.09	<10	<10	20	<10	156
ZZ05572		<20	0.10	<10	<10	29	<10	68
ZZ05573		<20	0.05	<10	<10	21	<10	70
ZZ05574		<20	0.07	<10	<10	28	<10	66
ZZ05575		<20	0.05	<10	<10	25	<10	50
ZZ05576		<20	0.12	<10	<10	31	<10	99
ZZ05577		<20	0.19	<10	<10	58	<10	128
ZZ05578		<20	0.16	<10	<10	34	<10	143
ZZ05579		<20	0.05	<10	<10	31	<10	95
ZZ05580		<20	0.16	<10	<10	49	<10	121



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CERTIFICATE OF ANALYSIS WH11158205

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ05581		0.30	<0.001	<0.2	2.53	4	<10	260	2.2	2	0.14	<0.5	9	23	16	3.51
ZZ05582		0.18	0.070	<0.2	2.33	3	<10	250	1.9	3	0.15	<0.5	8	25	16	3.09
ZZ05583		0.24	0.052	<0.2	2.67	5	<10	620	3.1	3	0.18	0.6	11	26	25	4.05
ZZ05584		0.24	0.002	<0.2	2.36	8	<10	240	2.2	<2	0.12	<0.5	9	26	19	3.51
ZZ05585		0.20	0.001	<0.2	2.01	5	<10	270	1.5	3	0.11	<0.5	9	24	21	3.36
ZZ05586		0.24	0.001	<0.2	2.68	4	<10	510	3.0	4	0.12	<0.5	10	42	26	3.96
ZZ05587		0.28	0.001	<0.2	2.99	8	<10	960	2.8	3	0.14	0.8	16	40	36	5.03
ZZ05588		0.26	<0.001	0.3	2.20	4	<10	720	1.6	4	0.11	<0.5	10	32	27	4.03
ZZ05589		0.28	0.005	0.3	2.62	3	<10	470	2.5	4	0.11	<0.5	10	28	26	4.59
ZZ05590		0.20	0.001	0.4	2.20	7	<10	280	1.4	4	0.10	<0.5	15	47	51	4.29
ZZ05591		0.34	0.001	0.5	1.89	5	<10	940	1.2	5	0.11	<0.5	9	39	39	3.86
ZZ05592		0.16	<0.001	0.6	0.52	5	<10	1040	<0.5	3	0.02	<0.5	4	15	31	2.92
ZZ05593		0.18	<0.001	0.6	0.49	5	<10	1900	<0.5	4	0.02	<0.5	5	24	40	2.65
ZZ05594		0.22	0.002	0.4	2.36	7	<10	1950	1.7	4	0.04	<0.5	27	71	53	3.71
ZZ05595		0.34	0.001	0.3	1.41	2	<10	1140	0.7	4	0.04	<0.5	8	89	44	4.16
ZZ05601		0.32	0.009	0.4	1.37	5	<10	2070	0.9	4	0.07	0.5	10	25	58	3.69
ZZ05602		0.24	<0.001	0.2	1.25	5	<10	1380	0.5	4	0.04	<0.5	6	29	27	3.02
ZZ05603		0.18	0.018	0.2	0.76	9	<10	610	<0.5	4	0.03	<0.5	3	27	36	3.39
ZZ05604		0.20	0.003	<0.2	1.35	7	<10	900	0.6	6	0.05	<0.5	5	44	44	4.26



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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ05581		10	1	0.35	30	0.82	358	1	0.01	17	710	15	0.03	<2	4	11
ZZ05582		10	1	0.41	30	0.82	345	1	0.01	17	750	10	0.04	<2	4	11
ZZ05583		10	<1	0.56	40	0.90	716	<1	0.01	21	830	20	0.04	<2	7	16
ZZ05584		10	1	0.30	20	0.74	443	1	0.01	18	710	19	0.04	<2	4	11
ZZ05585		10	1	0.27	20	0.60	526	1	0.01	19	750	15	0.05	<2	4	12
ZZ05586		10	1	0.35	30	0.82	518	<1	0.01	28	650	18	0.03	<2	7	13
ZZ05587		10	<1	0.68	30	1.16	944	1	0.01	30	770	24	0.05	<2	10	15
ZZ05588		10	<1	0.37	20	0.68	565	1	0.01	21	770	21	0.05	<2	5	12
ZZ05589		10	1	0.47	20	0.75	475	1	0.01	17	740	20	0.04	<2	7	12
ZZ05590		10	<1	0.14	10	0.59	1150	<1	0.01	65	1060	19	0.04	<2	2	8
ZZ05591		10	1	0.24	10	0.50	562	5	0.01	40	1260	38	0.11	<2	3	25
ZZ05592		10	<1	0.06	10	0.05	225	4	0.01	9	610	19	0.11	<2	1	34
ZZ05593		10	1	0.08	10	0.05	165	2	0.01	15	560	18	0.15	<2	1	36
ZZ05594		10	1	0.08	10	0.23	1625	1	0.01	34	1210	17	0.11	<2	1	26
ZZ05595		10	1	0.10	10	0.39	522	2	0.01	48	540	14	0.09	<2	3	31
ZZ05601		10	1	0.12	20	0.25	698	2	0.01	29	850	23	0.12	<2	2	33
ZZ05602		10	1	0.09	10	0.24	371	2	0.01	18	500	20	0.06	<2	2	18
ZZ05603		10	<1	0.08	10	0.11	299	3	<0.01	20	600	26	0.05	2	1	17
ZZ05604		10	1	0.12	10	0.33	489	4	<0.01	34	890	20	0.03	<2	2	18



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CERTIFICATE OF ANALYSIS WH11158205

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ05581		<20	0.15	<10	<10	43	<10	107
ZZ05582		<20	0.14	<10	<10	42	<10	82
ZZ05583		<20	0.18	<10	<10	51	<10	123
ZZ05584		<20	0.13	<10	<10	49	<10	98
ZZ05585		<20	0.11	<10	<10	50	<10	91
ZZ05586		<20	0.15	<10	<10	62	<10	99
ZZ05587		<20	0.24	<10	<10	81	<10	178
ZZ05588		<20	0.15	<10	<10	71	<10	92
ZZ05589		<20	0.19	<10	<10	73	<10	119
ZZ05590		<20	0.05	<10	<10	105	<10	65
ZZ05591		<20	0.08	<10	<10	111	<10	100
ZZ05592		<20	0.03	<10	<10	68	<10	30
ZZ05593		<20	0.04	<10	<10	69	<10	37
ZZ05594		<20	0.03	<10	<10	56	<10	76
ZZ05595		<20	0.08	<10	<10	78	<10	72
ZZ05601		<20	0.05	<10	<10	65	<10	85
ZZ05602		<20	0.06	<10	<10	66	<10	64
ZZ05603		<20	0.04	<10	<10	74	<10	74
ZZ05604		<20	0.06	<10	<10	71	<10	131



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Method	CERTIFICATE COMMENTS
ME- ICP41	Uranium ICP- AES results reported below 250 ppm are considered to be semi- quantitative due to interference when Ce > 250 ppm



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P.O. No.:

This report is for 161 Soil samples submitted to our lab in Whitehorse, YT, Canada on 15- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC147831		0.14	0.003	<0.2	1.48	4	<10	180	0.5	2	0.09	<0.5	9	37	22	2.69
CC147832		0.28	<0.001	0.2	1.81	2	<10	300	0.6	3	0.15	<0.5	8	52	29	2.89
CC147833		0.22	0.005	0.2	1.55	<2	<10	490	1.2	2	0.09	<0.5	10	31	52	4.94
CC147834		0.14	0.025	0.3	0.89	3	<10	330	0.6	3	0.06	<0.5	7	29	40	5.03
CC147835		0.16	0.002	0.4	1.64	3	<10	220	0.6	2	0.11	<0.5	10	48	30	3.53
CC149311		0.28	0.009	0.6	1.65	6	<10	1080	2.1	3	0.17	<0.5	8	30	69	7.09
CC149312		0.36	0.005	0.3	1.66	4	<10	1060	1.1	2	0.09	<0.5	7	37	42	4.09
CC149313		0.36	0.005	0.4	2.25	5	<10	760	1.4	3	0.16	<0.5	11	38	37	3.74
CC149314		0.32	0.001	0.3	2.63	6	<10	270	1.4	3	0.21	<0.5	17	59	59	4.86
CC149315		0.26	0.002	0.2	0.87	4	<10	230	<0.5	<2	0.06	<0.5	7	30	32	4.09
CC149316		0.26	0.004	0.2	0.97	3	<10	310	<0.5	<2	0.05	<0.5	3	22	24	2.95
CC149317		0.24	0.006	0.3	1.74	4	<10	230	1.1	<2	0.04	<0.5	4	23	24	3.12
CC149318		0.42	<0.001	0.3	1.16	5	<10	170	<0.5	<2	0.05	<0.5	3	38	15	2.93
CC149319		0.28	<0.001	<0.2	1.45	4	<10	290	0.6	<2	0.07	<0.5	5	40	18	2.55
CC149320		0.42	<0.001	0.2	1.31	4	<10	160	0.5	<2	0.04	<0.5	3	25	20	2.92
CC149991		0.36	<0.001	0.5	2.07	2	<10	290	1.1	<2	0.07	<0.5	9	75	31	4.14
CC149992		0.38	0.004	0.2	2.14	5	<10	370	1.2	<2	0.09	<0.5	8	74	38	3.34
CC149993		0.42	<0.001	0.3	2.08	4	<10	220	0.8	<2	0.08	<0.5	6	33	22	3.19
CC149994		0.40	<0.001	0.4	1.93	7	<10	230	1.3	<2	0.08	<0.5	7	46	23	3.55
CC149995		0.30	<0.001	0.2	1.52	5	<10	150	0.6	<2	0.07	<0.5	7	39	19	3.35
CC149996		0.38	<0.001	0.2	1.74	6	<10	250	0.8	<2	0.06	<0.5	5	42	23	3.53
CC149997		0.32	0.002	0.2	3.10	11	<10	550	2.4	<2	0.11	0.6	33	259	49	4.49
CC149998		0.28	<0.001	0.2	1.04	4	<10	270	0.5	<2	0.04	<0.5	5	34	25	3.32
CC149999		0.38	0.016	0.4	2.05	8	<10	1150	1.2	<2	0.08	<0.5	7	38	49	4.43
CC150000		0.40	0.010	0.3	1.33	7	<10	550	0.9	<2	0.06	<0.5	4	32	52	5.81
CC152051		0.34	0.001	0.2	0.82	<2	<10	360	<0.5	<2	0.04	<0.5	<1	7	12	3.58
CC152052		0.32	0.002	<0.2	0.97	2	<10	410	0.6	<2	0.08	<0.5	11	346	15	2.98
CC152053		0.32	0.006	0.4	1.34	3	<10	620	1.0	<2	0.12	0.5	31	574	26	4.19
CC152054		0.26	<0.001	<0.2	0.59	4	<10	330	<0.5	<2	0.07	<0.5	4	166	10	1.56
CC152055		0.26	0.004	<0.2	0.67	3	<10	370	0.5	<2	0.04	<0.5	4	72	25	2.37
CC152056		0.36	0.006	<0.2	1.54	6	<10	490	1.2	<2	0.10	<0.5	23	217	38	4.02
CC152057		0.24	0.004	0.2	1.38	4	<10	970	0.9	<2	0.14	<0.5	20	300	31	3.15
CC152058		0.32	<0.001	<0.2	1.16	3	<10	150	<0.5	2	0.12	<0.5	7	101	21	2.55
CC152059		0.28	0.002	0.2	1.36	6	<10	520	0.9	<2	0.07	<0.5	8	42	41	3.30
CC152060		0.22	0.046	0.2	0.64	3	<10	50	<0.5	<2	0.03	<0.5	1	5	11	1.09
CC152061		0.20	<0.001	0.3	0.68	2	<10	50	<0.5	2	0.09	<0.5	4	52	15	1.67
CC152062		0.26	<0.001	<0.2	2.10	5	<10	180	1.0	<2	0.02	<0.5	3	11	22	4.44
CC152063		0.16	<0.001	0.2	0.72	<2	<10	40	<0.5	2	0.04	<0.5	3	30	4	1.09
CC152064		0.22	0.003	0.2	2.51	4	<10	700	3.5	<2	0.20	<0.5	10	14	45	4.52
CC152065		0.10	0.006	0.4	1.80	8	<10	740	2.5	<2	0.36	0.6	10	27	81	3.81



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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CERTIFICATE OF ANALYSIS WH11158204

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC147831		10	<1	0.10	10	0.38	534	2	0.01	19	650	4	0.06	<2	1	8
CC147832		10	<1	0.05	10	0.40	263	<1	0.02	22	520	3	0.02	<2	1	7
CC147833		10	1	0.11	10	0.39	761	4	0.01	32	690	17	0.03	<2	3	10
CC147834		10	<1	0.07	10	0.17	808	3	0.01	22	640	24	0.04	<2	1	9
CC147835		10	<1	0.07	10	0.35	998	1	0.02	21	520	10	0.03	<2	2	8
CC149311		10	1	0.11	10	0.33	1035	2	0.02	36	1230	20	0.05	<2	2	17
CC149312		10	1	0.14	10	0.43	484	1	0.02	25	600	11	0.05	<2	1	14
CC149313		10	1	0.31	20	0.79	538	2	0.02	37	790	11	0.04	<2	4	19
CC149314		10	1	0.31	20	0.95	857	2	0.01	66	1290	24	0.10	<2	6	28
CC149315		10	1	0.06	10	0.17	605	2	0.01	19	600	22	0.03	<2	1	8
CC149316		10	<1	0.06	10	0.18	296	3	0.01	13	540	27	0.07	<2	2	13
CC149317		10	<1	0.13	20	0.48	410	2	0.01	21	460	25	0.05	<2	2	10
CC149318		10	<1	0.07	10	0.26	259	2	0.02	21	420	24	0.04	<2	2	10
CC149319		10	<1	0.18	10	0.49	364	1	0.02	21	330	17	0.03	<2	3	10
CC149320		10	<1	0.11	10	0.32	287	2	0.02	18	430	21	0.04	<2	2	10
CC149991		10	1	0.15	20	0.64	473	2	0.02	49	520	35	0.04	<2	5	12
CC149992		10	1	0.18	20	0.65	397	1	0.02	61	500	30	0.04	<2	4	13
CC149993		10	<1	0.16	20	0.45	358	1	0.02	20	560	21	0.02	<2	4	10
CC149994		10	<1	0.11	20	0.50	486	1	0.01	27	450	22	0.02	<2	5	11
CC149995		10	<1	0.09	10	0.30	576	1	0.02	21	360	16	0.03	<2	3	10
CC149996		10	<1	0.24	10	0.44	435	2	0.02	24	480	23	0.05	<2	4	12
CC149997		10	1	0.18	10	1.11	1045	2	0.02	83	370	22	0.04	<2	13	12
CC149998		10	<1	0.08	10	0.24	400	2	0.02	24	500	26	0.05	<2	1	12
CC149999		10	1	0.15	20	0.43	559	2	0.02	35	750	21	0.08	<2	4	21
CC150000		10	<1	0.10	10	0.23	693	3	0.02	34	690	26	0.06	<2	1	13
CC152051		10	<1	0.02	10	0.15	434	1	<0.01	6	420	17	0.02	<2	1	8
CC152052		10	1	0.06	10	0.70	336	1	0.02	151	260	18	0.03	<2	2	11
CC152053		<10	1	0.07	20	4.11	673	<1	0.01	510	360	32	0.03	<2	3	13
CC152054		10	<1	0.08	10	0.29	164	1	0.02	58	230	12	0.02	<2	1	11
CC152055		10	<1	0.06	10	0.21	438	3	0.01	40	310	22	0.03	<2	1	9
CC152056		10	<1	0.10	20	2.00	1245	2	0.01	273	550	27	0.04	<2	3	12
CC152057		<10	<1	0.07	10	2.33	486	<1	0.02	302	540	16	0.03	<2	2	16
CC152058		10	1	0.05	10	0.49	300	1	0.03	54	350	20	0.03	<2	2	9
CC152059		10	1	0.09	10	0.34	997	5	0.02	40	480	20	0.04	<2	2	13
CC152060		<10	<1	0.07	10	0.11	278	1	0.03	5	260	4	0.03	<2	<1	8
CC152061		10	<1	0.04	10	0.15	329	<1	0.02	19	210	11	0.02	<2	2	6
CC152062		20	1	0.26	10	0.56	708	3	0.02	13	320	20	0.03	<2	3	7
CC152063		10	<1	0.13	10	0.19	153	3	0.01	7	130	9	<0.01	<2	1	8
CC152064		10	<1	0.27	30	0.79	1255	8	0.01	57	490	24	0.03	<2	3	17
CC152065		<10	<1	0.06	80	0.26	1030	8	0.02	59	1510	47	0.11	<2	2	34



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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CERTIFICATE OF ANALYSIS WH11158204

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
CC147831		<20	0.06	<10	<10	63	<10	46
CC147832		<20	0.07	<10	<10	58	<10	47
CC147833		<20	0.08	<10	<10	69	<10	143
CC147834		<20	0.07	<10	<10	85	<10	124
CC147835		<20	0.07	<10	<10	66	<10	67
CC149311		<20	0.05	<10	<10	72	<10	241
CC149312		<20	0.06	<10	<10	85	<10	97
CC149313		<20	0.14	<10	<10	82	<10	71
CC149314		<20	0.19	<10	<10	127	<10	87
CC149315		<20	0.08	<10	<10	88	<10	80
CC149316		<20	0.12	<10	<10	88	<10	49
CC149317		<20	0.06	<10	<10	43	<10	66
CC149318		<20	0.10	<10	<10	67	<10	49
CC149319		<20	0.14	<10	<10	63	<10	63
CC149320		<20	0.10	<10	<10	74	<10	51
CC149991		<20	0.12	<10	<10	79	<10	135
CC149992		<20	0.10	<10	<10	60	<10	129
CC149993		<20	0.15	<10	<10	64	<10	85
CC149994		<20	0.11	<10	<10	66	<10	88
CC149995		<20	0.11	<10	<10	61	<10	68
CC149996		<20	0.13	<10	<10	69	<10	90
CC149997		<20	0.11	<10	<10	161	<10	118
CC149998		<20	0.06	<10	<10	66	<10	76
CC149999		<20	0.09	<10	<10	80	<10	148
CC150000		<20	0.05	<10	<10	91	<10	169
CC152051		<20	0.01	<10	<10	23	<10	37
CC152052		<20	0.09	<10	<10	52	<10	76
CC152053		<20	0.06	<10	<10	44	<10	178
CC152054		<20	0.07	<10	<10	39	<10	36
CC152055		<20	0.05	<10	<10	44	<10	76
CC152056		<20	0.07	<10	<10	45	<10	191
CC152057		<20	0.06	<10	<10	43	<10	85
CC152058		<20	0.10	<10	<10	59	<10	53
CC152059		<20	0.06	<10	<10	49	<10	118
CC152060		<20	0.04	<10	<10	19	<10	24
CC152061		<20	0.16	<10	<10	78	<10	31
CC152062		<20	0.15	<10	<10	44	<10	83
CC152063		<20	0.18	<10	<10	55	<10	16
CC152064		<20	0.09	<10	<10	42	<10	178
CC152065		<20	0.03	<10	<10	49	<10	279



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North Vancouver BC V7H 0A7
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CERTIFICATE OF ANALYSIS WH11158204

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC152066		0.24	0.035	0.7	1.25	18	<10	1900	2.3	3	0.19	1.5	22	22	171	7.07
CC152067		0.18	0.004	0.2	1.57	5	<10	520	0.6	<2	0.10	0.7	9	47	46	6.17
CC152068		0.22	0.011	0.8	1.29	5	<10	2130	0.7	3	0.05	0.6	4	27	89	4.52
CC152069		0.20	0.007	0.2	1.93	8	<10	1800	1.1	3	0.29	0.5	10	59	89	7.27
CC152070		0.14	0.014	0.5	1.07	11	<10	1430	1.3	<2	0.07	0.9	22	22	180	6.22
CC152071		0.20	0.008	0.4	1.35	35	<10	100	0.8	<2	0.21	<0.5	18	76	60	5.01
CC152072		0.30	0.007	<0.2	2.50	7	<10	110	1.1	<2	0.38	<0.5	24	107	68	3.99
CC152073		0.16	0.005	0.4	2.05	22	<10	260	1.6	2	0.55	<0.5	36	175	107	6.27
CC152074		0.14	0.002	0.3	1.54	18	<10	170	1.1	<2	0.19	<0.5	26	76	78	4.32
CC152075		0.20	0.003	0.5	2.12	8	<10	240	3.6	<2	0.18	0.7	8	20	22	3.53
CC152076		0.20	<0.001	0.7	2.74	6	<10	230	4.2	<2	0.34	0.8	25	100	52	4.44
CC152077		0.16	<0.001	0.2	1.98	3	<10	100	1.8	<2	0.05	<0.5	5	16	14	3.53
CC152078		0.16	<0.001	<0.2	2.21	4	<10	120	2.7	2	0.08	<0.5	7	33	15	3.70
CC152079		0.16	<0.001	<0.2	2.29	5	<10	90	2.1	<2	0.05	<0.5	6	32	15	4.22
CC152080		0.24	<0.001	0.3	1.93	7	<10	120	1.4	<2	0.04	<0.5	5	25	15	3.16
CC152081		0.28	<0.001	0.2	1.68	5	<10	400	1.1	<2	0.06	<0.5	6	28	24	3.61
CC152082		0.16	0.001	0.3	0.55	7	<10	260	<0.5	<2	0.03	<0.5	5	17	28	2.21
CC152083		0.22	0.005	0.9	1.39	14	<10	1090	1.4	<2	0.06	<0.5	6	28	83	5.16
CC152084		0.14	<0.001	<0.2	0.61	7	<10	120	<0.5	<2	0.02	<0.5	5	14	24	3.08
CC152085		0.12	0.001	0.2	0.35	11	<10	100	<0.5	<2	0.03	<0.5	5	13	43	3.01
CC152086		0.20	0.003	0.3	0.92	5	<10	310	0.6	<2	0.03	<0.5	5	19	31	3.04
CC152087		0.22	0.004	0.3	1.35	5	<10	390	0.7	<2	0.14	<0.5	10	36	29	3.10
CC152088		0.20	0.001	0.3	1.22	5	<10	150	0.5	<2	0.07	<0.5	6	28	19	2.98
CC152089		0.14	0.002	0.2	2.18	4	<10	570	2.8	<2	0.43	0.9	11	30	30	2.82
CC152090		0.18	0.002	0.3	1.43	6	<10	230	1.2	<2	0.05	<0.5	7	30	35	3.89
CC152091		0.20	<0.001	0.2	1.47	6	<10	400	0.8	<2	0.10	<0.5	10	35	35	3.34
CC152092		0.12	<0.001	<0.2	0.67	3	<10	180	<0.5	<2	0.04	<0.5	4	13	17	1.74
CC152093		0.18	0.001	<0.2	1.25	2	<10	880	0.9	<2	0.18	1.0	6	17	20	1.88
CC152094		0.18	0.009	0.2	1.19	4	<10	2120	1.1	2	0.07	2.2	13	29	62	4.88
CC152095		0.14	0.006	0.4	1.09	4	<10	2790	1.1	<2	0.06	1.4	16	30	60	4.53
CC152096		0.18	0.005	<0.2	1.18	4	<10	2340	0.9	<2	0.07	2.5	12	36	47	4.38
CC152097		0.34	0.002	0.5	1.74	5	<10	1690	1.2	<2	0.07	0.8	14	38	57	3.34
CC152098		0.20	0.003	0.3	1.41	7	<10	880	0.6	<2	0.05	<0.5	9	43	45	4.13
CC152099		0.16	0.002	<0.2	1.48	4	<10	310	0.7	2	0.04	<0.5	6	67	23	3.29
CC152100		0.16	<0.001	0.2	0.58	3	<10	310	<0.5	<2	0.02	<0.5	2	28	16	1.69
CC152201		0.56	0.001	<0.2	3.28	<2	<10	470	2.6	2	0.08	<0.5	21	160	36	4.47
CC152202		0.30	0.001	0.2	2.34	<2	<10	250	1.2	<2	0.03	<0.5	9	69	25	4.28
CC152203		0.36	<0.001	<0.2	1.68	2	<10	140	0.6	<2	0.05	<0.5	5	30	17	3.04
CC152204		0.38	<0.001	0.2	1.89	4	<10	220	0.8	2	0.05	<0.5	7	53	19	3.11
CC152205		0.40	0.001	0.4	1.56	4	<10	200	0.8	2	0.07	<0.5	5	74	15	2.71



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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC152066		10	<1	0.17	30	0.20	4650	8	0.02	99	1250	56	0.07	<2	6	27
CC152067		10	<1	0.10	10	0.62	1745	2	0.02	29	900	19	0.07	<2	2	8
CC152068		10	<1	0.20	10	0.21	491	5	0.03	24	1040	84	0.17	<2	2	25
CC152069		10	<1	0.44	10	0.44	1230	4	0.02	40	1800	74	0.06	<2	5	15
CC152070		<10	<1	0.18	20	0.16	2820	12	0.01	88	1020	60	0.09	2	6	27
CC152071		<10	<1	0.08	10	0.54	543	<1	0.01	52	800	13	0.05	2	4	14
CC152072		10	<1	0.12	<10	1.39	587	<1	0.03	49	620	2	0.05	2	7	14
CC152073		10	<1	0.07	10	1.20	1055	<1	0.03	140	750	2	0.03	6	24	18
CC152074		<10	<1	0.06	10	0.51	2520	1	0.02	79	960	11	0.04	<2	6	13
CC152075		10	<1	0.23	40	0.57	578	5	0.01	18	580	15	0.06	<2	3	28
CC152076		10	<1	0.61	50	1.38	916	4	0.02	111	530	28	0.08	<2	6	17
CC152077		10	<1	0.30	20	0.57	334	4	0.01	10	470	19	0.07	<2	3	7
CC152078		10	<1	0.33	20	0.74	497	1	0.01	15	440	9	0.03	<2	3	7
CC152079		10	<1	0.45	10	0.76	578	1	0.01	15	390	7	0.04	<2	3	6
CC152080		10	<1	0.22	10	0.51	368	1	0.01	13	420	13	0.04	<2	2	9
CC152081		10	<1	0.23	10	0.55	332	2	0.01	18	450	15	0.06	<2	3	16
CC152082		10	<1	0.06	10	0.08	389	2	0.01	15	460	21	0.03	<2	1	8
CC152083		10	<1	0.14	10	0.24	584	11	0.01	38	590	59	0.05	3	3	11
CC152084		10	<1	0.06	10	0.09	293	3	0.01	15	430	23	0.01	<2	1	6
CC152085		10	<1	0.04	10	0.03	551	9	0.01	31	430	12	0.01	<2	1	7
CC152086		10	<1	0.09	10	0.15	524	3	0.01	18	490	22	0.04	<2	1	9
CC152087		10	<1	0.11	10	0.38	973	2	0.01	29	590	27	0.03	<2	2	11
CC152088		10	<1	0.10	10	0.33	347	2	0.01	18	480	17	0.01	<2	3	7
CC152089		10	<1	0.11	90	0.39	2040	7	0.01	22	1680	27	0.09	<2	1	18
CC152090		10	<1	0.08	10	0.31	573	4	0.01	37	380	27	0.01	<2	2	9
CC152091		10	<1	0.10	10	0.46	923	1	0.01	29	470	21	0.02	<2	3	10
CC152092		10	<1	0.04	10	0.06	142	1	0.01	9	270	18	0.01	<2	1	7
CC152093		10	<1	0.12	10	0.31	798	1	0.02	15	670	24	0.04	<2	<1	19
CC152094		<10	<1	0.17	10	0.25	1390	2	0.02	32	840	132	0.11	<2	2	25
CC152095		<10	<1	0.16	10	0.19	2700	2	0.02	38	940	71	0.11	<2	1	31
CC152096		10	<1	0.21	10	0.25	2080	1	0.02	29	1030	62	0.11	<2	1	23
CC152097		10	<1	0.12	10	0.45	1365	1	0.01	44	600	29	0.07	<2	2	22
CC152098		10	<1	0.09	10	0.31	512	2	0.01	36	550	41	0.07	<2	1	15
CC152099		10	<1	0.12	10	0.47	370	2	<0.01	36	350	19	0.03	<2	2	8
CC152100		10	<1	0.05	10	0.06	149	1	0.01	14	280	20	0.03	<2	<1	8
CC152201		10	<1	0.23	50	1.29	728	2	0.01	71	450	16	0.03	<2	12	9
CC152202		10	<1	0.26	10	0.72	589	2	0.01	29	390	19	0.02	<2	7	6
CC152203		10	<1	0.12	10	0.30	471	1	0.01	15	540	16	0.02	<2	3	5
CC152204		10	<1	0.12	10	0.45	477	2	0.01	25	480	23	0.02	<2	4	8
CC152205		10	1	0.11	10	0.53	275	1	0.01	39	390	18	0.01	<2	4	7



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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
CC152066		<20	0.04	<10	<10	91	<10
CC152067		<20	0.11	<10	<10	104	<10
CC152068		<20	0.04	<10	<10	94	<10
CC152069		<20	0.13	<10	<10	238	<10
CC152070		<20	0.04	<10	<10	77	<10
CC152071		<20	0.02	<10	<10	73	<10
CC152072		<20	0.09	<10	<10	86	<10
CC152073		<20	0.03	<10	<10	128	<10
CC152074		<20	0.04	<10	<10	82	<10
CC152075		<20	0.10	<10	<10	38	<10
CC152076		20	0.11	<10	<10	81	<10
CC152077		<20	0.12	<10	<10	31	<10
CC152078		<20	0.12	<10	<10	38	<10
CC152079		<20	0.12	<10	<10	45	<10
CC152080		<20	0.08	<10	<10	39	<10
CC152081		<20	0.09	<10	<10	48	<10
CC152082		<20	0.05	<10	<10	53	<10
CC152083		<20	0.05	<10	<10	68	<10
CC152084		<20	0.05	<10	<10	50	<10
CC152085		<20	0.04	<10	<10	65	<10
CC152086		<20	0.06	<10	<10	59	<10
CC152087		<20	0.09	<10	<10	59	<10
CC152088		<20	0.11	<10	<10	54	<10
CC152089		<20	0.03	<10	<10	40	<10
CC152090		<20	0.04	<10	<10	56	<10
CC152091		<20	0.08	<10	<10	53	<10
CC152092		<20	0.06	<10	<10	48	<10
CC152093		<20	0.03	<10	<10	28	<10
CC152094		<20	0.05	<10	<10	96	<10
CC152095		<20	0.04	<10	<10	86	<10
CC152096		<20	0.04	<10	<10	93	<10
CC152097		<20	0.06	<10	<10	63	<10
CC152098		<20	0.05	<10	<10	76	<10
CC152099		<20	0.09	<10	<10	52	<10
CC152100		<20	0.04	<10	<10	51	<10
CC152201		30	0.15	<10	<10	98	<10
CC152202		<20	0.17	<10	<10	76	<10
CC152203		<20	0.12	<10	<10	61	<10
CC152204		<20	0.11	<10	<10	59	<10
CC152205		<20	0.09	<10	<10	47	<10



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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC152206		0.44	0.001	0.3	1.78	4	<10	280	1.0	2	0.06	<0.5	5	37	24	3.81
CC152207		0.36	0.001	0.5	1.63	<2	<10	160	0.7	<2	0.07	<0.5	6	63	15	3.29
CC152208		0.34	0.001	0.3	0.47	<2	<10	70	<0.5	2	0.02	<0.5	1	35	5	0.80
CC152209		0.38	0.002	<0.2	1.23	2	<10	280	0.6	2	0.06	<0.5	10	195	14	2.59
CC152210		0.28	0.002	<0.2	0.69	<2	<10	190	<0.5	<2	0.02	<0.5	7	129	22	2.33
CC152211		0.40	0.002	<0.2	0.55	3	<10	110	<0.5	<2	0.02	<0.5	4	107	18	2.40
CC152212		0.40	0.002	<0.2	0.48	6	<10	120	<0.5	3	0.02	<0.5	4	45	18	1.85
CC152261		0.26	0.002	<0.2	0.99	8	<10	310	0.7	2	0.15	<0.5	11	44	66	3.40
CC152262		0.22	0.013	0.4	2.08	9	<10	150	1.0	<2	0.69	0.5	31	64	207	3.59
CC152263		0.28	0.001	<0.2	2.65	3	<10	320	1.4	2	0.70	<0.5	38	123	135	4.73
CC152264		0.22	<0.001	<0.2	1.77	3	<10	140	1.0	<2	0.31	<0.5	13	64	74	2.38
CC152265		0.34	0.001	0.2	2.20	2	<10	140	1.4	2	0.40	<0.5	18	91	93	3.18
CC152266		0.24	0.002	<0.2	1.71	6	<10	160	1.0	<2	0.62	<0.5	18	96	75	3.44
CC152267		0.26	0.005	<0.2	1.90	6	<10	210	1.1	<2	0.60	<0.5	27	110	95	4.90
CC152268		0.24	0.001	<0.2	0.74	4	<10	100	<0.5	2	0.09	<0.5	8	31	30	2.16
CC152269		0.14	<0.001	<0.2	0.58	5	<10	80	0.6	<2	0.07	<0.5	5	18	18	2.39
CC152270		0.20	0.001	0.3	4.49	6	<10	190	5.3	<2	0.64	<0.5	17	96	26	4.17
CC152281		0.22	<0.001	<0.2	0.63	6	<10	180	0.8	2	0.03	<0.5	6	22	56	4.12
CC152282		0.32	0.001	0.6	2.35	7	<10	740	1.4	<2	0.07	<0.5	10	49	51	4.29
CC152283		0.22	<0.001	0.3	1.23	6	<10	1610	0.5	<2	0.07	<0.5	8	42	38	3.53
CC152284		0.28	0.002	0.2	1.18	17	<10	90	<0.5	2	0.04	<0.5	5	32	19	2.91
CC152285		0.36	0.002	0.5	1.25	8	<10	200	0.5	2	0.04	<0.5	5	34	29	3.59
CC152286		0.34	0.004	0.4	1.63	9	<10	810	2.0	<2	0.37	<0.5	11	43	56	4.42
CC152287		0.22	0.007	0.6	1.56	7	<10	910	1.5	<2	0.59	1.0	12	45	52	3.32
CC152288		0.34	0.006	0.3	1.75	9	<10	530	1.8	3	0.17	<0.5	11	53	52	4.38
CC152289		0.34	0.004	0.4	1.39	2	<10	480	0.9	<2	0.11	<0.5	8	48	45	2.73
CC152290		0.26	0.003	0.5	1.06	11	<10	380	0.6	2	0.04	<0.5	6	38	63	4.20
CC152291		0.36	0.004	0.3	1.35	4	<10	150	0.6	2	0.15	<0.5	9	113	41	3.66
CC152292		0.18	0.004	<0.2	1.63	4	<10	740	1.3	<2	0.72	<0.5	7	28	35	2.67
CC152293		0.22	0.006	0.6	1.84	5	<10	750	1.6	5	0.75	0.8	6	25	23	2.62
CC152294		0.20	0.005	0.3	1.05	9	<10	620	1.1	4	0.22	0.8	11	30	49	3.52
CC152295		0.24	0.001	0.2	0.86	6	<10	360	0.6	3	0.08	<0.5	7	32	31	2.99
CC152296		0.20	0.004	0.4	1.29	6	<10	1030	1.6	4	0.33	0.9	13	33	63	3.80
CC152297		0.30	0.001	0.3	0.66	2	<10	490	<0.5	3	0.06	<0.5	4	67	30	2.66
CC152298		0.32	0.002	0.3	1.00	3	<10	270	0.7	3	0.20	<0.5	20	259	15	2.68
CC152299		0.28	0.076	0.4	1.87	5	<10	770	1.7	5	0.52	<0.5	13	182	26	3.50
CC152300		0.22	0.001	0.3	2.14	<2	<10	570	2.1	4	0.73	0.8	10	82	17	2.65
CC152321		0.06	0.001	0.2	1.21	<2	<10	550	0.8	4	0.10	<0.5	4	23	14	2.13
CC152322		0.04	<0.001	<0.2	1.46	<2	<10	480	1.2	5	0.14	<0.5	7	122	9	2.94
CC152323		0.10	<0.001	<0.2	1.63	<2	<10	340	0.6	5	0.14	0.6	19	407	16	4.48



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 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC152206		10	<1	0.11	10	0.42	339	2	0.01	22	410	26	0.03	<2	4	9
CC152207		10	<1	0.18	20	0.54	377	2	0.01	30	420	13	0.02	<2	4	6
CC152208		10	<1	0.06	10	0.09	81	2	0.01	11	140	11	0.01	<2	1	3
CC152209		10	<1	0.06	10	0.80	393	2	0.01	93	290	17	0.01	<2	2	7
CC152210		10	<1	0.08	10	0.52	372	1	0.01	91	260	14	0.02	<2	1	5
CC152211		10	<1	0.05	10	0.13	242	3	<0.01	49	250	16	0.01	<2	1	4
CC152212		10	<1	0.03	20	0.05	183	3	0.01	23	210	14	0.01	<2	1	5
CC152261		<10	1	0.05	10	0.34	546	2	0.01	46	510	14	0.04	<2	4	12
CC152262		10	<1	0.05	10	1.16	795	<1	0.03	60	1380	4	0.11	<2	9	37
CC152263		10	1	0.19	10	1.39	1245	<1	0.02	76	700	10	0.02	<2	20	17
CC152264		<10	<1	0.07	10	0.76	402	<1	0.02	36	650	6	0.04	<2	4	14
CC152265		10	<1	0.07	10	1.07	599	<1	0.03	46	720	8	0.05	<2	7	17
CC152266		<10	1	0.05	<10	0.84	515	<1	0.04	48	800	7	0.06	<2	10	15
CC152267		10	<1	0.07	<10	0.98	856	<1	0.02	76	730	7	0.04	<2	15	14
CC152268		10	<1	0.08	10	0.22	761	2	0.01	19	420	7	0.03	<2	2	5
CC152269		10	<1	0.11	10	0.14	858	4	0.01	9	550	9	0.05	<2	<1	5
CC152270		20	1	0.22	50	1.33	788	3	0.02	45	720	9	0.07	<2	8	39
CC152281		10	<1	0.08	10	0.09	257	7	0.01	49	870	50	0.10	2	1	18
CC152282		10	<1	0.12	10	0.56	789	4	0.02	39	710	46	0.09	<2	3	20
CC152283		10	<1	0.06	10	0.28	618	2	0.02	22	520	23	0.05	<2	2	15
CC152284		10	<1	0.05	10	0.25	463	3	0.01	14	360	24	0.02	<2	1	5
CC152285		10	<1	0.06	10	0.19	429	6	0.01	19	560	30	0.04	<2	1	10
CC152286		10	<1	0.19	30	0.51	1015	7	0.01	41	1090	51	0.17	<2	4	27
CC152287		<10	<1	0.09	20	0.45	2610	6	0.02	42	1540	27	0.15	<2	3	30
CC152288		10	1	0.08	20	0.61	348	7	0.01	55	840	41	0.02	<2	6	13
CC152289		10	1	0.04	10	0.27	421	2	0.01	34	620	10	0.03	<2	2	6
CC152290		10	1	0.09	20	0.16	522	6	0.01	33	610	60	0.09	<2	1	17
CC152291		10	<1	0.07	10	0.69	422	3	0.01	92	520	24	0.02	<2	3	12
CC152292		10	<1	0.06	20	0.40	681	4	0.02	52	760	24	0.06	<2	2	57
CC152293		10	<1	0.10	20	0.46	486	5	0.02	29	530	10	0.05	<2	3	62
CC152294		10	<1	0.14	10	0.37	1285	5	0.01	37	650	24	0.05	<2	3	17
CC152295		10	<1	0.09	10	0.25	757	5	0.01	26	570	14	0.04	<2	2	9
CC152296		10	1	0.16	30	0.46	1530	5	0.02	57	700	27	0.05	<2	5	23
CC152297		10	<1	0.06	10	0.12	263	11	0.01	32	270	16	0.02	<2	2	10
CC152298		<10	<1	0.08	10	1.86	404	3	0.01	251	400	5	0.02	<2	2	12
CC152299		10	<1	0.14	40	0.97	636	4	0.02	126	490	15	0.03	2	4	21
CC152300		10	1	0.11	40	0.85	1155	5	0.02	67	660	8	0.04	<2	3	20
CC152321		10	<1	0.10	10	0.38	481	4	0.02	16	330	12	0.02	<2	1	11
CC152322		10	<1	0.16	10	0.62	510	1	0.01	53	230	8	0.01	<2	2	9
CC152323		10	<1	0.19	10	1.02	529	2	0.02	162	340	10	0.02	<2	6	10



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 North Vancouver BC V7H 0A7
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
CC152206		<20	0.11	<10	<10	69	<10
CC152207		<20	0.13	<10	<10	49	<10
CC152208		<20	0.09	<10	<10	30	<10
CC152209		<20	0.08	<10	<10	44	<10
CC152210		<20	0.07	<10	<10	50	<10
CC152211		<20	0.10	<10	<10	81	<10
CC152212		<20	0.08	<10	<10	81	<10
CC152261		<20	0.05	<10	<10	73	<10
CC152262		<20	0.05	<10	<10	87	<10
CC152263		<20	0.08	<10	<10	124	<10
CC152264		<20	0.06	<10	<10	66	<10
CC152265		<20	0.05	<10	<10	85	<10
CC152266		<20	0.03	<10	<10	79	<10
CC152267		<20	0.05	<10	<10	104	<10
CC152268		<20	0.08	<10	<10	79	<10
CC152269		<20	0.03	<10	<10	43	<10
CC152270		<20	0.19	<10	<10	98	<10
CC152281		<20	0.04	<10	<10	143	<10
CC152282		<20	0.08	<10	<10	82	<10
CC152283		<20	0.07	<10	<10	88	<10
CC152284		<20	0.06	<10	<10	49	<10
CC152285		<20	0.05	<10	<10	68	<10
CC152286		<20	0.05	<10	<10	85	<10
CC152287		<20	0.03	<10	<10	62	<10
CC152288		<20	0.08	<10	<10	69	<10
CC152289		<20	0.07	<10	<10	66	<10
CC152290		<20	0.04	<10	<10	83	<10
CC152291		<20	0.08	<10	<10	78	<10
CC152292		<20	0.04	<10	<10	44	<10
CC152293		<20	0.06	<10	<10	31	<10
CC152294		<20	0.05	<10	<10	51	<10
CC152295		<20	0.04	<10	<10	58	<10
CC152296		<20	0.06	<10	<10	52	<10
CC152297		<20	0.09	<10	<10	75	<10
CC152298		<20	0.06	<10	<10	31	<10
CC152299		<20	0.07	<10	<10	47	<10
CC152300		<20	0.07	<10	<10	46	<10
CC152321		<20	0.07	<10	<10	37	<10
CC152322		<20	0.08	<10	<10	37	<10
CC152323		<20	0.18	<10	<10	98	<10



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North Vancouver BC V7H 0A7
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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC152324		0.04	0.015	0.2	0.85	<2	<10	280	0.5	5	0.05	0.6	8	340	19	3.04
CC152331		0.28	0.014	0.6	1.37	15	<10	300	3.7	5	0.31	8.5	4	8	11	3.19
CC152332		0.38	0.002	0.3	1.65	6	<10	120	1.9	5	0.05	<0.5	5	13	10	2.98
CC152333		0.26	0.001	0.2	1.26	4	<10	100	0.9	5	0.04	<0.5	3	12	10	2.38
CC152334		0.26	<0.001	0.2	1.25	4	<10	110	1.3	4	0.04	0.5	4	14	12	2.75
CC152335		0.44	0.001	<0.2	1.82	3	<10	170	2.6	4	0.03	0.5	5	10	13	3.21
CC152336		0.36	0.007	0.2	1.20	4	<10	100	1.0	5	0.04	<0.5	5	14	10	2.57
CC152337		0.44	0.001	0.2	1.54	7	<10	110	1.6	3	0.05	0.5	5	14	19	2.67
CC152338		0.30	<0.001	0.2	1.07	2	<10	100	1.1	4	0.04	<0.5	6	12	14	2.26
CC152339		0.36	0.061	<0.2	1.60	<2	<10	150	1.7	4	0.06	<0.5	5	11	13	2.37
CC152340		0.28	0.002	<0.2	1.19	4	<10	110	1.2	3	0.05	<0.5	5	14	19	2.27
CC152341		0.22	0.005	0.3	0.55	2	<10	40	<0.5	4	0.02	<0.5	2	9	9	1.52
CC152342		0.40	0.003	<0.2	1.45	6	<10	120	1.7	4	0.06	<0.5	6	15	17	2.99
CC152343		0.26	0.002	<0.2	2.57	3	<10	370	3.2	3	0.11	0.5	6	20	17	3.61
CC152344		0.22	0.001	0.2	1.09	2	<10	230	0.9	3	0.12	<0.5	5	64	11	2.37
CC152345		0.34	0.001	0.2	1.72	4	<10	150	0.9	4	0.09	<0.5	8	81	26	3.31
CC152346		0.28	0.001	0.2	1.60	3	<10	1690	0.7	5	0.09	<0.5	18	147	30	3.84
CC152347		0.30	0.001	0.3	1.46	<2	<10	1950	0.8	4	0.09	0.6	31	423	22	4.50
CC152348		0.22	0.002	0.3	2.25	3	<10	1420	1.1	4	0.48	0.5	38	331	25	4.81
CC152349		0.22	<0.001	0.8	2.51	5	<10	840	3.5	4	0.26	0.5	35	196	41	5.41
CC152350	Not Recvd															
CC152351		0.30	0.002	0.2	2.04	3	<10	930	1.9	3	0.36	0.5	23	227	20	3.88
CC152352		0.18	<0.001	<0.2	1.68	<2	<10	460	0.8	4	0.08	<0.5	23	296	13	3.96
CC152353		0.24	<0.001	<0.2	1.60	<2	<10	660	1.1	4	0.23	0.7	23	314	15	3.86
CC152354		0.24	<0.001	0.2	1.04	2	<10	340	0.6	4	0.06	0.5	7	108	12	3.37
CC152355		0.20	<0.001	0.2	1.01	<2	<10	510	0.5	5	0.07	0.6	23	372	10	4.03
CC152356		0.14	<0.001	<0.2	1.56	3	<10	640	1.0	<2	0.19	<0.5	9	173	15	3.68
CC152357		0.26	0.001	0.2	1.22	<2	<10	400	0.7	2	0.07	<0.5	18	431	14	4.64
CC152358		0.16	<0.001	<0.2	1.10	<2	<10	370	0.7	<2	0.07	0.5	17	341	13	3.22
CC152359		0.24	<0.001	<0.2	1.40	<2	<10	590	0.9	2	0.18	<0.5	28	494	13	4.10
CC152360	Not Recvd															
CC152361		0.16	<0.001	<0.2	1.04	3	<10	70	<0.5	<2	0.41	<0.5	9	45	81	1.16
CC152362		0.24	0.004	<0.2	2.46	<2	<10	810	1.0	<2	0.57	<0.5	18	94	129	3.14
CC152363		0.18	0.004	0.2	2.15	6	<10	700	1.3	2	0.29	<0.5	15	77	85	3.22
CC152364		0.16	<0.001	<0.2	1.91	5	<10	350	1.4	2	0.21	<0.5	10	59	59	2.92
CC152365		0.24	<0.001	<0.2	1.70	6	<10	140	1.0	<2	0.12	<0.5	9	50	38	2.89
CC152366		0.22	<0.001	0.3	2.31	7	<10	220	3.1	2	0.16	<0.5	9	42	28	3.56
CC152367		0.22	0.001	0.2	0.98	48	<10	180	2.0	<2	0.05	0.6	7	21	28	3.83
CC152368		0.20	0.002	0.3	0.94	113	<10	260	2.3	2	0.08	1.0	10	23	33	4.33
CC152369		0.34	<0.001	0.2	1.81	18	<10	110	1.3	2	0.09	<0.5	6	35	24	3.38



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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC152324		10	<1	0.10	10	0.38	177	2	0.01	133	230	9	0.01	<2	2	6
CC152331		10	<1	0.40	80	0.41	502	2	0.01	6	290	27	0.10	3	4	11
CC152332		10	<1	0.17	20	0.39	241	1	0.01	10	330	9	0.02	<2	3	6
CC152333		10	<1	0.24	20	0.41	324	1	0.01	8	370	10	0.04	2	2	5
CC152334		10	<1	0.21	20	0.37	396	1	0.01	11	400	12	0.03	<2	2	6
CC152335		10	1	0.39	60	0.54	509	2	0.01	10	310	17	0.02	2	4	6
CC152336		10	<1	0.26	20	0.37	484	1	0.01	9	440	15	0.03	2	2	5
CC152337		10	<1	0.23	30	0.46	328	1	0.01	17	350	21	0.02	<2	4	6
CC152338		10	<1	0.16	20	0.29	440	2	0.01	12	360	9	0.02	<2	2	5
CC152339		10	<1	0.36	20	0.50	416	1	0.01	10	390	8	0.01	<2	4	4
CC152340		10	<1	0.20	30	0.32	244	1	0.01	13	420	22	0.02	<2	2	6
CC152341		10	<1	0.13	10	0.15	142	1	0.01	6	360	7	0.02	<2	1	3
CC152342		10	<1	0.27	40	0.40	408	1	0.01	13	470	10	0.02	<2	4	5
CC152343		10	1	0.48	50	0.74	672	<1	0.02	14	610	12	0.03	<2	5	11
CC152344		10	<1	0.09	20	0.23	570	2	0.01	22	350	10	0.02	<2	1	11
CC152345		10	<1	0.14	10	0.60	398	1	0.01	66	530	12	0.02	<2	3	8
CC152346		10	<1	0.11	10	1.19	624	<1	0.04	138	560	12	0.05	<2	5	16
CC152347		10	<1	0.10	10	2.56	790	1	0.02	346	470	8	0.03	<2	4	15
CC152348		10	1	0.21	10	2.58	1865	1	0.02	296	1360	9	0.04	<2	7	34
CC152349		10	<1	0.40	10	1.61	2030	1	0.02	209	1450	16	0.06	<2	8	22
CC152350																
CC152351		10	<1	0.12	30	1.20	993	2	0.01	153	460	11	0.02	<2	4	21
CC152352		10	<1	0.13	10	1.80	557	<1	0.01	283	380	10	0.02	<2	5	8
CC152353		10	1	0.25	10	2.18	641	<1	0.01	260	300	10	0.02	<2	4	16
CC152354		10	1	0.20	10	0.42	454	2	0.01	51	290	11	0.01	<2	3	8
CC152355		10	<1	0.16	10	1.16	492	1	0.01	215	230	9	0.01	<2	3	8
CC152356		10	<1	0.12	10	0.81	529	3	0.01	85	230	16	0.01	<2	4	9
CC152357		10	1	0.18	10	0.88	611	2	0.01	183	270	13	0.01	<2	3	8
CC152358		10	1	0.11	10	0.83	1050	2	0.02	161	450	16	0.01	<2	2	7
CC152359		10	1	0.10	10	1.81	595	1	0.01	369	290	13	<0.01	<2	3	11
CC152360																
CC152361		<10	<1	0.07	<10	0.56	143	<1	0.04	25	450	<2	0.01	<2	2	13
CC152362		10	1	0.46	20	1.20	950	1	0.05	73	970	5	0.01	<2	9	28
CC152363		10	1	0.34	20	0.89	984	1	0.03	64	840	8	0.02	<2	7	11
CC152364		10	<1	0.20	20	0.70	693	2	0.02	44	690	16	0.04	<2	4	11
CC152365		10	1	0.14	20	0.59	435	2	0.01	32	560	11	0.04	<2	3	9
CC152366		10	1	0.23	80	0.73	559	2	0.01	28	900	12	0.10	<2	4	11
CC152367		<10	1	0.14	70	0.25	754	5	0.01	21	460	32	0.04	2	3	11
CC152368		<10	<1	0.18	60	0.27	974	6	0.01	31	480	41	0.06	3	5	14
CC152369		10	<1	0.14	20	0.54	410	3	0.01	23	440	17	0.02	<2	3	8



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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		Th	Ti	Ti	U	V	W
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
CC152324		<20	0.10	<10	<10	53	<10
CC152331		40	0.04	<10	<10	6	<10
CC152332		<20	0.07	<10	<10	27	<10
CC152333		<20	0.08	<10	<10	23	<10
CC152334		<20	0.06	<10	<10	23	<10
CC152335		<20	0.10	<10	<10	23	<10
CC152336		<20	0.07	<10	<10	23	<10
CC152337		<20	0.09	<10	<10	24	<10
CC152338		<20	0.06	<10	<10	22	<10
CC152339		<20	0.11	<10	<10	23	<10
CC152340		<20	0.08	<10	<10	25	<10
CC152341		<20	0.06	<10	<10	21	<10
CC152342		<20	0.10	<10	<10	31	<10
CC152343		<20	0.13	<10	<10	37	<10
CC152344		<20	0.08	<10	<10	50	<10
CC152345		<20	0.11	<10	<10	63	<10
CC152346		<20	0.15	<10	<10	78	<10
CC152347		<20	0.10	<10	<10	62	<10
CC152348		<20	0.13	<10	<10	121	<10
CC152349		<20	0.16	<10	<10	117	<10
CC152350							
CC152351		<20	0.10	<10	<10	59	<10
CC152352		<20	0.14	<10	<10	60	<10
CC152353		<20	0.11	<10	<10	49	<10
CC152354		<20	0.14	<10	<10	58	<10
CC152355		<20	0.13	<10	<10	62	<10
CC152356		<20	0.13	<10	<10	54	<10
CC152357		<20	0.11	<10	<10	60	<10
CC152358		<20	0.09	<10	<10	48	<10
CC152359		<20	0.09	<10	<10	42	<10
CC152360							
CC152361		<20	0.07	<10	<10	27	<10
CC152362		<20	0.16	<10	<10	99	<10
CC152363		<20	0.15	<10	<10	89	<10
CC152364		<20	0.10	<10	<10	70	<10
CC152365		<20	0.08	<10	<10	55	<10
CC152366		<20	0.09	<10	<10	57	<10
CC152367		<20	0.03	<10	<10	30	<10
CC152368		20	0.03	<10	<10	34	<10
CC152369		<20	0.08	<10	<10	47	<10



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
CC152370		.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
		0.26	0.001	0.2	1.94	13	<10	170	1.7	<2	0.10	<0.5	6	30	25	3.46



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
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Project: Wolverine - 4C West

CERTIFICATE OF ANALYSIS WH11158204

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC152370		10	1	0.21	20	0.63	402	2	0.01	25	560	16	0.03	<2	4	10



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Project: Wolverine - 4C West

CERTIFICATE OF ANALYSIS WH11158204

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC152370		<20	0.10	<10	<10	43	<10	93



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CERTIFICATE WH11149969

Project: WLV-Finlayson String
P.O. No.:
This report is for 210 Soil samples submitted to our lab in Whitehorse, YT, Canada on 9-AUG-2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LOG-24	Pulp Login - Rcd w/o Barcode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Project: WLW-Finlayson String

CERTIFICATE OF ANALYSIS WH11149969

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm	ME-ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
CC152301		0.18	0.012	0.3	1.69	15	<10	310	2.0	<2	0.88	<0.5	35	149	109	5.99
CC152302		0.14	0.007	0.2	2.30	8	<10	220	1.0	<2	1.60	<0.5	35	133	122	4.67
CC152303		0.12	0.003	<0.2	1.63	6	<10	190	1.0	<2	1.31	<0.5	19	114	77	3.17
CC152304		0.10	<0.001	0.2	0.88	14	<10	190	0.6	<2	0.22	<0.5	12	49	56	2.71
CC152305		0.10	0.005	0.2	0.97	35	<10	270	1.9	<2	0.09	<0.5	8	21	36	3.76
CC152306		0.10	<0.001	0.3	1.06	7	<10	140	0.7	<2	0.20	0.8	8	44	25	2.20
CC152307		0.10	0.005	<0.2	2.01	13	<10	240	1.5	<2	0.47	<0.5	28	106	78	5.25
CC152308		0.12	<0.001	<0.2	0.42	2	<10	30	<0.5	<2	0.03	<0.5	3	11	6	1.08
CC152309		0.08	0.006	1.5	0.63	7	<10	310	0.8	<2	0.02	<0.5	3	25	35	6.06
CC152310		0.16	0.013	0.4	1.20	5	<10	1310	0.6	<2	0.03	<0.5	3	20	24	3.90
CC152311		0.08	<0.001	0.2	0.09	<2	<10	100	<0.5	<2	0.03	<0.5	2	3	3	0.21
CC152312		0.08	<0.001	<0.2	0.39	3	<10	90	<0.5	<2	0.02	<0.5	3	14	30	1.34
CC152313		0.10	<0.001	0.9	0.28	3	<10	30	<0.5	<2	0.02	<0.5	2	2	3	0.23
CC152314		0.10	<0.001	0.3	0.72	8	<10	1880	<0.5	<2	0.04	<0.5	3	20	32	3.24
CC152315		0.10	<0.001	0.3	0.51	2	<10	130	<0.5	<2	0.03	<0.5	3	10	13	1.23
CC152316		0.10	0.011	<0.2	1.32	<2	<10	780	1.3	<2	0.28	0.6	4	19	17	2.04
CC152317		0.10	<0.001	0.2	1.45	4	<10	250	0.8	<2	0.06	<0.5	3	18	15	2.67
CC152318		0.06	<0.001	0.2	1.29	5	<10	210	0.6	<2	0.09	<0.5	4	23	13	3.05
CC152319		0.06	<0.001	0.4	0.76	2	<10	260	<0.5	<2	0.08	<0.5	4	9	8	1.24
CC152320		0.02	NSS	0.4	0.76	<2	<10	1460	0.7	<2	0.27	1.3	38	22	18	2.32



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Project: WLV-Finlayson String

CERTIFICATE OF ANALYSIS WH11149969

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
CC152301		<20	0.01	<10	<10	128	<10	72
CC152302		<20	0.01	<10	<10	99	<10	52
CC152303		<20	0.06	<10	<10	76	<10	60
CC152304		<20	0.02	<10	<10	56	<10	79
CC152305		<20	0.03	<10	<10	40	<10	98
CC152306		<20	0.03	<10	<10	45	<10	67
CC152307		<20	0.04	<10	<10	99	<10	75
CC152308		<20	0.04	<10	<10	24	<10	17
CC152309		<20	0.01	<10	<10	82	<10	80
CC152310		<20	0.05	<10	<10	59	<10	41
CC152311		<20	0.01	<10	<10	6	<10	8
CC152312		<20	0.02	<10	<10	33	<10	49
CC152313		<20	0.01	<10	<10	4	<10	3
CC152314		<20	0.05	<10	<10	67	<10	90
CC152315		<20	0.03	<10	<10	21	<10	34
CC152316		<20	0.04	<10	<10	30	<10	77
CC152317		<20	0.10	<10	<10	39	<10	64
CC152318		<20	0.11	<10	<10	49	<10	76
CC152319		<20	0.06	<10	<10	21	<10	38
CC152320		<20	0.04	<10	<10	40	<10	167



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CERTIFICATE OF ANALYSIS WH11149969

Method	CERTIFICATE COMMENTS
ALL METHODS	NSS is non-sufficient sample.



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CERTIFICATE WH11138512

Project: Wolverine- 4C

P.O. No.:

This report is for 178 Soil samples submitted to our lab in Whitehorse, YT, Canada on 20-JUL- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Project: Wolverine- 4C

CERTIFICATE OF ANALYSIS WH11138512

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC147551		0.26	0.002	0.7	1.43	2	<10	1220	1.3	<2	0.08	0.8	8	28	49	3.74
CC147552		0.18	0.001	0.4	0.56	<2	<10	260	<0.5	<2	0.03	<0.5	2	14	27	2.17
CC147553		0.28	<0.001	0.3	0.93	<2	<10	160	0.5	<2	0.05	<0.5	4	18	19	1.76
CC147554		0.24	0.004	0.3	1.63	2	<10	320	0.9	<2	0.07	<0.5	7	31	33	3.96
CC147555		0.24	<0.001	0.3	1.54	<2	<10	130	0.9	<2	0.06	0.5	5	22	18	3.10
CC147556		0.20	<0.001	0.2	0.73	<2	<10	50	0.5	<2	0.04	<0.5	2	13	15	1.19
CC147557		0.20	0.002	0.3	1.97	3	<10	110	1.7	<2	0.08	0.5	5	28	13	2.91
CC147558		0.18	<0.001	0.3	1.19	<2	<10	140	0.8	<2	0.10	0.7	9	25	24	2.31
CC147559		0.26	<0.001	0.2	1.70	<2	<10	80	1.1	<2	0.10	<0.5	6	38	22	3.13
CC147560		0.28	<0.001	0.2	1.22	<2	<10	90	0.7	<2	0.07	0.9	6	26	23	2.50
CC147561		0.28	<0.001	0.3	1.05	<2	<10	80	0.5	<2	0.10	<0.5	6	38	21	2.33
CC147562		0.34	<0.001	0.2	1.72	5	<10	90	1.1	<2	0.10	<0.5	7	46	29	3.02
CC147563		0.42	<0.001	0.3	1.78	<2	<10	120	1.0	<2	0.09	<0.5	7	40	30	2.62
CC147564		0.38	0.002	0.2	1.52	8	<10	170	1.2	<2	0.16	<0.5	10	37	43	3.03
CC147565		0.36	0.001	0.2	1.48	3	<10	140	1.0	<2	0.10	<0.5	12	40	35	2.77
CC147566		0.30	0.002	0.2	1.63	15	<10	130	0.9	<2	0.13	0.5	11	50	45	3.33
CC147567		0.36	0.010	0.3	1.58	34	<10	180	0.7	<2	0.09	0.6	10	57	46	3.51
CC147568		0.22	0.001	0.2	1.62	4	<10	240	0.8	<2	0.14	<0.5	11	57	59	2.86
CC147569		0.30	0.003	0.3	2.53	2	<10	370	1.1	<2	0.23	<0.5	14	64	75	3.51
CC147570		0.26	0.002	0.3	0.55	<2	<10	510	4.5	<2	0.05	0.5	24	44	145	5.89
CC147571		0.32	0.003	0.4	1.88	<2	<10	390	1.7	<2	0.11	<0.5	15	63	86	3.58
CC147572		0.32	0.004	0.3	1.98	30	<10	350	1.1	2	0.10	0.5	12	65	56	3.60
CC147573		0.28	<0.001	0.2	2.03	6	<10	120	2.0	<2	0.10	<0.5	7	27	25	3.52
CC147574		0.30	<0.001	0.5	3.01	16	<10	170	1.2	<2	0.71	<0.5	61	396	50	3.92
CC147575		0.36	0.002	0.3	1.56	3	<10	80	1.0	<2	0.10	<0.5	7	35	23	2.73
CC147576		0.46	<0.001	0.5	1.70	3	<10	110	1.2	<2	0.08	<0.5	9	39	27	3.06
CC147577		0.32	0.001	0.2	3.04	5	<10	100	2.1	<2	0.17	<0.5	8	29	23	2.87
CC147578		0.30	<0.001	0.2	1.58	2	<10	100	1.0	<2	0.12	<0.5	7	27	22	2.51
CC147579		0.34	0.001	0.2	2.31	<2	<10	100	1.8	<2	0.14	<0.5	8	49	23	2.76
CC147580		0.40	0.001	0.2	2.27	2	<10	110	2.3	<2	0.14	<0.5	7	32	24	2.99
CC147791		0.26	0.001	0.3	2.50	<2	<10	490	0.6	<2	0.80	<0.5	20	88	122	3.39
CC147792		0.22	0.001	0.2	2.34	<2	<10	340	1.0	<2	0.53	<0.5	24	91	122	3.93
CC147793		0.22	0.004	0.3	1.67	10	<10	460	1.2	<2	0.74	<0.5	32	123	114	4.77
CC147794		0.26	0.067	0.6	1.89	10	<10	1310	2.0	<2	0.62	0.7	28	94	141	5.87
CC147795		0.40	0.009	0.5	1.23	16	<10	610	2.0	<2	0.22	1.2	16	47	69	4.64
CC147796		0.32	0.005	0.7	1.75	19	<10	340	3.0	<2	0.15	0.9	13	27	54	4.25
CC147797		0.28	0.023	0.4	0.76	40	<10	420	1.6	<2	0.15	0.8	11	19	50	4.78
CC147798		0.26	0.011	0.2	1.02	20	<10	380	2.1	<2	0.20	0.5	8	17	32	4.86
CC147799		0.18	<0.001	<0.2	1.22	3	<10	230	2.8	<2	0.17	1.0	6	5	18	3.49
CC147731		0.26	<0.001	<0.2	2.14	3	<10	250	4.2	<2	0.38	0.9	5	6	9	4.34



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Account: F

Project: Wolverine- 4C

CERTIFICATE OF ANALYSIS WH11138512

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC147551		10	<1	0.11	10	0.32	809	5	0.01	44	540	25	0.09	<2	2	24
CC147552		10	<1	0.05	10	0.06	252	4	0.01	12	380	17	0.06	<2	1	11
CC147553		<10	<1	0.07	10	0.22	281	1	0.01	14	380	9	0.04	<2	1	8
CC147554		10	<1	0.14	10	0.38	900	4	0.01	25	590	16	0.05	<2	2	16
CC147555		10	<1	0.23	10	0.39	1010	3	0.01	17	620	13	0.04	<2	1	9
CC147556		10	<1	0.08	10	0.12	846	1	0.01	7	480	3	0.04	<2	<1	5
CC147557		10	<1	0.26	10	0.64	362	2	<0.01	16	310	3	0.04	<2	2	9
CC147558		10	<1	0.14	10	0.27	1550	2	0.01	12	480	11	0.05	<2	1	12
CC147559		10	<1	0.19	10	0.51	372	2	0.01	21	350	5	0.03	<2	3	7
CC147560		10	<1	0.16	10	0.29	740	3	0.01	14	520	16	0.05	<2	1	8
CC147561		10	<1	0.09	10	0.32	673	2	0.01	20	500	12	0.06	<2	1	9
CC147562		10	1	0.13	10	0.52	582	3	0.01	28	550	10	0.07	<2	2	8
CC147563		10	<1	0.10	10	0.38	626	3	0.01	23	640	8	0.08	<2	1	8
CC147564		<10	1	0.11	20	0.50	562	3	0.01	38	560	12	0.05	<2	5	13
CC147565		10	1	0.09	10	0.38	1565	2	0.01	26	700	10	0.07	<2	1	8
CC147566		10	<1	0.08	10	0.43	444	3	0.01	38	490	12	0.06	2	2	10
CC147567		10	1	0.12	10	0.40	869	4	0.01	35	590	19	0.08	2	2	12
CC147568		10	<1	0.12	10	0.56	593	2	0.01	40	500	5	0.06	<2	3	11
CC147569		10	<1	0.16	10	0.78	691	3	0.01	55	510	9	0.06	<2	6	31
CC147570		<10	<1	0.04	10	0.10	2740	3	<0.01	83	350	14	0.03	<2	14	55
CC147571		10	<1	0.21	10	0.61	820	2	0.01	57	570	8	0.05	<2	6	13
CC147572		10	<1	0.19	20	0.72	510	6	0.01	43	690	33	0.07	3	4	17
CC147573		10	<1	0.17	20	0.68	504	3	0.01	27	390	10	0.05	3	4	9
CC147574		10	<1	0.31	10	2.00	854	3	0.02	318	1060	9	0.05	<2	5	37
CC147575		10	1	0.11	20	0.52	328	2	0.01	26	350	25	0.04	<2	3	9
CC147576		10	1	0.13	20	0.44	288	3	0.01	24	410	30	0.06	<2	4	9
CC147577		10	1	0.14	20	0.66	302	2	0.01	25	340	7	0.04	<2	4	12
CC147578		10	<1	0.15	10	0.41	305	2	0.01	18	300	9	0.04	<2	3	9
CC147579		10	<1	0.29	20	0.70	376	2	0.01	23	380	5	0.04	<2	4	8
CC147580		10	<1	0.39	20	0.78	443	2	0.01	23	440	8	0.03	<2	4	11
CC147791		10	1	0.23	10	1.23	645	2	0.03	73	700	5	0.06	<2	6	26
CC147792		10	1	0.15	10	1.23	888	2	0.03	61	680	3	0.05	<2	9	16
CC147793		10	1	0.28	10	1.10	1445	2	0.04	111	790	6	0.02	<2	16	22
CC147794		10	1	0.66	30	1.03	2870	4	0.02	107	1350	13	0.03	4	17	31
CC147795		10	1	0.36	40	0.56	1540	4	0.01	54	670	29	0.07	4	9	25
CC147796		10	<1	0.28	50	0.43	1145	5	0.01	34	750	23	0.09	<2	6	27
CC147797		<10	1	0.28	40	0.26	936	7	<0.01	35	610	60	0.15	6	6	34
CC147798		<10	1	0.27	80	0.31	818	6	0.01	21	590	54	0.16	3	6	27
CC147799		10	<1	0.41	70	0.45	958	5	0.01	12	440	17	0.04	<2	5	11
CC147731		10	1	0.61	110	0.76	971	3	0.01	6	480	11	<0.01	<2	8	9



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 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10
CC147551		<20	0.05	<10	<10	68	<10
CC147552		<20	0.05	<10	<10	68	<10
CC147553		<20	0.05	<10	<10	38	<10
CC147554		<20	0.12	<10	<10	98	<10
CC147555		<20	0.12	<10	<10	70	<10
CC147556		<20	0.05	<10	<10	26	<10
CC147557		<20	0.10	<10	<10	35	<10
CC147558		<20	0.08	<10	<10	44	<10
CC147559		<20	0.14	<10	<10	57	<10
CC147560		<20	0.09	<10	<10	47	<10
CC147561		<20	0.07	<10	<10	56	<10
CC147562		<20	0.09	<10	<10	56	<10
CC147563		<20	0.06	<10	<10	57	<10
CC147564		<20	0.08	<10	<10	53	<10
CC147565		<20	0.05	<10	<10	56	<10
CC147566		<20	0.06	<10	<10	67	<10
CC147567		<20	0.09	<10	<10	82	<10
CC147568		<20	0.09	<10	<10	72	<10
CC147569		<20	0.17	<10	<10	102	<10
CC147570		<20	0.01	<10	<10	101	<10
CC147571		<20	0.11	<10	<10	93	<10
CC147572		<20	0.10	<10	<10	99	<10
CC147573		<20	0.11	<10	<10	44	<10
CC147574		<20	0.15	<10	<10	98	10
CC147575		<20	0.08	<10	<10	41	<10
CC147576		<20	0.08	<10	<10	45	<10
CC147577		<20	0.11	<10	<10	36	<10
CC147578		<20	0.14	<10	<10	52	<10
CC147579		<20	0.14	<10	<10	47	<10
CC147580		<20	0.13	<10	<10	35	<10
CC147791		<20	0.17	<10	<10	103	<10
CC147792		<20	0.12	<10	<10	92	<10
CC147793		<20	0.11	<10	<10	100	<10
CC147794		<20	0.16	<10	<10	133	<10
CC147795		<20	0.09	<10	<10	69	<10
CC147796		<20	0.07	<10	<10	48	<10
CC147797		20	0.04	<10	<10	43	<10
CC147798		20	0.03	<10	<10	35	<10
CC147799		20	0.08	<10	<10	21	<10
CC147731		30	0.12	<10	<10	24	<10



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North Vancouver BC V7H 0A7
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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC147732		0.46	<0.001	<0.2	2.28	7	<10	150	4.7	<2	0.41	0.8	7	5	14	3.92
CC147733		0.52	<0.001	<0.2	1.64	<2	<10	360	5.0	<2	0.26	<0.5	5	2	10	3.31
CC147734		0.46	<0.001	<0.2	2.33	26	<10	270	5.0	<2	0.36	<0.5	6	5	8	3.82
CC147735		0.42	0.002	<0.2	1.67	4	<10	250	3.5	<2	0.42	<0.5	6	4	10	3.28
CC147736		0.26	0.005	<0.2	1.32	61	<10	340	2.7	<2	0.22	<0.5	6	3	9	2.99
CC147737		0.36	0.002	<0.2	1.40	25	<10	340	3.4	<2	0.22	<0.5	7	3	12	4.06
CC147738		0.28	<0.001	<0.2	2.08	3	<10	200	4.0	2	0.21	<0.5	12	17	26	4.26
CC147739		0.34	0.004	<0.2	2.33	<2	<10	1450	1.6	<2	0.39	<0.5	20	88	97	5.33
CC147781		0.24	<0.001	<0.2	2.49	<2	<10	250	<0.5	<2	0.59	<0.5	43	152	116	4.42
CC147782		0.32	<0.001	<0.2	2.98	<2	<10	320	0.9	<2	0.64	<0.5	23	98	98	5.54
CC147783		0.30	0.007	<0.2	1.77	<2	<10	110	<0.5	<2	0.51	<0.5	17	71	80	3.69
CC147784		0.26	0.002	<0.2	1.15	<2	<10	80	<0.5	<2	0.30	0.5	49	49	184	4.22
CC147785		0.34	0.004	<0.2	2.23	<2	<10	30	<0.5	<2	0.32	<0.5	15	75	60	2.27
CC147786		0.44	0.001	<0.2	2.05	<2	<10	40	<0.5	<2	0.69	<0.5	12	74	80	1.67
CC147787		0.20	<0.001	<0.2	1.56	<2	<10	30	<0.5	<2	0.40	<0.5	10	49	74	1.43
CC147788		0.22	<0.001	<0.2	1.63	<2	<10	40	<0.5	<2	0.35	<0.5	13	53	74	1.64
CC147789		0.26	0.004	<0.2	2.83	7	<10	170	0.5	<2	0.79	<0.5	27	77	147	3.41
CC147790		0.28	0.001	<0.2	2.37	<2	<10	40	<0.5	<2	0.67	<0.5	17	75	128	2.60
CC147801		0.18	0.002	<0.2	0.58	<2	<10	400	<0.5	<2	0.05	<0.5	2	16	29	3.16
CC147802		0.22	0.007	<0.2	1.43	<2	<10	1120	1.7	<2	0.11	<0.5	9	25	59	5.95
CC147803		0.22	0.012	0.4	1.37	<2	<10	980	1.6	<2	0.16	0.5	5	27	62	4.33
CC147804		0.16	<0.001	<0.2	1.64	2	<10	1050	1.3	<2	0.19	2.5	12	31	40	3.23
CC147805		0.16	<0.001	<0.2	1.74	<2	<10	60	1.1	<2	0.09	<0.5	5	27	21	2.40
CC147806		0.16	<0.001	<0.2	1.87	<2	<10	70	1.4	<2	0.09	<0.5	7	34	17	2.96
CC147807		0.24	0.001	<0.2	2.08	<2	<10	70	2.0	<2	0.13	<0.5	6	35	14	3.17
CC147808		0.16	<0.001	<0.2	1.65	<2	<10	110	1.4	<2	0.15	<0.5	6	33	18	2.91
CC147809		0.22	<0.001	<0.2	1.19	<2	<10	60	0.5	<2	0.10	<0.5	4	37	16	2.16
CC147810		0.18	<0.001	<0.2	1.60	<2	<10	90	1.0	<2	0.09	<0.5	4	22	13	2.76
CC147811		0.18	<0.001	<0.2	1.10	<2	<10	200	0.6	<2	0.06	0.5	13	32	20	2.38
CC147812		0.18	<0.001	0.2	1.87	2	<10	120	1.7	<2	0.15	0.8	9	57	25	3.08
CC147813		0.14	0.004	0.6	1.18	6	<10	120	0.7	<2	0.12	<0.5	10	75	31	3.26
CC147814		0.20	<0.001	<0.2	1.80	<2	<10	150	1.0	<2	0.15	<0.5	8	51	33	2.99
CC147815		0.16	<0.001	0.2	1.51	7	<10	290	1.2	<2	0.12	0.6	12	44	36	3.28
CC147816		0.28	0.001	0.5	1.36	21	<10	270	0.8	<2	0.09	<0.5	9	50	48	3.19
CC147817		0.20	<0.001	0.2	0.85	<2	<10	210	0.6	<2	0.09	<0.5	6	46	65	2.82
CC147818		0.22	0.002	0.2	2.32	2	<10	550	0.9	<2	0.19	<0.5	15	77	81	3.59
CC147819		0.08	<0.001	<0.2	2.20	2	<10	620	1.6	2	0.22	<0.5	21	68	101	2.96
CC147820		0.18	0.012	0.6	1.40	<2	<10	940	2.3	<2	0.42	<0.5	23	89	168	5.52
CC147821		0.24	0.007	0.5	0.95	7	<10	860	6.0	<2	0.15	0.9	19	54	114	5.08
CC147822		0.22	0.009	1.1	1.94	47	<10	580	3.3	<2	0.30	1.1	18	61	91	6.09



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC147732		10	<1	0.69	90	0.90	753	2	0.01	5	660	23	<0.01	<2	8	10
CC147733		10	<1	0.41	110	0.50	694	3	<0.01	3	240	7	<0.01	<2	4	7
CC147734		10	1	0.74	90	1.00	577	1	<0.01	3	550	8	<0.01	<2	8	6
CC147735		10	1	0.30	70	0.50	760	3	<0.01	4	470	7	<0.01	<2	6	13
CC147736		10	1	0.42	70	0.51	768	2	<0.01	3	410	12	0.02	<2	5	6
CC147737		10	<1	0.49	90	0.51	695	5	<0.01	6	530	17	0.12	<2	7	11
CC147738		10	<1	0.56	70	0.84	846	5	0.01	14	410	23	0.08	<2	6	11
CC147739		10	1	0.79	20	1.20	1590	2	0.01	85	810	22	0.03	<2	13	14
CC147781		10	1	0.23	<10	2.50	641	<1	0.04	112	400	<2	0.02	<2	13	8
CC147782		10	<1	0.54	30	1.37	749	<1	0.03	62	860	13	0.01	<2	13	13
CC147783		10	<1	0.13	10	0.93	539	<1	0.02	38	520	3	0.03	<2	8	8
CC147784		<10	1	0.05	<10	0.77	524	<1	0.03	72	600	<2	0.11	<2	10	7
CC147785		<10	<1	0.05	<10	0.77	245	<1	0.03	51	600	<2	0.02	2	4	8
CC147786		<10	<1	0.07	<10	0.80	198	<1	0.05	44	540	<2	<0.01	<2	4	18
CC147787		<10	<1	0.05	<10	0.54	207	<1	0.03	32	470	<2	<0.01	<2	3	9
CC147788		<10	1	0.04	<10	0.63	155	<1	0.03	33	450	<2	<0.01	<2	3	8
CC147789		10	<1	0.09	10	1.14	494	1	0.04	60	670	3	0.04	<2	6	29
CC147790		<10	<1	0.09	<10	1.12	399	<1	0.04	38	760	<2	0.03	<2	4	17
CC147801		10	<1	0.06	10	0.04	320	2	<0.01	15	560	14	0.03	<2	<1	7
CC147802		10	1	0.11	10	0.30	1285	3	<0.01	50	740	27	0.05	<2	2	18
CC147803		10	<1	0.10	10	0.30	582	3	0.01	42	1100	31	0.06	<2	1	23
CC147804		10	<1	0.24	10	0.49	2310	2	0.01	31	1020	21	0.08	<2	2	23
CC147805		10	<1	0.15	10	0.38	571	1	0.01	16	720	7	0.05	<2	1	7
CC147806		10	1	0.28	10	0.58	440	1	<0.01	18	570	6	0.04	<2	2	6
CC147807		10	1	0.24	10	0.62	337	1	<0.01	18	400	5	0.02	<2	3	7
CC147808		10	1	0.16	10	0.51	421	1	0.01	18	380	8	0.01	<2	3	7
CC147809		10	<1	0.08	10	0.30	371	1	0.01	13	550	8	0.05	<2	1	5
CC147810		10	1	0.30	10	0.56	584	2	0.01	13	450	11	0.03	<2	2	6
CC147811		10	<1	0.12	10	0.20	2950	3	0.01	15	670	25	0.07	<2	1	6
CC147812		10	1	0.11	20	0.49	994	2	0.01	32	930	17	0.09	<2	1	11
CC147813		10	1	0.15	10	0.36	708	2	0.01	37	610	13	0.05	<2	2	9
CC147814		10	<1	0.09	10	0.57	443	1	0.01	31	640	10	0.05	<2	2	9
CC147815		10	<1	0.12	10	0.31	1650	2	0.04	24	910	19	0.09	<2	1	12
CC147816		10	<1	0.12	10	0.41	1715	2	0.04	32	860	23	0.10	<2	1	13
CC147817		10	<1	0.11	10	0.22	437	2	0.03	34	390	8	0.03	<2	4	8
CC147818		10	<1	0.33	10	0.84	960	1	0.04	60	640	7	0.05	<2	8	19
CC147819		10	<1	0.28	10	0.83	1120	<1	0.05	60	720	8	0.05	<2	5	15
CC147820		10	<1	0.14	60	0.49	3370	3	0.04	94	940	14	0.04	<2	15	26
CC147821		<10	<1	0.19	30	0.30	2950	3	0.04	76	740	20	0.04	<2	15	30
CC147822		10	<1	0.39	60	0.79	1610	6	0.04	82	1430	67	0.13	3	10	33



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC147732		30	0.16	<10	<10	30	<10	156
CC147733		40	0.06	<10	<10	8	<10	99
CC147734		30	0.17	<10	<10	34	<10	108
CC147735		30	0.07	<10	<10	18	<10	61
CC147736		20	0.07	<10	<10	13	<10	70
CC147737		30	0.08	<10	<10	18	<10	90
CC147738		20	0.10	<10	<10	33	<10	102
CC147739		<20	0.18	<10	<10	120	<10	169
CC147781		<20	0.12	<10	<10	121	<10	69
CC147782		<20	0.17	<10	<10	127	<10	115
CC147783		<20	0.10	<10	<10	90	<10	61
CC147784		<20	0.05	<10	<10	73	<10	140
CC147785		<20	0.08	<10	<10	47	<10	37
CC147786		<20	0.10	<10	<10	41	<10	26
CC147787		<20	0.09	<10	<10	35	<10	23
CC147788		<20	0.07	<10	<10	39	<10	25
CC147789		<20	0.11	<10	<10	85	<10	46
CC147790		<20	0.15	<10	<10	63	<10	40
CC147801		<20	0.01	<10	<10	77	<10	88
CC147802		<20	0.05	<10	<10	79	<10	442
CC147803		<20	0.04	<10	<10	69	<10	332
CC147804		<20	0.07	<10	<10	72	<10	294
CC147805		<20	0.06	<10	<10	40	<10	53
CC147806		<20	0.08	<10	<10	47	<10	74
CC147807		<20	0.10	<10	<10	42	<10	69
CC147808		<20	0.12	<10	<10	45	<10	70
CC147809		<20	0.11	<10	<10	60	<10	41
CC147810		<20	0.12	<10	<10	46	<10	62
CC147811		<20	0.07	<10	<10	53	<10	72
CC147812		<20	0.05	<10	<10	57	<10	76
CC147813		<20	0.10	<10	<10	83	<10	94
CC147814		<20	0.07	<10	<10	63	<10	70
CC147815		<20	0.05	<10	<10	78	<10	91
CC147816		<20	0.05	<10	<10	79	<10	100
CC147817		<20	0.12	<10	<10	103	<10	85
CC147818		<20	0.16	<10	<10	104	<10	124
CC147819		<20	0.12	<10	<10	78	<10	102
CC147820		<20	0.06	<10	<10	133	<10	228
CC147821		<20	0.05	<10	<10	104	<10	190
CC147822		<20	0.10	<10	<10	120	<10	238



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North Vancouver BC V7H 0A7
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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC147823		0.20	0.002	0.5	2.47	9	<10	170	2.8	<2	0.47	0.5	10	37	42	4.20
CC147824		0.20	0.001	0.5	2.52	4	<10	130	3.6	<2	0.38	<0.5	7	28	25	3.43
CC147825		0.20	0.001	0.5	2.12	2	<10	150	3.1	2	0.15	<0.5	6	18	17	3.10
CC147826		0.24	0.001	0.3	1.88	3	<10	150	3.8	<2	0.28	<0.5	8	20	24	3.54
CC147827		0.20	0.001	<0.2	2.45	3	<10	180	4.5	<2	0.30	<0.5	11	61	24	4.25
CC147828		0.30	0.001	<0.2	2.13	6	<10	130	1.7	<2	0.13	<0.5	8	37	28	3.02
CC147829		0.18	0.001	<0.2	2.49	5	<10	120	1.1	<2	0.15	<0.5	9	49	33	2.91
CC147830		0.22	0.012	<0.2	2.38	5	<10	200	1.2	<2	0.21	<0.5	9	51	41	3.08
CC147911		0.28	0.004	<0.2	2.32	6	<10	200	0.8	<2	0.33	<0.5	15	61	73	2.93
CC147912		0.32	0.001	0.2	1.66	3	<10	140	0.6	<2	0.16	<0.5	9	53	32	2.43
CC147913		0.22	0.001	0.2	1.84	3	<10	120	0.6	2	0.15	<0.5	9	57	41	2.65
CC147914		0.26	0.003	0.2	1.75	<2	<10	100	0.6	<2	0.14	<0.5	7	53	38	2.54
CC147915		0.16	0.001	0.3	1.29	<2	<10	200	1.3	<2	0.07	<0.5	28	25	27	2.10
CC147916		0.16	0.002	0.3	1.10	2	<10	80	0.5	<2	0.16	<0.5	8	35	23	2.06
CC147917		0.28	0.002	0.2	2.09	5	<10	120	1.5	<2	0.12	<0.5	8	27	30	2.88
CC147918		0.28	<0.001	0.2	1.33	3	<10	80	0.5	<2	0.15	<0.5	7	40	28	2.94
CC147919		0.22	0.003	0.2	1.08	4	<10	70	0.6	<2	0.06	<0.5	4	21	14	2.62
CC147920		0.20	<0.001	<0.2	1.76	3	<10	120	1.9	<2	0.08	<0.5	5	22	18	2.86
CC147921		0.20	<0.001	<0.2	1.44	<2	<10	70	0.6	<2	0.08	<0.5	4	23	13	2.54
CC147922		0.20	0.002	0.2	1.14	3	<10	80	0.6	<2	0.05	<0.5	4	15	13	2.08
CC147923		0.24	0.002	0.3	2.08	3	<10	130	1.6	<2	0.13	<0.5	6	32	21	2.99
CC147924		0.22	0.002	0.2	2.20	5	<10	730	1.4	<2	0.23	0.6	9	38	38	3.93
CC147925		0.14	0.003	<0.2	0.66	2	<10	240	<0.5	<2	0.07	<0.5	2	18	15	2.11
CC147926		0.20	0.006	<0.2	1.75	5	<10	530	1.0	2	0.10	<0.5	6	31	33	5.12
CC147927		0.22	0.003	0.3	0.75	<2	<10	200	<0.5	<2	0.06	<0.5	3	17	16	2.12
CC147928		0.26	0.002	0.3	0.78	3	<10	120	<0.5	<2	0.04	<0.5	3	13	11	1.51
CC147929		0.26	0.003	0.5	1.63	4	<10	220	1.1	<2	0.06	<0.5	7	33	32	3.42
CC147930		0.32	0.001	1.0	1.40	5	<10	460	0.8	<2	0.10	<0.5	5	34	23	2.54
CC147931		0.22	0.001	0.6	1.18	3	<10	330	0.7	<2	0.08	0.8	6	37	47	3.83
CC147932		0.28	0.001	0.2	0.67	<2	<10	250	<0.5	<2	0.05	0.5	3	20	21	2.15
CC147933		0.30	0.001	0.2	0.84	<2	<10	140	<0.5	<2	0.07	<0.5	4	24	14	1.83
CC147934		0.18	0.002	0.2	0.58	<2	<10	80	<0.5	<2	0.09	<0.5	3	14	7	1.08
CC147935		0.16	0.001	0.2	0.26	<2	<10	30	<0.5	<2	0.04	<0.5	1	7	4	0.52
CC147936		0.18	<0.001	0.3	0.81	<2	<10	110	<0.5	<2	0.06	<0.5	4	30	14	2.24
CC147937		0.20	<0.001	0.2	1.50	<2	<10	230	0.7	<2	0.07	0.5	5	34	18	2.75
CC147938		0.18	<0.001	0.2	0.81	<2	<10	90	<0.5	<2	0.04	<0.5	3	19	10	1.49
CC147939		0.22	<0.001	0.3	1.54	<2	<10	260	0.7	<2	0.18	<0.5	6	33	23	2.31
CC147940		0.14	0.001	0.2	1.21	2	<10	170	0.5	<2	0.06	<0.5	5	32	18	2.85
CC147941		0.20	0.013	0.3	0.92	<2	<10	100	<0.5	<2	0.04	<0.5	3	18	11	1.85
CC147942		0.24	<0.001	0.2	0.51	<2	<10	110	<0.5	<2	0.03	<0.5	2	11	6	1.00



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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CERTIFICATE OF ANALYSIS WH11138512

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC147823		10	<1	0.26	30	0.79	970	3	0.04	34	840	56	0.08	<2	4	24
CC147824		10	<1	0.28	50	0.78	745	2	0.04	21	550	40	0.05	<2	4	22
CC147825		10	<1	0.22	50	0.57	796	2	0.04	11	450	64	0.05	<2	4	13
CC147826		10	<1	0.36	60	0.61	962	1	0.04	12	480	29	0.03	<2	6	17
CC147827		10	<1	0.44	80	0.93	976	<1	0.04	27	490	9	0.03	2	9	12
CC147828		10	<1	0.25	20	0.72	425	<1	0.04	26	550	9	0.02	<2	4	9
CC147829		10	<1	0.18	10	0.66	458	<1	0.04	25	770	8	0.05	<2	3	9
CC147830		10	<1	0.19	20	0.75	370	<1	0.04	38	930	10	0.04	<2	4	17
CC147911		10	<1	0.09	10	0.72	660	<1	0.05	53	910	9	0.03	<2	5	15
CC147912		10	<1	0.07	10	0.43	605	<1	0.05	27	660	6	0.04	<2	2	8
CC147913		10	<1	0.08	<10	0.45	701	<1	0.04	26	600	6	0.03	<2	2	6
CC147914		10	<1	0.06	10	0.38	587	<1	0.05	23	640	6	0.04	<2	1	7
CC147915		10	<1	0.07	10	0.15	3450	1	0.03	13	610	10	0.04	<2	1	7
CC147916		10	<1	0.05	10	0.32	628	<1	0.05	16	410	5	0.02	<2	3	6
CC147917		10	<1	0.18	20	0.53	645	1	0.04	24	680	11	0.03	<2	3	9
CC147918		10	<1	0.09	10	0.45	636	1	0.05	19	720	8	0.02	<2	3	7
CC147919		10	<1	0.11	10	0.25	332	1	0.04	11	470	16	0.03	<2	1	6
CC147920		10	<1	0.24	20	0.49	325	1	0.03	15	320	9	0.02	<2	3	7
CC147921		10	<1	0.16	10	0.38	341	1	0.04	10	360	7	0.02	<2	2	6
CC147922		10	<1	0.12	10	0.28	315	1	0.03	10	530	8	0.02	<2	1	7
CC147923		10	<1	0.24	10	0.67	336	1	0.03	26	430	11	0.02	<2	4	12
CC147924		10	<1	0.28	10	0.78	493	1	0.04	36	840	18	0.05	<2	5	27
CC147925		10	<1	0.06	10	0.12	132	2	0.03	9	310	13	0.02	<2	1	8
CC147926		10	<1	0.18	10	0.50	576	3	0.04	30	720	19	0.04	2	4	14
CC147927		10	<1	0.08	10	0.13	137	3	0.03	11	330	12	0.02	<2	1	8
CC147928		10	<1	0.06	10	0.12	121	1	0.04	8	310	15	0.02	<2	1	6
CC147929		10	<1	0.12	10	0.42	403	2	0.03	27	420	21	0.03	<2	4	9
CC147930		10	<1	0.10	20	0.32	250	2	0.04	21	460	19	0.02	<2	3	14
CC147931		10	<1	0.09	10	0.30	444	6	0.01	42	1030	49	0.05	<2	3	14
CC147932		10	1	0.08	10	0.19	198	5	0.01	22	280	19	0.03	<2	1	11
CC147933		10	<1	0.11	10	0.24	254	2	0.01	14	300	15	0.02	<2	2	9
CC147934		10	1	0.08	10	0.14	209	1	0.01	7	230	5	0.02	<2	1	9
CC147935		<10	<1	0.03	10	0.02	37	1	0.02	3	140	<2	0.01	<2	<1	5
CC147936		10	<1	0.06	10	0.24	207	2	0.01	18	300	5	0.01	<2	2	7
CC147937		10	<1	0.08	10	0.43	245	2	0.01	21	280	10	0.02	<2	3	7
CC147938		10	<1	0.08	10	0.19	132	2	0.01	11	190	9	0.01	<2	1	6
CC147939		10	1	0.14	10	0.38	305	2	0.02	22	580	14	0.03	<2	2	11
CC147940		10	<1	0.10	10	0.37	294	2	0.01	22	390	10	0.01	<2	3	7
CC147941		10	<1	0.07	10	0.17	227	1	0.01	12	450	11	0.01	<2	2	7
CC147942		10	1	0.04	10	0.07	86	1	0.01	7	260	12	0.01	<2	1	6



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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CERTIFICATE OF ANALYSIS WH11138512

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
CC147823		<20	0.13	<10	<10	82	<10	139
CC147824		<20	0.12	<10	<10	33	<10	117
CC147825		<20	0.08	<10	<10	26	<10	121
CC147826		20	0.09	<10	<10	26	<10	108
CC147827		20	0.12	<10	<10	48	<10	104
CC147828		<20	0.11	<10	<10	41	<10	78
CC147829		<20	0.10	<10	<10	53	<10	54
CC147830		<20	0.12	<10	<10	75	<10	61
CC147911		<20	0.11	<10	<10	66	<10	87
CC147912		<20	0.06	<10	<10	60	<10	62
CC147913		<20	0.06	<10	<10	64	<10	60
CC147914		<20	0.06	<10	<10	58	<10	51
CC147915		<20	0.06	<10	<10	59	<10	43
CC147916		<20	0.11	<10	<10	53	<10	39
CC147917		<20	0.07	<10	<10	43	<10	82
CC147918		<20	0.11	<10	<10	57	<10	54
CC147919		<20	0.08	<10	<10	41	<10	53
CC147920		<20	0.08	<10	<10	33	<10	70
CC147921		<20	0.13	<10	<10	47	<10	57
CC147922		<20	0.09	<10	<10	38	<10	55
CC147923		<20	0.13	<10	<10	64	<10	69
CC147924		<20	0.16	<10	<10	100	<10	141
CC147925		<20	0.08	<10	<10	55	<10	52
CC147926		<20	0.16	<10	<10	98	<10	196
CC147927		<20	0.09	<10	<10	53	<10	55
CC147928		<20	0.06	<10	<10	38	<10	35
CC147929		<20	0.11	<10	<10	68	<10	107
CC147930		<20	0.07	<10	<10	60	<10	88
CC147931		<20	0.05	<10	<10	92	<10	175
CC147932		<20	0.06	<10	<10	71	<10	91
CC147933		<20	0.10	<10	<10	53	<10	66
CC147934		<20	0.07	<10	<10	32	<10	35
CC147935		<20	0.02	<10	<10	16	<10	14
CC147936		<20	0.09	<10	<10	60	<10	58
CC147937		<20	0.10	<10	<10	58	<10	77
CC147938		<20	0.07	<10	<10	39	<10	45
CC147939		<20	0.07	<10	<10	44	<10	74
CC147940		<20	0.11	<10	<10	64	<10	84
CC147941		<20	0.10	<10	<10	46	<10	47
CC147942		<20	0.07	<10	<10	32	<10	24



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC147943		0.32	0.001	0.2	1.14	<2	<10	510	0.8	<2	0.08	<0.5	5	36	29	2.90
CC147944		0.16	0.001	0.2	0.56	<2	<10	210	<0.5	<2	0.03	<0.5	1	13	13	0.86
CC147945		0.24	0.001	0.3	0.97	4	<10	180	<0.5	<2	0.05	<0.5	5	26	24	2.52
CC147946		0.32	0.001	0.2	1.38	3	<10	130	0.9	<2	0.06	<0.5	5	27	23	2.36
CC147947		0.16	<0.001	0.7	4.80	2	<10	400	2.7	2	0.23	2.2	70	502	185	6.44
CC147948		0.24	0.001	0.4	0.30	<2	<10	90	<0.5	<2	0.02	<0.5	1	11	9	1.07
CC147949		0.18	0.003	0.3	0.85	2	<10	270	0.5	<2	0.04	<0.5	3	21	23	3.06
CC147950		0.18	<0.001	0.3	0.31	<2	<10	270	<0.5	<2	0.04	<0.5	1	10	14	0.97
CC147951	Not Recvd															
CC147952	Not Recvd															
CC147953	Not Recvd															
CC147954	Not Recvd															
CC147955	Not Recvd															
CC147956	Not Recvd															
CC147957	Not Recvd															
CC147958	Not Recvd															
CC147959	Not Recvd															
CC147960	Not Recvd															
CC147961		0.22	0.001	0.4	1.70	<2	<10	70	0.5	<2	0.12	<0.5	7	52	38	2.71
CC147962		0.34	0.004	0.3	2.07	10	<10	200	1.1	<2	0.28	<0.5	16	60	77	3.34
CC147963		0.20	0.001	0.2	1.99	<2	<10	110	0.8	<2	0.16	<0.5	12	54	50	2.92
CC147964		0.22	0.001	0.4	1.68	2	<10	80	0.6	<2	0.18	<0.5	8	56	37	3.52
CC147965		0.22	<0.001	0.3	1.52	9	<10	130	0.5	2	0.10	<0.5	6	51	32	3.69
CC147966		0.18	0.001	<0.2	1.91	6	<10	120	1.4	2	0.16	<0.5	9	39	40	3.07
CC147967		0.28	0.001	0.2	2.19	5	<10	170	1.9	<2	0.15	<0.5	9	26	35	3.43
CC147968		0.32	0.003	0.4	1.80	4	<10	170	2.0	<2	0.13	<0.5	11	44	34	3.42
CC147969		0.36	0.001	0.4	2.54	6	<10	130	2.0	<2	0.11	<0.5	7	34	24	3.10
CC147970		0.20	<0.001	0.4	1.47	3	<10	80	1.0	<2	0.06	<0.5	5	23	21	2.89
CC147971		0.26	0.001	0.4	1.74	3	<10	80	0.9	<2	0.11	<0.5	6	36	24	2.95
CC147972		0.20	0.001	0.3	1.29	<2	<10	100	1.4	<2	0.09	0.5	3	14	14	1.71
CC147973		0.20	0.001	0.4	1.37	3	<10	350	0.6	<2	0.07	0.6	4	24	14	2.84
CC147974		0.18	0.001	0.2	0.94	<2	<10	270	<0.5	<2	0.10	<0.5	4	21	14	1.85
CC147975		0.20	<0.001	0.4	0.80	<2	<10	210	<0.5	<2	0.07	0.5	3	15	23	2.07
CC147976		0.32	0.014	0.7	2.10	4	<10	410	1.7	<2	0.08	0.6	9	37	34	3.67
CC147977		0.30	<0.001	<0.2	1.83	4	<10	2260	1.7	<2	0.18	<0.5	11	37	44	4.11
CC147978		0.24	<0.001	<0.2	0.66	<2	<10	420	0.5	<2	0.03	0.5	5	21	28	2.87
CC147979		0.24	0.001	<0.2	1.64	2	<10	320	0.6	<2	0.10	<0.5	8	49	32	4.15
CC147980		0.22	0.003	3.1	2.91	3	<10	540	2.3	<2	0.11	0.5	12	43	48	3.52
CC147981		0.32	0.006	0.7	0.89	<2	<10	420	0.5	<2	0.06	2.2	7	38	23	2.92
CC147982		0.28	0.002	<0.2	1.40	<2	<10	610	1.2	<2	0.08	0.6	7	32	37	3.34



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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CERTIFICATE OF ANALYSIS WH11138512

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC147943		10	1	0.12	20	0.34	350	4	0.01	30	460	27	0.03	<2	3	16
CC147944		10	<1	0.05	10	0.05	70	2	0.01	7	330	18	0.02	<2	<1	8
CC147945		10	<1	0.10	10	0.27	243	3	0.01	21	350	17	0.02	<2	3	11
CC147946		10	1	0.09	10	0.36	249	2	0.02	21	340	14	0.02	<2	3	8
CC147947		10	1	0.79	<10	2.98	1830	5	0.04	189	400	10	0.03	<2	35	11
CC147948		<10	<1	0.03	10	0.03	81	3	0.01	7	350	21	0.03	<2	<1	7
CC147949		10	<1	0.07	10	0.16	244	4	0.01	15	850	23	0.06	2	1	11
CC147950		<10	<1	0.04	<10	0.03	178	1	0.02	7	480	7	0.05	<2	<1	9
CC147951																
CC147952																
CC147953																
CC147954																
CC147955																
CC147956																
CC147957																
CC147958																
CC147959																
CC147960																
CC147961		10	1	0.05	10	0.34	287	1	0.02	25	720	5	0.04	<2	1	9
CC147962		10	<1	0.11	20	0.74	687	2	0.02	57	830	11	0.02	<2	7	14
CC147963		10	1	0.07	10	0.46	713	2	0.02	36	720	8	0.04	<2	2	8
CC147964		10	1	0.07	10	0.55	378	2	0.02	33	500	9	0.02	<2	3	10
CC147965		10	<1	0.12	10	0.51	450	3	0.02	27	460	10	0.02	<2	4	9
CC147966		10	1	0.12	10	0.57	398	2	0.01	37	550	7	0.02	3	4	10
CC147967		10	<1	0.22	20	0.70	616	3	0.01	29	530	9	0.02	<2	4	10
CC147968		10	1	0.21	30	0.61	966	3	0.01	37	530	19	0.01	2	5	10
CC147969		10	1	0.21	20	0.64	337	3	0.01	25	420	7	0.02	2	3	9
CC147970		10	<1	0.13	10	0.37	347	3	0.01	18	450	12	0.03	2	2	8
CC147971		10	1	0.10	10	0.42	315	2	0.02	22	410	7	0.02	<2	3	7
CC147972		10	<1	0.15	20	0.31	255	2	0.01	12	440	5	0.03	<2	1	8
CC147973		10	1	0.10	10	0.36	316	2	0.01	14	300	9	0.02	<2	2	9
CC147974		10	<1	0.08	10	0.21	209	2	0.02	13	310	8	0.02	<2	2	11
CC147975		10	<1	0.07	10	0.14	249	2	0.02	15	370	10	0.03	2	1	11
CC147976		10	<1	0.14	10	0.54	424	4	0.01	32	470	28	0.03	<2	5	13
CC147977		10	<1	0.15	20	0.52	600	4	<0.01	53	610	33	0.03	<2	5	29
CC147978		10	<1	0.05	10	0.11	675	3	<0.01	31	500	25	0.02	<2	1	8
CC147979		10	<1	0.13	10	0.50	515	2	0.01	35	480	21	0.01	<2	5	10
CC147980		10	<1	0.12	20	0.44	751	3	<0.01	44	930	31	0.03	<2	5	13
CC147981		10	<1	0.12	10	0.18	474	3	<0.01	24	400	36	0.03	<2	2	13
CC147982		10	1	0.08	20	0.28	377	4	<0.01	33	590	32	0.03	<2	3	14



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CERTIFICATE OF ANALYSIS WH11138512

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
CC147943		<20	0.08	<10	<10	79	<10	114
CC147944		<20	0.03	<10	<10	34	<10	32
CC147945		<20	0.12	<10	<10	87	<10	64
CC147946		<20	0.07	<10	<10	46	<10	67
CC147947		<20	0.38	<10	<10	300	<10	504
CC147948		<20	0.03	<10	<10	30	<10	28
CC147949		<20	0.05	<10	<10	72	<10	93
CC147950		<20	0.01	<10	<10	25	<10	29
CC147951								
CC147952								
CC147953								
CC147954								
CC147955								
CC147956								
CC147957								
CC147958								
CC147959								
CC147960								
CC147961		<20	0.04	<10	<10	66	<10	46
CC147962		<20	0.12	<10	<10	74	<10	98
CC147963		<20	0.06	<10	<10	66	<10	72
CC147964		<20	0.11	<10	<10	77	<10	66
CC147965		<20	0.14	<10	<10	82	<10	70
CC147966		<20	0.08	<10	<10	52	<10	74
CC147967		<20	0.11	<10	<10	42	<10	74
CC147968		<20	0.08	<10	<10	51	<10	106
CC147969		<20	0.11	<10	<10	46	<10	81
CC147970		<20	0.10	<10	<10	50	<10	69
CC147971		<20	0.10	<10	<10	56	<10	69
CC147972		<20	0.08	<10	<10	31	<10	50
CC147973		<20	0.13	<10	<10	61	<10	109
CC147974		<20	0.12	<10	<10	57	<10	59
CC147975		<20	0.07	<10	<10	48	<10	73
CC147976		<20	0.10	<10	<10	68	<10	206
CC147977		<20	0.10	<10	<10	79	<10	227
CC147978		<20	0.05	<10	<10	68	<10	92
CC147979		<20	0.13	<10	<10	98	<10	122
CC147980		<20	0.08	<10	<10	65	<10	180
CC147981		<20	0.09	<10	<10	83	<10	133
CC147982		<20	0.05	<10	<10	72	<10	144



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CERTIFICATE OF ANALYSIS WH11138512

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg .02	Au- ICP21 Au ppm 0.001	ME- ICP41 Ag ppm 0.2	ME- ICP41 Al % 0.01	ME- ICP41 As ppm 2	ME- ICP41 B ppm 10	ME- ICP41 Ba ppm 10	ME- ICP41 Be ppm 0.5	ME- ICP41 Bi ppm 2	ME- ICP41 Ca % 0.01	ME- ICP41 Cd ppm 0.5	ME- ICP41 Co ppm 1	ME- ICP41 Cr ppm 1	ME- ICP41 Cu ppm 1	ME- ICP41 Fe % 0.01
CC147983		0.22	<0.001	<0.2	1.21	<2	<10	150	0.5	<2	0.05	<0.5	5	40	13	2.77
CC147984		0.22	<0.001	0.6	1.34	<2	<10	160	0.5	<2	0.05	0.6	8	26	10	3.26
CC147985		0.30	<0.001	<0.2	1.62	<2	<10	120	0.5	<2	0.08	<0.5	6	45	16	2.89
CC147986		0.22	<0.001	<0.2	1.27	<2	<10	120	<0.5	<2	0.06	<0.5	7	42	19	2.92
CC147987		0.28	0.001	<0.2	1.36	<2	<10	130	<0.5	<2	0.07	<0.5	7	64	16	2.55
CC147988		0.26	<0.001	<0.2	1.73	<2	<10	150	0.7	<2	0.06	<0.5	6	44	12	3.02
CC147989		0.58	0.001	<0.2	1.61	<2	<10	380	0.7	<2	0.44	<0.5	10	47	20	2.59
CC147990		0.22	0.001	<0.2	1.85	2	<10	260	0.9	<2	0.15	<0.5	8	39	26	3.72
CC147991		0.24	0.001	0.3	2.43	<2	<10	450	2.2	<2	0.07	0.7	11	33	25	3.58
CC147992		0.30	<0.001	<0.2	1.06	<2	<10	100	<0.5	<2	0.06	<0.5	4	23	11	2.16
CC147993		0.30	0.003	0.2	1.34	<2	<10	220	0.8	<2	0.05	0.5	7	30	17	2.91
CC147994		0.30	<0.001	<0.2	1.02	<2	<10	250	<0.5	<2	0.05	<0.5	5	30	14	3.11
CC147995		0.40	0.001	<0.2	1.49	3	<10	490	0.8	<2	0.12	<0.5	7	45	29	4.29
CC147996		0.30	0.001	<0.2	1.75	3	<10	400	1.0	<2	0.13	<0.5	16	96	53	4.07
CC147997		0.24	0.003	<0.2	1.99	2	<10	240	1.5	<2	0.12	<0.5	9	47	36	4.02
CC147998		0.32	0.001	<0.2	1.61	<2	<10	170	0.9	<2	0.09	<0.5	6	35	28	3.02
CC147999		0.42	0.001	<0.2	2.33	4	<10	200	1.4	<2	0.07	<0.5	7	39	27	4.82
CC148000		0.28	0.007	0.2	1.28	<2	<10	760	0.7	<2	0.07	<0.5	3	27	31	3.24



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CERTIFICATE OF ANALYSIS WH11138512

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
CC147983		10	1	0.07	10	0.28	271	2	<0.01	23	300	15	<0.01	<2	2	6
CC147984		10	1	0.06	10	0.23	419	3	<0.01	14	220	24	<0.01	<2	2	6
CC147985		10	1	0.12	10	0.56	265	2	0.01	25	170	9	<0.01	<2	5	6
CC147986		10	1	0.11	10	0.35	264	2	0.01	29	250	11	<0.01	<2	3	5
CC147987		10	<1	0.11	10	0.47	380	2	<0.01	36	290	10	<0.01	<2	2	7
CC147988		10	<1	0.12	20	0.47	257	1	<0.01	27	350	15	<0.01	<2	3	5
CC147989		10	1	0.35	20	0.74	354	1	0.01	29	690	9	<0.01	<2	5	13
CC147990		10	<1	0.20	10	0.59	317	2	0.01	30	440	12	<0.01	<2	5	14
CC147991		10	1	0.08	60	0.27	493	2	<0.01	24	480	22	0.01	<2	4	9
CC147992		10	<1	0.08	10	0.23	228	1	<0.01	15	320	12	<0.01	2	2	6
CC147993		10	<1	0.08	10	0.26	688	2	<0.01	18	470	20	<0.01	<2	2	7
CC147994		10	<1	0.08	10	0.27	364	2	<0.01	20	450	15	<0.01	<2	2	8
CC147995		10	1	0.12	10	0.41	469	3	<0.01	35	550	28	0.02	<2	4	14
CC147996		10	1	0.16	10	0.66	859	3	0.01	68	400	26	0.01	<2	5	13
CC147997		10	1	0.16	10	0.61	501	2	0.01	43	510	22	0.01	<2	5	10
CC147998		10	1	0.09	10	0.37	362	2	<0.01	27	660	16	<0.01	<2	3	8
CC147999		10	1	0.17	10	0.65	475	3	<0.01	30	650	22	0.01	<2	5	7
CC148000		10	<1	0.08	10	0.22	243	3	<0.01	20	700	38	0.03	<2	1	17



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CERTIFICATE OF ANALYSIS WH11138512

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
CC147983		<20	0.10	<10	<10	56	<10	72
CC147984		<20	0.11	<10	<10	81	<10	86
CC147985		<20	0.12	<10	<10	69	<10	71
CC147986		<20	0.13	<10	<10	73	<10	83
CC147987		<20	0.10	<10	<10	54	<10	70
CC147988		<20	0.10	<10	<10	54	<10	77
CC147989		<20	0.15	<10	<10	47	<10	93
CC147990		<20	0.12	<10	<10	62	<10	89
CC147991		<20	0.08	<10	<10	58	<10	106
CC147992		<20	0.09	<10	<10	49	<10	60
CC147993		<20	0.07	<10	<10	62	<10	68
CC147994		<20	0.12	<10	<10	82	<10	75
CC147995		<20	0.08	<10	<10	94	<10	131
CC147996		<20	0.11	<10	<10	86	<10	157
CC147997		<20	0.10	<10	<10	68	<10	144
CC147998		<20	0.07	<10	<10	65	<10	92
CC147999		<20	0.12	<10	<10	75	<10	119
CC148000		<20	0.05	<10	<10	71	<10	111



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CERTIFICATE OF ANALYSIS WH11138512

Method	CERTIFICATE COMMENTS
ME- ICP41	Uranium ICP- AES results reported below 250 ppm are considered to be semi- quantitative due to interference when Ce > 250 ppm



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CERTIFICATE WH11158636

Project: Wolverine- Gary Fin

P.O. No.:

This report is for 29 Rock samples submitted to our lab in Whitehorse, YT, Canada on 13- AUG- 2011.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- AA24	Au 50g FA AA finish	AAS
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH11158636

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA24 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.005	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
K975216		0.44	<0.005	0.2	0.96	25	<10	70	<0.5	<2	8.4	<0.5	45	78	36	7.23
K975217		0.47	<0.005	0.3	0.41	36	<10	30	<0.5	<2	11.2	<0.5	23	78	30	5.92
K975218		0.54	<0.005	0.3	0.90	19	<10	50	<0.5	<2	12.1	<0.5	29	88	39	5.87
K975219		0.71	<0.005	<0.2	0.86	9	<10	50	<0.5	<2	12.3	<0.5	23	61	31	4.63
K975220		0.57	0.006	0.3	0.39	4	<10	90	<0.5	<2	12.2	<0.5	32	16	65	6.95
K975221		0.61	<0.005	<0.2	0.11	16	<10	60	<0.5	<2	10.2	<0.5	13	4	9	4.37
K975222		1.12	<0.005	0.3	0.03	206	<10	90	<0.5	<2	0.40	<0.5	40	384	3	2.65
K975223		0.74	<0.005	0.4	0.03	417	10	30	<0.5	<2	0.32	<0.5	37	446	3	3.70
K975224		0.84	<0.005	<0.2	0.04	23	<10	70	0.8	<2	13.1	<0.5	22	161	1	1.96
K975225		2.47	<0.005	<0.2	0.21	3	110	10	<0.5	<2	0.21	<0.5	76	1620	11	4.26
K975226		2.61	<0.005	<0.2	0.19	2	110	10	<0.5	<2	0.44	<0.5	71	1640	8	3.84
K975227		2.33	<0.005	<0.2	0.25	3	100	10	<0.5	<2	0.22	<0.5	80	1820	4	4.32
K975228		0.63	<0.005	<0.2	0.19	7	80	10	<0.5	<2	0.01	<0.5	85	1815	8	5.07
K975229		1.69	0.037	<0.2	0.69	99	10	80	<0.5	<2	1.11	<0.5	66	981	12	3.56
K975230		1.56	0.238	<0.2	3.75	45	10	80	<0.5	<2	2.61	<0.5	53	890	28	5.22
K975231		2.52	0.358	<0.2	2.44	81	30	110	<0.5	<2	1.38	<0.5	51	698	30	5.13
K975232		0.99	<0.005	0.4	0.17	4	<10	150	<0.5	<2	0.14	<0.5	3	19	4	0.77
K975233		0.95	<0.005	0.2	0.41	27	<10	160	<0.5	<2	0.50	<0.5	6	17	12	1.85
K975234		1.19	<0.005	0.2	0.26	14	<10	170	<0.5	<2	0.37	<0.5	5	14	13	1.37
K975235		0.66	<0.005	0.5	0.27	29	<10	400	<0.5	<2	0.05	<0.5	3	7	4	0.85
K975236		0.99	<0.005	<0.2	0.59	35	<10	160	<0.5	<2	4.12	<0.5	16	487	5	1.88
K975237		0.87	<0.005	<0.2	0.21	4	<10	70	<0.5	<2	3.97	<0.5	31	428	4	2.73
K975238		0.42	0.011	1.3	0.49	<2	<10	180	2.5	<2	0.30	0.7	2	35	48	14.4
K975239		0.82	0.006	1.1	0.41	<2	<10	280	1.3	2	0.06	0.6	2	26	29	4.55
K975240		1.03	0.241	0.8	0.58	55	<10	180	1.1	2	7.6	<0.5	23	57	98	5.88
K975241		1.12	<0.005	0.3	0.29	15	<10	90	0.5	<2	2.16	<0.5	9	49	18	1.97
K975242		0.47	0.059	0.9	0.29	88	<10	20	<0.5	<2	0.04	<0.5	4	56	11	1.18
K975243		0.49	0.278	5.2	0.27	39	<10	30	<0.5	<2	0.03	<0.5	3	132	4	0.55
K975244		0.75	0.016	0.2	0.23	20	<10	140	<0.5	<2	0.28	0.6	8	23	112	2.58



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: ARCHER, CATHRO AND ASSOCIATES (1981)
 LIMITED
 1016- 510 W HASTINGS ST
 VANCOUVER BC V6B 1L8

Page: 2 - B
 Total # Pages: 2 (A - C)
 Finalized Date: 12- SEP- 2011
 Account: F

Project: Wolverine- Gary Fin

CERTIFICATE OF ANALYSIS WH11158636

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
K975216		<10	<1	0.13	10	1.72	1610	1	0.04	148	1030	4	0.72	<2	6	109
K975217		<10	<1	0.06	10	3.78	1640	<1	0.03	79	840	8	0.06	2	5	185
K975218		<10	<1	0.07	10	1.06	1475	1	0.03	85	1340	9	0.18	2	7	173
K975219		<10	<1	0.05	10	2.95	1280	<1	0.06	65	750	2	0.03	<2	6	313
K975220		<10	<1	0.09	20	0.13	1455	1	0.07	97	1310	3	0.01	<2	6	38
K975221		<10	<1	0.06	<10	4.35	2640	1	0.02	15	320	3	0.02	<2	2	224
K975222		<10	<1	0.01	<10	14.25	394	<1	0.02	867	20	<2	0.07	20	4	24
K975223		<10	<1	0.01	<10	15.80	623	<1	0.02	806	100	<2	0.03	45	4	10
K975224		<10	<1	<0.01	<10	13.55	363	<1	0.02	495	10	<2	<0.01	2	2	451
K975225		<10	<1	<0.01	<10	19.50	632	<1	0.01	1720	30	<2	0.01	<2	7	5
K975226		<10	<1	<0.01	<10	18.65	598	<1	0.02	1685	20	<2	0.01	<2	6	8
K975227		<10	<1	<0.01	<10	19.40	669	<1	0.01	1760	20	<2	0.01	<2	7	4
K975228		<10	<1	<0.01	<10	18.95	547	<1	0.01	1840	20	<2	0.01	2	7	3
K975229		<10	<1	0.04	<10	9.80	736	<1	0.02	969	100	<2	0.01	8	9	46
K975230		10	<1	0.05	<10	9.19	884	<1	0.02	583	390	<2	0.01	8	20	101
K975231		<10	<1	0.08	<10	7.35	797	<1	0.02	661	370	2	0.01	15	19	62
K975232		<10	<1	0.06	<10	0.12	174	1	0.01	16	80	47	0.02	<2	<1	10
K975233		<10	<1	0.07	10	0.22	671	<1	0.01	79	260	14	0.01	2	1	45
K975234		<10	<1	0.04	10	0.16	399	1	0.01	29	210	25	0.02	3	1	25
K975235		<10	<1	0.17	10	0.04	239	2	0.02	7	190	44	0.02	<2	<1	8
K975236		<10	<1	0.02	<10	3.15	954	<1	0.02	254	100	7	0.01	4	3	354
K975237		<10	<1	0.03	<10	16.20	599	<1	0.02	727	20	<2	0.01	2	4	342
K975238		<10	<1	0.24	10	0.19	898	4	0.02	17	3070	124	0.34	3	4	35
K975239		<10	<1	0.13	10	0.09	192	3	<0.01	16	570	237	0.63	<2	3	10
K975240		<10	1	0.15	10	2.74	1210	<1	0.02	38	470	3	2.29	3	18	81
K975241		<10	2	0.07	<10	0.70	560	<1	<0.01	21	60	<2	0.04	<2	7	40
K975242		<10	1	0.03	10	0.04	62	<1	<0.01	87	30	5	0.02	149	1	4
K975243		<10	<1	0.04	10	0.03	42	<1	<0.01	30	30	10	0.02	273	1	5
K975244		<10	<1	0.06	<10	0.10	722	<1	<0.01	21	70	<2	0.04	8	7	14



ALS Canada Ltd.
 2103 Dollarton Hwy
 North Vancouver BC V7H 0A7
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To: ARCHER, CATHRO AND ASSOCIATES (1981)
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Page: 2 - C
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Project: Wolverine- Gary Fin

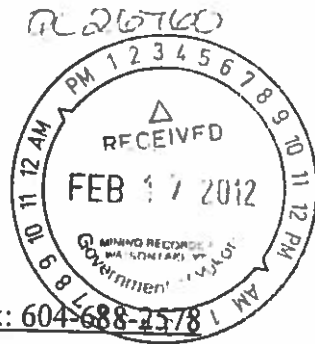
CERTIFICATE OF ANALYSIS WH11158636

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
K975216		<20	<0.01	<10	<10	31	<10	39
K975217		<20	<0.01	<10	<10	23	<10	47
K975218		<20	<0.01	<10	<10	37	<10	54
K975219		<20	<0.01	<10	<10	32	<10	35
K975220		<20	<0.01	<10	<10	14	<10	40
K975221		<20	<0.01	<10	<10	7	<10	22
K975222		<20	<0.01	<10	<10	11	<10	6
K975223		<20	<0.01	<10	<10	11	<10	5
K975224		<20	<0.01	<10	<10	4	<10	3
K975225		<20	<0.01	<10	<10	22	<10	18
K975226		<20	<0.01	<10	<10	21	<10	16
K975227		<20	<0.01	<10	<10	24	<10	19
K975228		<20	<0.01	<10	<10	25	<10	20
K975229		<20	0.01	<10	<10	40	<10	15
K975230		<20	0.01	<10	<10	143	<10	47
K975231		<20	<0.01	<10	<10	104	<10	49
K975232		<20	<0.01	<10	<10	2	<10	58
K975233		<20	<0.01	<10	<10	4	<10	52
K975234		<20	<0.01	<10	<10	2	<10	80
K975235		<20	<0.01	<10	<10	1	<10	34
K975236		<20	<0.01	<10	<10	16	<10	30
K975237		<20	<0.01	<10	<10	14	<10	11
K975238		<20	0.01	<10	<10	174	<10	711
K975239		<20	0.01	<10	<10	77	<10	261
K975240		<20	<0.01	<10	<10	95	<10	55
K975241		<20	<0.01	<10	<10	47	<10	20
K975242		<20	<0.01	<10	<10	17	<10	12
K975243		<20	<0.01	<10	<10	13	<10	8
K975244		<20	<0.01	<10	<10	57	<10	132

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016 - 510 West Hastings Street
Vancouver, B.C. V6B 1L8

Telephone: 604-688-2568

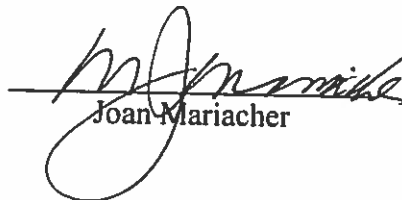
Fax: 604-688-2578



AFFIDAVIT

I, Joan Mariacher, of Vancouver, B.C. make oath and say:

That to the best of my knowledge the attached Statement of
Expenditures for exploration work on the 77, 4C
mineral claims on claim sheet 105G/1 is accurate.


Joan Mariacher

Sworn before me at Vancouver, B.C.

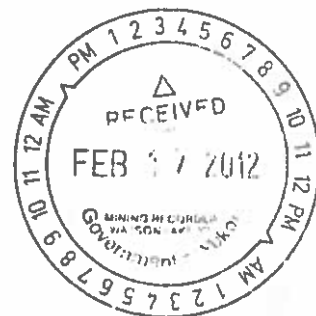
this 16th day of February 2012.


Barrister & Solicitor

IAN J. TALBOT
Barrister & Solicitor
281 East 5th Street
North Vancouver
British Columbia
Canada V7L 1E8

CR 26-160

Statement of Expenditures
4C 7-22, 29-42, 51-58, 277-288, 299, 301, 303, 305-308, 355-356,
377-382, 403-408, and 429-434 Mineral Claims
February 14, 2012



Labour

R. Gibbons (field assistant) July to August 2011 – 5 days @ \$408/day	\$2,284.80
D. Jones (field assistant) July 2011 – 5 days @ \$360/day	2,016.00
C. Campbell (field assistant) July to August 2011 – 7 days @ \$344/day	2,696.96
J. Chila (field assistant) July to August 2011 – 4 days @ \$344/day	1,541.12
R. Merki (field assistant) July to August 2011 – 2 days @ \$344/day	770.56
	9,309.44

Expenses

Field room and board – 23 mandays @ \$125/manday	3,220.00
Outbound Aviation – 16.8 hours Hughes 500D @ \$1075/hour + fuel	20,469.57
Inconnu Lodge	3,150.00
ALS Chemex	12,138.73
	38,978.30

Total	\$48,287.74
-------	-------------

022076

PORT BOUND AVIATION.

KLUANE AIRWAYS LTD.

BOX 31489
WHITEHORSE, YUKON Y1A 6K8ARCELA CATHERO
CHARTERER

07/11/11	
INVOICE DATE	
H5007	664N
AIRCRAFT TYPE	REGISTRATION

NO 5967


 GLE: WOLOCAINE MINNALS
 BILLING ADDRESS

PHONE: _____

FROM	MILES	HOURS	REMARKS/PASSENGER/CARGO
ACEWAY			
TO ANDERSON			
ACEWAY		1.0	DROP 2 seasons
ANDERSON			1 year.
ACEWAY		1.2	NFT LOAD OF
			year.

SPECIAL INSTRUCTIONS	2.2 1075 ⁰⁰ PER HOUR	2365
Ken Bilguyet	@ PER MILE	
Legs Allen	WAITING TIME @ / HR	
	FUEL 242 @ 1.44 / GAL	348 ⁴⁸
	PILOT'S EXPENSES	
	OTHER	
	SUB-TOTAL	2713 ⁴⁸
	GST	135.67
CHARTERER'S SIGNATURE	2* PER MONTH CHARGES ON ACCOUNTS OVER 30 DAYS	TOTAL \$ 2849.15 ✓
PILOT'S SIGNATURE	WHITE - OFFICE YELLOW - OFFICE COPY RECORD PINK - CUSTOMER COPY GOLD - BASE COPY (Stays in book)	WILLOW PRINTERS LTD.

... 10 - 17615.12

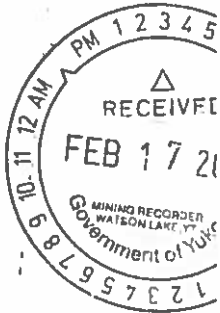
-A 4C

OUTBOARD AVIATION
KLUANE AIRWAYS LTD.
 BOX 31489
 WHITEHORSE, YUKON Y1A 6K8

ACKA Centro
 CHARTERER

Re: WLU FINCHESON
 BILLING ADDRESS

017/1/10/11	
INVOICE DATE	
H500D	6640
AIRCRAFT TYPE	REGISTRATION
No 5969	



PHONE: _____

FROM	MILES	HOURS	REMARKS/PASSENGER/CARGO
<i>McEvoy</i>			
TO <i>4C West</i>			
<i>McEvoy</i>		1.2	SET out 3.
<i>4C West</i>		1.0	Pick up 3.
<i>McEvoy</i>			
<i>4C West</i>			

SPECIAL INSTRUCTIONS

Relax
Deliver
Chairs

2.2	1075	PER HOUR	2365.00
		PER MILE	
WAITING TIME		/HR	
FUEL 242	1.44	/GAL	348.48
PILOT'S EXPENSES			
OTHER			
SUB-TOTAL			2713.48
GST			135.67
TOTAL \$			2849.15

CHARTERER'S SIGNATURE

PILOT'S SIGNATURE

2% PER MONTH CHARGES ON ACCOUNTS OVER 30 DAYS

WHITE - OFFICE
 YELLOW - OFFICE COPY RECORD
 PINK - CUSTOMER COPY
 GOLD - BASE COPY (Stays in book)

WILLOW PRINTERS LTD.

Q. 20/14

outbound aviation

~~KLUANE AIRWAYS LTD.~~

BOX 31489

WHITEHORSE, YUKON Y1A 6K8

ALICEA CATARO
CHARTERER

CHARTERER

REWEL FINLAYSON

BILLING ADDRESS

071111					
INVOICE DATE					
H300D			F4664		
AIRCRAFT TYPE			REGISTRATION		

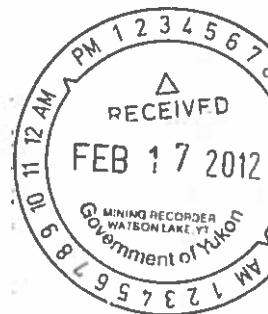
INVOICE DATE

H3B0D

AIRCRAFT TYPE

REGISTRATION

No 5972



FEB 17 2012

MINING RECORDER
WATSON LAKE, YT
Government of Yukon

9

1 2 3 4 5

PHONE:

FROM	MILES	HOURS	REMARKS/PASSENGER/CARGO
HEVoy			
TO 4C W88			
HEVoy		1.1	STRT over 3
4C W88			
HEVoy		1.1	PICKUP 3

SPECIAL INSTRUCTIONS	22 1075	PER HOUR	2365 ⁰⁰
Ryan Diplom Crew	0	PER MILE	
	WAITING TIME	0	/ HR
	FUEL 242	0 1.44	/ GAL. 3484 ⁰⁰
	PILOT'S EXPENSES		
	OTHER		
		SUB-TOTAL	271348
		GST	13567
	2% PER MONTH CHARGES ON ACCOUNTS OVER 30 DAYS	TOTAL \$	2849.15
	WHITE - OFFICE		
	YELLOW - OFFICE COPY RECORD		
	PINK - CUSTOMER COPY		
	GOLD - BASE COPY (Stays in book)		

4C West A in

*OUTBOUND AVIATION***KLUANE AIRWAYS LTD.**

BOX 31489

WHITEHORSE, YUKON Y1A 6K8

ARCELA CATHRO

CHARTERER

RE: WLU FINLAYSON

BILLING ADDRESS

0 7 1 1 2 1 1				
INVOICE DATE				
DHE-2			FMPS	
AIRCRAFT TYPE			REGISTRATION	

No 5973

PHONE: _____

FROM	MILES	HOURS	REMARKS/PASSENGER/CARGO
<i>McEvoy</i>			
TO <i>FIN</i>		<i>.3</i>	<i>Have 3 P/s</i>
<i>McEvoy</i>		<i>.3</i>	<i>gear out</i>

SPECIAL INSTRUCTIONS	<i>.6</i>	<i>\$825</i> PER HOUR	<i>495⁰⁰</i>
		PER MILE	
WAITING TIME		/ HR	
FUEL		/ GAL	
PILOT'S EXPENSES			
OTHER			
		SUB-TOTAL	<i>495⁰⁰</i>
		GST	<i>24 75</i>
		TOTAL \$	<i>519.75</i>

2% PER MONTH CHARGES ON ACCOUNTS OVER 30 DAYS

WHITE - OFFICE
YELLOW - OFFICE COPY RECORD
PINK - CUSTOMER COPY
GOLD - BASE COPY (Stays in book)

WILLOW PRINTERS LTD.

CHARTERER'S SIGNATURE

PILOT'S SIGNATURE

HC Wst AN

OUTBOUND AVIATION LTD.

Box 31489

Whitehorse, Yukon Y1A 6K8

Summer: Ph./Fax 867-969-2127

Winter: 250-860-4187

Arcika PATTED

CHARTERER

PA: JIM DAWSON GROUP
BILLING ADDRESS

BILLING ADDRESS

0	1	7	3	0	1	1
INVOICE DATE						
H500D				66VA		
HELICOPTER TYPE				REGISTRATION		

No 2028



PHONE: _____

FROM	HOURS	REMARKS / PASSENGER / CARGO
McEvoy		
TO HC		
McEvoy	1.1	DROP 2
HC		
McEvoy	1.0	Pick up 2

SPECIAL INSTRUCTIONS	2.1	PER HOUR	2257.50
Copy 4	FUEL 231	1.44 LTR	332.64
1003	OTHER		
		SUB-TOTAL	2590.14
		GST	129.50
CHARTERER'S SIGNATURE	2% PER MONTH CHARGES ON ACCOUNTS OVER 30 DAYS	TOTAL \$	2719.64
PILOT'S SIGNATURE	WHITE - OFFICE YELLOW - CUSTOMER COPY PINK - BASE COPY (Stays in book)		

WILLOW PRINTERS LTD.

✓ 4C Went

A ✓

RECEIVED
FEB 17 2012
MINING RECORDER
TISON LAKE YT
Government of Yukon

PHONE:

FROM	HOURS	REMARKS / PASSENGER / CARGO
McEwan		
TO 4C West		
McEwan		3 out
4C West		
McEwan		3 BACK
		POSTED

[illegible]

CHARTERER'S SIGNATURE

PILOT'S SIGNATURE

WHITE - OFFICE
YELLOW - CUSTOMER COPY
PINK - BASE COPY (Stays in book)

WILLOW PRINTERS LTD.

Q. 2674

Whitehorse, Yukon Y1A 6K8
Summer: Ph./Fax 867-969-2127
Winter: 250-860-4187

Anelka CHITRE
CHARTERER

Re: WCV FINLAYSON
BILLING ADDRESS

0	0	/	0	/	1	1
INVOICE DATE						
H500D				B6VN		
HELICOPTER TYPE				REGISTRATION		

No 2252 ✓



PHONE: _____

FROM	HOURS	REMARKS / PASSENGER / CARGO
TO HEDON		
HEDON	1.0	Sit out 3
HEDON	1.0	Pick up 3.

POSTED

[illegible]

CHARTERER'S SIGNATURE

PILOT'S SIGNATURE

WHITE - OFFICE
YELLOW - CUSTOMER COPY
PINK - BASE COPY (Stays in book)

WILLOW PRINTERS LTD

Inconnu Lodge

Yukon Territory, Canada
Box 29008 OK Mission RPO
Kelowna, B.C. Canada, V1W 4A7

Tel: 250-860-4187

Fax: 250-860-8894

Email: info@inconnulodge.com



Accommodations – July 12 - August 3

Archer Cathro & Associates

Names: WLW Finlayson

Jim Dawson Group

Dylan Jones
Craig Campbell
Ryan Gibbons

Jim Dawson
Ron
Les

July 21, Ron & Les out, Gary & Robin in
July 24, Jim out, Gary in
August 1, Richard, Sarah & Kevin in
August 2, Gary out

POSTED

731.25
 ✓ Andy - 2250.
 ✓ Arm - 750.
 ✓ CO - 750.
 ✓ HCN - 1250. 1312.50
 ✓ Hall - 1125.00
 ✓ Loop - 625.00
 ✓ Reid - 1325.
 ✓ String - 250. 1526.25

Date	# of Persons	Rate	Sub Total	Total
July 12	3 persons	125.00	375.00	
July 13	3 Persons	125.00	375.00	
July 14	3 Persons	125.00	375.00	
July 15	6 Persons	125.00	750.00	
July 16	6 Persons	125.00	750.00	
July 17	6 Persons	125.00	750.00	
July 18	6 Persons	125.00	750.00	
July 19	6 Persons	125.00	750.00	
July 20	6 Persons	125.00	750.00	
July 21	6 Persons	125.00	750.00	
July 22	6 Persons	125.00	750.00	
July 23	5 Persons	125.00	625.00	
July 24	5 Persons	125.00	625.00	
July 25	5 Persons	125.00	625.00	
July 26	5 Persons	125.00	625.00	
July 27	5 Persons	125.00	625.00	
July 28	5 Persons	125.00	625.00	
July 29	5 Persons	125.00	625.00	
July 30	5 Persons	125.00	625.00	
July 31	5 Persons	125.00	625.00	
August 1	8 Persons	125.00	1000.00	
August 2	7 Persons	125.00	875.00	14625.00
5% GST				725.00
Total				15356.25

✓

Inconnu Lodge

Yukon Territory, Canada
Box 29008 OK Mission RPO
Kelowna, B.C. Canada, V1W 4A7

Tel: 250-860-4187
Fax: 250-860-8894
Email: info@inconnulodge.com



Accommodations – August 3 - August 19

Archer Cathro & Associates

Names: WLV Finlayson

Jake
Craig Campbell
Ryan Gibbons

August 4 - Add one to Richards
August 5 - One in Richards out
August 6 - Richards group out (3)
August 7, Dylan out
August 10, Jake out, Taylor in

401.14
Arm 375.00
Boot 375.00
4CWest 750.00 A = 787.50
Has 1168.13
-String 4186.50
Nivi 1168.13
8423.90

PAID

Date	# of Persons	Rate	Sub Total	Total
August 3	7 persons	125.00	875.00	
August 4	8 Persons	125.00	1000.00	
August 5	7 Persons	125.00	875.00	
August 6	4 Persons	125.00	500.00	
August 7	4 Persons	125.00	500.00	
August 8	3 Persons	125.00	375.00	
August 9	3 Persons	125.00	375.00	
August 10	3 Persons	125.00	375.00	
August 11	3 Persons	125.00	375.00	
August 12	3 Persons	125.00	375.00	
August 13	3 Persons	125.00	375.00	
August 14	3 Persons	125.00	375.00	
August 15	3 Persons	125.00	375.00	
August 16	3 Persons	125.00	375.00	
August 17	3 Persons	125.00	375.00	
August 18	3 Persons	125.00	375.00	6,000.00
	63 man days	125.00		7,875.00
	Phone calls: 41 minutes @ 1.50			61.50
	Truck gas - August 18 - 46 liters @ 1.90			86.26
Sub Total				8,022.76
5% GST				401.14
Total				8,423.90

Inconnu Lodge

Yukon Territory, Canada
Box 29008 OK Mission RPO
Kelowna, B.C. Canada, V1W 4A7

Te: 250-860-4187

Fax: 250-860-8894

Email: info@inconnulodge.com**Accommodations – June 20 - July 12****Archer Cathro & Associates**

Names: Strategic Metals (3)

Dylan Jones
Craig Campbell
Ryan Gibbons

✓A

String 1125.00
HAS 1312.50
VIVI 1312.50
GAM 2756.00
HI 1375.00
4C 1000.00
4CA = 1050.00

July 1, Heather Smith for one evening

July 9 & 10, Ron Bilquift & Less Allen from Wolverine Minerals

Date	# of Persons		Rate	Sub Total	Total
June 20	3 persons	STRING	125.00	375.00	
June 21	3 Persons	STRING	125.00	375.00	
June 22	3 Persons	STRING	125.00	375.00	
June 23	3 Persons	HAS / VIVI	125.00	375.00	
June 24	3 Persons	HAS / VIVI	125.00	375.00	
June 25	3 Persons	HAS / VIVI	125.00	375.00	
June 26	3 Persons	HAS / VIVI	125.00	375.00	
June 27	3 Persons	HAS / VIVI	125.00	375.00	
June 28	3 Persons	HAS / VIVI	125.00	375.00	
June 29	3 Persons	HAS / VIVI	125.00	375.00	
June 30	3 Persons	GAM	125.00	375.00	
July 1	4 Persons	GAM	125.00	500.00	
July 2	3 Persons	GAM	125.00	375.00	
July 3	3 Persons	GAM	125.00	375.00	
July 4	3 Persons	GAM	125.00	375.00	
July 5	3 Persons	GAM	125.00	375.00	
July 6	3 Persons	GAM	125.00	375.00	
July 7	3 Persons	HI	125.00	375.00	
July 8	3 Persons	HI	125.00	375.00	
July 9	5 Persons	HI	125.00	625.00	
July 10	5 Persons	4C	125.00	625.00	
July 11	3 Persons	4C	125.00	375.00	\$ 8,875.00
5% GST					443.75
Total					\$ 9,318.75



ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

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INVOICE NUMBER 2370939

BILLING INFORMATION

Certificate: **WH11138512**
Sample Type: **Soil**
Account: **F**
Date: **2-SEP-2011**
Project: **Wolverine-4C**
P.O. No.:
Quote: **ALSM-CW11-013-F**
Terms: **Net 30 Days**
Comments:

A ↑
C1

QUANTITY	CODE	ANALYSED FOR DESCRIPTION	UNIT PRICE	TOTAL
168	PREP-41	Dry, Sieve (180 um) Soil	1.05	176.40
43.32	PREP-41	Weight Charge (kg) - Dry, Sieve (180 um) Soil	1.69	73.21
168	Au-ICP21	Au 30g FA ICP-AES Finish	11.93	2,004.24
168	ME-ICP41	35 Element Aqua Regia ICP-AES	5.33	895.44
168	GEO-AR01	Aqua regia digestion	2.62	440.16

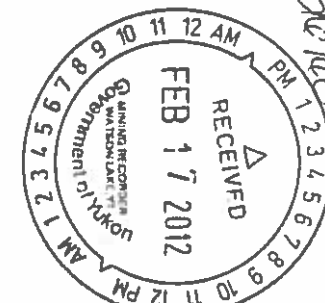
To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
ATTN: JOAN MARIACHER
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

SUBTOTAL (CAD) \$ 3,589.45
R100938885 HST BC \$ 430.73
TOTAL PAYABLE (CAD) \$ 4,020.18

Please Remit Payments To:
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name: ALS Canada Ltd.
Bank: Royal Bank of Canada
SWIFT: ROYCCAT2
Address: Vancouver, BC, CAN
Account: 003-00010-1001098
Please send payment info to accounting.canusa@alsglobal.com





ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

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INVOICE NUMBER 2393756

BILLING INFORMATION

Certificate: **WH11158205**
Sample Type: **Soil**
Account: **F**
Date: **3-OCT-2011**
Project: **Wolverine - 4C West**
P.O. No.:
Quote: **ALSM-CW11-013-F**
Terms: **Net 30 Days**
Comments:

AA
C1

QUANTITY	CODE	ANALYSED FOR - DESCRIPTION	UNIT PRICE	TOTAL
179	PREP-41	Dry, Sieve (180 um) Soil	1.05	187.95
46.52	PREP-41	Weight Charge (kg) - Dry, Sieve (180 um) Soil	1.69	78.62
179	Au-ICP21	Au 30g FA ICP-AES Finish	11.93	2,135.47
179	ME-ICP41	35 Element Aqua Regia ICP-AES	5.33	954.07
179	GEO-AR01	Aqua regia digestion	2.62	468.98

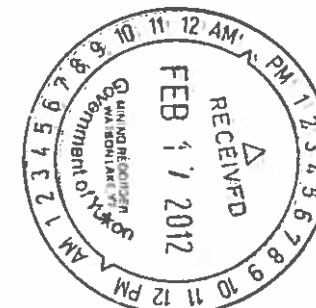
To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
ATTN: JOAN MARIACHER
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

SUBTOTAL (CAD) \$ 3,825.09
R100938885 HST BC \$ 459.01
TOTAL PAYABLE (CAD) \$ 4,284.10

Please Remit Payments To :
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name: ALS Canada Ltd.
Bank: Royal Bank of Canada
SWIFT: ROYCCAT2
Address: Vancouver, BC, CAN
Account: 003-00010-1001098
Please send payment info to accounting.canusa@alsglobal.com





ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7

Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

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INVOICE NUMBER 2393437

BILLING INFORMATION

Certificate: **WH11158204**
Sample Type: **Soil**
Account: **F**
Date: **7-OCT-2011**
Project: **Wolverine - 4C West**
P.O. No.:
Quote: **ALSM-CW11-013-F**
Terms: **Net 30 Days** **C1**
Comments:

QUANTITY	CODE	ANALYSED FOR - DESCRIPTION	UNIT	
			PRICE	TOTAL
1	BAT-01	Administration Fee	26.63	26.63
159	PREP-41	Dry, Sieve (180 um) Soil	1.05	166.95
40.90	PREP-41	Weight Charge (kg) - Dry, Sieve (180 um) Soil	1.69	69.12
159	Au-ICP21	Au 30g FA ICP-AES Finish	11.93	1,896.87
159	ME-ICP41	35 Element Aqua Regia ICP-AES	5.33	847.47
159	GEO-AR01	Aqua regia digestion	2.62	416.58

SUBTOTAL (CAD) \$ 3,423.62

R100938885 HST BC \$ 410.83

TOTAL PAYABLE (CAD) \$ 3,834.45

To: ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED
ATTN: JOAN MARIACHER
1016-510 W HASTINGS ST
VANCOUVER BC V6B 1L8

Payment may be made by: Cheque or Bank Transfer

Beneficiary Name: ALS Canada Ltd.
Bank: Royal Bank of Canada
SWIFT: ROYCCAT2
Address: Vancouver, BC, CAN
Account: 003-00010-1001098
Please send payment info to accounting.canusa@alsglobal.com

Please Remit Payments To :
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7

