

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

Telephone: 604-688-2568

Fax: 604-688-2578

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**ASSESSMENT REPORT**

describing

**SOIL SAMPLING, GEOLOGICAL MAPPING  
AND HAND TRENCHING**

at the

**OFF PROPERTY**

Off 1-18      YC73880-YC73897  
Off 19-28     YC98379-YC98388

NTS 105G/08  
Latitude 61°27'N; Longitude 130°21'W

in the

Watson Lake Mining District  
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

**STRATEGIC METALS LTD.**

by

Dan Gregory, B.Sc. Geology, GIT

November 2009

## **TABLE OF CONTENTS**

|                                          |   |
|------------------------------------------|---|
| INTRODUCTION                             | 2 |
| PROPERTY LOCATION, CLAIM DATA AND ACCESS | 2 |
| HISTORY                                  | 2 |
| GEOMORPHOLOGY                            | 2 |
| REGIONAL GEOLOGY                         | 2 |
| PROPERTY GEOLOGY                         | 4 |
| DEPOSIT MODEL                            | 5 |
| GEOCHEMISTRY                             | 6 |
| HAND TRENCHING                           | 7 |
| HISTORICAL DIAMOND DRILLING              | 7 |
| DISCUSSION AND CONCLUSIONS               | 7 |

## **APPENDICES**

|     |                                           |
|-----|-------------------------------------------|
| I   | STATEMENT OF QUALIFICATIONS               |
| II  | SAMPLE HANDLING AND ANALYTICAL PROCEDURES |
| III | CERTIFICATES OF ANALYSIS                  |
| IV  | ROCK SAMPLE DESCRIPTIONS                  |

## **FIGURES**

| <b><u>No.</u></b> | <b><u>Description</u></b> | <b><u>Following Page</u></b> |
|-------------------|---------------------------|------------------------------|
| 1                 | Property Location         | 1                            |
| 2                 | Claim Locations           | 1                            |
| 3                 | Regional Geology          | 2                            |
| 4                 | Property Geology          | 4                            |
| 5                 | 2009 Sample Locations     | 7                            |
| 6                 | Copper Soil Geochemistry  | 7                            |
| 7                 | Lead Soil Geochemistry    | 7                            |
| 8                 | Zinc Soil Geochemistry    | 7                            |
| 9                 | OFF09-TR01 Trench Map     | 7                            |
| 10                | OFF09-TR02 Trench Map     | 7                            |

## **INTRODUCTION**

The Off property was staked in September 2008 following a research study, which identified volcanogenic massive sulphide (VMS) targets within the Finlayson Lake area of the Yukon Territory. The property is owned 100% by Strategic Metals Ltd.

This report describes work conducted between June 25 and July 5, 2009 by Archer, Cathro & Associates (1981) Limited on behalf of Strategic. The work consisted of geological mapping, prospecting, soil sampling and hand trenching. It was completed by a crew of two people from a helicopter-supported camp on the property. The author participated in and supervised the program. Appendix I contains the author's Statement of Qualifications.

## **PROPERTY LOCATION, CLAIM DATA AND ACCESS**

The Off property is located in southeastern Yukon at latitude 61°27'26" north and longitude 130°20'54" west on NTS mapsheet 105 G/08 (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. 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> |
|-------------------|---------------------|---------------------|
| Off 1-18          | YC73880-YC73897     | March 23, 2014      |
| Off 19-28         | YC98379-YC98388     | July 10, 2010       |

\* Expiry dates include 2009 work that has been filed for assessment but not yet accepted.

The Off claims lie approximately 266 km east-northeast of Whitehorse and 125 km east-southeast of Ross River. The closest road is the Robert Campbell Highway, 18 km north of the property. In 2009, the property was accessed by a Hughes 500C helicopter operated by Kluane Airways from a seasonal base at McEvoy Lake, 41 km to the north.

## **HISTORY**

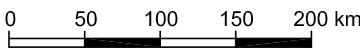
The area underlain by the Off claims was first staked in 1995 by Cominco Ltd. as part of the much larger On claim block, which covered the projected extension of the stratigraphic package that hosts the Kudzu Ze Kayah and GP4F VMS deposit. In 1996 Cominco performed a helicopter-borne EM/magnetic geophysical survey over the claims. Later that year Cominco entered into an option agreement with Westmin Resources Ltd. and Atna Resources Ltd. In summer 1996, Westmin carried out a soil sampling and geological mapping program on behalf of the joint venture (Terry *et al.*, 1996). In 1997, the joint venture followed up soil anomalies defined by the earlier survey with more detailed soil sampling, ground geophysical surveys and a 308 m diamond drill hole (Terry and Hall, 1998). The drill hole failed to intersect significant mineralization and the claims were allowed to lapse without further exploration. In 2000, the southern part of the Off claims was restaked as the Bug claims by Expatriate Resources Ltd. It

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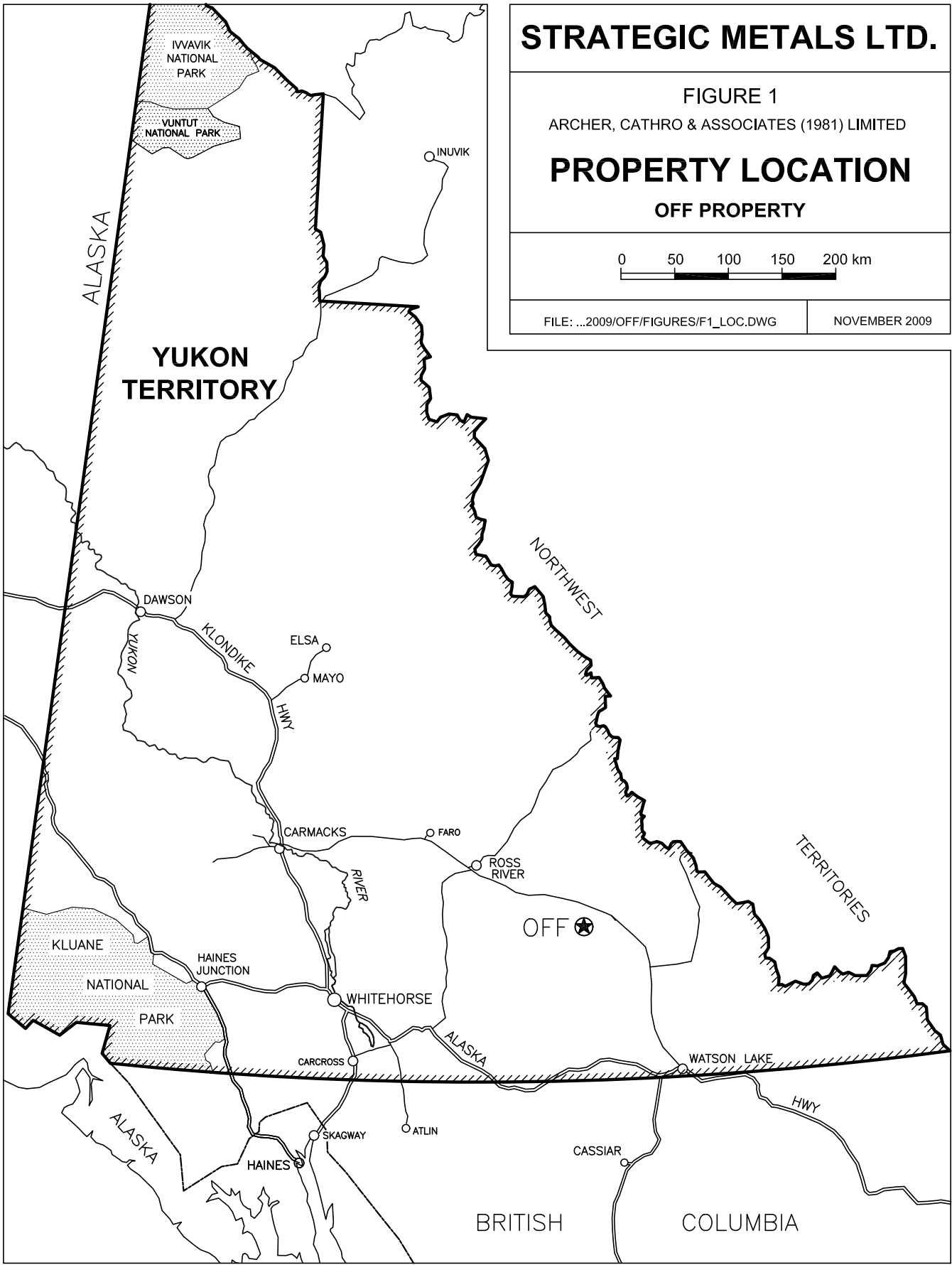
FIGURE 1

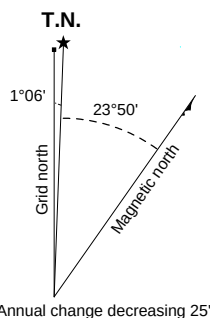
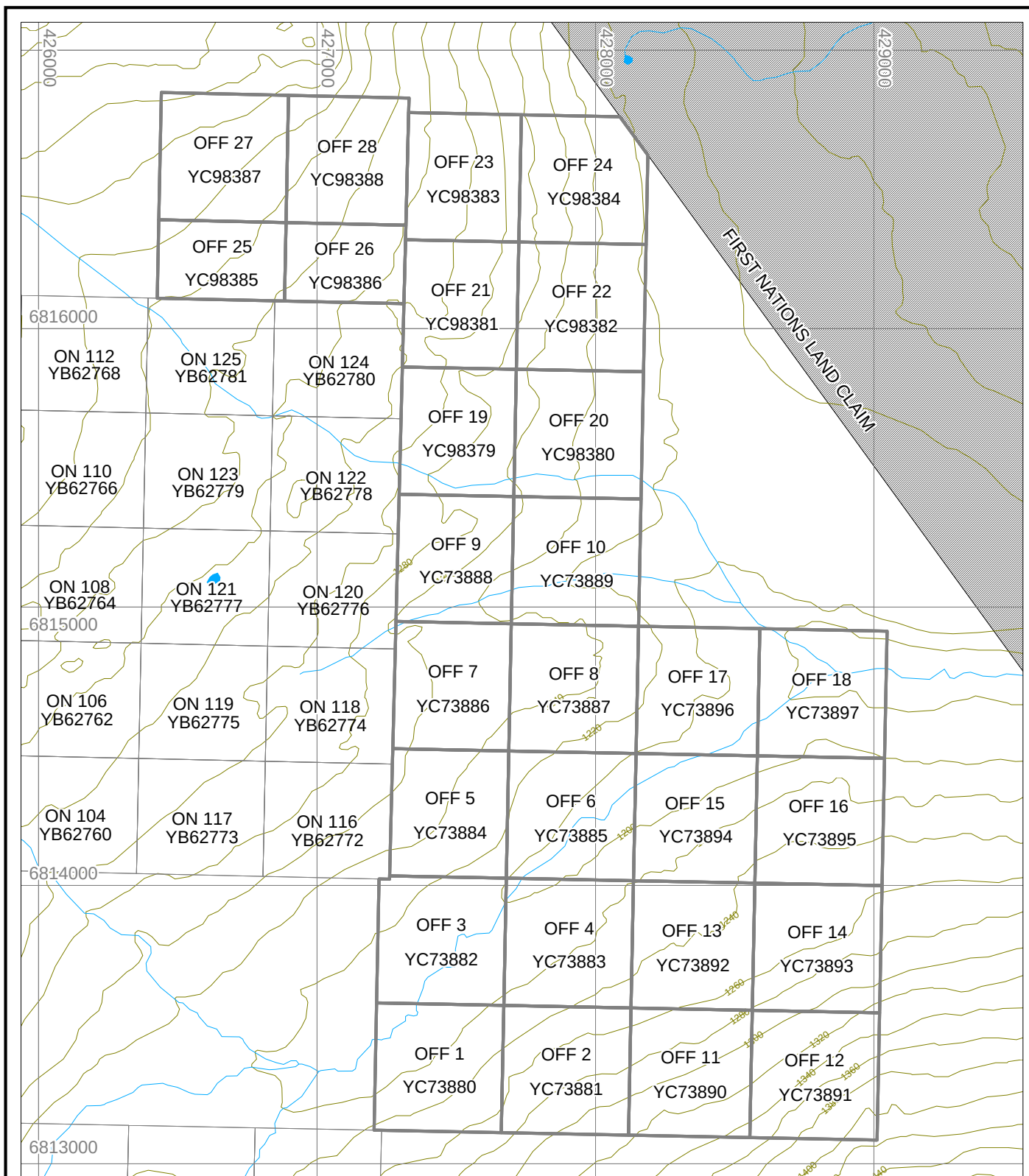
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**PROPERTY LOCATION**  
**OFF PROPERTY**



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FIGURE 2  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**CLAIM LOCATIONS**  
OFF PROPERTY

0 0.5 1.0 1.5 km

UTM ZONE 9W, NAD 83, 105G08

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conducted minor soil sampling and prospecting in 2001 (Terry, 2002), but allowed the claims to expire after receiving disappointing results.

### **GEOMORPHOLOGY**

The Off property lies on the northwest side of the Pelly Mountains about 2 km west of Wolverine Lake. Creeks draining the property flow into Wolverine Lake, which ultimately connects to the Arctic Ocean via the Finlayson, Frances, Liard and Mackenzie Rivers.

Topography is gentle to moderate, with elevations ranging from 1200 to 1440 m above sea level. Vegetation predominantly comprises arctic black birch with minor stands of spruce. Outcrop is rare in the area but does occur on ridge crests to the south and north of the property.

### **REGIONAL GEOLOGY**

The Finlayson Lake VMS district is located in southeastern Yukon, within an isolated outlier of Yukon-Tanana and Slide Mountain terranes and affiliated overlap assemblages. The district is bounded by the Tintina fault in the southwest and the Inconnu thrust fault in the northeast. Five major VMS deposits have been discovered in this package of rocks (Figure 3). The Fyre Lake, Kudze Kayah, GP4F, and Wolverine deposits all occur within the Yukon-Tanana terrane, while the Ice deposit is hosted in the Slide Mountain terrane.

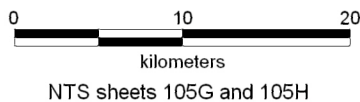
The Yukon-Tanana and Slide Mountain terranes represent continental arc and back-arc basin sequences that developed along the ancient Pacific margin of North America during late Devonian and through Permian (Piercey *et al.*, 2006). The pericratonic rocks of the Yukon-Tanana terrane and oceanic rocks of the 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 the 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.

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

Rocks of the Yukon-Tanana terrane in the Finlayson Lake district lie between the Tintina fault and the Jules Creek fault. The 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) the North River formation, the Grass Lakes and Wolverine Lake groups, and affiliated metaplutonic rocks in the Big Campbell thrust sheet; (2) the North River, Waters Creek and Tutchitua River formations and affiliated intrusions in the Money Creek thrust sheet; (3) the Cleaver Lake formation and intrusions of the Cleaver Lake thrust sheet (Figure 3). Regional shortening, uplift, erosion, and synorogenic clastic sedimentation took place during Early Permian. The 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

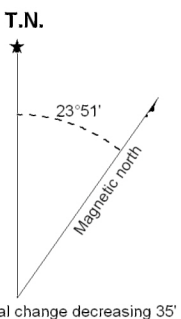
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FIGURE 3  
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REGIONAL GEOLOGY  
OFF PROPERTY



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VMS Deposits

- 1 Kudz Ze Kayah
- 2 GP4F
- 3 Wolverine
- 4 Fyre Lake
- 5 Ice

See attached legend for  
geological unit descriptions

- Fault
- Thrust fault
- - - Robert Campbell Highway

Modified from Piercey et al. (2008)

## LEGEND (Figure 3, modified from Piercey et al., 2008)

### Mesozoic and Cenozoic

-  undifferentiated intrusions
-  undifferentiated volcanic rocks

### NORTH AMERICAN CONTINENTAL MARGIN

#### Paleozoic

-  undifferentiated formations of Selwyn Basin, Cassier Platform, Earn Group and Mt. Christie Formation

#### Triassic

-  grey shale, siltstone and limestone

### POST - YYT/SMT AMALGAMATION

#### Permian to Triassic

- Simpson Lake group
-  polymictitic conglomerate, sandstone, siltstone, mafic and felsic volcanic rocks, limestone

### SLIDE MOUNTAIN TERRANE

#### INTRUSIVE ROCKS

#### Early Permian

-  ultramafic and mafic intrusions

### SLIDE MOUNTAIN TERRANE (SMT)

#### LAYERED ROCKS

#### Lower Permian

-  quartzite
-  limestone

#### Lower Permian

- Campbell Range formation
-  basalt and varicoloured chert

#### Carboniferous?

- Fortin Creek group
-  dark phyllite and chert, varicoloured chert, chert-pebble conglomerate, sandstone, limestone

### YUKON-TANANA TERRANE

#### INTRUSIVE ROCKS

#### Early Mississippian

- Simpson Range plutonic suite
-  granite, quartz monzonite, granodiorite

#### Late Devonian to Early Mississippian

- Grass Lakes plutonic suite
-  granite, quartz monzonite, augen granite
-  ultramafic and mafic intrusions, Big Campbell and Cleaver Lake thrust sheets

### YUKON-TANANA TERRANE (YTT)

#### LAYERED ROCKS

#### Lower Permian

- Money Creek formation
-  dark phyllite and sandstone, chert, chert-pebble conglomerate, diamictite

#### Upper Mississippian to Lower Permian

- Whitefish limestone
-  massive bioclastic limestone

#### Lower Mississippian

- Tuchitua formation
-  intermediate, felsic and mafic volcanic rocks, sandstone, chert, limestone

#### Wolverine Lake group

-  undifferentiated mafic and felsic volcanic rocks and dark clastic rocks

#### Upper Devonian to Lower Mississippian

- Cleaver Lake formation
-  calc-alkaline basalt, rhyolite, chert and volcanic derived sandstone

#### Waters Creek formation

-  felsic to intermediate metavolcanic rocks and carbonaceous phyllite

#### Grass Lakes group

-  felsic to intermediate metavolcanic rocks and dark clastic rocks of the Fire Lake, Kudzu Kayah, and Wind Lake formations

#### North River formation

-  quartzose metaclastic rocks, marble and non-carbonaceous pelitic schist

Creek thrust fault is constrained to Early Permian because both the hanging wall and footwall of the thrust fault are unconformably overlain by the Lower Permian rocks of the Campbell Range formation of Slide Mountain terrane.

The quartzose metaclastic rocks and metapelites of the North River formation are the oldest exposed rock units in the Big Campbell thrust sheet. The North River formation is overlain by the chloritic schist and lesser carbonaceous phyllite of the Fire Lake formation of the Grass Lakes group. This formation is the host of the Besshi-style Fyre Lake VMS deposit (Hunt, 2002). The deposit is Late Devonian in age and 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 dikes in the Fire Lake and North River formations, respectively. Stratigraphically overlying the Fire Lake formation is a carbonaceous phyllite-dominated succession which has been divided into two parts. The lower part, the Kudz Ze Kayah formation, contains felsic metavolcanic rocks that host the Kuroko-style Kudz Ze Kayah and GP4F VMS deposits, while the upper part, the Wind Lake formation, contains mafic metavolcanic rocks and quartzite (Murphy, 1998). The Grass Lakes group is intruded by the Late Devonian to Early Mississippian Grass Lakes plutonic suite and the Early Mississippian Simpson Range plutonic suite.

The Wolverine Lake group unconformably overlies the Grass Lakes group and is the host of 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, the Yukon-Tanana terrane experienced regional shortening and uplift. The deformation and erosion of the Mississippian and Pennsylvanian rocks were followed by unconformable deposition of the Money Creek formation. The Money Creek formation comprises carbonaceous phyllite and sandstone, varicoloured chert, chert-pebble conglomerate, and diamictite. This formation was emplaced atop units of the Wolverine Lake group in the Big Campbell thrust sheet and the 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. The Money Creek formation is preserved in the Big Campbell and Money Creek klippen.

The imbricated rocks of the Yukon-Tanana terrane are juxtaposed against rocks of the Slide Mountain terrane along the Jules Creek fault. The Slide Mountain terrane of the Finlayson Lake district consists of the Mississippian to Lower Permian Fortin Creek group, the Lower Permian Campbell Range formation and spatially associated plutonic rocks, and Lower Permian limestone and quartzite. The Ice VMS deposit is hosted in basalt of the Campbell Range formation (Hunt, 2002).

Middle Permian and younger sequences in the Finlayson Lake district are derived from, or deposited on both the Yukon-Tanana and Slide Mountain terranes. The 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 area. The first includes 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**

Geological mapping on the Off property is hindered by a lack of bedrock exposures. Maps have been produced that show outcrop locations and distribution of lithologies on the property inferred from examination of talus and rock chips taken from soil sample pits (Figure 4). Unit descriptions are based on 2009 field observations and a previous report (Terry *et al.* 1996).

The Off property is mostly underlain by easterly striking and moderately (30° to 45°) north dipping units of the Kudzu Ze Kayah formation. Compositional layering approximately parallels foliation. The basal unit is found in the southern part of the property. It is composed of quartz-biotite schist and a large lens of chlorite-biotite schist. The quartz-biotite schist is overlain to the north by a sequence of interbedded quartz-sericite-biotite schist and argillite. This sequence includes seven main subunits, of which four are relatively pure schist or argillite and two are transitional layers that contain beds of both rock types. The seventh sub-unit is a narrow quartzite layer. The interbedded schist/argillite sequence is capped by rhyolite, north of the property.

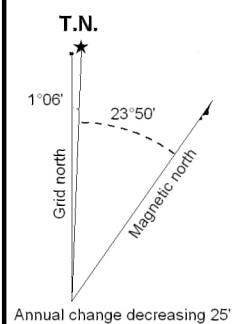
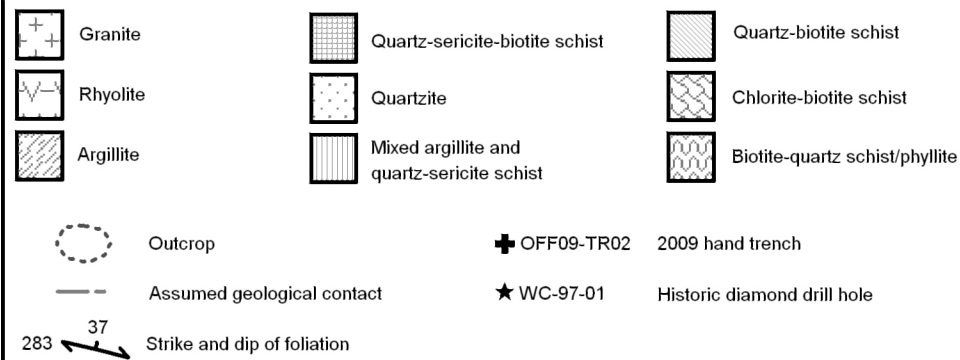
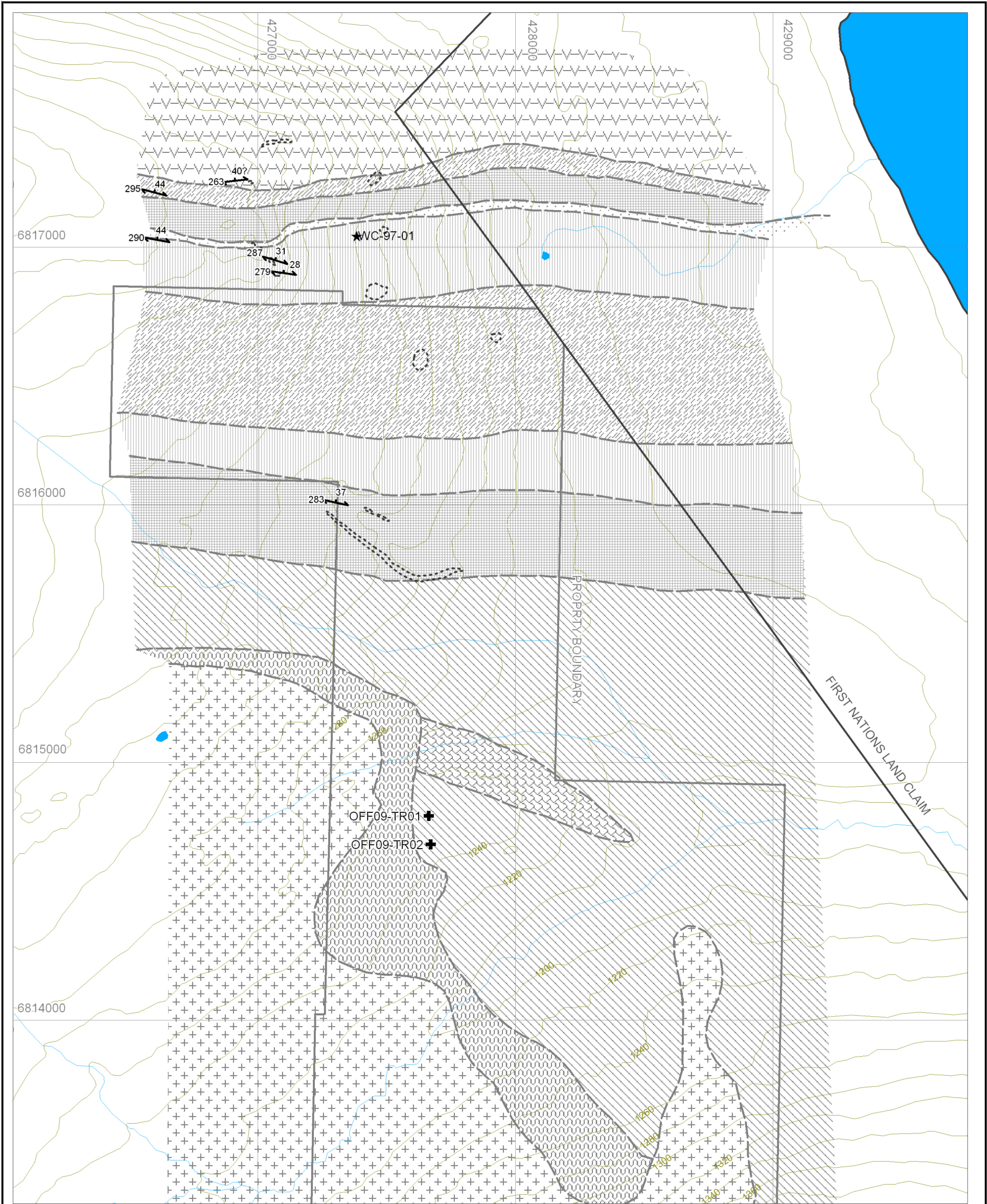
A granitic stock, likely belonging to a suite of undifferentiated Late Cretaceous plutons found in the area, has intruded the quartz-biotite schist in the southwestern part of the property. Between the stock and the quartz-biotite schist, there is a band of fine grained biotite-quartz schist/phyllite. This band is discordant to compositional layering in other metasedimentary and metavolcanic units. It is interpreted to be a zone of contact metamorphism developed when the pluton was emplaced.

### **Metamorphosed Sediments and Volcanics**

**Quartz-biotite schist** is a light grey medium grained schist that weathers to tan. It is moderately to well foliated with occasional crenulations and elongated quartz lenses. Biotite content ranges from 10 to 20%. This unit contains rare layers of angular, 2 by 4 mm feldspar porphyroblasts.

**Biotite-quartz schist/phyllite** is a fine grained dark grey schist/phyllite. It exhibits moderate foliation, highlighted by 1 to 2 mm diameter biotite crystals that are occasionally altered to chlorite.

**Chlorite-biotite schist** is dark green with a fine to medium grained texture. It is well foliated and sometimes contains thin quartz lenses. Minor epidote and actinolite have been observed in some specimens.



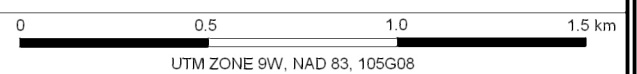
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FIGURE 4

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### PROPERTY GEOLOGY

OFF PROPERTY



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**Argillite** is dark grey and fine grained. It is moderately foliated and occasionally fissile. Where fissile, it contains up to 10% graphite.

**Quartzite** is white to light grey and massive with minor limonite stain on fractures.

**Rhyolite** is light grey, fine grained and poorly laminated with minor weakly aligned flakes of biotite.

### **Intrusive Unit**

**Granite** is light grey, equigranular and coarse grained. It contains approximately 45% plagioclase, 30% quartz, 10% orthoclase, 10% biotite and 5% muscovite.

### **Structure**

Foliation is moderately to well developed in all regionally metamorphosed units except the quartzite and rhyolite. The foliated units generally strike easterly with a moderate northerly dip (30° to 45°).

## **DEPOSIT MODEL**

Based on the lithologies mapped in the area, the Off property has potential to host a Kuroko-style VMS deposit, similar to the Kudz Ze Kayah deposit located 13 km to the west. The Kudz Ze Kayah deposit comprises an inferred resource of 12,800,000 tonnes grading 5.9% zinc, 1.7% lead, 0.81% copper, and 1.38 g/t gold (Teck Cominco Ltd., 2009). The following description of the Kudz Ze Kayah deposit provides a model for exploring and assessing the Off property.

The Kudz Ze Kayah deposit lies within the Yukon-Tanana terrane near the center of the Finlayson Lake VMS district. The main zone (previously known as the ABM deposit) is hosted within an overturned assemblage of felsic fragmental, aphanitic massive meta-rhyolite and meta-siliclastic rocks of the Kudz Ze Kayah formation (Bond, 2002).

The host metavolcanic sequence has been structurally thickened to about 1000 m and is subdivided up into the following units: felsic tuffs, felsic flows, feldspar and quartz meta-intrusive rocks, feldspar augen crystal tuff, and undifferentiated mafic metavolcanic rocks.

Felsic tuffs are the most abundant unit. They are commonly thin bedded near the top of the structural sequence and at stratigraphic levels where argillaceous, sediments occur as intercalations. Thin mafic tuffs are locally present in this unit as strongly foliated porphyroblastic chlorite-biotite-calcite unit and as coarse grained mafic schist with gabbroic texture (Schultze and Hall, 1997).

The deposit subcrops beneath 2 to 20 m of glacial overburden and extends for 700 m along an east-west strike and up to 400 m down dip (Schultze and Hall, 1997). The deposit is tabular and forms a single layer over much of its extent; however, two layers of sulphides have been encountered in some areas within the southwest part of the deposit (Schultze and Hall, 1997).

Economic minerals are sphalerite, chalcopyrite, and galena with electrum occurring at the margins of galena and chalcopyrite grains (Hunt, 2002). Gangue minerals include a mixture of magnetite, barite, pyrrhotite, pyrite and carbonate. Alteration in the immediate hanging wall and footwall of the deposit is typically porphyroblastic, chlorite/biotite-ankerite-muscovite  $\pm$  albite, while the distal alteration assemblage is characterized by carbonate-sericite-silica  $\pm$  pyrite (Hunt, 2002).

The hanging wall of the host metavolcanic complex is a metasedimentary package that lies about 200 m above the deposit. Its composition varies between carbonaceous and calcareous mudstones, with minor quartzites, siltstones, limestones and intercalations of mafic and felsic volcanics. This sequence is thick and regionally extensive. A second metasedimentary package underlies the metavolcanic complex. It is coarser grained than the hanging wall package and is largely composed of siltstones, phyllitic schists, light grey quartzites and more massive tuffaceous wackes interfingered with feldspar porphyry bodies. Locally, non-carbonaceous to carbonaceous mudstones, thin felsic tuffs, mafic sills and dykes (flows?) and banded cherty horizons are found in the footwall metasedimentary sequence. The thickness and extent of these units are unknown (Schultze and Hall, 1997).

The Kudz Ze Kayah deposit and its host rocks display a sub-horizontal to moderately north-dipping penetrative schistosity and exhibit isoclinal, recumbent folding with bedding generally parallel to schistosity (Schultze, 1996). The zonation of base and precious metals and barium within the deposit, the proximal location of chloritic alteration above portions of the deposit, and the lithogeochemical signatures of the deposit and the overlying units led Schultze (1996) to suggest that the deposit is, at least in part, overturned.

Based on the geological and geochemical characteristics of the Kudz Ze Kayah formation, Piercey *et al.* (2001) proposed that it was deposited within a back-arc basin environment. Mortensen (1992) suggested that Devonian-Mississippian Yukon-Tanana terrane arc magmas formed above a west-facing subduction zone proximal to North America and that the felsic rocks in the Kudz Ze Kayah formation represent rifting and subsequent ensialic back-arc basin generation within this arc. The arc rifting and the syn-volcanic faults associated with it are likely the regional-scale controls on the localization and formation of the Kudz Ze Kayah deposit (Murphy and Piercey, 2000).

## **GEOCHEMISTRY**

### **Soil Sampling**

The area covered by the Off claims was grid soil sampled in 1996 and 1997 by Westmin (Terry *et al.*, 1996 and 1998). This sampling defined a copper anomaly on the north side of the current claim block and a lead-zinc anomaly in the center of the claim block. The copper anomaly trends southeasterly and covers a 650 by 450 m area, with values ranging from 100 to 603 ppm. The lead-zinc anomaly trends northwesterly and covers a 100 by 500 m area, with lead and zinc values ranging from 100 to 634 ppm and 200 to 1965 ppm respectively. A reconnaissance soil sample line was completed by Expatriate in 2001. These samples returned two anomalous values for zinc (650 and 740 ppm) 650 m south of the main lead-zinc anomaly.

In 2009, a total of 105 soil samples were taken on two small grids, to extend the historic geochemical grid coverage. The northern grid continued 450 m west from the known copper anomaly, while the other grid extended 700 m south from the lead-zinc anomaly. Sample handling and analytical procedures used during the various soil sampling programs can be found in Appendix II while Certificates of Analysis for 2009 samples are in Appendix III. Sample locations for the 2009 samples are shown on Figure 5.

The 2009 soil sampling results have been compiled with historical data and are illustrated thematically on Figures 6, 7 and 8 for copper, lead and zinc. The 2009 results extended the copper anomaly 400 m to the west, but the high values are somewhat sporadic. The sampling on the southern grid failed to return anomalous values for any VMS pathfinder elements.

### **Rock Sampling**

Five rock samples were taken of different pyrite bearing schist specimens found on prospecting and mapping traverses in 2009 (Figure 5). Sample handling and analytical procedures can be found in Appendix II and Certificates of Analysis are in Appendix III. None of these samples returned anomalous values for VMS pathfinder elements.

### **HAND TRENCHING**

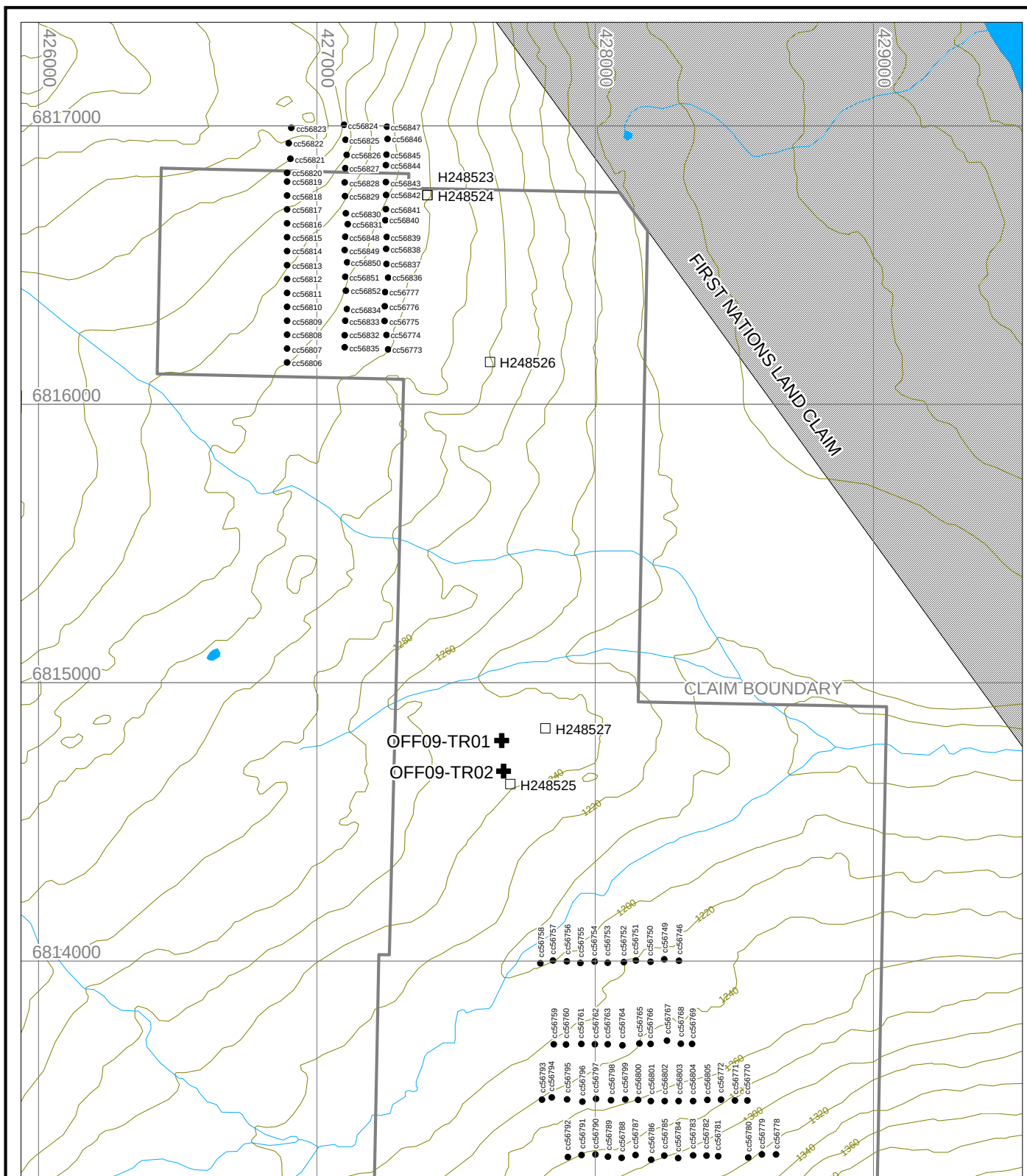
Two hand trenches were dug across part of the lead-zinc anomaly (Figures 9 and 10). Trench OFF09-TR01 was 4.2 m long and 0.8 m deep. It exposed a quartz-chlorite schist unit, samples of which returned only low geochemical values. Trench OFF09-TR02 was 9.0 m long and 0.5 to 1.0 m deep. On the west wall of the trench, a weakly to strongly limonite-altered horizon was encountered within the schist. A 40 cm chip sample across this horizon returned 200 ppm lead and 149 ppm zinc. Although these values are not as high as those from nearby soil samples, this horizon is likely the source of the soil geochemical anomaly. Samples from the rest of the trench returned subdued values for VMS pathfinder elements.

### **HISTORICAL DIAMOND DRILLING**

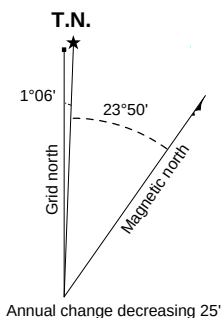
A 308 m long diamond drill hole was drilled at 180° with a -60° dip toward the copper-in-soil anomaly in the northern part of the claim block. This hole encountered several 1 to 4 cm thick massive pyrite bands within one of the argillite subunits; however, it failed to identify any copper mineralization to explain the soil geochemical anomaly.

### **DISCUSSION AND CONCLUSIONS**

The 2009 field program primarily focused on a linear lead-zinc anomaly near the center of the Off property. Soil sampling failed to extend the anomaly to the south, but hand trenching discovered a weakly lead- and zinc-enriched limonite-altered schist horizon that likely explains the soil geochemical anomaly. The thin, low-grade nature of this layer suggests that it is too small to be of direct economic interest.



- cc56791 2009 soil sample
- H248526 2009 rock sample
- ✚ Hand trench location



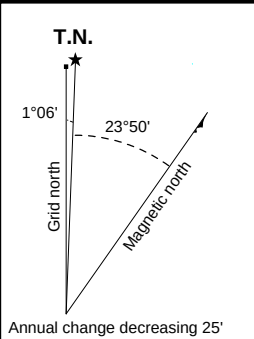
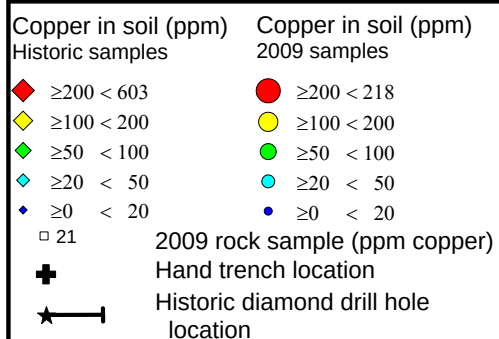
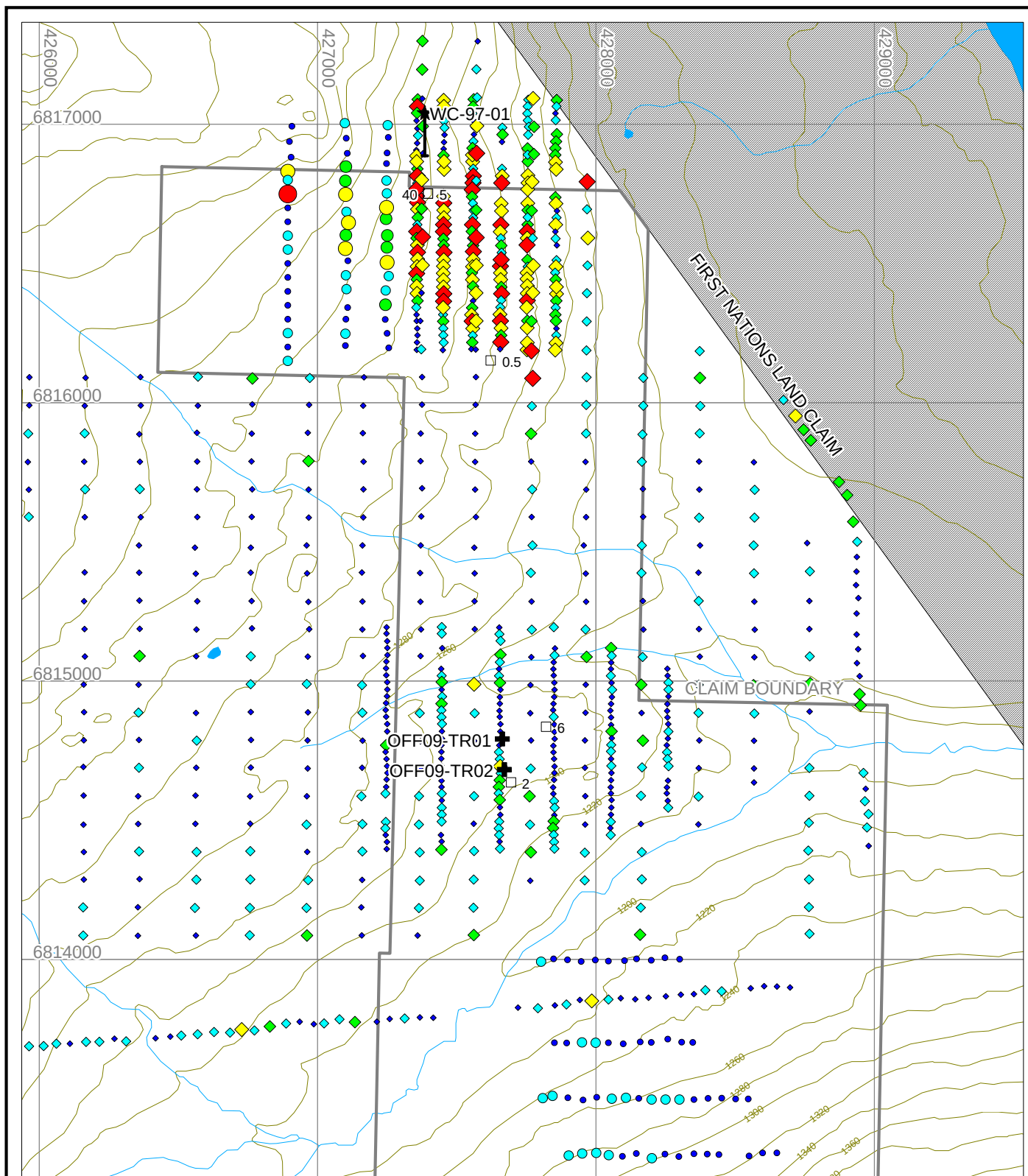
## STRATEGIC METALS LTD.

FIGURE 5  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**2009 SAMPLE LOCATIONS**  
OFF PROPERTY

0 0.5 1.0 1.5 km  
UTM ZONE 9W, NAD 83, 105G08

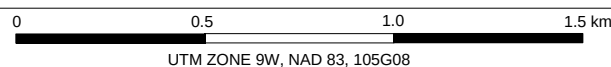
FILE: ...2009/OFF/I.WOR

DATE: NOVEMBER 2009



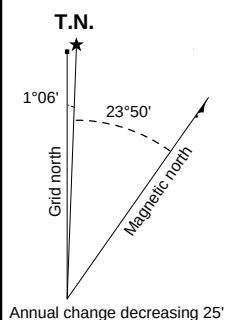
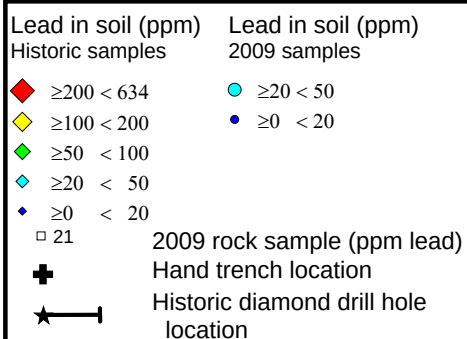
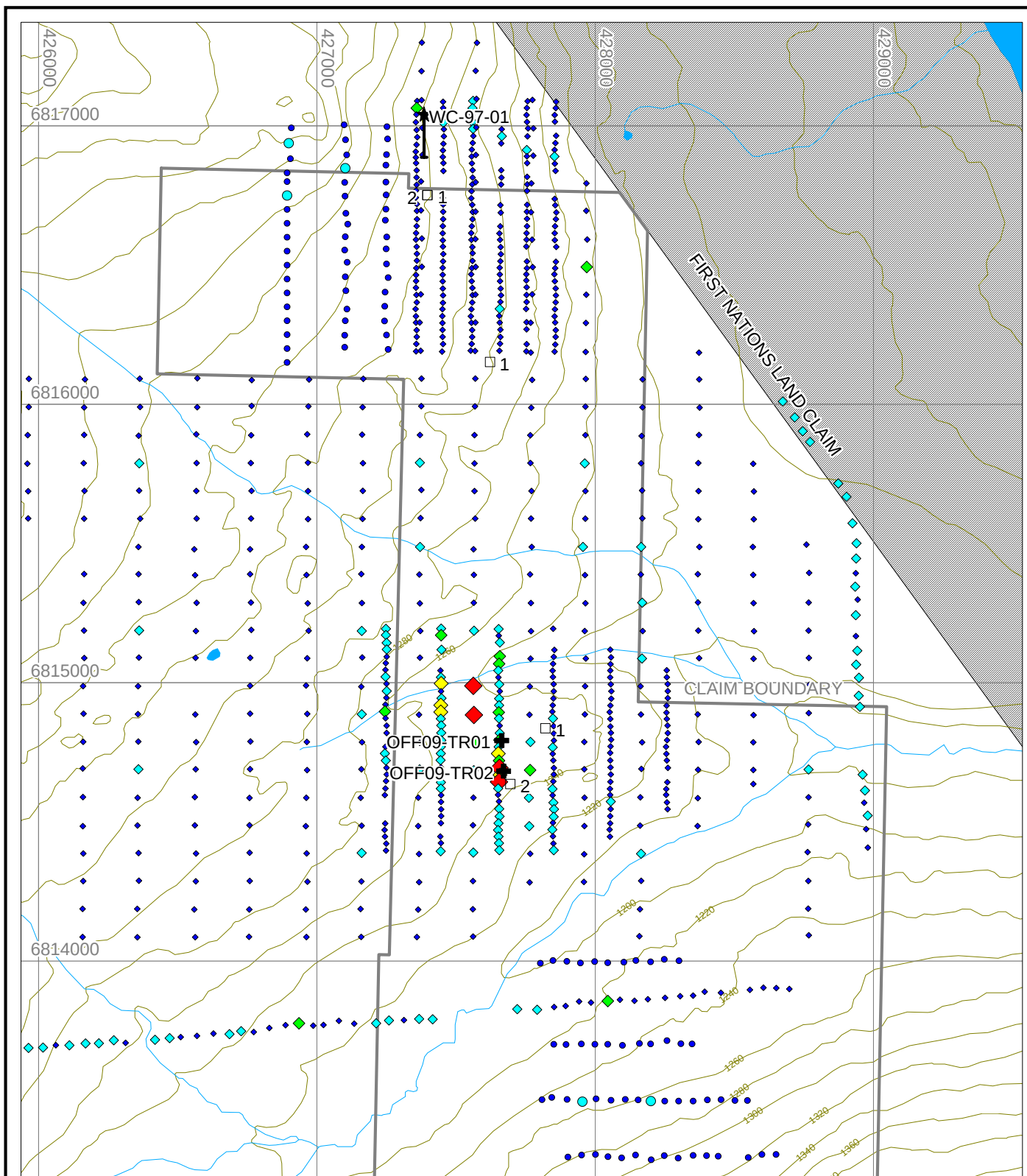
# STRATEGIC METALS LTD.

FIGURE 6  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**COPPER GEOCHEMISTRY**  
OFF PROPERTY



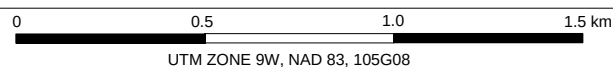
FILE: ...2009/OFF/I.WOR

DATE: NOVEMBER 2009



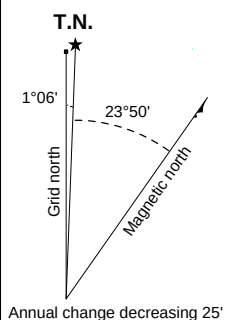
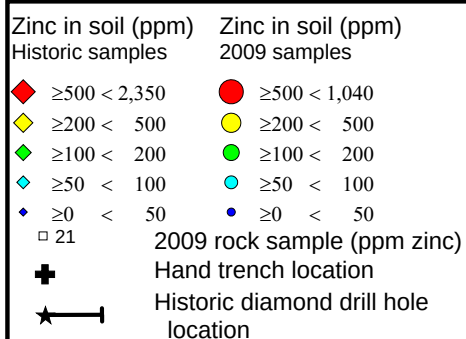
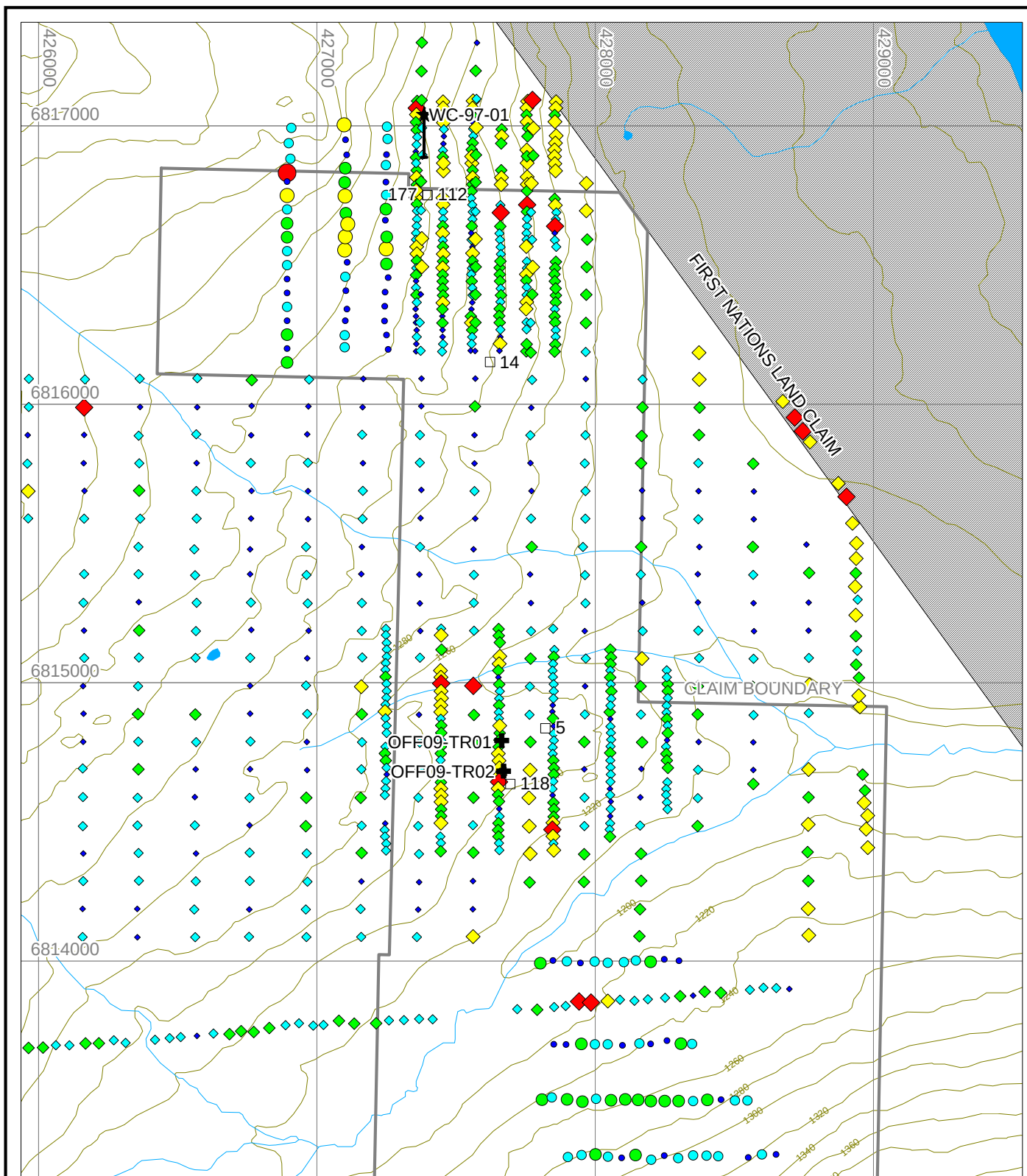
# STRATEGIC METALS LTD.

FIGURE 7  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**LEAD GEOCHEMISTRY**  
OFF PROPERTY



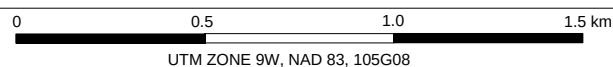
FILE: ...2009/OFF/I.WOR

DATE: NOVEMBER 2009



# STRATEGIC METALS LTD.

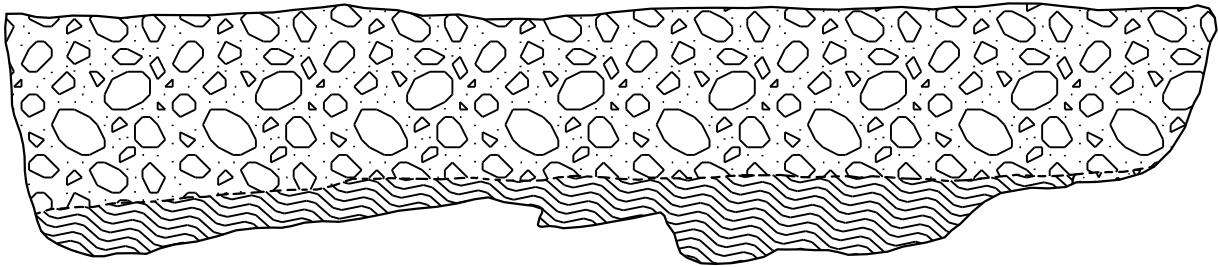
FIGURE 8  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ZINC GEOCHEMISTRY**  
OFF PROPERTY



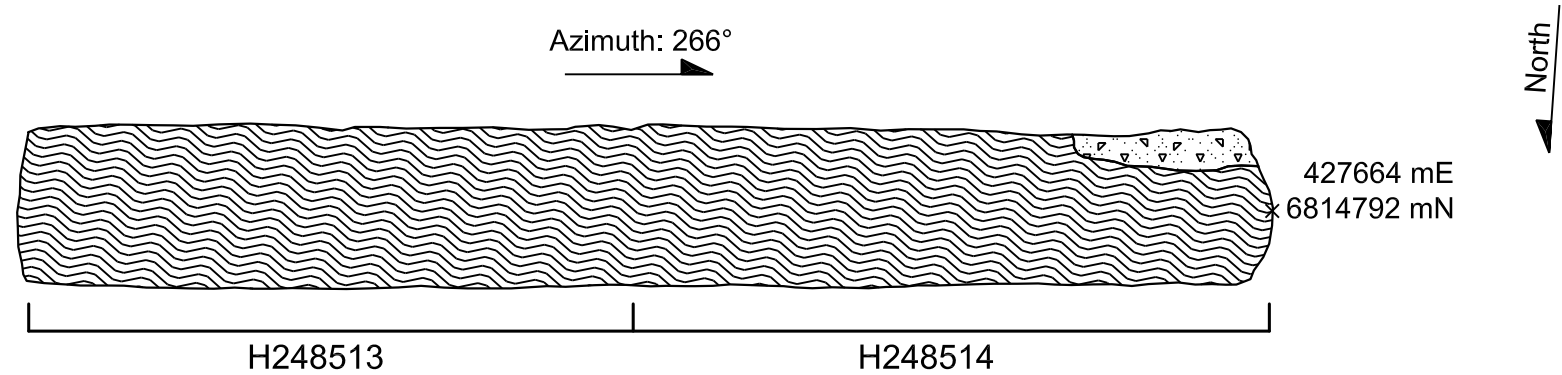
FILE: ...2009/OFF/I.WOR

DATE: NOVEMBER 2009

Section View (looking south)



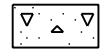
Plan View



| Sample No. | Cu (ppm) | Pb (ppm) | Zn (ppm) | Sample Interval |
|------------|----------|----------|----------|-----------------|
| H248513    | 32       | 16       | 130      | 2.0 m           |
| H248514    | 13       | 8        | 116      | 2.1 m           |



Overburden.



Gouge with fragments of a white quartz vein and an unknown dark grey mineral. Layers and clots of a vuggy purple mineral (possibly manganese stained limonite and minor sulphides) are also present.



Medium green quartz-chlorite schist.



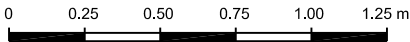
Assay interval and sample number.

STRATEGIC METALS LTD.

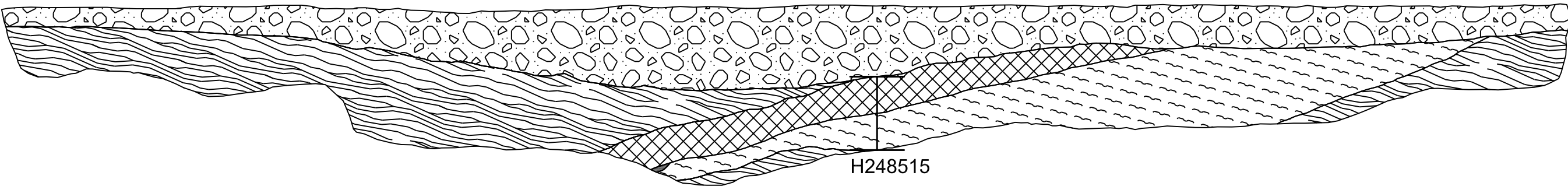
FIGURE 9

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

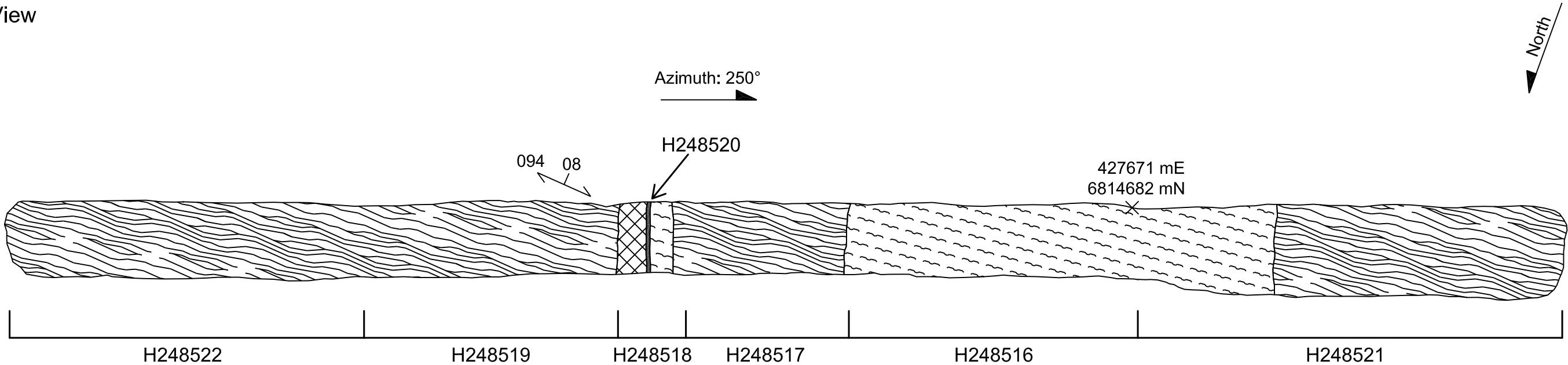
OFF09-TR01 TRENCH MAP  
OFF PROPERTY



Section View (looking south)



Plan View



| Sample No. | Cu (ppm) | Pb (ppm) | Zn (ppm) | Sample Interval |
|------------|----------|----------|----------|-----------------|
| H248515    | 15       | 200      | 149      | 0.5 m           |
| H248516    | 11       | 37       | 187      | 1.6 m           |
| H248517    | 26       | 19       | 141      | 0.9 m           |
| H248518    | 99       | 20       | 214      | 0.4 m           |
| H248519    | 4        | 15       | 41       | 1.4 m           |
| H248520    | 43       | 104      | 220      | Specimen        |
| H248521    | 47       | 4        | 87       | 2.4 m           |
| H248522    | 2        | 12       | 43       | 2.0 m           |

-  Overburden.
-  Light brown, weak to moderately limonite altered, soft and fissile muscovite schist ± biotite. Limonite alteration is moderate to strong in the western end of the trench.
-  Medium to dark grey, well foliated, quartz-biotite schist ± disseminated pyrite; ~1 mm thick quartz layers (70%) are separated by thin biotite layers (30%). Unit is interlayered with ~10% shale in the eastern end of the trench.

-  Moderately weathered and limonite altered zone.
-  Dark purple/brown, very fissile horizon. One coherent piece of rock contains ~15% fine grained pyrite clots and ~5% of a dull grey sulphide/sulphasalt (unknown). Specimen sample H248520.
-  Assay interval and sample number.

STRATEGIC METALS LTD.

FIGURE 10  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
OFF09-TR02 TRENCH MAP  
OFF PROPERTY

00.250.500.751.001.25 m

FILE: ...IFINLAYSON\OFF\FIGURES\F10\_OFF09-TR02.DWGDATE: NOVEMBER 2009

The secondary target in 2009 was the copper anomaly on the north side of the claim block. Soil sampling extended this anomaly 400 m to the west.

The best target on the Off claims appears to be the copper anomaly on the north side of the claims. Future work should consist of diamond drilling closer to the anomaly to determine to source of the copper.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Dan Gregory, B.Sc. Geology, GIT

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Teck Cominco Ltd.

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Terry, D. A., Hall, D.

1998 Assessment Report Describing Geophysical, Geochemical, and Diamond Drill Programs on the On Joint Venture Claims (On 21-101, 104-113, 116-129, 134-146, 162-173, and 197-198), Finlayson Lake Area, Yukon Territory: Assessment report 093821 written for Westmin Resources Ltd.

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Tucker, T. L.

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**APPENDIX I**  
**STATEMENT OF QUALIFICATIONS**

### **STATEMENT OF QUALIFICATIONS**

I, Daniel Gregory, geologist, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address in Richmond, British Columbia, do hereby certify that:

1. I graduated from the University of British Columbia in 2007 with a B.Sc. (Hons.) in Geology.
2. From 2004 to present, I have been actively engaged in mineral exploration in the Yukon Territory.
3. I am a Geoscientist in Training (GIT) with the Association of Professional Engineers and Geoscientists of British Columbia (Member Number 153805).
4. I have personally participated in the fieldwork reported herein.

Daniel Gregory, B.Sc., GIT

**APPENDIX II**

**SAMPLE HANDLING AND ANALYTICAL PROCEDURES**

## **ASSAY METHODS FOR GEOCHEMICAL SAMPLING**

In 1996 and 1997, Westmin Resources conducted soil sampling in the vicinity of the current Off claim block. The samples were taken from B or C horizon soil at 50 m intervals on lines spaced 100 m apart. The samples were sent to ALS Chemex in Vancouver, B.C., where they were dried and dissolved in a triple nitric acid digestion. These were then analyzed for 24 elements using the induced coupled plasma (ICP) technique. Select samples were also analyzed for gold.

All 2009 soil samples were located by means of compass and hip-chain surveys with frequent checks using handheld GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m thick wooden laths that were driven into the ground. Soil samples were collected from 40 to 60 cm deep holes dug by hand auger. They were placed into individually pre-numbered Kraft paper bags.

The 2009 samples were sent to ALS Chemex in North Vancouver, B.C. where they were dried, screened to -180 microns, dissolved in an aqua regia solution and then analyzed for 35 elements using the inductively coupled plasma-atomic emission spectroscopy technique (ME-ICP41).

A total of 15 rock samples were taken in 2009, ten of which were taken from hand trenches OFF09-TR01 and OFF09-TR02. They were sent to ALS Chemex in North Vancouver, B.C. where they were dried and fine crushed to better than 70% passing 2 mm. A 250 g split was then pulverized to better than 85% passing 75 micron. A portion of this material was digested in aqua regia and analysed for 35 elements by inductively coupled plasma-atomic emission spectroscopy technique (ME-ICP41).

**APPENDIX III**  
**CERTIFICATES OF ANALYSIS**



# ALS Chemex

**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

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

To: STRATEGIC METALS LTD.

C/O ARCHER, CATHRO & ASSOCIATES (1981)

LIMITED

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Page: 1

Finalized Date: 5-AUG-2009

Account: MTT

## CERTIFICATE VA09069912

Project: OFF (Fin)

P.O. No.:

This report is for 15 Rock samples submitted to our lab in Vancouver, BC, Canada on 10-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER  
VANCOUVER OFFICE

DOUG EATON  
BILL WENGZYNOWSKI

JOAN MARIACHER

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION                    |
|----------|--------------------------------|
| WEI-21   | Received Sample Weight         |
| LOG-22   | Sample login - Rcd w/o BarCode |
| CRU-31   | Fine crushing - 70% <2mm       |
| SPL-21   | Split sample - riffle splitter |
| PUL-36   | Pulverize 1.5 kg to 85% <75 um |
| BAG-01   | Bulk Master for Storage        |
| CRU-QC   | Crushing QC Test               |
| PUL-QC   | Pulverizing QC Test            |

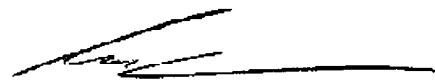
## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION                   | INSTRUMENT |
|----------|-------------------------------|------------|
| ME-ICP41 | 35 Element Aqua Regia ICP-AES | ICP-AES    |

To: STRATEGIC METALS LTD.  
C/O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
1016-510 W HASTINGS ST  
VANCOUVER BC V6B 1L8

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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**Finalized Date: 5-AUG-2009**

Account: MTT

**CERTIFICATE OF ANALYSIS    VA09069912**

[illegible]



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Page: 2 - C

Total Charges: 2 (A - C)

Finalized Date: 5-AUG-2009

Account: MTT

## CERTIFICATE OF ANALYSIS VA09069912

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-ICP41 | ME-ICP41  | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41  |
|--------------------|-----------------------------------|----------|-----------|----------|----------|----------|-----------|
|                    |                                   | Ti<br>%  | Ti<br>ppm | U<br>ppm | V<br>ppm | W<br>ppm | Zn<br>ppm |
|                    |                                   | 0.01     | 10        | 10       | 1        | 10       | 2         |
| H248513            |                                   | 0.14     | <10       | <10      | 30       | <10      | 130       |
| H248514            |                                   | 0.19     | <10       | <10      | 29       | <10      | 116       |
| H248515            |                                   | 0.16     | <10       | <10      | 46       | <10      | 149       |
| H248516            |                                   | 0.17     | <10       | <10      | 60       | <10      | 187       |
| H248517            |                                   | 0.13     | <10       | <10      | 67       | <10      | 141       |
| H248518            |                                   | 0.20     | <10       | <10      | 127      | <10      | 214       |
| H248519            |                                   | 0.06     | <10       | <10      | 10       | <10      | 41        |
| H248520            |                                   | 0.18     | <10       | <10      | 70       | <10      | 220       |
| H248521            |                                   | 0.11     | <10       | <10      | 41       | <10      | 87        |
| H248522            |                                   | 0.06     | <10       | <10      | 12       | <10      | 43        |
| H248523            |                                   | 0.01     | <10       | <10      | 60       | <10      | 112       |
| H248524            |                                   | 0.02     | <10       | <10      | 187      | <10      | 177       |
| H248525            |                                   | 0.25     | <10       | <10      | 25       | <10      | 118       |
| H248526            |                                   | <0.01    | <10       | <10      | 2        | <10      | 14        |
| H248527            |                                   | 0.01     | <10       | <10      | 3        | <10      | 5         |



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Page: 1

Finalized Date: 29-JUL-2009

Account: MTT

## CERTIFICATE VA09069911

Project: OFF (Fin)

P.O. No.: Bag #7

This report is for 105 Soil samples submitted to our lab in Vancouver, BC, Canada on 10-JUL-2009.

The following have access to data associated with this certificate:

AL ARCHER  
VANCOUVER OFFICE

DOUG EATON  
BILL WENGZYNOWSKI

JOAN MARIACHER

## 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 |

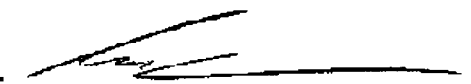
## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION                   | INSTRUMENT |
|----------|-------------------------------|------------|
| 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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North Vancouver BC V7J 2C1

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Project: OFF (Fin)

Page: 2 - A

Total # Pages: 4 (A - C)

Finalized Date: 29-JUL-2009

Account: MTT

## CERTIFICATE OF ANALYSIS VA09069911

| Method<br>Analyte<br>Units<br>LOR | WEI-21<br>Recvd Wt.<br>kg | ME-ICP41<br>Ag<br>ppm | ME-ICP41<br>Al<br>% | ME-ICP41<br>As<br>ppm | ME-ICP41<br>B<br>ppm | ME-ICP41<br>Ba<br>ppm | ME-ICP41<br>Be<br>ppm | ME-ICP41<br>Bi<br>ppm | ME-ICP41<br>Ca<br>% | ME-ICP41<br>Cd<br>ppm | ME-ICP41<br>Co<br>ppm | ME-ICP41<br>Cr<br>ppm | ME-ICP41<br>Cu<br>ppm | ME-ICP41<br>Fe<br>% | ME-ICP41<br>Ga<br>ppm |
|-----------------------------------|---------------------------|-----------------------|---------------------|-----------------------|----------------------|-----------------------|-----------------------|-----------------------|---------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------------|-----------------------|
| Sample Description                | 0.02                      | 0.2                   | 0.01                | 2                     | 10                   | 10                    | 0.5                   | 2                     | 0.01                | 0.5                   | 1                     | 1                     | 1                     | 0.01                | 10                    |
| CC56746                           | 0.20                      | <0.2                  | 0.32                | 2                     | <10                  | 60                    | <0.5                  | <2                    | 0.09                | <0.5                  | 2                     | 17                    | 5                     | 0.45                | <10                   |
| CC56749                           | 0.16                      | 0.2                   | 0.80                | <2                    | <10                  | 60                    | 0.5                   | <2                    | 0.50                | <0.5                  | 3                     | 11                    | 7                     | 0.93                | <10                   |
| CC56750                           | 0.32                      | <0.2                  | 1.67                | 19                    | <10                  | 110                   | 1.0                   | <2                    | 0.21                | <0.5                  | 11                    | 41                    | 6                     | 3.22                | 10                    |
| CC56751                           | 0.30                      | <0.2                  | 1.64                | 5                     | <10                  | 80                    | 0.8                   | <2                    | 0.12                | <0.5                  | 11                    | 52                    | 9                     | 3.17                | 10                    |
| CC56752                           | 0.26                      | <0.2                  | 1.31                | 4                     | <10                  | 60                    | 0.5                   | <2                    | 0.08                | <0.5                  | 6                     | 44                    | 6                     | 2.45                | 10                    |
| CC56753                           | 0.12                      | 0.2                   | 0.47                | <2                    | <10                  | 100                   | <0.5                  | <2                    | 1.40                | 1.4                   | 2                     | 4                     | 16                    | 0.40                | <10                   |
| CC56754                           | 0.24                      | 0.3                   | 0.49                | 2                     | <10                  | 30                    | <0.5                  | <2                    | 0.07                | <0.5                  | 2                     | 5                     | 7                     | 0.72                | <10                   |
| CC56755                           | 0.24                      | <0.2                  | 0.51                | <2                    | <10                  | 60                    | <0.5                  | <2                    | 0.74                | <0.5                  | 2                     | 5                     | 12                    | 0.51                | <10                   |
| CC56756                           | 0.28                      | <0.2                  | 1.11                | 4                     | <10                  | 100                   | 0.6                   | <2                    | 1.04                | <0.5                  | 8                     | 38                    | 14                    | 1.91                | <10                   |
| CC56757                           | 0.26                      | <0.2                  | 0.80                | 3                     | <10                  | 100                   | 0.5                   | <2                    | 0.76                | <0.5                  | 6                     | 30                    | 14                    | 1.54                | <10                   |
| CC56758                           | 0.18                      | 0.2                   | 0.94                | 2                     | <10                  | 90                    | 0.8                   | <2                    | 1.02                | 3.3                   | 5                     | 24                    | 44                    | 1.18                | <10                   |
| CC56759                           | 0.18                      | <0.2                  | 0.52                | <2                    | <10                  | 90                    | <0.5                  | <2                    | 1.46                | 0.5                   | 3                     | 7                     | 16                    | 0.65                | <10                   |
| CC56760                           | 0.22                      | <0.2                  | 0.61                | <2                    | <10                  | 70                    | <0.5                  | <2                    | 0.64                | <0.5                  | 4                     | 12                    | 8                     | 0.97                | <10                   |
| CC56761                           | 0.18                      | <0.2                  | 1.44                | 6                     | <10                  | 150                   | 1.0                   | <2                    | 1.77                | <0.5                  | 7                     | 29                    | 36                    | 2.41                | <10                   |
| CC56762                           | 0.16                      | 0.2                   | 0.83                | 2                     | <10                  | 110                   | 0.5                   | <2                    | 1.98                | 0.7                   | 4                     | 12                    | 23                    | 1.03                | <10                   |
| CC56763                           | 0.30                      | <0.2                  | 0.75                | 5                     | <10                  | 50                    | <0.5                  | <2                    | 0.04                | 2.3                   | 2                     | 14                    | 7                     | 1.18                | 10                    |
| CC56764                           | 0.20                      | <0.2                  | 0.30                | 120                   | <10                  | 30                    | <0.5                  | <2                    | 0.82                | 0.5                   | 4                     | 2                     | 7                     | 0.28                | <10                   |
| CC56765                           | 0.36                      | <0.2                  | 1.51                | 5                     | <10                  | 110                   | 0.8                   | <2                    | 0.14                | <0.5                  | 8                     | 58                    | 6                     | 2.90                | 10                    |
| CC56766                           | 0.28                      | <0.2                  | 1.11                | 4                     | <10                  | 60                    | <0.5                  | <2                    | 0.04                | <0.5                  | 4                     | 25                    | 5                     | 2.20                | 10                    |
| CC56767                           | 0.30                      | <0.2                  | 1.27                | <2                    | <10                  | 80                    | 0.6                   | <2                    | 0.13                | <0.5                  | 7                     | 30                    | 9                     | 2.35                | 10                    |
| CC56768                           | 0.22                      | <0.2                  | 2.21                | <2                    | <10                  | 250                   | 1.0                   | <2                    | 0.77                | <0.5                  | 10                    | 39                    | 16                    | 2.97                | 10                    |
| CC56769                           | 0.24                      | 0.2                   | 1.94                | 3                     | <10                  | 190                   | 0.9                   | 2                     | 0.59                | <0.5                  | 9                     | 36                    | 15                    | 3.06                | 10                    |
| CC56770                           | 0.40                      | <0.2                  | 1.57                | 4                     | <10                  | 140                   | 0.8                   | <2                    | 0.28                | <0.5                  | 8                     | 33                    | 15                    | 2.62                | 10                    |
| CC56771                           | 0.20                      | 0.5                   | 1.45                | 2                     | <10                  | 230                   | 0.6                   | <2                    | 0.47                | <0.5                  | 5                     | 31                    | 14                    | 1.96                | 10                    |
| CC56772                           | 0.24                      | <0.2                  | 0.81                | 3                     | <10                  | 60                    | <0.5                  | <2                    | 0.09                | <0.5                  | 3                     | 13                    | 4                     | 1.23                | <10                   |
| CC56773                           | 0.36                      | <0.2                  | 0.24                | <2                    | <10                  | 50                    | <0.5                  | <2                    | 0.19                | <0.5                  | 1                     | 10                    | 1                     | 0.38                | <10                   |
| CC56774                           | 0.30                      | <0.2                  | 0.64                | 2                     | <10                  | 60                    | <0.5                  | <2                    | 0.14                | <0.5                  | 2                     | 19                    | 3                     | 0.84                | <10                   |
| CC56775                           | 0.26                      | <0.2                  | 0.30                | <2                    | <10                  | 90                    | <0.5                  | <2                    | 0.61                | <0.5                  | 2                     | 8                     | 11                    | 0.42                | <10                   |
| CC56776                           | 0.20                      | 0.2                   | 0.60                | 2                     | <10                  | 590                   | 1.5                   | <2                    | 3.96                | 1.4                   | 4                     | 11                    | 58                    | 0.53                | <10                   |
| CC56777                           | 0.16                      | <0.2                  | 0.71                | 2                     | <10                  | 270                   | 0.6                   | <2                    | 1.56                | 1.4                   | 2                     | 17                    | 34                    | 0.81                | <10                   |
| CC56778                           | 0.22                      | <0.2                  | 1.26                | 5                     | <10                  | 100                   | 0.5                   | <2                    | 0.11                | <0.5                  | 5                     | 30                    | 9                     | 2.15                | 10                    |
| CC56779                           | 0.24                      | <0.2                  | 1.13                | 2                     | <10                  | 90                    | 0.5                   | <2                    | 0.19                | <0.5                  | 6                     | 32                    | 9                     | 1.95                | <10                   |
| CC56780                           | 0.12                      | 0.4                   | 1.20                | 2                     | <10                  | 120                   | 0.5                   | <2                    | 0.15                | <0.5                  | 5                     | 21                    | 8                     | 1.63                | <10                   |
| CC56781                           | 0.26                      | 0.3                   | 1.70                | 3                     | <10                  | 240                   | 0.9                   | <2                    | 0.28                | <0.5                  | 10                    | 31                    | 10                    | 2.54                | <10                   |
| CC56782                           | 0.24                      | <0.2                  | 1.29                | 3                     | <10                  | 150                   | 0.6                   | <2                    | 0.24                | <0.5                  | 7                     | 26                    | 9                     | 2.11                | 10                    |
| CC56783                           | 0.20                      | <0.2                  | 1.67                | 3                     | <10                  | 200                   | 0.5                   | <2                    | 0.19                | <0.5                  | 9                     | 29                    | 6                     | 2.37                | 10                    |
| CC56784                           | 0.22                      | 0.2                   | 1.62                | 4                     | <10                  | 150                   | 0.6                   | 2                     | 0.65                | <0.5                  | 8                     | 28                    | 6                     | 2.92                | 10                    |
| CC56785                           | 0.20                      | <0.2                  | 1.55                | 5                     | <10                  | 70                    | 0.5                   | <2                    | 0.11                | <0.5                  | 6                     | 31                    | 4                     | 2.91                | 10                    |
| CC56786                           | 0.18                      | 0.2                   | 1.03                | 2                     | <10                  | 170                   | 0.7                   | <2                    | 1.25                | 1.1                   | 5                     | 16                    | 20                    | 1.52                | <10                   |
| CC56787                           | 0.24                      | 0.2                   | 2.18                | 3                     | <10                  | 170                   | 1.1                   | 2                     | 0.61                | <0.5                  | 11                    | 51                    | 19                    | 3.57                | 10                    |



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ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1

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VANCOUVER BC V6B 1L8

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Page: 2 - B

Total # Pages: 4 (A - C)

Finalized Date: 29-JUL-2009

Account: MTT

## CERTIFICATE OF ANALYSIS VA09069911

| Method<br>Analyte<br>Units<br>LOR | ME-ICP41<br>Hg<br>ppm<br>1 | ME-ICP41<br>K<br>%<br>0.01 | ME-ICP41<br>La<br>ppm<br>10 | ME-ICP41<br>Mg<br>%<br>0.01 | ME-ICP41<br>Mn<br>ppm<br>5 | ME-ICP41<br>Mo<br>ppm<br>1 | ME-ICP41<br>Na<br>%<br>0.01 | ME-ICP41<br>Ni<br>ppm<br>1 | ME-ICP41<br>P<br>ppm<br>10 | ME-ICP41<br>Pb<br>ppm<br>2 | ME-ICP41<br>S<br>%<br>0.01 | ME-ICP41<br>Sb<br>ppm<br>2 | ME-ICP41<br>Sc<br>ppm<br>1 | ME-ICP41<br>Sr<br>ppm<br>1 | ME-ICP41<br>Th<br>ppm<br>20 |
|-----------------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|
| Sample Description                |                            |                            |                             |                             |                            |                            |                             |                            |                            |                            |                            |                            |                            |                            |                             |
| CC56746                           | <1                         | 0.05                       | 10                          | 0.08                        | 31                         | 2                          | 0.02                        | 9                          | 110                        | 6                          | 0.03                       | <2                         | 1                          | 9                          | <20                         |
| CC56749                           | <1                         | 0.05                       | 30                          | 0.16                        | 181                        | 3                          | 0.03                        | 8                          | 650                        | 3                          | 0.07                       | <2                         | 1                          | 20                         | <20                         |
| CC56750                           | <1                         | 0.32                       | 20                          | 0.79                        | 302                        | 2                          | 0.01                        | 42                         | 680                        | 11                         | 0.03                       | <2                         | 5                          | 9                          | <20                         |
| CC56751                           | <1                         | 0.21                       | 10                          | 0.63                        | 263                        | <1                         | 0.01                        | 45                         | 580                        | 8                          | 0.02                       | <2                         | 4                          | 6                          | <20                         |
| CC56752                           | <1                         | 0.10                       | 10                          | 0.53                        | 211                        | 1                          | 0.01                        | 26                         | 330                        | 9                          | 0.02                       | <2                         | 4                          | 7                          | <20                         |
| CC56753                           | <1                         | 0.03                       | 10                          | 0.11                        | 164                        | <1                         | 0.04                        | 10                         | 560                        | <2                         | 0.10                       | <2                         | <1                         | 50                         | <20                         |
| CC56754                           | <1                         | 0.05                       | 10                          | 0.11                        | 44                         | <1                         | 0.03                        | 1                          | 250                        | 5                          | 0.04                       | <2                         | 1                          | 9                          | <20                         |
| CC56755                           | <1                         | 0.04                       | 10                          | 0.09                        | 86                         | <1                         | 0.05                        | 7                          | 350                        | 2                          | 0.10                       | <2                         | <1                         | 30                         | <20                         |
| CC56756                           | <1                         | 0.25                       | 20                          | 0.58                        | 347                        | 2                          | 0.02                        | 20                         | 830                        | 8                          | 0.08                       | <2                         | 3                          | 32                         | <20                         |
| CC56757                           | <1                         | 0.17                       | 20                          | 0.38                        | 256                        | 1                          | 0.02                        | 24                         | 900                        | 8                          | 0.07                       | <2                         | 2                          | 25                         | <20                         |
| CC56758                           | <1                         | 0.17                       | 40                          | 0.35                        | 173                        | 1                          | 0.04                        | 24                         | 680                        | 7                          | 0.14                       | <2                         | 2                          | 33                         | <20                         |
| CC56759                           | <1                         | 0.05                       | 40                          | 0.13                        | 403                        | <1                         | 0.04                        | 13                         | 930                        | 2                          | 0.13                       | <2                         | 1                          | 45                         | <20                         |
| CC56760                           | <1                         | 0.10                       | 10                          | 0.23                        | 154                        | <1                         | 0.03                        | 9                          | 470                        | 3                          | 0.07                       | <2                         | 1                          | 23                         | <20                         |
| CC56761                           | <1                         | 0.35                       | 50                          | 0.62                        | 412                        | 2                          | 0.02                        | 30                         | 910                        | 13                         | 0.11                       | <2                         | 5                          | 47                         | <20                         |
| CC56762                           | <1                         | 0.13                       | 20                          | 0.28                        | 208                        | <1                         | 0.03                        | 17                         | 520                        | 3                          | 0.10                       | <2                         | 1                          | 53                         | <20                         |
| CC56763                           | <1                         | 0.16                       | 20                          | 0.16                        | 73                         | 1                          | <0.01                       | 4                          | 150                        | 7                          | 0.03                       | <2                         | 2                          | 5                          | <20                         |
| CC56764                           | <1                         | 0.03                       | 10                          | 0.06                        | 53                         | <1                         | 0.04                        | 2                          | 220                        | 3                          | 0.05                       | 2                          | <1                         | 22                         | <20                         |
| CC56765                           | <1                         | 0.27                       | 10                          | 0.79                        | 274                        | 1                          | 0.01                        | 27                         | 380                        | 9                          | 0.02                       | <2                         | 4                          | 9                          | <20                         |
| CC56766                           | <1                         | 0.08                       | 10                          | 0.36                        | 129                        | 1                          | 0.01                        | 11                         | 130                        | 7                          | 0.02                       | <2                         | 3                          | 5                          | <20                         |
| CC56767                           | <1                         | 0.23                       | 10                          | 0.55                        | 211                        | 1                          | 0.02                        | 17                         | 330                        | 7                          | 0.03                       | <2                         | 4                          | 7                          | <20                         |
| CC56768                           | <1                         | 0.36                       | 60                          | 0.93                        | 303                        | 3                          | 0.02                        | 28                         | 890                        | 10                         | 0.13                       | <2                         | 7                          | 28                         | <20                         |
| CC56769                           | <1                         | 0.34                       | 50                          | 0.91                        | 328                        | 5                          | 0.02                        | 24                         | 900                        | 7                          | 0.08                       | 2                          | 7                          | 19                         | <20                         |
| CC56770                           | <1                         | 0.29                       | 40                          | 0.74                        | 262                        | 3                          | 0.01                        | 23                         | 730                        | 14                         | 0.01                       | <2                         | 5                          | 13                         | 20                          |
| CC56771                           | <1                         | 0.15                       | 40                          | 0.53                        | 157                        | 3                          | 0.02                        | 23                         | 1190                       | 8                          | 0.09                       | <2                         | 4                          | 22                         | <20                         |
| CC56772                           | <1                         | 0.10                       | 20                          | 0.28                        | 151                        | 3                          | 0.02                        | 7                          | 370                        | 3                          | 0.02                       | <2                         | 2                          | 7                          | <20                         |
| CC56773                           | <1                         | 0.05                       | 10                          | 0.06                        | 36                         | 1                          | 0.02                        | 4                          | 140                        | <2                         | 0.01                       | <2                         | <1                         | 8                          | <20                         |
| CC56774                           | <1                         | 0.04                       | 10                          | 0.31                        | 71                         | 1                          | <0.01                       | 15                         | 470                        | 2                          | <0.01                      | <2                         | 1                          | 6                          | <20                         |
| CC56775                           | <1                         | 0.03                       | 10                          | 0.08                        | 65                         | 2                          | 0.03                        | 8                          | 440                        | <2                         | 0.04                       | <2                         | <1                         | 22                         | <20                         |
| CC56776                           | <1                         | 0.02                       | 60                          | 0.11                        | 956                        | 5                          | 0.02                        | 55                         | 1090                       | <2                         | 0.18                       | <2                         | <1                         | 134                        | <20                         |
| CC56777                           | <1                         | 0.05                       | 70                          | 0.26                        | 93                         | 3                          | 0.01                        | 31                         | 900                        | <2                         | 0.09                       | <2                         | 1                          | 57                         | <20                         |
| CC56778                           | <1                         | 0.14                       | 20                          | 0.52                        | 203                        | 2                          | 0.01                        | 23                         | 340                        | 6                          | 0.01                       | <2                         | 3                          | 7                          | <20                         |
| CC56779                           | <1                         | 0.21                       | 20                          | 0.53                        | 222                        | 2                          | 0.01                        | 28                         | 630                        | 8                          | 0.01                       | <2                         | 3                          | 8                          | <20                         |
| CC56780                           | <1                         | 0.09                       | 20                          | 0.31                        | 145                        | 5                          | 0.02                        | 25                         | 680                        | 6                          | 0.04                       | <2                         | 1                          | 11                         | <20                         |
| CC56781                           | 1                          | 0.13                       | 50                          | 0.55                        | 1375                       | 9                          | 0.01                        | 25                         | 1010                       | 8                          | 0.06                       | <2                         | 4                          | 15                         | <20                         |
| CC56782                           | <1                         | 0.19                       | 40                          | 0.56                        | 229                        | 2                          | 0.01                        | 18                         | 720                        | 5                          | 0.01                       | <2                         | 4                          | 13                         | <20                         |
| CC56783                           | <1                         | 0.10                       | 40                          | 0.59                        | 854                        | 6                          | 0.01                        | 18                         | 920                        | 6                          | 0.05                       | <2                         | 3                          | 12                         | <20                         |
| CC56784                           | <1                         | 0.33                       | 20                          | 0.86                        | 827                        | 3                          | 0.01                        | 13                         | 1040                       | 7                          | 0.04                       | <2                         | 5                          | 22                         | <20                         |
| CC56785                           | <1                         | 0.24                       | 20                          | 0.66                        | 275                        | 2                          | 0.01                        | 12                         | 400                        | 7                          | 0.01                       | 2                          | 4                          | 6                          | <20                         |
| CC56786                           | <1                         | 0.17                       | 50                          | 0.39                        | 359                        | 2                          | 0.03                        | 13                         | 660                        | 5                          | 0.10                       | <2                         | 2                          | 38                         | <20                         |
| CC56787                           | <1                         | 0.66                       | 30                          | 1.11                        | 537                        | 4                          | 0.02                        | 31                         | 850                        | 8                          | 0.03                       | <2                         | 7                          | 18                         | 20                          |



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ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

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To: STRATEGIC METALS LTD.

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LIMITED

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

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Page: 2 - C

Total # Pages: 4 (A - C)

Finalized Date: 29-JUL-2009

Account: MTT

## CERTIFICATE OF ANALYSIS VA09069911

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-ICP41 | ME-ICP41  | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41  |
|--------------------|-----------------------------------|----------|-----------|----------|----------|----------|-----------|
|                    |                                   | Ti<br>%  | Ti<br>ppm | U<br>ppm | V<br>ppm | W<br>ppm | Zn<br>ppm |
|                    |                                   | 0.01     | 10        | 10       | 1        | 10       | 2         |
| CC56746            |                                   | 0.09     | <10       | <10      | 14       | <10      | 9         |
| CC56749            |                                   | 0.04     | <10       | 30       | 16       | <10      | 32        |
| CC56750            |                                   | 0.19     | <10       | <10      | 60       | <10      | 177       |
| CC56751            |                                   | 0.13     | <10       | <10      | 47       | <10      | 57        |
| CC56752            |                                   | 0.15     | <10       | <10      | 49       | <10      | 56        |
| CC56753            |                                   | 0.02     | <10       | 20       | 9        | <10      | 61        |
| CC56754            |                                   | 0.04     | <10       | <10      | 11       | <10      | 52        |
| CC56755            |                                   | 0.03     | <10       | 10       | 9        | <10      | 24        |
| CC56756            |                                   | 0.10     | <10       | <10      | 34       | <10      | 57        |
| CC56757            |                                   | 0.06     | <10       | <10      | 25       | <10      | 49        |
| CC56758            |                                   | 0.05     | <10       | 10       | 21       | <10      | 166       |
| CC56759            |                                   | 0.02     | <10       | <10      | 11       | <10      | 45        |
| CC56760            |                                   | 0.05     | <10       | <10      | 18       | <10      | 33        |
| CC56761            |                                   | 0.10     | <10       | 10       | 38       | <10      | 101       |
| CC56762            |                                   | 0.05     | <10       | <10      | 17       | <10      | 76        |
| CC56763            |                                   | 0.13     | <10       | <10      | 43       | <10      | 57        |
| CC56764            |                                   | 0.02     | <10       | <10      | 6        | <10      | 17        |
| CC56765            |                                   | 0.16     | <10       | <10      | 56       | <10      | 59        |
| CC56766            |                                   | 0.15     | <10       | <10      | 46       | <10      | 34        |
| CC56767            |                                   | 0.15     | <10       | <10      | 45       | <10      | 42        |
| CC56768            |                                   | 0.17     | <10       | <10      | 51       | <10      | 115       |
| CC56769            |                                   | 0.18     | <10       | <10      | 55       | <10      | 93        |
| CC56770            |                                   | 0.15     | <10       | <10      | 42       | <10      | 91        |
| CC56771            |                                   | 0.08     | <10       | <10      | 29       | <10      | 67        |
| CC56772            |                                   | 0.08     | <10       | <10      | 21       | <10      | 33        |
| CC56773            |                                   | 0.02     | <10       | <10      | 10       | <10      | 11        |
| CC56774            |                                   | 0.03     | <10       | <10      | 26       | <10      | 19        |
| CC56775            |                                   | 0.02     | <10       | <10      | 10       | <10      | 14        |
| CC56776            |                                   | 0.01     | <10       | 10       | 7        | <10      | 31        |
| CC56777            |                                   | 0.02     | <10       | 10       | 18       | <10      | 42        |
| CC56778            |                                   | 0.10     | <10       | <10      | 36       | <10      | 49        |
| CC56779            |                                   | 0.10     | <10       | <10      | 32       | <10      | 59        |
| CC56780            |                                   | 0.05     | <10       | <10      | 25       | <10      | 47        |
| CC56781            |                                   | 0.09     | <10       | <10      | 39       | <10      | 79        |
| CC56782            |                                   | 0.11     | <10       | <10      | 34       | <10      | 55        |
| CC56783            |                                   | 0.09     | <10       | <10      | 39       | <10      | 68        |
| CC56784            |                                   | 0.17     | <10       | <10      | 46       | <10      | 85        |
| CC56785            |                                   | 0.19     | <10       | <10      | 58       | <10      | 48        |
| CC56786            |                                   | 0.07     | <10       | <10      | 21       | <10      | 90        |
| CC56787            |                                   | 0.21     | <10       | <10      | 62       | <10      | 128       |



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Account: MTT

## CERTIFICATE OF ANALYSIS VA09069911

| Sample Description | Method<br>Analyte<br>Units<br>LOR | WEI-21    | 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 |
|--------------------|-----------------------------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
|                    |                                   | Recvd Wt. | Ag       | Al       | As       | B        | Ba       | Be       | Bi       | Ca       | Cd       | Co       | Cr       | Cu       | Fe       | Ga       |
|                    |                                   | kg        | ppm      | %        | ppm      | ppm      | ppm      | ppm      | ppm      | %        | ppm      | ppm      | ppm      | ppm      | %        | ppm      |
|                    |                                   | 0.02      | 0.2      | 0.01     | 2        | 10       | 10       | 0.5      | 2        | 0.01     | 0.5      | 1        | 1        | 1        | 0.01     | 10       |
| CC56788            |                                   | 0.14      | <0.2     | 0.46     | <2       | <10      | 80       | <0.5     | <2       | 1.58     | <0.5     | 1        | 13       | 10       | 0.52     | <10      |
| CC56789            |                                   | 0.16      | 0.2      | 1.71     | 2        | <10      | 220      | 1.2      | <2       | 1.84     | 0.5      | 5        | 35       | 43       | 2.51     | 10       |
| CC56790            |                                   | 0.28      | <0.2     | 2.27     | 3        | <10      | 210      | 1.2      | <2       | 0.58     | <0.5     | 9        | 51       | 22       | 3.18     | 10       |
| CC56791            |                                   | 0.24      | <0.2     | 2.14     | 3        | <10      | 170      | 1.1      | <2       | 0.53     | <0.5     | 10       | 45       | 20       | 3.44     | 10       |
| CC56792            |                                   | 0.16      | 0.2      | 2.38     | 2        | <10      | 270      | 1.4      | <2       | 0.87     | <0.5     | 9        | 34       | 24       | 3.05     | 10       |
| CC56793            |                                   | 0.18      | 0.2      | 2.08     | 4        | <10      | 170      | 1.1      | 2        | 1.17     | <0.5     | 9        | 51       | 23       | 3.20     | 10       |
| CC56794            |                                   | 0.14      | 0.2      | 1.10     | 2        | <10      | 180      | 0.7      | <2       | 1.79     | <0.5     | 5        | 27       | 23       | 1.51     | <10      |
| CC56795            |                                   | 0.26      | 0.2      | 1.89     | 4        | <10      | 130      | 1.1      | <2       | 0.48     | <0.5     | 10       | 47       | 17       | 3.39     | 10       |
| CC56796            |                                   | 0.38      | <0.2     | 1.88     | 2        | <10      | 150      | 1.0      | <2       | 0.54     | <0.5     | 9        | 46       | 19       | 3.31     | 10       |
| CC56797            |                                   | 0.24      | <0.2     | 1.55     | <2       | <10      | 110      | 0.9      | <2       | 0.39     | <0.5     | 11       | 73       | 10       | 2.99     | 10       |
| CC56798            |                                   | 0.20      | 0.2      | 2.12     | 2        | <10      | 190      | 1.3      | <2       | 1.66     | 0.6      | 8        | 39       | 29       | 3.02     | 10       |
| CC56799            |                                   | 0.20      | 0.3      | 1.89     | 2        | <10      | 210      | 1.2      | <2       | 1.56     | 1.0      | 7        | 36       | 36       | 2.61     | 10       |
| CC56800            |                                   | 0.28      | 0.2      | 1.94     | 4        | <10      | 160      | 0.9      | <2       | 0.66     | <0.5     | 9        | 43       | 14       | 3.52     | 10       |
| CC56801            |                                   | 0.26      | 0.3      | 1.99     | 7        | <10      | 170      | 1.1      | <2       | 0.83     | 0.6      | 7        | 29       | 48       | 4.08     | 10       |
| CC56802            |                                   | 0.24      | 0.2      | 1.99     | 5        | <10      | 170      | 1.0      | <2       | 1.15     | <0.5     | 7        | 34       | 23       | 3.05     | 10       |
| CC56803            |                                   | 0.18      | 0.3      | 2.50     | 7        | <10      | 310      | 1.5      | 2        | 0.99     | 0.6      | 8        | 41       | 32       | 3.66     | 10       |
| CC56804            |                                   | 0.24      | <0.2     | 1.82     | 5        | <10      | 190      | 0.9      | <2       | 0.33     | <0.5     | 8        | 37       | 12       | 3.14     | 10       |
| CC56805            |                                   | 0.14      | 0.2      | 2.00     | 6        | <10      | 260      | 0.8      | 2        | 0.63     | <0.5     | 9        | 47       | 14       | 3.00     | 10       |
| CC56806            |                                   | 0.16      | 0.4      | 2.17     | 4        | <10      | 470      | 1.3      | <2       | 0.98     | <0.5     | 6        | 60       | 29       | 2.16     | 10       |
| CC56807            |                                   | 0.36      | <0.2     | 0.93     | 5        | <10      | 120      | <0.5     | <2       | 0.48     | <0.5     | 7        | 36       | 13       | 1.64     | <10      |
| CC56808            |                                   | 0.30      | 0.2      | 1.54     | 13       | <10      | 300      | 0.7      | <2       | 0.84     | <0.5     | 4        | 47       | 22       | 2.33     | 10       |
| CC56809            |                                   | 0.28      | <0.2     | 0.75     | 2        | <10      | 80       | <0.5     | <2       | 0.48     | <0.5     | 4        | 31       | 4        | 1.15     | <10      |
| CC56810            |                                   | 0.26      | <0.2     | 1.13     | 10       | <10      | 170      | <0.5     | <2       | 0.56     | <0.5     | 5        | 37       | 18       | 1.91     | <10      |
| CC56811            |                                   | 0.26      | <0.2     | 0.71     | 2        | <10      | 70       | <0.5     | <2       | 0.40     | <0.5     | 4        | 31       | 5        | 1.13     | <10      |
| CC56812            |                                   | 0.32      | <0.2     | 0.63     | 3        | <10      | 90       | <0.5     | <2       | 0.27     | <0.5     | 3        | 23       | 6        | 0.95     | <10      |
| CC56813            |                                   | 0.32      | <0.2     | 0.84     | 4        | <10      | 130      | <0.5     | <2       | 0.43     | <0.5     | 4        | 28       | 10       | 1.27     | <10      |
| CC56814            |                                   | 0.32      | <0.2     | 1.11     | 7        | <10      | 180      | 0.6      | <2       | 0.39     | <0.5     | 7        | 33       | 23       | 1.68     | <10      |
| CC56815            |                                   | 0.18      | 0.3      | 1.62     | 12       | <10      | 260      | 0.7      | <2       | 0.70     | <0.5     | 6        | 81       | 39       | 2.08     | 10       |
| CC56816            |                                   | 0.26      | <0.2     | 1.10     | 2        | <10      | 80       | <0.5     | <2       | 0.55     | <0.5     | 5        | 26       | 19       | 0.91     | <10      |
| CC56817            |                                   | 0.28      | <0.2     | 0.84     | 6        | <10      | 60       | <0.5     | <2       | 0.16     | <0.5     | 3        | 35       | 7        | 1.46     | <10      |
| CC56818            |                                   | 0.28      | <0.2     | 0.77     | 10       | <10      | 270      | 0.6      | <2       | 0.50     | 3.3      | 6        | 23       | 218      | 1.25     | <10      |
| CC56819            |                                   | 0.18      | <0.2     | 0.37     | 2        | <10      | 90       | <0.5     | <2       | 0.10     | 1.7      | 1        | 17       | 26       | 0.56     | <10      |
| CC56820            |                                   | 0.16      | 0.3      | 2.06     | 15       | <10      | 210      | 1.1      | <2       | 0.56     | 2.0      | 30       | 45       | 123      | 5.72     | 10       |
| CC56821            |                                   | 0.18      | <0.2     | 0.83     | 6        | <10      | 100      | <0.5     | <2       | 0.29     | 0.5      | 2        | 28       | 8        | 1.32     | 10       |
| CC56822            |                                   | 0.18      | 0.8      | 0.35     | 14       | <10      | 50       | <0.5     | <2       | 0.10     | 0.9      | 6        | 13       | 14       | 1.21     | <10      |
| CC56823            |                                   | 0.24      | <0.2     | 0.86     | 4        | <10      | 100      | <0.5     | <2       | 0.21     | <0.5     | 2        | 24       | 10       | 1.22     | 10       |
| CC56824            |                                   | 0.24      | <0.2     | 1.24     | 12       | <10      | 200      | <0.5     | <2       | 0.43     | 0.8      | 8        | 41       | 47       | 2.29     | 10       |
| CC56825            |                                   | 0.18      | 0.3      | 0.37     | 5        | <10      | 30       | <0.5     | <2       | 0.03     | <0.5     | 1        | 13       | 9        | 0.67     | <10      |
| CC56826            |                                   | 0.30      | 0.3      | 0.58     | 3        | <10      | 50       | <0.5     | <2       | 0.06     | <0.5     | 2        | 18       | 4        | 1.00     | 10       |
| CC56827            |                                   | 0.24      | 0.7      | 2.08     | 28       | <10      | 280      | 1.1      | <2       | 0.61     | 1.3      | 9        | 76       | 91       | 2.48     | 10       |



# ALS Chemex

EXCELLENCE IN ANALYTICAL CHEMISTRY

ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

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

To: STRATEGIC METALS LTD.

C/O ARCHER, CATHRO & ASSOCIATES (1981)

LIMITED

1016-510 W HASTINGS ST

VANCOUVER BC V6B 1L8

Project: OFF (Fin)

Page: 3 - B

Total # Pages: 4 (A - C)

Finalized Date: 29-JUL-2009

Account: MTT

## CERTIFICATE OF ANALYSIS VA09069911

| Method<br>Analyte<br>Units<br>LOR | ME-ICP41<br>Hg<br>ppm<br>1 | ME-ICP41<br>K<br>%<br>0.01 | ME-ICP41<br>La<br>ppm<br>10 | ME-ICP41<br>Mg<br>%<br>0.01 | ME-ICP41<br>Mn<br>ppm<br>5 | ME-ICP41<br>Mo<br>ppm<br>1 | ME-ICP41<br>Na<br>%<br>0.01 | ME-ICP41<br>Ni<br>ppm<br>1 | ME-ICP41<br>P<br>ppm<br>10 | ME-ICP41<br>Pb<br>ppm<br>2 | ME-ICP41<br>S<br>%<br>0.01 | ME-ICP41<br>Sb<br>ppm<br>2 | ME-ICP41<br>Sc<br>ppm<br>1 | ME-ICP41<br>Sr<br>ppm<br>1 | ME-ICP41<br>Th<br>ppm<br>20 |
|-----------------------------------|----------------------------|----------------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|
| Sample Description                |                            |                            |                             |                             |                            |                            |                             |                            |                            |                            |                            |                            |                            |                            |                             |
| CC56788                           | <1                         | 0.06                       | 10                          | 0.13                        | 126                        | 1                          | 0.04                        | 11                         | 480                        | <2                         | 0.09                       | <2                         | <1                         | 38                         | <20                         |
| CC56789                           | <1                         | 0.45                       | 80                          | 0.65                        | 279                        | 3                          | 0.02                        | 37                         | 690                        | 5                          | 0.18                       | <2                         | 4                          | 50                         | <20                         |
| CC56790                           | <1                         | 0.77                       | 50                          | 1.07                        | 325                        | 3                          | 0.01                        | 37                         | 820                        | 9                          | 0.05                       | <2                         | 8                          | 18                         | 20                          |
| CC56791                           | <1                         | 0.73                       | 40                          | 1.07                        | 348                        | 4                          | 0.02                        | 29                         | 820                        | 7                          | 0.03                       | 2                          | 8                          | 15                         | 20                          |
| CC56792                           | <1                         | 0.47                       | 50                          | 0.62                        | 669                        | 7                          | 0.03                        | 28                         | 820                        | 11                         | 0.10                       | <2                         | 5                          | 29                         | <20                         |
| CC56793                           | <1                         | 0.60                       | 30                          | 0.87                        | 390                        | 3                          | 0.02                        | 37                         | 600                        | 7                          | 0.08                       | <2                         | 7                          | 35                         | <20                         |
| CC56794                           | <1                         | 0.21                       | 30                          | 0.37                        | 657                        | 2                          | 0.04                        | 31                         | 890                        | 3                          | 0.17                       | <2                         | 2                          | 47                         | <20                         |
| CC56795                           | <1                         | 0.68                       | 30                          | 1.10                        | 403                        | 2                          | 0.02                        | 34                         | 630                        | 6                          | 0.02                       | <2                         | 7                          | 15                         | 20                          |
| CC56796                           | <1                         | 0.66                       | 30                          | 1.07                        | 407                        | 2                          | 0.02                        | 31                         | 830                        | 42                         | 0.01                       | <2                         | 7                          | 17                         | 20                          |
| CC56797                           | <1                         | 0.47                       | 20                          | 1.12                        | 385                        | 2                          | 0.02                        | 70                         | 500                        | 5                          | 0.01                       | <2                         | 6                          | 13                         | <20                         |
| CC56798                           | <1                         | 0.54                       | 60                          | 0.83                        | 537                        | 3                          | 0.02                        | 33                         | 780                        | 6                          | 0.11                       | <2                         | 6                          | 44                         | <20                         |
| CC56799                           | 1                          | 0.41                       | 60                          | 0.65                        | 601                        | 4                          | 0.02                        | 35                         | 810                        | 7                          | 0.11                       | <2                         | 4                          | 47                         | <20                         |
| CC56800                           | <1                         | 0.66                       | 20                          | 1.05                        | 512                        | 2                          | 0.01                        | 25                         | 930                        | 12                         | 0.02                       | <2                         | 7                          | 18                         | <20                         |
| CC56801                           | <1                         | 0.53                       | 40                          | 1.03                        | 673                        | 3                          | 0.02                        | 22                         | 490                        | 24                         | 0.08                       | <2                         | 6                          | 28                         | <20                         |
| CC56802                           | <1                         | 0.58                       | 40                          | 0.85                        | 450                        | 2                          | 0.03                        | 27                         | 640                        | 12                         | 0.11                       | 2                          | 6                          | 36                         | <20                         |
| CC56803                           | <1                         | 0.56                       | 60                          | 0.92                        | 574                        | 4                          | 0.02                        | 36                         | 820                        | 11                         | 0.11                       | 2                          | 7                          | 45                         | <20                         |
| CC56804                           | <1                         | 0.43                       | 40                          | 0.90                        | 473                        | 4                          | 0.01                        | 22                         | 950                        | 7                          | 0.04                       | 2                          | 6                          | 15                         | <20                         |
| CC56805                           | <1                         | 0.22                       | 40                          | 0.87                        | 437                        | 5                          | 0.02                        | 34                         | 810                        | 12                         | 0.07                       | <2                         | 5                          | 26                         | <20                         |
| CC56806                           | <1                         | 0.15                       | 60                          | 0.65                        | 160                        | 4                          | 0.02                        | 59                         | 1530                       | 15                         | 0.10                       | 2                          | 3                          | 33                         | <20                         |
| CC56807                           | <1                         | 0.12                       | 20                          | 0.50                        | 237                        | 2                          | 0.01                        | 29                         | 1140                       | 6                          | 0.02                       | 2                          | 2                          | 16                         | <20                         |
| CC56808                           | <1                         | 0.17                       | 30                          | 0.69                        | 164                        | 8                          | 0.01                        | 36                         | 950                        | 10                         | 0.07                       | 2                          | 3                          | 27                         | <20                         |
| CC56809                           | <1                         | 0.08                       | 10                          | 0.55                        | 134                        | 2                          | 0.01                        | 19                         | 1350                       | 5                          | 0.02                       | 2                          | 2                          | 15                         | <20                         |
| CC56810                           | <1                         | 0.10                       | 20                          | 0.68                        | 296                        | 7                          | 0.01                        | 36                         | 1100                       | 8                          | 0.03                       | 2                          | 3                          | 23                         | <20                         |
| CC56811                           | <1                         | 0.07                       | 10                          | 0.54                        | 151                        | 2                          | 0.01                        | 24                         | 1180                       | 4                          | 0.01                       | 2                          | 2                          | 15                         | <20                         |
| CC56812                           | <1                         | 0.07                       | 10                          | 0.40                        | 97                         | 3                          | 0.01                        | 15                         | 670                        | 4                          | 0.02                       | <2                         | 1                          | 10                         | <20                         |
| CC56813                           | <1                         | 0.06                       | 20                          | 0.51                        | 179                        | 4                          | 0.01                        | 24                         | 1420                       | 5                          | 0.02                       | 2                          | 2                          | 18                         | <20                         |
| CC56814                           | <1                         | 0.08                       | 40                          | 0.54                        | 227                        | 5                          | 0.01                        | 35                         | 1030                       | 9                          | 0.02                       | 2                          | 2                          | 17                         | <20                         |
| CC56815                           | <1                         | 0.13                       | 30                          | 0.60                        | 289                        | 10                         | 0.02                        | 91                         | 800                        | 12                         | 0.06                       | 2                          | 3                          | 30                         | <20                         |
| CC56816                           | <1                         | 0.04                       | 20                          | 1.15                        | 306                        | 5                          | 0.01                        | 44                         | 870                        | 3                          | 0.02                       | 2                          | 2                          | 11                         | <20                         |
| CC56817                           | <1                         | 0.07                       | 10                          | 0.53                        | 120                        | 5                          | 0.01                        | 21                         | 600                        | 6                          | 0.02                       | 2                          | 2                          | 7                          | <20                         |
| CC56818                           | <1                         | 0.09                       | 140                         | 0.29                        | 175                        | 16                         | 0.01                        | 82                         | 1270                       | 22                         | 0.05                       | 2                          | 1                          | 22                         | <20                         |
| CC56819                           | <1                         | 0.04                       | 10                          | 0.11                        | 49                         | 5                          | 0.01                        | 13                         | 390                        | 7                          | 0.03                       | 2                          | <1                         | 7                          | <20                         |
| CC56820                           | <1                         | 0.07                       | 60                          | 1.04                        | 1170                       | 40                         | 0.01                        | 114                        | 1900                       | 13                         | 0.06                       | 2                          | 3                          | 30                         | <20                         |
| CC56821                           | <1                         | 0.09                       | 10                          | 0.48                        | 78                         | 5                          | 0.01                        | 46                         | 1400                       | 5                          | 0.02                       | 2                          | 1                          | 17                         | <20                         |
| CC56822                           | <1                         | 0.04                       | <10                         | 0.10                        | 605                        | 10                         | 0.02                        | 40                         | 800                        | 26                         | 0.02                       | 2                          | <1                         | 6                          | <20                         |
| CC56823                           | <1                         | 0.06                       | 10                          | 0.62                        | 64                         | 4                          | 0.01                        | 25                         | 1190                       | 5                          | 0.02                       | 2                          | 1                          | 10                         | <20                         |
| CC56824                           | <1                         | 0.23                       | 10                          | 0.79                        | 237                        | 6                          | 0.01                        | 86                         | 2450                       | 4                          | 0.02                       | <2                         | 2                          | 26                         | <20                         |
| CC56825                           | <1                         | 0.03                       | <10                         | 0.14                        | 35                         | 3                          | 0.02                        | 14                         | 520                        | 7                          | 0.02                       | 2                          | <1                         | 3                          | <20                         |
| CC56826                           | <1                         | 0.08                       | 10                          | 0.26                        | 72                         | 2                          | 0.01                        | 8                          | 410                        | 7                          | 0.02                       | 2                          | 1                          | 4                          | <20                         |
| CC56827                           | <1                         | 0.20                       | 40                          | 1.90                        | 338                        | 9                          | 0.02                        | 132                        | 2050                       | 22                         | 0.04                       | <2                         | 3                          | 37                         | <20                         |



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212 Brooksbank Avenue  
North Vancouver BC V7J 2C1

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

To: STRATEGIC METALS LTD.

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LIMITED

1016-510 W HASTINGS ST  
VANCOUVER BC V6B 1L8

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## CERTIFICATE OF ANALYSIS VA09069911

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-ICP41 | ME-ICP41  | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41  |
|--------------------|-----------------------------------|----------|-----------|----------|----------|----------|-----------|
|                    |                                   | Ti<br>%  | Ti<br>ppm | U<br>ppm | V<br>ppm | W<br>ppm | Zn<br>ppm |
|                    |                                   | 0.01     | 10        | 10       | 1        | 10       | 2         |
| CC56788            |                                   | 0.03     | <10       | <10      | 10       | <10      | 29        |
| CC56789            |                                   | 0.11     | <10       | 10       | 41       | <10      | 74        |
| CC56790            |                                   | 0.21     | <10       | <10      | 65       | <10      | 104       |
| CC56791            |                                   | 0.23     | <10       | <10      | 67       | <10      | 83        |
| CC56792            |                                   | 0.10     | <10       | <10      | 50       | <10      | 91        |
| CC56793            |                                   | 0.16     | <10       | <10      | 61       | <10      | 111       |
| CC56794            |                                   | 0.06     | <10       | 10       | 25       | <10      | 58        |
| CC56795            |                                   | 0.22     | <10       | <10      | 60       | <10      | 106       |
| CC56796            |                                   | 0.22     | <10       | <10      | 62       | <10      | 135       |
| CC56797            |                                   | 0.19     | <10       | <10      | 53       | <10      | 87        |
| CC56798            |                                   | 0.14     | <10       | <10      | 50       | <10      | 139       |
| CC56799            |                                   | 0.10     | <10       | <10      | 41       | <10      | 121       |
| CC56800            |                                   | 0.22     | <10       | <10      | 63       | <10      | 123       |
| CC56801            |                                   | 0.15     | <10       | <10      | 40       | <10      | 189       |
| CC56802            |                                   | 0.14     | <10       | <10      | 47       | <10      | 104       |
| CC56803            |                                   | 0.14     | <10       | 10       | 57       | <10      | 120       |
| CC56804            |                                   | 0.17     | <10       | <10      | 52       | <10      | 85        |
| CC56805            |                                   | 0.13     | <10       | <10      | 49       | <10      | 100       |
| CC56806            |                                   | 0.05     | <10       | 50       | 55       | <10      | 127       |
| CC56807            |                                   | 0.07     | <10       | <10      | 39       | <10      | 44        |
| CC56808            |                                   | 0.06     | <10       | 20       | 54       | <10      | 110       |
| CC56809            |                                   | 0.05     | <10       | <10      | 34       | <10      | 46        |
| CC56810            |                                   | 0.06     | <10       | <10      | 62       | <10      | 67        |
| CC56811            |                                   | 0.05     | <10       | <10      | 35       | <10      | 37        |
| CC56812            |                                   | 0.04     | <10       | <10      | 26       | <10      | 27        |
| CC56813            |                                   | 0.04     | <10       | <10      | 46       | <10      | 54        |
| CC56814            |                                   | 0.04     | <10       | <10      | 57       | <10      | 65        |
| CC56815            |                                   | 0.03     | <10       | <10      | 71       | <10      | 151       |
| CC56816            |                                   | 0.05     | <10       | <10      | 69       | <10      | 114       |
| CC56817            |                                   | 0.07     | <10       | <10      | 42       | <10      | 71        |
| CC56818            |                                   | 0.04     | <10       | 30       | 65       | <10      | 212       |
| CC56819            |                                   | 0.01     | <10       | <10      | 27       | <10      | 42        |
| CC56820            |                                   | 0.05     | <10       | 10       | 77       | <10      | 1035      |
| CC56821            |                                   | 0.06     | <10       | <10      | 127      | <10      | 82        |
| CC56822            |                                   | 0.03     | <10       | <10      | 74       | <10      | 68        |
| CC56823            |                                   | 0.06     | <10       | <10      | 66       | <10      | 62        |
| CC56824            |                                   | 0.06     | <10       | <10      | 88       | <10      | 258       |
| CC56825            |                                   | 0.02     | <10       | <10      | 29       | <10      | 38        |
| CC56826            |                                   | 0.08     | <10       | <10      | 33       | <10      | 41        |
| CC56827            |                                   | 0.04     | <10       | 10       | 945      | <10      | 171       |

# ALS Chemex

**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.

212 Brooksbank Avenue

North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 [www.alschemex.com](http://www.alschemex.com)

To: STRATEGIC METALS LTD.

**C/O ARCHER, CATHRO & ASSOCIATES (1981)**

LIMITED

1016-510 W HASTINGS ST

**VANCOUVER BC V6B 1L8**

Project: OFF (Fin)

Page: 4 - A

Total # pages: 4 (A - C)

**Finalized Date: 29-JUL-2009**

Account: MTT

**CERTIFICATE OF ANALYSIS    VA09069911**

[illegible]





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Total Pages: 4 (A - C)

Finalized Date: 29-JUL-2009

Account: MTT

## CERTIFICATE OF ANALYSIS VA09069911

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-ICP41 | ME-ICP41  | ME-ICP41 | ME-ICP41 | ME-ICP41 | ME-ICP41  |
|--------------------|-----------------------------------|----------|-----------|----------|----------|----------|-----------|
|                    |                                   | Ti<br>%  | Ti<br>ppm | U<br>ppm | V<br>ppm | W<br>ppm | Zn<br>ppm |
|                    |                                   | 0.01     | 10        | 10       | 1        | 10       | 2         |
| CC56828            |                                   | 0.05     | <10       | <10      | 71       | <10      | 112       |
| CC56829            |                                   | 0.03     | <10       | 90       | 57       | <10      | 419       |
| CC56830            |                                   | 0.04     | <10       | 10       | 34       | <10      | 112       |
| CC56831            |                                   | 0.08     | <10       | 40       | 113      | <10      | 432       |
| CC56832            |                                   | 0.06     | <10       | 10       | 31       | <10      | 54        |
| CC56833            |                                   | 0.04     | <10       | <10      | 23       | <10      | 29        |
| CC56834            |                                   | 0.04     | <10       | <10      | 36       | <10      | 41        |
| CC56835            |                                   | 0.03     | <10       | 10       | 20       | <10      | 55        |
| CC56836            |                                   | 0.01     | <10       | <10      | 6        | <10      | 27        |
| CC56837            |                                   | 0.02     | <10       | 30       | 29       | <10      | 182       |
| CC56838            |                                   | 0.02     | <10       | 10       | 7        | <10      | 201       |
| CC56839            |                                   | 0.02     | <10       | 20       | 9        | <10      | 154       |
| CC56840            |                                   | 0.01     | <10       | 30       | 19       | <10      | 39        |
| CC56841            |                                   | 0.03     | <10       | 50       | 33       | <10      | 119       |
| CC56842            |                                   | 0.02     | <10       | 20       | 16       | <10      | 92        |
| CC56843            |                                   | 0.02     | <10       | 40       | 8        | <10      | 21        |
| CC56844            |                                   | 0.08     | <10       | <10      | 91       | <10      | 61        |
| CC56845            |                                   | 0.01     | <10       | <10      | 8        | <10      | 11        |
| CC56846            |                                   | 0.05     | <10       | <10      | 78       | <10      | 57        |
| CC56847            |                                   | 0.04     | <10       | <10      | 48       | <10      | 69        |
| CC56848            |                                   | 0.03     | <10       | 40       | 24       | <10      | 275       |
| CC56849            |                                   | 0.02     | <10       | 50       | 11       | <10      | 207       |
| CC56850            |                                   | 0.01     | <10       | <10      | 7        | <10      | 21        |
| CC56851            |                                   | 0.02     | <10       | 10       | 15       | <10      | 58        |
| CC56852            |                                   | 0.03     | <10       | 10       | 29       | <10      | 45        |
|                    |                                   |          |           |          |          |          |           |

**APPENDIX IV**  
**ROCK SAMPLE DESCRIPTIONS**

| Rock Sample Descriptions                                                                                                                                                 |            |          | Project: <u>Fin</u> |           | Property: <u>Off</u> |                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|---------------------|-----------|----------------------|--------------------------|
| Sample Number:                                                                                                                                                           | Grid East: | 427397 E | Grid North:         | 6816751 N | Type: specimen       | Dimension:               |
| H248523                                                                                                                                                                  | UTM:       | E        | UTM:                | N         | Sample Width:        | Abundance:               |
|                                                                                                                                                                          | Elevation: | m        |                     |           |                      |                          |
| Comments: Drk Gy -> Blk graphitic schist, predominant rock type of the pit.                                                                                              |            |          |                     |           |                      |                          |
| TR3                                                                                                                                                                      |            |          |                     |           |                      |                          |
|                                                                                                                                                                          |            |          |                     |           |                      |                          |
| Sample Number:                                                                                                                                                           | Grid East: | 427397 E | Grid North:         | 6816751 N | Type: specimen       | Dimension:               |
| H248524                                                                                                                                                                  | UTM:       | E        | UTM:                | N         | Sample Width:        | Abundance:               |
|                                                                                                                                                                          | Elevation: | m        |                     |           |                      |                          |
| Comments: Very limonitic material interlayered with graphitic schist, limonitic pieces were selected to determine if this is the horizon responsible for the Cu anomaly. |            |          |                     |           |                      |                          |
|                                                                                                                                                                          |            |          |                     |           |                      |                          |
| Sample Number:                                                                                                                                                           | Grid East: | E        | Grid North:         | N         | Type: specimen       | Dimension:               |
| H248525                                                                                                                                                                  | UTM:       | 427695 E | UTM:                | 6814636 N | Sample Width:        | Abundance:               |
|                                                                                                                                                                          | Elevation: | m        |                     |           |                      |                          |
| Comments: Med tan/grey rock coarse grained foliated qtz-bio-feldspar schist. 0.1-0.5 % py as irregular blebs ~ half of sulphides have limonite rims.                     |            |          |                     |           |                      |                          |
| 27                                                                                                                                                                       |            |          |                     |           |                      |                          |
|                                                                                                                                                                          |            |          |                     |           |                      |                          |
| Sample Number:                                                                                                                                                           | Grid East: | E        | Grid North:         | N         | Type: specimen       | Dimension:               |
| H248526                                                                                                                                                                  | UTM:       | 427622 E | UTM:                | 6816152 N | Sample Width:        | Abundance:               |
|                                                                                                                                                                          | Elevation: | m        |                     |           |                      |                          |
| Comments: Qtz-musc schist moderately limonite altered. 2 ~0.5 cm wide qtz vein cutting foliation @ 30-45 degrees. Rock has 10% black metallic grey sulphide? no          |            |          |                     |           |                      |                          |
| 99 py.                                                                                                                                                                   |            |          |                     |           |                      |                          |
|                                                                                                                                                                          |            |          |                     |           |                      |                          |
| Sample Number:                                                                                                                                                           | Grid East: | 427821 E | Grid North:         | 6814836 N | Type: specimen       | Dimension: 5 x 8 x 15 cm |
| H248527                                                                                                                                                                  | UTM:       | E        | UTM:                | N         | Sample Width:        | Abundance:               |
|                                                                                                                                                                          | Elevation: | m        |                     |           |                      |                          |
| Comments: Milky white qtz vein possibly trending 40 degrees. Qtz vein has stringers of black mineral forming wispy stringers and vein also contains 5% limonite clots.   |            |          |                     |           |                      |                          |
|                                                                                                                                                                          |            |          |                     |           |                      |                          |
| Sample Number:                                                                                                                                                           | Grid East: | E        | Grid North:         | N         | Type:                | Dimension:               |
|                                                                                                                                                                          | UTM:       | E        | UTM:                | N         | Sample Width:        | Abundance:               |
|                                                                                                                                                                          | Elevation: | m        |                     |           |                      |                          |
| Comments:                                                                                                                                                                |            |          |                     |           |                      |                          |