

Ministry of Energy and Mines  
BC Geological Survey

Assessment Report  
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Data Compilation, Geochemistry and Prospecting

TOTAL COST: \$12,869.55

AUTHOR(S): Ted W.F. VanderWart, Christopher O. Naas

SIGNATURE(S): 

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): \_\_\_\_\_

YEAR OF WORK: 2013

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5461107

PROPERTY NAME: Carruthers

CLAIM NAME(S) (on which the work was done): 1021344, 1021348, 1021355, 1021358, 1021359, 1021360, 1021361, 1021362

COMMODITIES SOUGHT: Cu, Ag, Au

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 094D-066, 094D-076, 094D-086, 094D-106, 094D-107, 094D-108, 094D-124

MINING DIVISION: Omineca

NTS/BCGS: 094D01, 094D08

LATITUDE: 56 ° 09 ' 30 " LONGITUDE: 125 ° 36 ' 37 " (at centre of work)

OWNER(S):

1) Christopher O. Naas

2) \_\_\_\_\_

MAILING ADDRESS:

2130-21331 Gordon Way

Richmond BC V6W 1J9

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

1) Christopher O. Naas

2) \_\_\_\_\_

MAILING ADDRESS:

2130-21331 Gordon Way

Richmond BC V6W 1J9

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

Property is mainly underlain by lower Jurassic Telkwa formation of the Hazelton Group and upper Triassic Dewar Formation of the Takla Group. Lithologies are primarily fine to coarse sediments and volcanoclastics. Copper mineralization is documented in many occurrences over the property, typically chalcocite with lesser bornite, chalcopyrite, native copper, as well as malachite and azurite staining on rock fractures and surfaces.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: \_\_\_\_\_

05071, 05047, 05048, 05229, 05521, 05563, 05569, 05927, 18175, 25585, 25586, 30732

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
<b>GEOLOGICAL (scale, area)</b>			
Ground, mapping _____			
Photo interpretation _____			
<b>GEOPHYSICAL (line-kilometres)</b>			
Ground			
Magnetic _____			
Electromagnetic _____			
Induced Polarization _____			
Radiometric _____			
Seismic _____			
Other _____			
Airborne _____			
<b>GEOCHEMICAL (number of samples analysed for...)</b>			
Soil _____			
Silt _____			
Rock 8 (Au Fire Assay, multi-element ICP-ES)		1021355	\$ 7,469.55
Other _____			
<b>DRILLING (total metres; number of holes, size)</b>			
Core _____			
Non-core _____			
<b>RELATED TECHNICAL</b>			
Sampling/assaying _____			
Petrographic _____			
Mineralographic _____			
Metallurgic _____			
<b>PROSPECTING (scale, area)</b> _____			
<b>PREPARATORY / PHYSICAL</b>			
Line/grid (kilometres) _____			
Topographic/Photogrammetric (scale, area) _____			
Legal surveys (scale, area) _____			
Road, local access (kilometres)/trail _____			
Trench (metres) _____			
Underground dev. (metres) _____			
Other Data compilation of historical exploration		1021344, 1021348, 1021355, 1021356	\$ 5,400.00
<b>TOTAL COST:</b>			<b>\$12,869.55</b>

BC Geological Survey  
Assessment Report  
34368

**ASSESSMENT REPORT**  
**DATA COMPILATION, GEOCHEMISTRY AND**  
**PROSPECTING**

**of the**

**Carruthers Mineral Claims**

(1021344, 1021348, 1021355, 1021358, 1021359,  
1021360, 1021361, 1021362)

Omineca Mining Division, British Columbia, Canada

Owner: Christopher O. Naas  
Operator: Christopher O. Naas.

By

Ted W.F. VanderWart, *B.Sc.*  
Christopher O. Naas, *P.Geo.*

**CME Consultants Inc.**

October 30, 2013

NTS: 094D01, 094D08

TRIM: 094D028, 094D029, 094D038

*Latitude: 56°09'30"N*

*Longitude: 125°36'37"W*

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  - d. Mineral Occurrences
- III. Certificates of Analyses
- IV. Rock Sample Descriptions

## **1.0 INTRODUCTION**

The Carruthers property (the “Property”) is centred at latitude 56° 10’ N and longitude 125° 37’ W, approximately 172 kilometres northeast of Smithers and 224 km northwest of Mackenzie. The Property is located in the Omineca Mining Division of north-central British Columbia, Canada.

This report discusses the results of compilation of historical exploration on the Property and the surrounding area, as well as the field visit and rock sampling carried out on the Property on July 22, 2013.

### **1.1 ACCESS**

There is no road access to the Property. The nearest road appears to be a logging road approximately 27 kilometres south-southeast of the Property. This road would be accessed from Fort St James and Takla Landing.

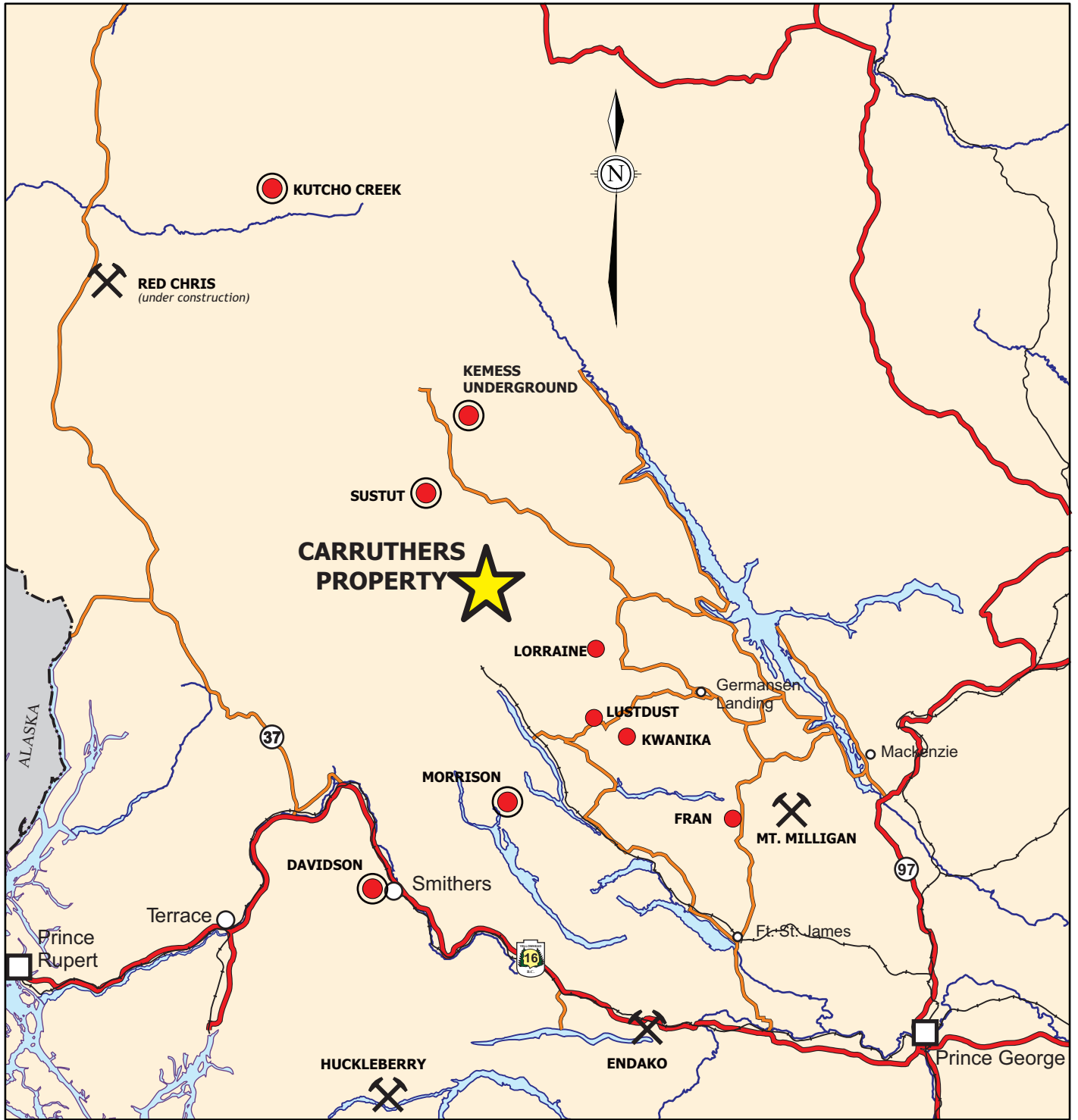
An older assessment report by Tait (1988) includes a map that shows a north-south trail passing through the Property. The report notes that this trail was difficult to locate, but was partly reblazed at the same time. Another east-west trail is noted following the Omineca River to the south of the Property area. The current status of these trails is not known.

Approximately 30 kilometres west of the Property, an airstrip is noted at the north end of Bear Lake along the former BC Rail right-of-way. The condition and capabilities of this airstrip for fixed-wing aircraft is not known.

Helicopter charters are available from various towns including Smithers, Fort St. James, and Mackenzie.









### **1.2 PHYSIOGRAPHY**

The Property is located along the east flank of the Sikanni Range of the Omineca Mountains, characterized by steep mountainous terrain. Elevations range from 1,280 metres in the east-flowing tributaries of Carruthers Creek to 2,120 metres above sea level at Mt Carruthers. Numerous small tarns are found in the many cirques. Drainage on the Property is dendritic with creeks flowing northeast into Carruthers Creek. Carruthers Creek, in turn, flows into the Omineca River which continues eastward into Williston Lake.



modified from Hancock *et al*, Open File 2008-1

**LEGEND**

-  Producing mine or under construction
-  Proposed mine development
-  Major exploration project
-  Highway
-  Secondary routes
-  Railway
-  River
-  Waterbody



**PROPERTY LOCATION MAP  
Carruthers Property**

Carruthers Project  
Omineca M.D., British Columbia, Canada

Project No:	C99-Car	By:	TV
Scale:	1:3,000,000	Drawn:	TV
Figure:	1	Date:	October 2013



### 1.3 PROPERTY

The 4,024 hectare Property consists of 8 MTO cell claims. All mineral tenures are 100% owned by Christopher O. Naas. A plan map of the tenures is presented in Figure 2. Mineral tenure details are listed in Table 1.

Table 1: List of Mineral Tenures

Tenure Number	Area (ha)	Owner	Tenure Type	Good To Date	Worked On
1021344	71.81	C.O. Naas	MTO Cell	2013/aug/01	
1021348	898.36	C.O. Naas	MTO Cell	2014/sep/01	Yes
1021355	1,366.42	C.O. Naas	MTO Cell	2014/sep/01	Yes
1021358	628.08	C.O. Naas	MTO Cell	2013/aug/01	
1021359	89.69	C.O. Naas	MTO Cell	2013/aug/01	
1021360	71.73	C.O. Naas	MTO Cell	2014/sep/01	Yes
1021361	861.99	C.O. Naas	MTO Cell	2013/aug/01	
1021362	35.91	C.O. Naas	MTO Cell	2014/sep/01	Yes

## 2.0 COMPILATION WORK

### Introduction

Compilation of the geology historical work consisted with gathering of all available public domain source material. Sources of data included:

Topography:

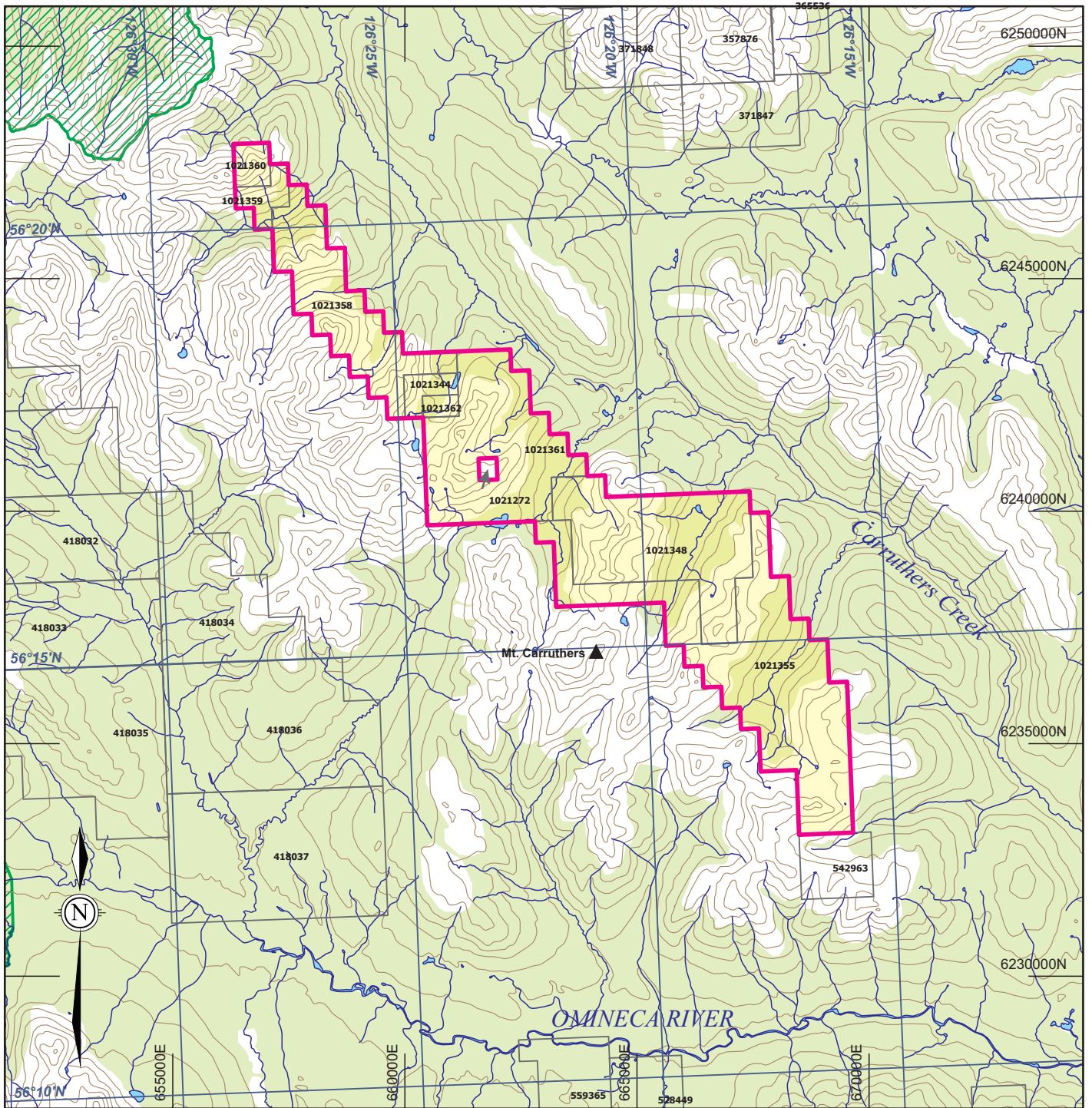
- Geogratis (1:50,000 and 1:250,000 topographic data);

Geology and Exploration Data:

- British Columbia Geological Service:
  - Regional geological and geochemical geospatial data;
  - Minfile mineral occurrence data; and,
  - Assessment Report Index Service.

Geophysics and Remote Sensing:

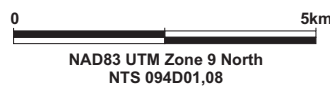
- Geoscience Data Repository of Natural Resources Canada (NRCan):
  - Compiled regional airborne data (total magnetics and first vertical derivative);
- Geoscience BC:
  - ASTER alteration surveys.



Topographic data © Department of Natural Resources.  
All rights reserved.

## LEGEND

- Carruthers property
- 418036 Mineral tenures and number (August 1, 2013)
- Park or protected area
- Gravel road (not all roads and trails shown)
- Watercourse
- Contour
- Waterbody
- Vegetated area



## MINERAL TENURE MAP Carruthers Property

Cathedral Project  
Omneca M.D., British Columbia, Canada

Project No:	C99-Car	By:	TV
Scale:	1:125,000	Drawn:	TV
Figure:	2	Date:	October 2013





Sourcing of material was extended to ground immediately surrounding the Property. In addition to creating a more complete geostatistical database, it allowed for the development of prospective areas on the Property based on inferred extensions from “off-Property” mineralized zones.

### **Methodology**

Assessment reports were obtained and determined whether or not work had been completed on the current Property. Those with sampling on the Property were given highest priority.

Approximately 40 maps from these assessment reports were used to digitize sample locations, survey grids and geological features. Sample results from assessment reports were entered from the accompanying certificates of analysis, sample listings or directly from maps. Sample results were later merged with the digitized locations to assign a geographic location to the sample. Sample locations and results could then be plotted on maps with various base data including airborne magnetics and regional geology. Geological maps from assessment reports were digitized and integrated, where possible, with the compiled BC geology data.

As part of the data acquisition and compilation, a documentation of the geology and the work history of the Property were carried out.

### **Results**

Following is a presentation of the results of the compilation work including:

- work history;
- regional and property geology;
- exploration results focusing on the copper potential of this area; and,
- interpretation of results and identification of exploration targets.

## **2.1 WORK HISTORY**

Little exploration on the Property and immediately surrounding area is recorded prior to 1973 when Interior Syndicate conducted a reconnaissance geological and geochemical survey over two groups of claims (ANI and CAR) just south of Quenada Creek. The ANI claims were tested for potential copper-lead-zinc-silver mineralization. Only three of the soil samples were anomalous in copper with results noted as being “*three to four times average background of 55 to 60 ppm*”. The results at that time were deemed discouraging and no further work was conducted (Dawson, 1974a). The CAR claims were tested for copper potential, and “*to determine whether or not the property might support a large-scale exploration program*”. Vein mineralization was encountered on the eastern CAR claims and were reported as being narrow (0.5 to 5 cm), widely separated and discontinuous. Galena and pyrite are the main sulphide minerals in a gangue of quartz. With the widely spaced, discontinuous, narrow vein widths, mineralization was deemed not to be economic and these claims lapsed (Dawson, 1974b).

Also in 1973, on the south side of Carruthers Creek, SEREM Ltd. (Serem) was conducting reconnaissance mapping and soil geochemistry work on three groups of claims: the ARP group of claims, encompassing the current Arp Minfile occurrence (094D 066), the PAD group, encompassing the Pad Minfile occurrence (094D 086), and the LIZ group, encompassing the Liz Minfile occurrence (094D 076). Mineralization identified on all three of the Serem properties was noted as being stratabound and interesting, and a series of short drill holes were proposed for the following season (Sonnendrucker, 1974c).

In 1974, Serem reportedly drilled on the ARP claims (6 holes, 344.42 metres) and PAD claims (5 holes 320.65 metres) (GEM, 1974). Beyond these references, no further details or results of this drilling are presently known.

Also in 1974, Pechiney Development Ltd. (Pechiney) conducted exploration on the MAR and LEN group of claims, located approximately halfway between the LIZ and the PAD groups. Work consisted of geological mapping, geochemical sampling and surface trenching. Copper mineralization was noted as being readily visible on both the southeast and northwest ridges of the cirque area, with the host rock being fine-grained tuffaceous argillite. Alteration minerals include epidote, calcite, chlorite and sericite which are often associated with bornite, chalcocite, covellite, chalcopyrite and malachite. Seven trenches of varying dimensions were excavated, and subsequent chip samples were assayed for copper, silver and gold. Mineralization in the trenches is noted as occurring in mainly shattered, jointed dacite porphyry (Mistry, 1974). No assay values were reported.

The MAR Group was revisited in the 1975 field season by Pechiney for a short drill program. Three diamond drill holes were drilled totalling 457.20 metres (Mistry, 1975). The drill holes did have core samples assayed and copper sulphides are noted in the drill logs, but no values were included in the report or drill logs. No further work is recorded on the MAR occurrence.

Also in 1975, the Mona Jean area was prospected and trenched (Tait, 1975), with several rock samples returning anomalous copper values:

- trench A: 0.25% Cu over 4.57 metres;
- trench D: 0.63% Cu over 3.05 metres;
- trench F: 2.48% Cu over 2.44 metres; and,
- trench D: 0.46% Cu over 15.24 metres.

A red andesite was noted as being the best host rock for copper mineralization, with chalcocite being the only copper mineral noted.

In 1976, Cominco Ltd. (Cominco) conducted geological and geochemical reconnaissance work over ground around the Bandy Minfile occurrence (094D 107). It was noted that “*the main purpose was to delineate the lateral extent and thickness of a 0.6 metre wide siltstone bed containing copper*” that had been discovered by Cominco in 1975 (Paterson, 1976). The siltstone horizon was trenched and found to contain disseminated and banded chalcocite and bornite. The unit is reportedly traceable over 140 metres and has an average width of 0.5 metres. It was noted to “lens out” to the southwest and thin to 10 centimetres towards the northwest. No additional work was recommended, as the potential for a thickening of the siltstone bed was considered minimal.

There was a lull in exploration activity in this region until 1988, when ground encompassing the Tom (094D 124) and Lake (094D 108) Minfile occurrences was staked and prospected by R. Tait (Tait, 1988). Three rock samples were collected. Significant copper results from two samples were returned including 2.83% Cu and 2.30% Cu.

In 1994, a provincial regional geochemical survey (RGS) was completed for the 94D map-area with the collection of 1,031 stream sediment samples. Two samples were collected from on the current Property and an additional 12 samples from creeks that are at least partially sourced from the Property.

In 1997, the Fog, Car and the Chop claims were staked by R. Tait, and work was conducted by Jim Millar-Tait (Millar-Tait, 1997a, 1997b). The Fog and Car claims encompassed the Tom and the Lake Minfile occurrences and the Chop claims encompassed the Mona Jean (094D 106) Minfile occurrence. Mineralized samples from the Chop claims yielded two chip samples with significant copper grades: 1.79% Cu over 4 metres and 3.10% Cu over 5 metres.

On the Fog and Car mineral claims, six mineralized rock chip samples from sedimentary beds were collected with significant copper results including 4.38% Cu over 1.50 metres and 3.60% Cu over 1.00 metre. Another grab sample collected in a different area contained native copper and returned 5.45% Cu.

In 2005, Geoscience BC sponsored a program of increasing the ASTER imagery dataset for the BC Ministry of Mines, Energy and Petroleum Resources. Four alteration images for each scene were prepared using combinations of the standard ASTER bands. The images are designed to map the relative abundances of siliceous rocks, iron oxides, sericite and illite, and alunite and/or kaolinite (Kilby and Kilby, 2006). This work includes coverage over the Property.

In 2008, Amarc Resources conducted an exploration program on their Huge North property encompassing the Arp Minfile occurrence. This area is contained in the northern extension of the Amarc property and a large area south of this occurrence. Work consisted of grid surveying, geological mapping at a scale of 1:5,000, collection of 1,685 soil samples in three areas on the property and four rock samples (Kerckhoff *et al*, 2008). Rock samples were collected in the northern area on the current Property and include significant results of 9.92% Cu and 60.9 ppm Ag and 4.79% Cu and 21.5 ppm Ag. Two drill holes were located during the course of Amarc's exploration but not identified. It is believed that these are drill holes completed by Serem in 1974 based on their location.

## 2.2 GEOLOGY

### 2.2.1 Regional Geology

The Carruthers Property is situated on the eastern edge of the Stikinia Terrane, part of the Intermontane Belt of the Canadian Cordillera (Figure 3). The Stikinia Terrane Takla Group rocks that are regionally dominant consist of three main formations: the basal Dewar Formation, the Savage Mountain Formation and the overlying Moosevale Formation:

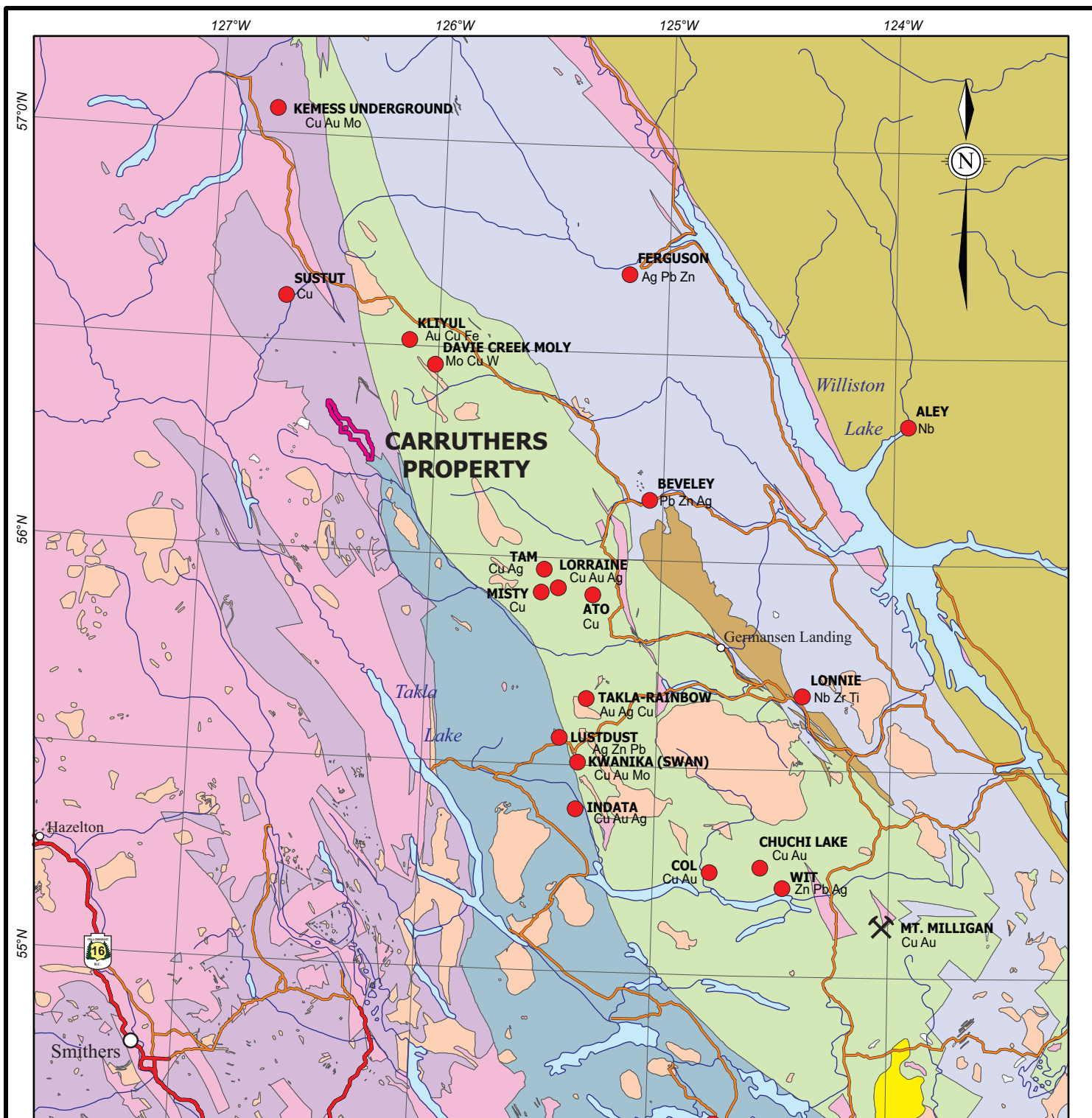
- The basal Dewar Formation is formed of fine-clastics deposited in a back-arc or continental margin environment, and is more specifically, composed of submarine calcalkaline volcanoclastic rocks, sandstone, siltstone and graphitic shale. It reaches a maximum thickness of approximately 1,500 metres in the Sikanni ranges, thinning to about 400 metres in the Sustut Peak area.
- The Savage Mountain Formation is composed mainly of augite and bladed-feldspar porphyry volcanic flows and pyroclastics. Locally, thick successions of pillow basalts are common. The volcanic component is both dominant and subaerial to the north where the formation reaches its maximum thickness of approximately 4,000 metre in the Sustut Peak area. The Savage Mountain Formation overlies the Dewar Formation in this area, but is co-extensive with the Dewar Formation in the south where it is largely composed of tuff, siltstone and shale.
- The overlying Moosevale Formation is composed of subaerial volcanoclastic rocks to a maximum thickness of 1,600 metres in the Savage Mountain area.

The Ingenika Fault lies to the east of the property, marking the boundary with the Quesnellia Terrane further to the east. There, Upper Triassic to Lower Jurassic volcano-sedimentary sequences that include the Takla, Nicola and Stuhini groups are intruded by the Cretaceous Hogem multi-phase batholith, a very large elongate granodioritic to monzonitic intrusion which is located approximately 7 kilometres east of the property.

Rocks of the lower Jurassic Hazelton Group are also found through this area and cover much of the Property, in particular the Telkwa Formation. This formation is described as maroon, green and purple subaerial andesitic to dacitic feldspar phyric flows, pyroclastic and epiclastic rocks, augite phyric to aphyric basalt, breccia, welded tuff (BCGS Geo File 2005-1). Metamorphic rocks of the Sitlika Assemblage are also present in the southern portion of the Property.

### 2.2.2 Property Geology

The Property is predominantly underlain by Takla Group volcanics and volcanoclastics, unconformably overlain by volcanoclastics of the Hazelton Group on the western and southwestern margins (Figure 4).



**LEGEND**  
**GEOLOGY**

- Younger volcanics
- Post Accretionary
- Cache Creek Terrane
- Cariboo/Cassiar Terrane
- Quesnel Terrane
- Slide Mountain Terrane
- Stikine Terrane
- Overlap Assemblage
- North America

**SYMBOLS**

- Carruthers property
- Producing mine or under construction
- Selected developed prospect (BC Minfile)
- Highway
- Secondary routes
- Railway
- River
- Waterbody



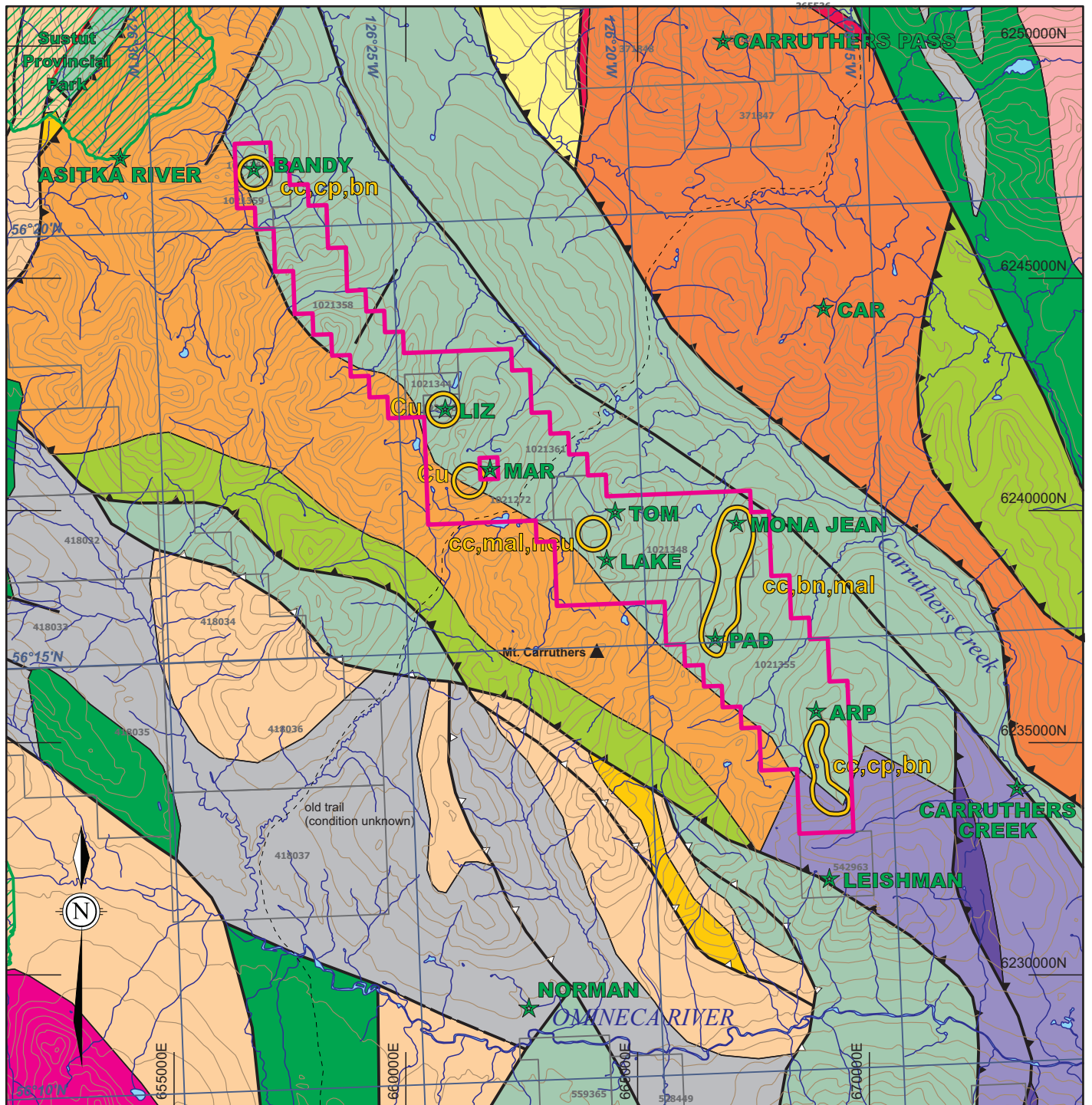
**REGIONAL GEOLOGY  
AND ECONOMIC SETTING**  
**Carruthers Property**

Carruthers Project  
Omineca M.D., British Columbia, Canada

Project No:	C99-Car	By:	TV
Scale:	1:1,500,000	Drawn:	TV
Figure:	3	Date:	October 2013







Topographic data © Department of Natural Resources. All rights reserved.



NAD83 UTM Zone 9 North  
NTS 094D01,08

## LEGEND

### GEOLOGY

#### Sedimentary Rocks

- Bowser Lake Group: mudstone, siltstone, shale
- Takla Group: coarse clastics

#### Volcanic Rocks

- Hazelton Group: calc-alkaline
- Hazelton Group: basaltic
- Takla Group: undivided
- Takla Group: basaltic
- Asitka Group: bimodal

#### Intrusive Rocks

- Kastberg Plutonic Suite: quartz phyric felsic
- Ecstall Plutonic Suite: granodioritic
- Unnamed: gabbroic to dioritic

#### Metamorphic Rocks

- Sitlika Assemblage: greenstones
- Unnamed: ultramafics

### SYMBOLS

- MAR** BC Minfile occurrence
- Area of reported copper mineralization
- bn** bornite
- cc** chalcocite
- cp** chalcopryrite
- mal** malachite
- ncu** native copper
- Cu** unspecified
- Fault
- Thrust fault
- High angle reverse fault
- Carruthers property
- 418036 Mineral tenures and number

## GEOLOGY PLAN MAP Carruthers Property

Carruthers Project  
Omneca M.D., British Columbia, Canada

Project No:	C99-Car	By:	TV
Scale:	1:125,000	Drawn:	TV
Figure:	4	Date:	October 2013



Detailed geological mapping is incomplete over much of the Property due to limited exposure, but also due to very limited prospecting over large areas between the known showings. Geological mapping of the showings is often conflicting, as different unit names may have been applied to similar rocks. Not enough detail is present in the source reports to adequately reconcile these units.

Descriptions of the units are presented below. These have been collated from the historical exploration as reported in the provincial assessment reports.

## **Takla Group**

### *Andesites*

Grey to greenish-grey, fine grained to porphyritic lavas with amphibole being the dominant phenocryst, and occasional pyroxene (augite) observed. Rare plagioclase porphyritic andesite flows are also noted, with only a few percent of mafic minerals noted in the groundmass.

### *Basalts*

Basic lavas are represented by two small outcrops of fine grained massive basalt lava in the area of the LIZ Minfile occurrence and in the area of the Lake Minfile occurrence. Basalts are noted as having conspicuous plagioclase feldspar phenocrysts with random orientations. Porphyritic basalts are also noted in the area of the Mona Jean Minfile occurrence, with plagioclase phenocrysts having random orientations.

### *Felsics*

There is one small outcrop of fine-grained, dense, siliceous, dacite lava encountered while mapping in the area of the LIZ Minfile occurrence and a large “quartz intrusion” is noted in mapping in the area of the Mona Jean Minfile occurrence (Tait, 1975). This rock contains finely disseminated specular hematite throughout. In the area of the MAR Minfile occurrence, dacite porphyry is also noted (Mistry, 1974).

### *Volcaniclastics*

Rocks of this group include mainly tuffs, along with lesser agglomerate, and a few occurrences of volcanic breccias and conglomerate.

- Tuffs: The grey to green, fine grained, andesite tuffs are quite often thinly bedded. Rare thickly bedded to almost massive types also occur. The tuffs are often interbedded with siltstones of few millimetres in thickness. In some cases, the siltstone beds thin out and appear as lenses in the including tuff material. The occasional lithic fragments of these tuffs include both sedimentary and volcanic material (black siltstone, andesite lava). Graded bedding from fine to coarse grained tuffs or agglomerates is a conspicuous feature. Crossbedding is also noticeable. In the area of the Bandy Minfile occurrence (Paterson, 1976) to the north, these volcaniclastics are maroon to light green in colour ranging from fine siltstone to coarse pebbly sandstone. They exhibit graded bedding, cross-bedding, mud-cracks and rip-up clasts (primarily of siltstone). The main detrital components are: plagioclase crystals (up to 55%), augite crystals (up to 30%), basic volcanic fragments

(up to 10%) and hornblende crystals (up to 5%). The colour of either maroon or green, depends on the presence of fine-grained hematite in the former or epidote and chlorite in the latter. In maroon rocks, graded beds have a speckled grey, white or maroon base which grades into a brick red siltstone top. Red siltstone rip-up clasts are common at the base of graded beds. Maroon sandstones appear to have been partially altered to green sandstones. The alteration commonly occurs preferentially along coarser grained beds but may also be random. Secondary or metamorphic minerals include albite, calcite, epidote and chlorite.

- Agglomerates: The grey coloured agglomerates contain fragments ranging from 2.5 centimetres to 60 to 90 centimetres in diameter. These fragments or blocks are in a fine-grained tuff matrix. Tuffs grading into agglomerates show many indications of movement prior to diagenesis, affecting the unconsolidated beds. The lenses of siltstone deposited together with the tuffs, clearly show disturbance, while the underlying or overlying fine-grained tuffs, alternating with siltstones, are undisturbed. These are obviously turbidite textures, likely resulted from slump of unconsolidated sediments on the flanks of volcano.
- Volcanic breccias: also occur in the target area. These breccias are andesitic in composition. Usually the breccias are fairly siliceous and often contain more or less disseminated pyrite and/or pyrrhotite.
- Jasper Conglomerate: Found during mapping in the area of the Lake Minfile occurrence (Tait, 1976), this conglomerate is mainly rounded jasper pebbles. The origin of the jasper may have been part of a bed of jasper exposed 10 kilometres to the north. This bed is about 8 metres thick and outcrops for about 5 kilometres and belongs to the Asitka Group of Permian Age.

### Sediments

Sediments are uncommon in this area, and when encountered consist of black laminated siltstones and tuffaceous siltstones. The silicification of some siltstone beds is pronounced: they contain lenses or thin bands of black or grey chert. The black siltstones are usually very thinly bedded but occasionally beds of one foot thickness were also encountered.

### Cherts

Chert beds of grey colour often occur in the fine grained andesite tuffs. They are likely of sedimentary origin, although the source of silica was probably the volcanic or post-volcanic activity.

Hydrothermal alteration (epidotization, chloritization, carbonatization) is not at all evident in the Takla Group rocks. Apart from pyrite and pyrrhotite, no other sulphides were noted in these rocks.

### **Hazelton Group**

Unconformably overlying the Takla Group rocks, are rocks of the Hazelton group. The Hazelton Group is a complex assemblage of lavas, pyroclastic rocks, rare sedimentary lenses and rare metamorphic rocks.

### Andesites

Typically purple, red or reddish green coloured, fine grained to porphyritic andesite lavas. The purplish red colour of the Hazelton lavas is due to hematite in the groundmass. The phenocrysts tend to be plagioclases rather than amphiboles or pyroxenes. These lavas are slightly brecciated as noticed on weathered surfaces. Epidote, carbonate and less frequently quartz are the fracture filling material. Minor basaltic flows and dacitic rocks have been noted in the area of the ARP Minfile occurrence (Sonnendrucker 1974a).

### Tuffs

Red to purplish-red in colour, these fine grained tuffs and argillaceous andesite tuffs are extremely oxidized. Lithic fragments of reddish andesite lavas and occasionally of purplish red argillites are found in the tuffs. They are usually thinly bedded and often interbedded with purplish red argillites. Fine grained tuffs frequently grade into coarse tuffs which in turn may grade into agglomerates. Crystal lapilli tuffs have been noted in the area of the ARP Minfile occurrence (Sonnendrucker 1974a).

### Agglomerates

The agglomerates are usually fine grained, containing lithic fragments ranging from 0.7 centimetres to 2.5 centimetres in size. The fragments are reddish fine-grained to slightly porphyritic andesite lavas.

### Sediments

Sedimentary rocks of the Hazelton Group include argillites and a few beds of conglomerate (Unit 9). The purplish-red, strongly oxidized argillites are usually thinly bedded. They often exhibit strong chloritization and / or epidotization. The conglomerates are characterized by pebbles ranging from 1 centimetre to 2.5 centimetres in size. The material of these pebbles is usually Hazelton andesite lavas, but pebbles and subangular fragments of grey to red chert are also frequent. Some of the chert pebbles show rhythmic deposition of silica.

## **Sitlika Assemblage**

### Metamorphic Rocks

These rocks are represented by chlorite- and sericite- schists with slightly metamorphosed volcanic flows. Metamorphic rocks are noted in the area of the Arp Minfile occurrence. The grade of metamorphism is greenschist facies.

## **2.3 SURFACE GEOCHEMISTRY**

Silt, soil/talus fines, and rock sample data from the disparate sources were combined into a single data set for each sample type. A total of 1,061 silt samples 1,503 soil samples and 20 rock samples have been included in the geodatabase thus far. Results of the compilation of the surface geochemistry are shown in the accompanying maps using geological and geophysical mapping data as a base (Figures 5, 6, and 7). A listing of the compiled silt (excluding the BC RGS samples), soil and rock samples are presented in Appendix II.

### 2.3.1 Silt Samples

Silt samples in the database include the entire RGS dataset for 1:250,000 map-area, 94D, a total of 1,034 samples. Only two samples from this dataset were collected on the current Property, although an additional twelve samples were collected from creeks that are at least partly sourced from the Property. Twenty-seven silt samples were collected by Cominco in 1976 from creeks draining the area around the Bandy Minfile occurrence. These samples were analyzed for copper and zinc only.

A simple statistical analysis was carried out on the copper and silver and zinc results of the silt and soil samples. Results for the silt and soil are presented in the tables below.

Table 2: Statistical Analysis of Historical Silt Samples

	No. Samples	Minimum	Maximum	Mean	Std. Deviation
Cu (ppm)	1,061	2	2826	52	94
Ag (ppm)	1,037	0.1	2.7	0.2	0.2
Zn (ppm)	1,061	10	465	93	49

### 2.3.2 Soil Samples

A total of 1,503 soil samples with a copper analysis are included in the geodatabase. The bulk of these samples (1,071) were collected in 2008 by Amarc which partially overlapped the southern portion of the property. A total of 93 samples from the Amarc survey were collected from the current Property area. The remaining 419 samples were collected in 1973 by Serem. Several other elements have also been entered into the geodatabase where available, including silver, gold, zinc, cadmium and phosphorus.

Table 3: Statistical Analysis of Historical Soil Samples

	No. Samples	Minimum	Maximum	Mean	Std. Deviation
Cu (ppm)	1,503	2	1856	92	108
Ag (ppm)	1,071	0.1	1.7	0.2	0.15
Au (ppb)	1,071	1	366	6	16
Zn (ppm)	1,501	5	311	88	34
Cd (ppm)	1,071	0.1	4.0	0.2	0.2
P (pct)	1,071	0.013	0.323	0.093	0.044



### 2.3.3 Rock Samples

Historical rock sampling on the Property is quite limited. A total of 20 rock and/or chip samples with a copper analysis were identified in the available sources and are included in the geodatabase and presented in Table 4. An additional eight samples are noted on a map in the Mona Jean/Pad area, but no analytical results were included in the source reports.

Table 4: Historical Rock Sample Results

Sample No.	Area	Sample Type	Width (m)	Results			
				Cu (%)	Ag (ppm)	Au (ppb)	Other
92262	Tom/Lake	chip	1.00	4.18	10.2	15	104 ppm Cd, >1% P
92263	Tom/Lake	chip	1.00	3.54	6.8	30	>1% P
92264	Tom/Lake	chip	0.75	3.66	7.4	15	>1% P
92265	Tom/Lake	chip	1.50	4.38	8.4	10	>1% P
92266	Tom/Lake	chip	1.00	3.80	15.6	10	>1000 ppm Cd, >1% P
92267	Tom/Lake	grab		5.45	4.2	20	>1% P
92268	Mona Jean	chip	4.00	1.79	12.8	<5	
92269	Mona Jean	chip	5.00	3.10	25.6	<5	>1% P
Trench B	Mona Jean	chip	5.49	0.63			
Trench D	Mona Jean	chip	3.05	0.63			
Trench A	Mona Jean	chip	4.57	0.25			
Trench F	Mona Jean	chip	2.44	2.48			
Trench "a"	Mona Jean	chip	15.24	0.46			
#1	Tom/Lake	grab		2.83	na	na	
#2	Tom/Lake	grab		0.04	na	na	
#3	Tom/Lake	grab		2.30	6.1	<5	
869315	Arp	grab		2.12	15.7	24	
869316	Arp	grab		4.79	21.5	13	
869317	Arp	grab		9.92	60.9	4	
869318	Arp	grab		0.07	0.5	2	

## 2.4 TRENCHING

A small amount of trenching is reported in an assessment report by Paterson (1976) from the area of the Bandy Minfile occurrence. A total of five trenches up to 15 metres long and a maximum of 2 metres deep were excavated. The plan map of the trenches did not contain enough topographic or other common features to georeference and digitize the locations. A key map does identify the general area of the trenches, and shows them to occur near the ridgeline and these may still be visible on the ground or from the air. Only geological information was collected from the trenches including copper minerals like chalcocite and bornite noted. Mineralization is reported as being associated with a narrow black siltstone unit containing disseminated and banded chalcocite and bornite. This unit can be traced for 140 metres and averages 0.5 metres in thickness. The siltstone unit lenses out to the southwest and thins to 0.10 metres towards the northeast (Paterson, 1976).

A series of trenches in the Mona Jean area are reported in an assessment report by R. Tait, (1975). No details of the trench sizes, orientations, geology are reported are documented.

Rock chip samples collected are reported in the previous section. Although eight trenches are noted on the source map, results of only five trenches are reported.

The general location of the trenches is presented on accompanying Figures 5, 6 and 7.

## **2.5 DRILLING**

Drilling was reportedly undertaken in two areas of the Property, the ARP and PAD areas. This work was carried out by Serem in 1974. Six drill holes totaling 344.42 metres were completed on claims ARP 4 and 6 (GEM, 1974, p 294), and 5 drill holes totaling 320.65 metres were completed on claims PAD 11 and 12 (GEM, 1974, p 300). No assessment report was filed for this work and no further details of this drilling are presently available.

Two drill hole collars were located by Amarc in 2008 and presented on a map (Kerckhoff *et al*, 2008). No hole identifications were reported. The locations as reported in the Amarc report fall within the area of the historical ARP 4 claim, consistent with location of drilling by Serem reported in the GEM (1974) reference.

Another two drill holes are plotted on a map by Tait (1975) from the Mona Jean occurrence, and appear to correspond to the Serem drilling reported from the PAD 11 and 12 claims. The map by Tait shows the holes approximately 350 to 400 metres from the PAD 11/12 No.2 claim post. The quality of available map makes a definitive location difficult; however the location is consistent with the GEM (1974) reference.

Despite the limited information available, it should be possible to narrow down the area of the remaining drill holes. Drill core may still be stored in the field and future visits to the property should include an attempt to locate both the drill collars and core.

Drilling was also historically carried out near the MAR Minfile occurrence (off-Property). Three drill holes totaling 457.46 metres of BQ core were completed by Pechiney in 1975 (Mistry, 1975). While drill logs and geological descriptions are included in the assessment report, no geochemical results, cross sections are available. Locations are only plotted at a very large scale and can only be estimated as to their actual location.

The locations of the known drill holes are presented on the accompanying Figures 5, 6 and 7.

## 2.6 INTERPRETATION

The Property demonstrates the presence of several significant copper occurrences. Copper mineralization, occurring as chalcocite, bornite, native copper, chalcopyrite, and malachite, are recorded in the historical assessment reports (Figure 5). Rock sampling has been undertaken on most showings. Rock samples, both grab and chip, from surface and shallow trenches have identified significant copper values, along with associated silver values. Silt and soil geochemistry results for copper are fairly subdued. Where mineralized horizons are noted in the historical reports, they are quite narrow (usually less than 5 metres) which may be contributing to the subdued geochemical anomalies. The lack of recognized pathfinder elements also makes identification of clear trends difficult. Silt sampling in the areas shows generally weak copper responses with a high of 159 ppm Cu from a creek draining the area of the Liz Minfile occurrence.

Compiled airborne geophysical data shows that much of the Property lies in an area of a magnetic low feature nestled between moderate to strong positive magnetic anomalies. The airborne data is quite coarse and finer details are not resolvable. Exploration by Amarc in 2008 suggests that diorite sills may be important for the locus of copper mineralization. These sills are quite narrow, perhaps no wider than 30 metres, and at the scale and resolution of the geophysical imagery are not resolved. Detail ground magnetic or induced polarization surveys would be required to properly evaluate these structures and lithologies at these scales. Compiled geochemical data is plotted on both the total field magnetics and first vertical derivative images in Figures 6 and 7.

ASTER imagery over the Property is available (image A100). The images are designed to map the relative abundances of siliceous rocks, iron oxides, sericite and illite, and alunite and/or kaolinite. There are several caveats when attempting to interpret this data meaningfully. The relative abundances shown are the results of combination of various bands and these could show minerals other than those being identified (Kilby and Kilby, 2006). Also, due to fairly significant forest cover in the lower elevations, only the exposed higher elevations show a response. The highest responses in the imagery also appear coupled with talus slopes. With the limited rock sample dataset and limited descriptions of alteration products in historical work, little can be ascertained at this time as to correlation with any of the alteration maps.

The comparable geology, structure and mineralization styles to that of the Sustut deposit make this an attractive target in an area with limited exploration. The presence of supergene copper minerals such as chalcocite, bornite and native copper do make this an intriguing exploration target as these minerals contain much higher percentages of copper by weight (chalcocite 80% Cu by weight, bornite 63% Cu by weight).

A discussion of the key mineral occurrence and exploration targets is presented below. Areas are organized using the current BC Minfile occurrence names for geographical reference.

### **Bandy**

Silt sampling of the creeks draining the Bandy area in 1975 returned weak copper-in-silt values with the highest of 113 ppm Cu from a site directly downslope of the Bandy occurrence (Paterson, 1976). A 1996 regional geochemical silt sample collected approximately 350 metres downstream returned 124 ppm Cu.

Mineralization of the Bandy area occurs in grey-black siltstone and in quartz-calcite-epidote veins. The siltstones occur as lenses in the maroon volcanoclastic rocks. They are usually separated from the maroon rocks by a thin envelope of green sandstone up to one metre in thickness. The siltstone beds range from a few centimetres to 1.5 metres in width and are traceable up to 140 metres long. Disseminated or laminated chalcocite and bornite are the principal copper-bearing minerals. Cross-cutting the volcanoclastic rocks are a number of quartz-calcite-epidote veins which may also contain pyrite, bornite, chalcocite, and chalcopyrite. Veins vary in thickness from a few millimetres to 10 centimetres and are traceable for up to 30 metres (Paterson, 1976).

The Bandy area occurs on top of a moderate magnetic (total field) high. The first vertical derivative of the magnetics presents a strong high directly under this area.

### **Liz**

A silt sample collected from the creek draining this area in 1996 as part of the RGS program returned a copper-in-silt value of 159 ppm Cu, the highest value from any creeks draining the Property (Figure 5).

Historical soil sampling over the Liz Minfile occurrence identified several highly anomalous samples including two consecutive samples of 900 ppm and 750 ppm Cu. Other copper-in-soil point anomalies include 450 ppm Cu located approximately 250 metres southeast.

Between these samples, copper mineralization is noted in outcrop along the creek draining this area. This mineralization is described as a network of chlorite-epidote-calcite veinlets with disseminated to massive chalcocite, bornite, and rare chalcopyrite within red or strongly chloritized green andesite tuffs intercalated with minor siltstones. The mineralization is stratabound and the overlying beds of argillites are not fractured and not mineralized (Sonnendrucker, 1974). Mapping suggests the strata are striking north-northwest.

Another copper occurrence is noted 1.3 kilometres northwest associated with andesitic tuffs.

### **Tom/Lake**

Based on historical maps, the main copper-bearing rocks occur 715 metres southwest of the Tom Minfile occurrence location and 500 metres north-northwest of the Lake Minfile occurrence (Figure 5)

Mineral showings, as described by Tait (1976) and Miller-Tait (1997b) consist of chalcocite, bornite, native copper and malachite, which are visually exposed in flat lying sedimentary beds in the mountain top cirque. The primary mineralized bed is a black-grey shale bed

ranging from 0.3 to 3.0 metres in thickness and has been traced approximately 200 metres in strike where it disappears beneath a talus slope. This bed is noted to strike  $100^{\circ}$  with dip varying between  $40^{\circ}\text{E}$  and  $60^{\circ}\text{E}$ . The copper mineralization in the sedimentary beds is assumed to have originated through hydrothermal solutions coming from the mineralized andesitic zones. Earlier work by Tait (1988) reports two samples with significant copper ( $>1\%$  Cu) from the same area.

Individual chip samples of the mineralization returned 4.18% Cu and 10.2 g/t Ag over 1.00 metres (sample 92262) from the southern end to 3.80% Cu and 15.6 g/t Ag over 1.00 metres (sample 92266) at the northern end. Between these samples, one sample returned 4.38% Cu and 8.4 g/t Ag over 1.50 metres (sample 92265). Based on the mapping and sampling by Miller-Tait (1997b), an average grade and thickness of the main mineralized bed is approximately 3.91% Cu over 1.05 metre thickness over 145 metres of strike length.

A separate area, located approximately 130 metres south-southwest from the south end of the main mineralization returned a grab sample of with native copper in sandstone and grading 5.45% Cu (sample 92267).

All samples collected in 1997 reported phosphorus values of greater than detection limit ( $>10,000$  ppm). No additional testing was carried out to determine the quantitative values for this element. The high level of phosphorus (possibly due to the presence of apatite) in the rocks with significant mineralization could be a possible geochemical pathfinder element.

### **Mona Jean/Pad**

Historical work in the Mona Jean area has consisted of geological mapping, rock and soil sampling, trenching and diamond drilling (Sonnenducker, 1974b; Tait, 1976; GEM, 1975). The Mona Jean showing is located near the east-central area of the Property, although mapping has identified sporadic chalcocite and bornite mineralization over 2.5 kilometres southwest along the ridgeline.

Tait (1976) notes that a red andesite appears to be the main host for the copper mineralization, comprised primarily of chalcocite. The chalcocite is disseminated throughout a zone (or zones) of andesite which is highly silicified in places. Mineralization has been traced over 460 metres before disappearing under overburden.

In the showing area, mapping by Tait (1976) presents the location of several trenches and diamond drill holes. Other than the existence of the drill holes, little data is currently available. Two drill holes are plotted by Tait, but another three are reportedly in the area. The trenches are marked with chip samples that demonstrate significant copper grades of up to 2.48% Cu over 2.44 metres. A wider, but lower grade, chip sample result of 0.46% Cu over 15.24 metres is noted from another trench.

Descriptions of mineralization by Sonnenducker (1974b) represent outcrops to the southwest along the ridgeline. This generally corresponds with the area of Pad Minfile occurrence. No rock geochemistry results are available for any of these areas. Descriptions include:



1. Disseminated chalcocite and bornite (malachite) in fine-grained non-porphyrific acid andesite. The rock is fresh, very hard, grey to light brown, and massive, without any noticeable alteration except traces of malachite along fractures. The showing is 3 metres by 18 metres and striking northwest and dipping near vertical. Directly overlying the acid andesite, a strong impregnation, 25 centimetre wide zone of malachite and trace chalcocite appear in red tuffs. This showing is estimated to be approximately 560 metres south-southwest of the main Mona Jean showing.
2. Massive bornite and chalcocite, minor chalcopyrite (malachite) in epidote-quartz veins within fractures porphyritic acid andesite. The 5 to 8 centimetre wide mineralized veins are closely grouped and some joints, filled with quartz, show slickensides. This showing is approximately 1 kilometre southwest of the showing described above.
3. Network of chlorite-epidote-calcite veinlets with disseminated to massive chalcocite, bornite and rare chalcopyrite within red or strongly chloritized green andesite tuffs intercalated with minor siltstones and more or less epidotized andesite. This showing is another 300 metres south-southwest of the showing described above.

Gridded soil sampling along the ridgeline reported, for the most part, very low copper-in-soil values, usually less than 100 ppm Cu. The highest soil sample returned 1,430 ppm Cu located 270 metres east-southeast of a chalcocite showing (showing description 1, from above). Approximately 200 metres to the west and downslope of the showing, another soil sample returned 480 ppm Cu. Elsewhere, a soil sample returned 600 ppm located almost on the ridge top, and approximately 140 metres east from a bornite showing (showing description 2, from above). Projecting the horizon that hosts the mineralization along its apparent strike, the soil sample would be located approximately 60 metres downslope.

### **Arp**

The Arp area covers the southern portion of the Property and has had the most recent exploration carried out on it. Amarc, in 2008, completed a very extensive soil sampling program, along with geological mapping and limited rock sampling. Most of the Amarc soil samples lay off Property to the east and south. Grid soil sampling by Serem in 1973 is located on the Property.

As in the other areas, mineralization is primarily recognized as chalcocite+/-bornite and rare chalcopyrite. Malachite and azurite alteration is also observed on weathered surfaces and in fractures. Mineralization is usually constrained to tuff beds, 8 to 10 centimetres from the red shale bed. The chalcocite is typically disseminated in bands 5 to 10 centimetres wide. In places chalcocite is massive, striking 340° and dipping 70-85NE. These beds are sub-parallel to the tuff beds which strike 320° and dip 50°NE (Sonnendruker, 1974a). The showings located in Sonnendruker (1974a) appear to have been relocated with a greater measure of map accuracy by Amarc in 2008. Four rock samples were collected from two showings (two samples each). One sample from the eastern showing returned significant grades of 9.92% Cu and 60.9 g/t Ag (sample 869317) and one sample from the western showing returned 4.79% Cu and 21.5 g/t Ag (sample 869316).

Soil sampling by Serem in 1973 shows a generally subdued response with several copper point anomalies. Sample results of 1,150 and 960 ppm Cu were obtained in the northern end

of the grid. Chalcocite and chalcopyrite showings are noted in the vicinity (Figure 5). In an area of approximately 500 metres radius, surrounding the Amarc rock samples, eight soil samples returned greater than 300 ppm Cu from the Serem survey (maximum of 550 ppm Cu). Soil samples from Amarc's survey did not return any soil samples greater than 300 ppm Cu (high of 294 ppm Cu) within this same area.

## **3.0 FIELD WORK**

### **3.1 INTRODUCTION**

A single day Property visit was carried out on July 22, 2013. Access was gained using a Eurocopter A-Star B-2 helicopter, supplied by Canadian Helicopters of Smithers, BC. The Property visit included collecting rock samples for geochemical analysis.

### **3.2 ROCK SAMPLING**

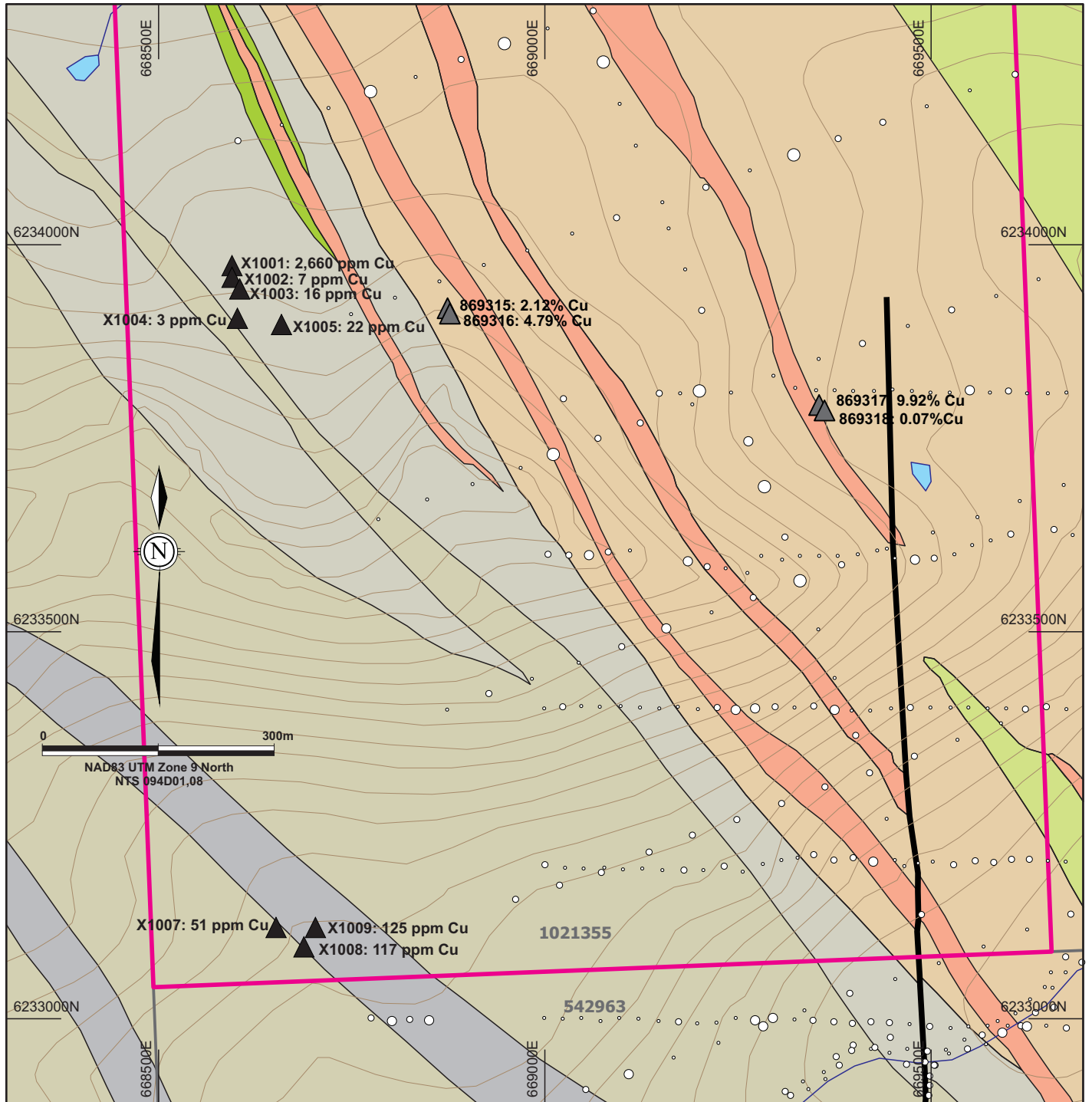
A total of eight rock samples were collected. Rock samples were placed in thick polyethylene sample bags, labeled and sealed. Samples were delivered to CME's field office in Vavenby, BC prior to analysis.

Samples were collected from two areas, both in areas away from the known mineralization. The first group (X1001 to X1005) were collected in an area some 275 metres west of the western pair of Amarc rock which returned 4.79% Cu and 2.12% Cu. This area is relatively flat, on the north side of the steep east-west trending ridge. The second group of samples (X1007 to X1009) was collected approximately 830 metres south of the first group, along the south facing slopes and cliffs. Rock sample locations are presented on Figure 8.

The samples were submitted to Activation Laboratories (Actlabs) of Kamloops, BC for sample preparation, multi-element ICP analysis, and gold analysis by fire assay. Actlabs is an ISO 17025 accredited laboratory. Sample preparation and analytical methods are described in section below. Certificates of analysis are presented in Appendix III.

Rock samples were crushed through a jaw crusher and cone or roll crusher to -10 mesh. The sample was then split through a Jones riffle until a -250 gram sub sample was achieved. The sub sample was pulverized in a ring and puck pulverizer to 95% -140 mesh. The sample was then rolled to homogenize for analysis.

Samples were analyzed for multi-elements by ICP-ES and for gold by fire assay with AA finish. Certificates of analysis are presented in Appendix III. Sample analysis techniques are given below.



Topographic data © Department of Natural Resources.  
All rights reserved.  
Geology modified from Kerckhoff et al., 2008, AR30732

**LEGEND**  
**GEOLOGY**

- Mafic flows
- Mafic tuffs
- Hematitic siltites and interbedded volcanic wacke
- Argillites and interbedded volcanic wackes
- Argillites
- Mafic volcanics and interbedded argillites
- Hornblende diorite

**SYMBOLS**

- Contact
- Fault
- Carruthers property
- Mineral tenures and number

**GEOCHEMISTRY**

- Rock sample location: current, historical
- Rock sample number and copper results
- Historical soil sample location
- <92 ppm Cu
- 92 - 199 ppm Cu
- 200 - 307 ppm Cu
- ≥308 ppm Cu

**GEOCHEMICAL SAMPLE PLAN MAP**  
**Carruthers Property**

Carruthers Project  
Omineca M.D., British Columbia, Canada

Project No:	C99-Car	By:	CN
Scale:	1:7,500	Drawn:	TV
Figure:	8	Date:	October 2013



Samples were analyzed for multi-elements by ICP-ES and for gold by fire assay with AA (Atomic Absorption) finish. Certificates of analysis are presented in Appendix III. Sample analysis techniques are given below.

#### Multi-Element ICP-ES Analysis

A 0.5 gram sample is taken and is digested with aqua regia for two hours at 95°C. The sample is cooled and then diluted with deionized water. The samples are then analyzed using a Varian ICP for the 35 element suite. QC for the digestion is 15% for each batch, two method reagent blanks, six in-house controls, eight sample duplicates and five certified reference materials. An additional 20% QC is performed as part of the instrumental analysis to ensure quality in the areas of instrumental drift.

Results are reported in parts per million or percent, depending on the element. Upper and lower detection limits are also variable, dependent on the element.

#### Gold Analysis

A sample size of 30 gram size is applied for rock pulps, soils or sediments (exploration samples). The sample is mixed with fire assay fluxes (borax, soda ash, silica, litharge) and with silver added as a collector. The mixture is placed in a fire clay crucible. The mixture is preheated at 850°C, intermediate 950°C and finished 1060°C and the entire fusion process should last 60 minutes. The crucibles are then removed from the assay furnace and the molten slag (lighter material) is carefully poured from the crucible into a mould, leaving a lead button at the base of the mould. The lead button is then placed in a preheated cupel which absorbs the lead when cupelled at 950°C to recover the silver (doré bead) and gold.

The entire silver doré bead is dissolved in aqua regia and the gold content is determined by AA. AA is an instrumental method of determining element concentration by introducing an element in its atomic form, to a light beam of appropriate wavelength causing the atom to absorb light – atomic absorption. The reduction in the intensity of the light beam directly correlates with the concentration of the elemental atomic species.

Results are reported in parts per billion with a lower and upper limit of 5 and 3,000 ppb, respectively.

### **Results**

Rock samples were collected from several lithologies. Seven of the eight samples are various forms of tuff, including lithic, crystal lithic, welded, or ashfall tuffs. Lithological descriptions of the samples collected from both areas appear to correspond to lithological descriptions based on Amarc's 2008 mapping in this area. Rock sample descriptions are presented in Appendix IV.

Two samples showed visible mineralization: sample X1001 is a rusty, orange quartz-carbonate vein with malachite staining on the exposed surfaces; and sample X1004, a mottled grassy to dark green lithic tuff with disseminated pyrite.

Only one sample returned anomalous copper results. Sample X1001 returned 2,660 ppm Cu from the quartz-carbonate vein sample with malachite staining. Gold and silver results were low, with the highest gold value of 21 ppb Au from sample X1004 and highest silver value of 0.6 ppm Ag from sample X1001.

Table 5: Rock Sample Results

Sample No.	Sample Type	Cu ppm)	Au (ppb)	Other
X1001	grab	2,660	6	0.6 ppm Ag 342 ppm As
X1002	grab	7	8	
X1003	grab	16	< 5	
X1004	grab	3	21	
X1005	grab	22	< 5	
X1007	grab	51	< 5	
X1008	grab	117	< 5	
X1009	grab	125	< 5	

## 6.0 CONCLUSIONS

The Carruthers Property is centred at latitude 56° 21' N and longitude 126° 17' W, approximately 172 kilometres northeast of Smithers and 224 km northwest of Mackenzie.

The Property is situated on the eastern edge of the Stikinia Terrane, part of the Intermontane Belt of the Canadian Cordillera. The Stikinia Terrane Takla Group rocks that are regionally dominant consist of three main formations: the basal Dewar Formation, the Savage Mountain Formation and the overlying Moosevale Formation. These formations form a rock package which can be traced for approximately 100 kilometres west of the Ingenika Fault. The Ingenika Fault lies to the east of the Property, marking the boundary with the Quesnel Terrane further to the east. There, Upper Triassic to Lower Jurassic volcano-sedimentary sequences that include the Takla, Nicola and Stuhini groups are intruded by the Cretaceous Hogen multi-phase batholith, a very large elongate granodioritic to monzonitic intrusion which is located approximately seven kilometres east of the Property.

Selkirk Metals Corp.'s Sustut deposit, a red bed copper-basalt deposit is located 45 kilometres north-northwest of the Property. The Sustut deposit consists of a sulphide-rich sheet-like zone up to 76 metres thick in volcanoclastics. The zone is composed of hematite, pyrite, chalcocite, bornite, chalcopyrite, and native copper in decreasing order of abundance. All copper minerals are very fine grained and disseminated through both matrix and clasts of the volcanoclastics. Increased mineral concentrations occur in the finer-grained tuff and tuffaceous matrix fractions. Hematite is ubiquitous throughout the zone; pyrite tends to form an incomplete envelope around the copper-rich lenses. Mineral resource figures from 2003, include 5.67 Mt at 1.87% Cu and 6.1 g/t Ag of Measured and Indicated resources and 0.27 Mt



at 1.67% Cu and 5.3 g/t Ag of Inferred resources (Doublestar Resources Ltd. News Release, February 3, 2003).

The Property has demonstrated the presence of several significant copper occurrences with geology, structure and mineralogy very similar to that of the Sustut deposit. Copper mineralization, occurring as chalcocite, bornite, native copper, chalcopyrite, and malachite, are recorded in the historical assessment reports. Selective rock sampling, both grab and chip samples from surface and shallow trenches, have identified significant copper grades, along with associated silver and gold values. Silt and soil geochemical responses are generally subdued. Where mineralized horizons are noted in the historical reports, they are narrow which may be contributing to the subdued geochemical responses. The lack of recognized pathfinder or associated elements also makes alternative means of identifying anomalous trends difficult.

Compiled airborne geophysical data shows that much of the Property lies in an area of a magnetic low feature nestled between moderate to strong positive magnetic anomalies. The airborne data is coarse and finer details are not resolvable. Exploration by Amarc in 2008 suggests that diorite sills may be important for the presence of copper mineralization although mineralization appears constrained to the surrounding volcanoclastics. These sills are narrow, perhaps no wider than 30 metres, and at the scale and resolution of the geophysical imagery are not visible. Detailed ground geophysical surveys may be required to properly evaluate these and other structures and lithologies at these scales.

During the field visit to the Property on July 22, 2013, eight rock samples were collected from two areas in the southern portion of the Property. Lithologically, samples were primarily various lithic, crystal lithic and ashfall tuffs, which is consistent with mapping by Amarc in 2008. One sample returned anomalous copper values of 0.27% Cu from a quartz-carbonate vein with malachite staining.

The presence of multiple showings of copper mineralization that is primarily chalcocite, along with lesser bornite and native copper make this an intriguing exploration target as these minerals contain very high percentages of copper by weight.

Recommendations for future field visits include locating and surveying the key mineral occurrences, trenches, drill hole collars as a means of verifying the historical work. Many of the available maps are low-quality and are not well referenced to known topographic features, nor are historical sample coordinates given in many instances. Attention should be paid to locating any drill core that may still be in the field. Confirmation sampling of the historical occurrences are also recommended as verification of historical grades.

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094D 076	Liz
094D 086	Pad
094D 093	Mar
094D 106	Mona Jean
094D 107	Bandy
094D 108	Lake
094D 122	Leishman
094D 124	Tom

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GeoGratis <http://geogratias.cgdi.gc.ca/geogratias/en/index.html>

Assessment Report Index Service <http://aris.empr.gov.bc.ca/>

BC Minfile <http://minfile.gov.bc.ca/searchbasic.aspx>

BC Mineral Titles Online <https://www.mtonline.gov.bc.ca/mtov/home.do>

BC ASTER imagery archive <http://webmap.em.gov.bc.ca/mapplace/minpot/aster.asp>

Geoscience BC <http://www.geosciencebc.com/s/Home.asp>

Land and Resource Data Warehouse <http://www.lrdw.ca/>

## 8.0 CERTIFICATES

I, Theodore (Ted) W.F VanderWart, *B.Sc.*, do hereby certify that:

- I am a graduate in geology of the University of British Columbia (*B.Sc.*, 1994); and have practiced in my profession continuously since 1996;
- Since 1996, I have been involved in mineral exploration for precious and/or base metals in Canada (British Columbia, Yukon Territory), Ghana, and Democratic Republic of Congo.
- I am presently a Consulting Geologist, and have been so since March 1996; and,
- The opinions and conclusions contained herein are based on a review of previous records and the results of the property visit;

Dated at New Westminster, British Columbia, this 30<sup>th</sup> day of October, 2013.



---

Ted W.F VanderWart, *B.Sc.*



I, Christopher O. Naas, *P.Geo.*, do hereby certify that:

1. I am a graduate in geology of Dalhousie University (*B.Sc.*, 1984); and have practiced in my profession continuously since 1987;
2. Since 1987, I have been involved in mineral exploration for precious and/or base metals in Canada, United States of America, Chile, Venezuela, Ghana, Mali, Nigeria, and Democratic Republic of the Congo (Zaire); for diamonds in Venezuela; and for rare metals in Nigeria. I have also been involved in the determination of base metal and gold resources for properties in Canada and Ghana, respectively, and the valuation of properties in Canada and Equatorial Guinea.
3. I am a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia (Registration Number 20082);
4. I am presently a Consulting Geologist and have been so since November 1987;
5. The opinions and conclusions contained herein are based on a review of previous records and the results of the property visit;

Dated at Richmond, British Columbia, this 30<sup>th</sup> day of October, 2013.



---

Christopher O. Naas, *P.Geo.*

## 9.0 STATEMENT OF COSTS

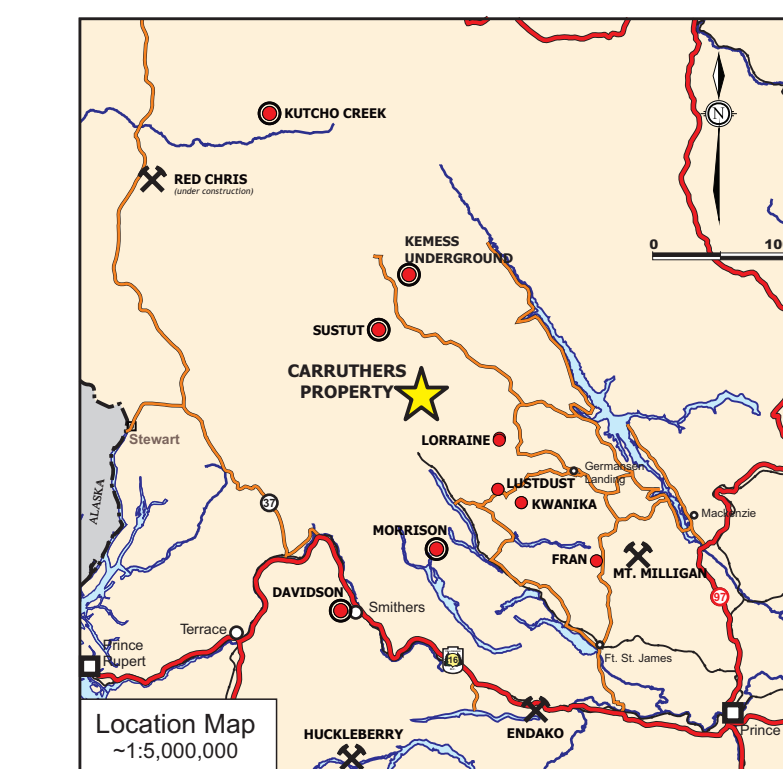
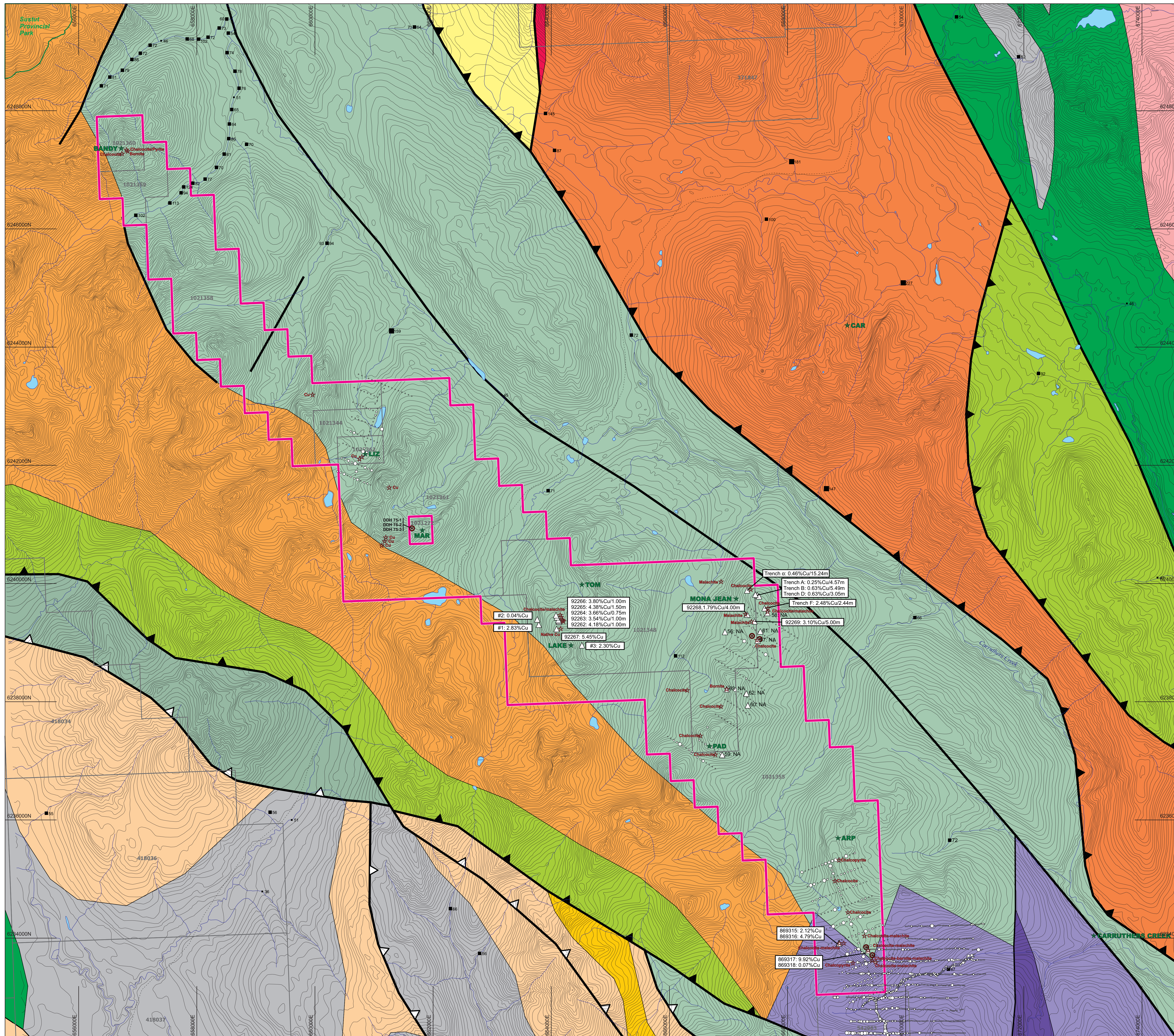
<b>Compilation Work</b>		<b>Days</b>	<b>Rate</b>	<b>Total</b>
Personnel	Christine Swanson	3.75	700.00	2,625.00
	Ted VanderWart	2.50	700.00	1,750.00
<b>Total Personnel</b>				<b>\$ 4,375.00</b>
<b>Total Compilation Work</b>				<b>\$ 4,375.00</b>
<b>Field Work</b>		<b>Days</b>	<b>Rate</b>	<b>Total</b>
Personnel	Chris Naas	1.00	1,000.00	1,000.00
	Spencer Plugoway	1.00	400.00	400.00
<b>Total Personnel</b>				<b>\$ 1400.00</b>
Equipment	Truck -	2.00	125.00	250.00
<b>Total Equipment</b>				<b>\$ 250.00</b>
Expenses	Room and Board			150.00
	Fuel - Truck			124.85
	Helicopter Charter			3,062.80
	Fuel – Helicopter			497.28
<b>Total Expenses</b>				<b>\$ 3,834.93</b>
<b>Total Field Work</b>				<b>\$ 5,484.93</b>
<b>Office (Field Support and Report Preparation)</b>		<b>Days</b>	<b>Rate</b>	<b>Total</b>
Personnel	Ted VanderWart	3	700.00	2,100.00
	Chris Naas	1	1,000.00	1,000.00
<b>Total Personnel</b>				<b>\$ 3,100.00</b>
<b>Total Office Work</b>				<b>\$ 3,100.00</b>
<b>Total Project</b>				<b>\$ 12,959.93</b>

## **10.0 LIST OF SOFTWARE USED**

In the preparation of this report the following software was used:

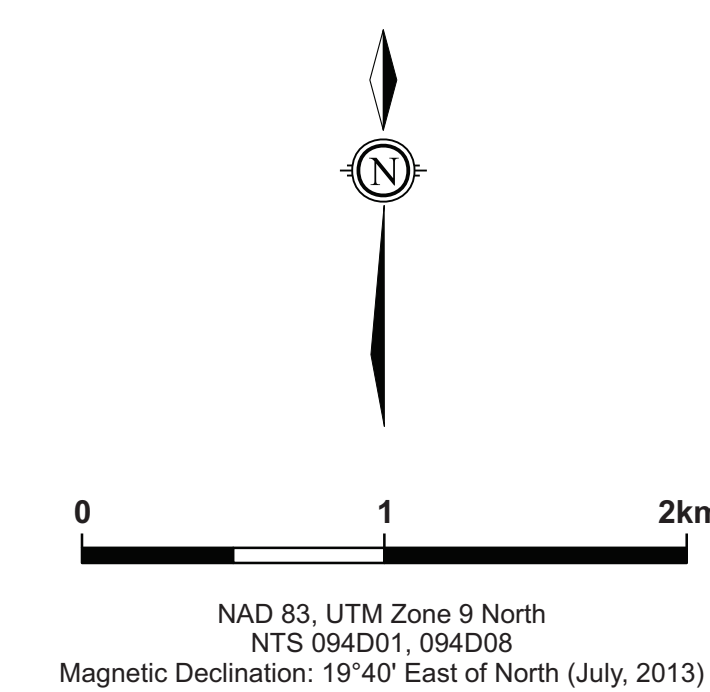
Microsoft	Word 2010
	Excel 2010
Corel	CorelDraw x6
Adobe	Acrobat version 10
Micromine	Micromine version 14.0.2





- LEGEND**
- GEOLOGY**
- Sedimentary Rocks**
- Bowser Lake Group: mudstone, siltstone, shale
  - Takla Group: coarse clastics
- Volcanic Rocks**
- Hazelton Group: calc-alkaline
  - Takla Group: basaltic
  - Takla Group: undivided
  - Hazelton Group: basaltic
  - Asitka Group: bimodal
- Intrusive Rocks**
- Kastberg Plutonic Suite: quartz phytic felsic
  - Ecstall Plutonic Suite: granodioritic
  - Unnamed: gabbroic to dioritic
- Metamorphic Rocks**
- Sitika Assemblage: greenschist
  - Unnamed: ultramafics
- SYMBOLS**
- All-weather gravel road
  - Gravel access road
  - Gravel road - condition unknown
  - Waterbody
  - Watercourse
  - Contour (40 metre interval)
  - Carruthers Property boundary
  - Mineral tenure and number (as of August 1, 2013)
  - Contact
  - Fault
  - Thrust fault
  - High angle reverse fault
  - LAKE
  - BC Minfile occurrence
  - Copper mineralization occurrence with reported mineral(s) - "Cu" where no mineral specified
  - DDH 75-1 Drill hole collar and name (if known)

- GEOCHEMISTRY**
- Rock Samples**
- Rock (grab/chip) sample location
  - Grab sample number and copper result (%)
  - Chip sample number and copper result (%) over metres
  - NA No geochemical results available
- Silt Samples**
- Silt sample site and copper (ppm)
- Copper ranges**
- <52 ppm Cu
  - 52 - 145 ppm Cu
  - 146 - 239 ppm Cu
  - ≥240 ppm Cu
- Soil Samples**
- Copper ranges**
- <92 ppm Cu
  - 92 - 199 ppm Cu
  - 200 - 307 ppm Cu
  - ≥308 ppm Cu



**GEOLOGICAL COMPILATION MAP**  
Carruthers Property

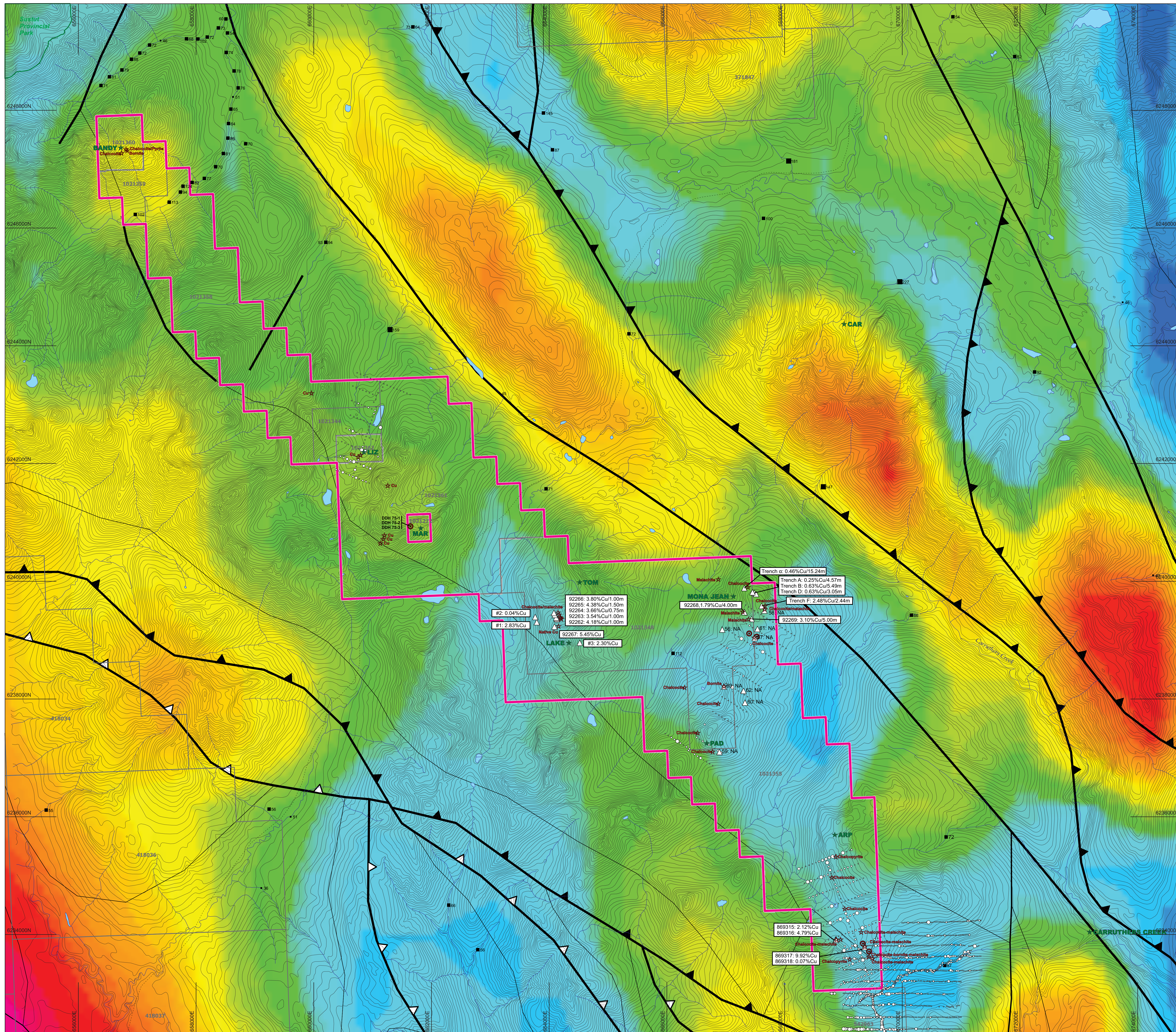
Carruthers Project  
Omineca M.D., British Columbia, Canada

Project No.:	099-Car	By:	CS, TV
Scale:	1:25,000	Drawn:	TV
Figure:	5	Date:	October 2013

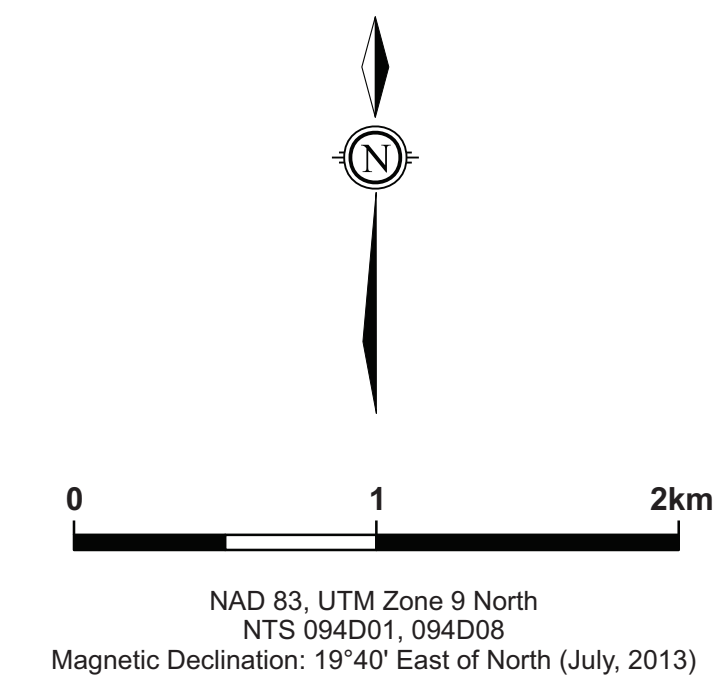
**CME**

Sources of data:  
Mineral tenures: MTO / Land and Resource Data Warehouse  
Geology: BC Geofac 2005-1-ARIS; GDC Open File 342  
Mineral occurrences: BC Minfile  
Topography: GeoCanada's Natural Resources Canada  
Geochemical data: ARIS and BGS





- LEGEND**
- GEOPHYSICS**  
NRCAN Compiled Geophysics  
Total Magnetic Intensity (no scale bar available)
- SYMBOLS**
- All-weather gravel road
  - Gravel access road
  - Gravel road - condition unknown
  - Waterbody
  - Watercourse
  - Contour (40 metre interval)
  - Carruthers Property boundary
  - Mineral tenure and number (as of August 1, 2013)
  - Contact
  - Fault
  - Thrust fault
  - High angle reverse fault
  - LAKE
  - BC Minfile occurrence
  - Minfile
  - Copper mineralization occurrence with reported mineral(s) - "Cu" where no mineral specified
  - DDH 75-1 Drill hole collar and name (if known)
- GEOCHEMISTRY**
- Rock Samples**
- Rock (grab/chip) sample location
  - 869317: 9.92%Cu Grab sample number and copper result (%)
  - 92268: 1.79%Cu@4.00m Chip sample number and copper result (%) over metres
  - NA No geochemical results available
- Silt Samples**
- #117 Silt sample site and copper (ppm)
- Copper ranges**
- <math>\le 52</math> ppm Cu
  - 52 - 145 ppm Cu
  - 146 - 239 ppm Cu
  - >= 240 ppm Cu
- Soil Samples**
- Copper ranges**
- <math>\le 92</math> ppm Cu
  - 92 - 199 ppm Cu
  - 200 - 307 ppm Cu
  - >= 308 ppm Cu



COMPILED AIRBORNE GEOPHYSICS (NRCAN)  
TOTAL MAGNETIC INTENSITY  
Carruthers Property

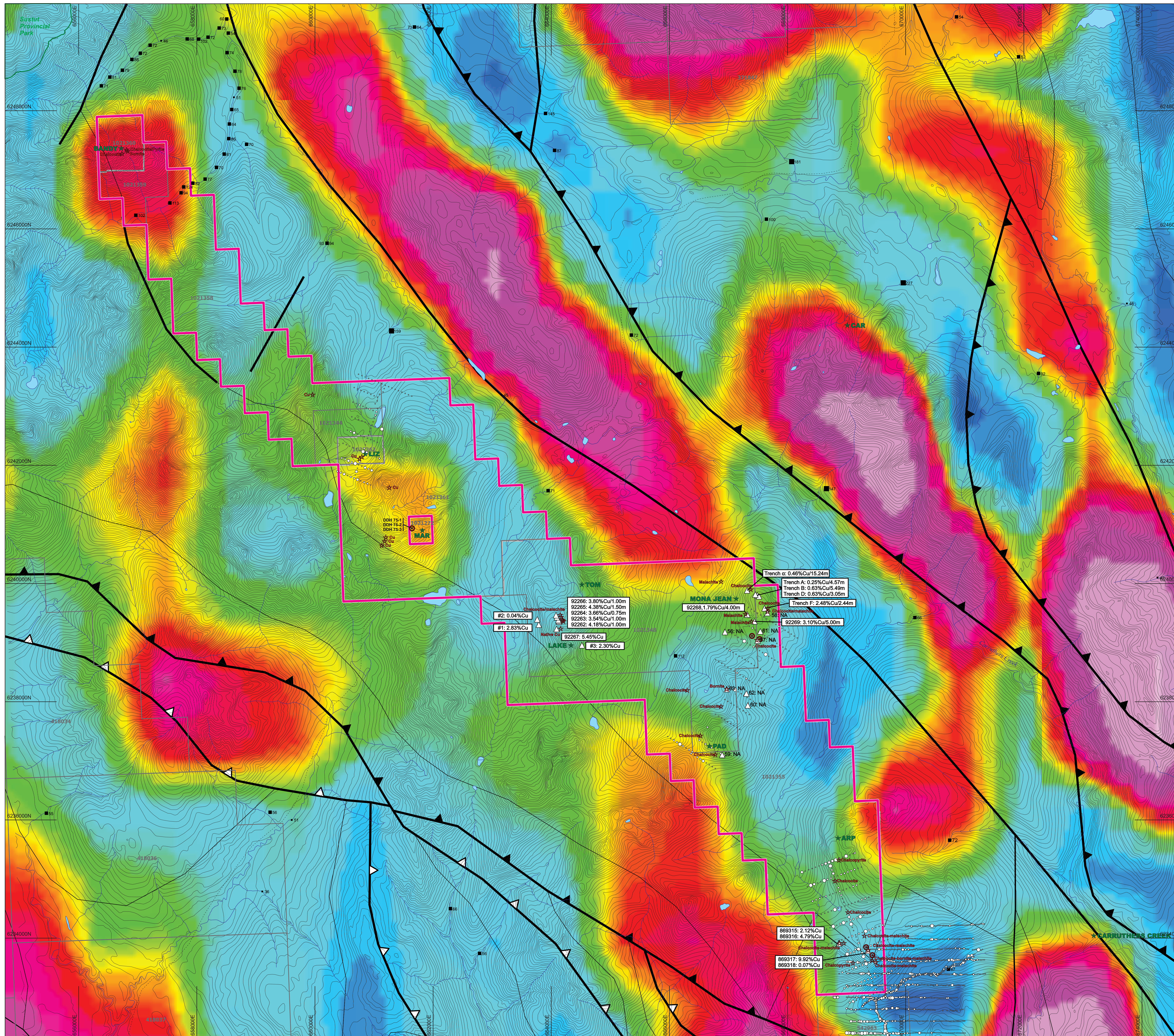
Carruthers Project  
Omineca M.D., British Columbia, Canada

Project No.:	099-Car	By:	CS, TV
Scale:	1:25,000	Drawn:	TV
Figure:	6	Date:	October 2013

**CME**

Sources of data:  
Mineral tenures: MTO / Land and Resource Data Warehouse  
Geology: BC Geol'gy 2005-1-ARIS, GDS, Open File 342  
Mineral occurrences: BC Minfile  
Topography: GeoCanada's Natural Resources Canada  
Geochemical data: ARS and BC RGS





**LEGEND**

**GEOPHYSICS**  
 NRCAN Compiled Geophysics  
 First Vertical Derivative (no scale bar available)

**SYMBOLS**

- All-weather gravel road
- Gravel access road
- Gravel road - condition unknown
- Waterbody
- Watercourse
- Contour (40 metre interval)
- Carruthers Property boundary
- Mineral tenure and number (as of August 1, 2013)
- Contact
- Fault
- Thrust fault
- High angle reverse fault
- **LAKE**
- BC Minfile occurrence
- **★** **MINIFILE**
- Copper mineralization occurrence with reported mineral(s)
- - "Cu" where no mineral specified
- **ODH 75-1** Drill hole collar and name (if known)

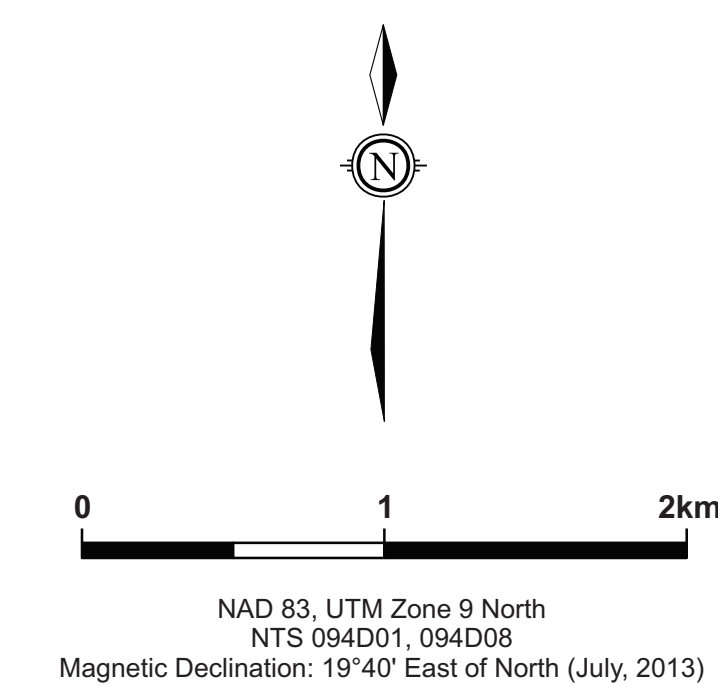
**GEOCHEMISTRY**

- Rock Samples**
- △ Rock (grab/chip) sample location
  - 869317: 9.92%Cu Grab sample number and copper result (%)
  - 92288: 1.79%Cu/4.00m Grab sample number and copper result (%) over metres
  - NA No geochemical results available

- Silt Samples**
- 117 Silt sample site and copper (ppm)

- Copper ranges**
- <52 ppm Cu
  - 52 - 145 ppm Cu
  - 146 - 239 ppm Cu
  - ≥240 ppm Cu

- Soil Samples**
- Copper ranges**
- <92 ppm Cu
  - 92 - 199 ppm Cu
  - 200 - 307 ppm Cu
  - ≥308 ppm Cu



**COMPILED AIRBORNE GEOPHYSICS (NRCAN)  
 FIRST VERTICAL DERIVATIVE  
 Carruthers Property**

Carruthers Project  
 Omineca M.D., British Columbia, Canada

Project No.: 099-Car	By: CS, TV
Scale: 1:25,000	Drawn: TV
Figure: 8	Date: October 2013

**CME**

Sources of data:  
 Mineral tenures: MTO / Land and Resource Data Warehouse  
 Geology: BC GeolFile 2005-1-ARIS; GDS; Open File 342  
 Mineral occurrences: BC Minfile  
 Topography: GeoCanada's Natural Resources Canada  
 Geochemical data: ARS and BGS



## **APPENDIX I**

### **ABBREVIATIONS AND CONVERSION FACTORS**

## ABBREVIATIONS

<b>Elements</b>		<b>Abbreviations</b>	
Ag	Silver	Az	azimuth
As	Arsenic	CDN\$	Canadian dollars
Au	Gold	ppm	parts per million
Ba	Barium	ppb	parts per billion
Cd	Cadmium	g/t	grams per metric tonne
Cu	Copper	oz/T	troy ounces per ton
Mo	Molybdenum	tpd	metric tonnes per day
Pb	Lead	Eq. Au	Gold equivalent
Sb	Antimony	UTM	Universal Transverse Mercator
Ti	Titanium	NAD83	North American Datum 1983
Zn	Zinc	° / ' / "	degree/minute/second of arc

## CONVERSION FACTORS

<b>Length</b>			
1 millimetre (mm)	0.03937 inches (in)	1 inch (in)	25.40 millimetre (mm)
1 centimetre (cm)	0.394 inches(in)	1 inch (in)	2.540 centimetres (cm)
1 metre (m)	3.281 feet (ft)	1 foot (ft)	0.3048 metres (m)
1 kilometre (km)	0.6214 mile (mi)	1 mile (mi)	1.609 kilometres (km)
<b>Area</b>			
1 sq. centimeter (cm <sup>2</sup> )	0.1550 sq. inches (in <sup>2</sup> )	1 sq inch (in <sup>2</sup> )	6.452 sq. centimetres (cm <sup>2</sup> )
1 sq. metre (m <sup>2</sup> )	10.76 feet (ft <sup>2</sup> )	1 foot (ft)	0.0929 sq. metres (m <sup>2</sup> )
1 hectare (ha) (10,000 m <sup>2</sup> )	2.471 acres	1 acre	0.4047 hectare (ha)
1 hectare (ha)	0.003861 sq. miles (m <sup>2</sup> )	1 sq. mile (m <sup>2</sup> )	640 acres
1 hectare (ha)	0.01 sq. kilometre (km <sup>2</sup> )	1 sq. mile (m <sup>2</sup> )	259.0 hectare (ha)
1 sq. kilometre (km <sup>2</sup> )	0.3861 sq. miles (mi <sup>2</sup> )	1 sq. mile (m <sup>2</sup> )	2.590 sq. kilometres (km <sup>2</sup> )
<b>Volume</b>			
1 cu. centimetre (cc)	0.06102 cu. inches (in <sup>3</sup> )	1 cu. inch (in <sup>3</sup> )	16.39 cu. centimetres (cm <sup>3</sup> )
1 cu. metre (m <sup>3</sup> )	1.308 cu. yards (yd <sup>3</sup> )	1 cu. yard (yd <sup>3</sup> )	0.7646 cu. metres (m <sup>3</sup> )
1 cu. metre (m <sup>3</sup> )	35.310 cu. feet (ft <sup>3</sup> )	1 cu. foot (ft <sup>3</sup> )	0.02832 cu. metres (m <sup>3</sup> )
1 litre (l)	0.2642 gallons (U.S.)	1 gallon (U.S.)	3.785 litres (l)
1 litre (l)	0.2200 gallons (U.K.)	1 gallon (U.K.)	4.546 litres (l)
<b>Weights</b>			
1 gram (g)	0.03215 troy ounce (20dwt)	1 troy ounce (oz)	31.1034 grams (g)
1 gram (g)	0.6430 pennyweight (dwt)	1 pennyweight (dwt)	1.555 grams (g)
1 gram (g)	0.03527 oz avoirdupois	1 oz avoirdupois	28.35 grams (g)
1 kilogram (g)	2.205 lb avoirdupois	1 lb avoirdupois	0.4535 kilograms (kg)
1 tonne (t) (metric)	1.102 tons (T) (short ton)	1 ton (T) (short ton) (2000 lb)	0.9072 tonnes (t)
1 tonne (t)	0.9842 long ton	1 long ton (2240 lb)	1.016 tonnes (t)
<b>Miscellaneous</b>			
1 cm/second	0.01968 ft/min	1 ft/min	50.81 cm/second
1 cu. m/second	22.82 million gal/day	1 million gal/day	0.04382 m <sup>3</sup> /second
1 cu. m/minute	264.2 gal/min	1 gal/min	0.003785 m <sup>3</sup> /minute
1 g/cu. m	62.43 lb/ cu. ft	1 lb/cu. ft <sup>3</sup>	0.01602 g/m <sup>3</sup>
1 g/cu. m	0.02458 oz/cu. yd	1 oz/cu. yd	40.6817 g/m <sup>3</sup>
1 Pascal (Pa)	0.000145 psi	1 psi	6985 Pascal
1 gram/tonne (g/t)	0.029216 troy ounce/ short ton (oz/T)	1 troy ounce/short ton (oz/T)	34.2857 grams/tonne (g/t)
1 g/t	0.583 dwt/short ton	1 dwt/short ton	1.714 g/t
1 g/t	0.653 dwt/long ton	1 dwt/long ton	1.531 g/t
1 g/t	0.0001 %		
1 g/t	1 part per million (ppm)		
1 %	10,000 part per million (ppm)		
1 part per million (ppm)	1,000 part per billion (ppb)		
1 part per billion (ppb)	0.001 part per million (ppm)		

## **APPENDIX II**

### **HISTORICAL SAMPLE DATA**

- a. Silt Samples**
- b. Soil Samples**
- c. Rock Samples**
- d. Mineral Occurrences**



**APPENDIX II**

**HISTORICAL SAMPLE DATA**

**a. Silt Samples**

## Historical Silt Samples

(excluding 1996 RGS samples)

SAMPLE	E_UTM	N_UTM	Report	Area	Lab	Cert	Type	Cu_ppm	Zn_ppm	YEAR
1	656968	6246231	5995	Bandy	Cominco		Silt	102	119	1975
2	657544	6246438	5995	Bandy	Cominco		Silt	113	104	1975
3	657734	6246612	5995	Bandy	Cominco		Silt	94	104	1975
4	657933	6246771	5995	Bandy	Cominco		Silt	82	103	1975
5	658141	6246844	5995	Bandy	Cominco		Silt	77	92	1975
6	658333	6247040	5995	Bandy	Cominco		Silt	70	89	1975
7	658464	6247265	5995	Bandy	Cominco		Silt	81	92	1975
8	658541	6247526	5995	Bandy	Cominco		Silt	86	70	1975
9	658551	6247774	5995	Bandy	Cominco		Silt	64	84	1975
10	658592	6248020	5995	Bandy	Cominco		Silt	65	90	1975
11	658629	6248226	5995	Bandy	Cominco		Silt	51	77	1975
12	658715	6248381	5995	Bandy	Cominco		Silt	76	96	1975
13	658646	6248668	5995	Bandy	Cominco		Silt	78	54	1975
14	658512	6248984	5995	Bandy	Cominco		Silt	74	88	1975
15	658534	6249312	5995	Bandy	Cominco		Silt	54	60	1975
16	658437	6250142	5995	Bandy	Cominco		Silt	41	60	1975
18	656385	6248422	5995	Bandy	Cominco		Silt	71	79	1975
17	656528	6248570	5995	Bandy	Cominco		Silt	81	82	1975
19	656741	6248686	5995	Bandy	Cominco		Silt	79	78	1975
20	656901	6248867	5995	Bandy	Cominco		Silt	88	87	1975
21	657043	6248972	5995	Bandy	Cominco		Silt	72	80	1975
22	657211	6249109	5995	Bandy	Cominco		Silt	72	80	1975
23	657397	6249183	5995	Bandy	Cominco		Silt	46	67	1975
24	657838	6249213	5995	Bandy	Cominco		Silt	68	80	1975
25	658190	6249242	5995	Bandy	Cominco		Silt	72	77	1975
26	658379	6249398	5995	Bandy	Cominco		Silt	73	77	1975
27	658507	6249551	5995	Bandy	Cominco		Silt	60	75	1975

**APPENDIX II**

**HISTORICAL SAMPLE DATA**

**b. Soil Samples**

# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR
	669402	6233366			BL0E	1000N	5017	ARP	Van Geo Labs	73-79-032	Soil				93		98	1973
	669375	6233440			BL0E	1200N	5017	ARP	Van Geo Labs	73-79-032	Soil				38		90	1973
	669354	6233503			BL0E	1400N	5017	ARP	Van Geo Labs	73-79-032	Soil				90		99	1973
	669311	6233622			BL0E	1800N	5017	ARP	Van Geo Labs	73-79-032	Soil				115		110	1973
	669284	6233687			BL0E	2000N	5017	ARP	Van Geo Labs	73-79-032	Soil				380		92	1973
	669487	6233135			BL0E	200N	5017	ARP	Van Geo Labs	73-79-032	Soil				150		115	1973
	669263	6233746			BL0E	2200N	5017	ARP	Van Geo Labs	73-79-032	Soil				253		80	1973
	669203	6233915			BL0E	2600N	5017	ARP	Van Geo Labs	73-79-032	Soil				151		85	1973
	669182	6233968			BL0E	2800N	5017	ARP	Van Geo Labs	73-79-032	Soil				67		75	1973
	669160	6234021			BL0E	3000N	5017	ARP	Van Geo Labs	73-79-032	Soil				85		105	1973
	669118	6234128			BL0E	3400N	5017	ARP	Van Geo Labs	73-79-032	Soil				30		110	1973
	669097	6234182			BL0E	3600N	5017	ARP	Van Geo Labs	73-79-032	Soil				70		99	1973
	669076	6234236			BL0E	3800N	5017	ARP	Van Geo Labs	73-79-032	Soil				315		89	1973
	669465	6233197			BL0E	400N	5017	ARP	Van Geo Labs	73-79-032	Soil				39		100	1973
	669042	6234358			BL0E	4200N	5017	ARP	Van Geo Labs	73-79-032	Soil				203		72	1973
	669017	6234422			BL0E	4400N	5017	ARP	Van Geo Labs	73-79-032	Soil				69		80	1973
	668996	6234484			BL0E	4600N	5017	ARP	Van Geo Labs	73-79-032	Soil				35		80	1973
	668951	6234607			BL0E	5000N	5017	ARP	Van Geo Labs	73-79-032	Soil				27		81	1973
	668928	6234669			BL0E	5200N	5017	ARP	Van Geo Labs	73-79-032	Soil				43		89	1973
	668907	6234727			BL0E	5400N	5017	ARP	Van Geo Labs	73-79-032	Soil				129		115	1973
	668862	6234853			BL0E	5800N	5017	ARP	Van Geo Labs	73-79-032	Soil				94		107	1973
	668837	6234915			BL0E	6000N	5017	ARP	Van Geo Labs	73-79-032	Soil				86		120	1973
	669442	6233258			BL0E	600N	5017	ARP	Van Geo Labs	73-79-032	Soil				90		91	1973
	668817	6234974			BL0E	6200N	5017	ARP	Van Geo Labs	73-79-032	Soil				152		100	1973
	668773	6235094			BL0E	6600N	5017	ARP	Van Geo Labs	73-79-032	Soil				214		105	1973
	668751	6235154			BL0E	6800N	5017	ARP	Van Geo Labs	73-79-032	Soil				125		90	1973
	668726	6235221			BL0E	7000N	5017	ARP	Van Geo Labs	73-79-032	Soil				450		99	1973
	669739	6233158			L0000N	1000E	5017	ARP	Van Geo Labs	73-79-032	Soil				105		110	1973
	669224	6232969			L0000N	1000W	5017	ARP	Van Geo Labs	73-79-032	Soil				68		90	1973
	669854	6233197			L0000N	1200E	5017	ARP	Van Geo Labs	73-79-032	Soil				132		102	1973
	669167	6232950			L0000N	1200W	5017	ARP	Van Geo Labs	73-79-032	Soil				30		40	1973
	669912	6233219			L0000N	1400E	5017	ARP	Van Geo Labs	73-79-032	Soil				57		100	1973
	669109	6232928			L0000N	1400W	5017	ARP	Van Geo Labs	73-79-032	Soil				227		180	1973
	669968	6233240			L0000N	1600E	5017	ARP	Van Geo Labs	73-79-032	Soil				30		72	1973
	669053	6232909			L0000N	1600W	5017	ARP	Van Geo Labs	73-79-032	Soil				122		130	1973
	669568	6233093			L0000N	200E	5017	ARP	Van Geo Labs	73-79-032	Soil				25		70	1973
	669453	6233051			L0000N	200W	5017	ARP	Van Geo Labs	73-79-032	Soil				40		80	1973
	669624	6233115			L0000N	400E	5017	ARP	Van Geo Labs	73-79-032	Soil				35		65	1973
	669395	6233033			L0000N	400W	5017	ARP	Van Geo Labs	73-79-032	Soil				192		95	1973
	669681	6233135			L0000N	600E	5017	ARP	Van Geo Labs	73-79-032	Soil				117		80	1973
	669336	6233011			L0000N	600W	5017	ARP	Van Geo Labs	73-79-032	Soil				69		99	1973
	669796	6233177			L0000N	800E	5017	ARP	Van Geo Labs	73-79-032	Soil				35		79	1973
	669282	6232990			L0000N	800W	5017	ARP	Van Geo Labs	73-79-032	Soil				263		105	1973
	669510	6233072			L0000N	BL0E	5017	ARP	Van Geo Labs	73-79-032	Soil				40		70	1973
	669706	6233425			L0800N	1000E	5017	ARP	Van Geo Labs	73-79-032	Soil				37		70	1973
	669135	6233215			L0800N	1000W	5017	ARP	Van Geo Labs	73-79-032	Soil				143		115	1973
	669762	6233445			L0800N	1200E	5017	ARP	Van Geo Labs	73-79-032	Soil				160		102	1973
	669077	6233195			L0800N	1200W	5017	ARP	Van Geo Labs	73-79-032	Soil				82		129	1973
	669821	6233465			L0800N	1400E	5017	ARP	Van Geo Labs	73-79-032	Soil				20		59	1973
	669019	6233173			L0800N	1400W	5017	ARP	Van Geo Labs	73-79-032	Soil				118		150	1973
	669874	6233486			L0800N	1600E	5017	ARP	Van Geo Labs	73-79-032	Soil				33		72	1973
	668962	6233154			L0800N	1600W	5017	ARP	Van Geo Labs	73-79-032	Soil				105		140	1973
	669478	6233339			L0800N	200E	5017	ARP	Van Geo Labs	73-79-032	Soil				127		90	1973
	669362	6233299			L0800N	200W	5017	ARP	Van Geo Labs	73-79-032	Soil				104		100	1973
	669534	6233360			L0800N	400E	5017	ARP	Van Geo Labs	73-79-032	Soil				47		75	1973
	669306	6233278			L0800N	400W	5017	ARP	Van Geo Labs	73-79-032	Soil				116		110	1973
	669590	6233382			L0800N	600E	5017	ARP	Van Geo Labs	73-79-032	Soil				89		105	1973
	669248	6233257			L0800N	600W	5017	ARP	Van Geo Labs	73-79-032	Soil				146		130	1973
	669649	6233403			L0800N	800E	5017	ARP	Van Geo Labs	73-79-032	Soil				92		110	1973

# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR
	669191	6233237			L0800N	800W	5017	ARP	Van Geo Labs	73-79-032	Soil				168		85	1973
	669420	6233318			L0800N	BLOE	5017	ARP	Van Geo Labs	73-79-032	Soil				115		90	1973
	669615	6233669			L1600N	1000E	5017	ARP	Van Geo Labs	73-79-032	Soil				38		70	1973
	669044	6233460			L1600N	1000W	5017	ARP	Van Geo Labs	73-79-032	Soil				87		70	1973
	669671	6233690			L1600N	1200E	5017	ARP	Van Geo Labs	73-79-032	Soil				34		60	1973
	668983	6233439			L1600N	1200W	5017	ARP	Van Geo Labs	73-79-032	Soil				31		72	1973
	669728	6233711			L1600N	1400E	5017	ARP	Van Geo Labs	73-79-032	Soil				49		93	1973
	668927	6233420			L1600N	1400W	5017	ARP	Van Geo Labs	73-79-032	Soil				117		80	1973
	669786	6233732			L1600N	1600E	5017	ARP	Van Geo Labs	73-79-032	Soil				42		85	1973
	668873	6233399			L1600N	1600W	5017	ARP	Van Geo Labs	73-79-032	Soil				58		60	1973
	669384	6233587			L1600N	200E	5017	ARP	Van Geo Labs	73-79-032	Soil				177		89	1973
	669270	6233544			L1600N	200W	5017	ARP	Van Geo Labs	73-79-032	Soil				119		82	1973
	669443	6233607			L1600N	400E	5017	ARP	Van Geo Labs	73-79-032	Soil				80		95	1973
	669216	6233525			L1600N	400W	5017	ARP	Van Geo Labs	73-79-032	Soil				7		100	1973
	669502	6233628			L1600N	600E	5017	ARP	Van Geo Labs	73-79-032	Soil				68		100	1973
	669157	6233504			L1600N	600W	5017	ARP	Van Geo Labs	73-79-032	Soil				202		100	1973
	669560	6233648			L1600N	800E	5017	ARP	Van Geo Labs	73-79-032	Soil				55		91	1973
	669099	6233481			L1600N	800W	5017	ARP	Van Geo Labs	73-79-032	Soil				142		88	1973
	669330	6233566			L1600N	BLOE	5017	ARP	Van Geo Labs	73-79-032	Soil				365		105	1973
	669526	6233916			L2400N	1000E	5017	ARP	Van Geo Labs	73-79-032	Soil				127		90	1973
	668969	6233712			L2400N	1000W	5017	ARP	Van Geo Labs	73-79-032	Soil			NS		NS		1973
	669584	6233934			L2400N	1200E	5017	ARP	Van Geo Labs	73-79-032	Soil				62		90	1973
	668906	6233691			L2400N	1200W	5017	ARP	Van Geo Labs	73-79-032	Soil			NS		NS		1973
	669639	6233956			L2400N	1400E	5017	ARP	Van Geo Labs	73-79-032	Soil				40		80	1973
	668848	6233671			L2400N	1400W	5017	ARP	Van Geo Labs	73-79-032	Soil			NS		NS		1973
	669698	6233975			L2400N	1600E	5017	ARP	Van Geo Labs	73-79-032	Soil				50		61	1973
	668784	6233645			L2400N	1600W	5017	ARP	Van Geo Labs	73-79-032	Soil			NS		NS		1973
	669296	6233831			L2400N	200E	5017	ARP	Van Geo Labs	73-79-032	Soil				80		78	1973
	669191	6233794			L2400N	200W	5017	ARP	Van Geo Labs	73-79-032	Soil			NS		NS		1973
	669354	6233852			L2400N	400E	5017	ARP	Van Geo Labs	73-79-032	Soil				58		85	1973
	669123	6233770			L2400N	400W	5017	ARP	Van Geo Labs	73-79-032	Soil				154		110	1973
	669411	6233872			L2400N	600E	5017	ARP	Van Geo Labs	73-79-032	Soil				132		100	1973
	669069	6233750			L2400N	600W	5017	ARP	Van Geo Labs	73-79-032	Soil				102		93	1973
	669470	6233895			L2400N	800E	5017	ARP	Van Geo Labs	73-79-032	Soil				43		105	1973
	669011	6233729			L2400N	800W	5017	ARP	Van Geo Labs	73-79-032	Soil				435		100	1973
	669241	6233809			L2400N	BLOE	5017	ARP	Van Geo Labs	73-79-032	Soil				70		92	1973
	669437	6234158			L3200N	1000E	5017	ARP	Van Geo Labs	73-79-032	Soil				108		70	1973
	668863	6233953			L3200N	1000W	5017	ARP	Van Geo Labs	73-79-032	Soil				90		80	1973
	669494	6234179			L3200N	1200E	5017	ARP	Van Geo Labs	73-79-032	Soil				54		138	1973
	668806	6233931			L3200N	1200W	5017	ARP	Van Geo Labs	73-79-032	Soil				62		93	1973
	669550	6234199			L3200N	1400E	5017	ARP	Van Geo Labs	73-79-032	Soil				35		90	1973
	668749	6233910			L3200N	1400W	5017	ARP	Van Geo Labs	73-79-032	Soil				31		60	1973
	669609	6234220			L3200N	1600E	5017	ARP	Van Geo Labs	73-79-032	Soil				136		90	1973
	668693	6233889			L3200N	1600W	5017	ARP	Van Geo Labs	73-79-032	Soil			NS		NS		1973
	669208	6234074			L3200N	200E	5017	ARP	Van Geo Labs	73-79-032	Soil				124		115	1973
	669093	6234035			L3200N	200W	5017	ARP	Van Geo Labs	73-79-032	Soil				112		100	1973
	669265	6234096			L3200N	400E	5017	ARP	Van Geo Labs	73-79-032	Soil				91		95	1973
	669035	6234014			L3200N	400W	5017	ARP	Van Geo Labs	73-79-032	Soil				84		73	1973
	669322	6234116			L3200N	600E	5017	ARP	Van Geo Labs	73-79-032	Soil				455		85	1973
	668977	6233993			L3200N	600W	5017	ARP	Van Geo Labs	73-79-032	Soil				63		75	1973
	669380	6234137			L3200N	800E	5017	ARP	Van Geo Labs	73-79-032	Soil				116		65	1973
	668921	6233974			L3200N	800W	5017	ARP	Van Geo Labs	73-79-032	Soil				70		102	1973
	669152	6234055			L3200N	BLOE	5017	ARP	Van Geo Labs	73-79-032	Soil				81		48	1973
	669348	6234405			L4000N	1000E	5017	ARP	Van Geo Labs	73-79-032	Soil				30		70	1973
	668774	6234198			L4000N	1000W	5017	ARP	Van Geo Labs	73-79-032	Soil				470		72	1973
	669404	6234425			L4000N	1200E	5017	ARP	Van Geo Labs	73-79-032	Soil				47		99	1973
	668720	6234177			L4000N	1200W	5017	ARP	Van Geo Labs	73-79-032	Soil				50		109	1973
	669462	6234446			L4000N	1400E	5017	ARP	Van Geo Labs	73-79-032	Soil				63		89	1973
	668659	6234155			L4000N	1400W	5017	ARP	Van Geo Labs	73-79-032	Soil				65		95	1973

# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR
	669518	6234467			L4000N	1600E	5017	ARP	Van Geo Labs	73-79-032	Soil				37		75	1973
	668603	6234134			L4000N	1600W	5017	ARP	Van Geo Labs	73-79-032	Soil				105		90	1973
	669115	6234321			L4000N	200E	5017	ARP	Van Geo Labs	73-79-032	Soil				94		105	1973
	669003	6234280			L4000N	200W	5017	ARP	Van Geo Labs	73-79-032	Soil				64		105	1973
	669175	6234342			L4000N	400E	5017	ARP	Van Geo Labs	73-79-032	Soil				106		100	1973
	668948	6234260			L4000N	400W	5017	ARP	Van Geo Labs	73-79-032	Soil				325		55	1973
	669232	6234363			L4000N	600E	5017	ARP	Van Geo Labs	73-79-032	Soil				550		90	1973
	668892	6234239			L4000N	600W	5017	ARP	Van Geo Labs	73-79-032	Soil				167		102	1973
	669288	6234383			L4000N	800E	5017	ARP	Van Geo Labs	73-79-032	Soil				28		70	1973
	668833	6234217			L4000N	800W	5017	ARP	Van Geo Labs	73-79-032	Soil				37		92	1973
	669062	6234302			L4000N	BL0E	5017	ARP	Van Geo Labs	73-79-032	Soil				160		105	1973
	669258	6234650			L4800N	1000E	5017	ARP	Van Geo Labs	73-79-032	Soil				112		80	1973
	668686	6234441			L4800N	1000W	5017	ARP	Van Geo Labs	73-79-032	Soil				62		95	1973
	669313	6234671			L4800N	1200E	5017	ARP	Van Geo Labs	73-79-032	Soil				107		100	1973
	668630	6234422			L4800N	1200W	5017	ARP	Van Geo Labs	73-79-032	Soil				72		68	1973
	669375	6234694			L4800N	1400E	5017	ARP	Van Geo Labs	73-79-032	Soil				NS		NS	1973
	668571	6234403			L4800N	1400W	5017	ARP	Van Geo Labs	73-79-032	Soil				60		87	1973
	669427	6234712			L4800N	1600E	5017	ARP	Van Geo Labs	73-79-032	Soil				NS		NS	1973
	668515	6234380			L4800N	1600W	5017	ARP	Van Geo Labs	73-79-032	Soil				51		90	1973
	669028	6234566			L4800N	200E	5017	ARP	Van Geo Labs	73-79-032	Soil				38		80	1973
	668915	6234526			L4800N	200W	5017	ARP	Van Geo Labs	73-79-032	Soil				36		100	1973
	669083	6234587			L4800N	400E	5017	ARP	Van Geo Labs	73-79-032	Soil				74		100	1973
	668862	6234507			L4800N	400W	5017	ARP	Van Geo Labs	73-79-032	Soil				NS		NS	1973
	669142	6234606			L4800N	600E	5017	ARP	Van Geo Labs	73-79-032	Soil				30		72	1973
	668801	6234482			L4800N	600W	5017	ARP	Van Geo Labs	73-79-032	Soil				342		82	1973
	669198	6234628			L4800N	800E	5017	ARP	Van Geo Labs	73-79-032	Soil				30		80	1973
	668743	6234463			L4800N	800W	5017	ARP	Van Geo Labs	73-79-032	Soil				89		90	1973
	668973	6234546			L4800N	BL0E	5017	ARP	Van Geo Labs	73-79-032	Soil				20		60	1973
	669169	6234897			L5600N	1000E	5017	ARP	Van Geo Labs	73-79-032	Soil				178		105	1973
	668595	6234689			L5600N	1000W	5017	ARP	Van Geo Labs	73-79-032	Soil				38		80	1973
	669227	6234916			L5600N	1200E	5017	ARP	Van Geo Labs	73-79-032	Soil				60		100	1973
	668545	6234668			L5600N	1200W	5017	ARP	Van Geo Labs	73-79-032	Soil				138		82	1973
	669282	6234936			L5600N	1400E	5017	ARP	Van Geo Labs	73-79-032	Soil				65		96	1973
	668484	6234648			L5600N	1400W	5017	ARP	Van Geo Labs	73-79-032	Soil				112		100	1973
	669340	6234958			L5600N	1600E	5017	ARP	Van Geo Labs	73-79-032	Soil				50		90	1973
	668422	6234625			L5600N	1600W	5017	ARP	Van Geo Labs	73-79-032	Soil				172		105	1973
	668938	6234812			L5600N	200E	5017	ARP	Van Geo Labs	73-79-032	Soil				50		100	1973
	668823	6234772			L5600N	200W	5017	ARP	Van Geo Labs	73-79-032	Soil				71		110	1973
	668996	6234834			L5600N	400E	5017	ARP	Van Geo Labs	73-79-032	Soil				49		100	1973
	668767	6234752			L5600N	400W	5017	ARP	Van Geo Labs	73-79-032	Soil				45		55	1973
	669053	6234855			L5600N	600E	5017	ARP	Van Geo Labs	73-79-032	Soil				28		79	1973
	668711	6234729			L5600N	600W	5017	ARP	Van Geo Labs	73-79-032	Soil				62		93	1973
	669110	6234874			L5600N	800E	5017	ARP	Van Geo Labs	73-79-032	Soil				162		104	1973
	668650	6234709			L5600N	800W	5017	ARP	Van Geo Labs	73-79-032	Soil				107		87	1973
	668883	6234793			L5600N	BL0E	5017	ARP	Van Geo Labs	73-79-032	Soil				125		120	1973
	669077	6235140			L6400N	1000E	5017	ARP	Van Geo Labs	73-79-032	Soil				102		90	1973
	668507	6234933			L6400N	1000W	5017	ARP	Van Geo Labs	73-79-032	Soil				41		80	1973
	669135	6235160			L6400N	1200E	5017	ARP	Van Geo Labs	73-79-032	Soil				167		130	1973
	668451	6234913			L6400N	1200W	5017	ARP	Van Geo Labs	73-79-032	Soil				268		100	1973
	669193	6235182			L6400N	1400E	5017	ARP	Van Geo Labs	73-79-032	Soil				35		105	1973
	668393	6234893			L6400N	1400W	5017	ARP	Van Geo Labs	73-79-032	Soil				465		92	1973
	669251	6235203			L6400N	1600E	5017	ARP	Van Geo Labs	73-79-032	Soil				77		128	1973
	668336	6234873			L6400N	1600W	5017	ARP	Van Geo Labs	73-79-032	Soil				21		50	1973
	668849	6235056			L6400N	200E	5017	ARP	Van Geo Labs	73-79-032	Soil				70		110	1973
	668736	6235015			L6400N	200W	5017	ARP	Van Geo Labs	73-79-032	Soil				163		105	1973
	668907	6235078			L6400N	400E	5017	ARP	Van Geo Labs	73-79-032	Soil				163		99	1973
	668677	6234994			L6400N	400W	5017	ARP	Van Geo Labs	73-79-032	Soil				102		90	1973
	668963	6235096			L6400N	600E	5017	ARP	Van Geo Labs	73-79-032	Soil				148		110	1973
	668622	6234974			L6400N	600W	5017	ARP	Van Geo Labs	73-79-032	Soil				1150		93	1973



# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR
	669021	6235119			L6400N	800E	5017	ARP	Van Geo Labs	73-79-032	Soil				101		108	1973
	668566	6234953			L6400N	800W	5017	ARP	Van Geo Labs	73-79-032	Soil				67		95	1973
	668794	6235036			L6400N	BL0E	5017	ARP	Van Geo Labs	73-79-032	Soil				80		90	1973
	668991	6235387			L7200N	1000E	5017	ARP	Van Geo Labs	73-79-032	Soil				365		105	1973
	668417	6235178			L7200N	1000W	5017	ARP	Van Geo Labs	73-79-032	Soil				53		100	1973
	669049	6235407			L7200N	1200E	5017	ARP	Van Geo Labs	73-79-032	Soil				59		86	1973
	668360	6235158			L7200N	1200W	5017	ARP	Van Geo Labs	73-79-032	Soil				35		80	1973
	669105	6235428			L7200N	1400E	5017	ARP	Van Geo Labs	73-79-032	Soil				32		91	1973
	668301	6235135			L7200N	1400W	5017	ARP	Van Geo Labs	73-79-032	Soil				52		80	1973
	669140	6235440			L7200N	1600E	5017	ARP	Van Geo Labs	73-79-032	Soil				100		115	1973
	668243	6235117			L7200N	1600W	5017	ARP	Van Geo Labs	73-79-032	Soil				232		NS	1973
	668759	6235306			L7200N	200E	5017	ARP	Van Geo Labs	73-79-032	Soil				232		NS	1973
	668646	6235261			L7200N	200W	5017	ARP	Van Geo Labs	73-79-032	Soil				212		105	1973
	668817	6235324			L7200N	400E	5017	ARP	Van Geo Labs	73-79-032	Soil				960		113	1973
	668586	6235241			L7200N	400W	5017	ARP	Van Geo Labs	73-79-032	Soil				173		102	1973
	668874	6235347			L7200N	600E	5017	ARP	Van Geo Labs	73-79-032	Soil				128		114	1973
	668533	6235221			L7200N	600W	5017	ARP	Van Geo Labs	73-79-032	Soil				NS		NS	1973
	668934	6235368			L7200N	800E	5017	ARP	Van Geo Labs	73-79-032	Soil				87		102	1973
	668475	6235200			L7200N	800W	5017	ARP	Van Geo Labs	73-79-032	Soil				52		79	1973
	668703	6235283			L7200N	BL0E	5017	ARP	Van Geo Labs	73-79-032	Soil				285		100	1973
	666367	6237125			L0000N	0E	5047	PAD	Van Geo Labs	73-79-017	Soil				112		135	1973
	666624	6236965			L0000N	1000E	5047	PAD	Van Geo Labs	73-79-017	Soil				73		65	1973
	666675	6236932			L0000N	1200E	5047	PAD	Van Geo Labs	73-79-017	Soil				87		85	1973
	666727	6236900			L0000N	1400E	5047	PAD	Van Geo Labs	73-79-017	Soil				90		92	1973
	666778	6236868			L0000N	1600E	5047	PAD	Van Geo Labs	73-79-017	Soil				79		75	1973
	666419	6237093			L0000N	200E	5047	PAD	Van Geo Labs	73-79-017	Soil				70		100	1973
	666470	6237061			L0000N	400E	5047	PAD	Van Geo Labs	73-79-017	Soil				97		102	1973
	666521	6237029			L0000N	600E	5047	PAD	Van Geo Labs	73-79-017	Soil				98		115	1973
	666573	6236997			L0000N	800E	5047	PAD	Van Geo Labs	73-79-017	Soil				232		140	1973
	666385	6237153			L0100N	0E	5047	PAD	Van Geo Labs	73-79-017	Soil				152		105	1973
	666127	6237314			L0100N	1000W	5047	PAD	Van Geo Labs	73-79-017	Soil				101		95	1973
	666075	6237346			L0100N	1200W	5047	PAD	Van Geo Labs	73-79-017	Soil				110		70	1973
	666024	6237378			L0100N	1400W	5047	PAD	Van Geo Labs	73-79-017	Soil				42		50	1973
	665972	6237411			L0100N	1600W	5047	PAD	Van Geo Labs	73-79-017	Soil				59		25	1973
	666333	6237186			L0100N	200W	5047	PAD	Van Geo Labs	73-79-017	Soil				120		130	1973
	666282	6237218			L0100N	400W	5047	PAD	Van Geo Labs	73-79-017	Soil				NS		NS	1973
	666230	6237250			L0100N	600W	5047	PAD	Van Geo Labs	73-79-017	Soil				104		130	1973
	666179	6237282			L0100N	800W	5047	PAD	Van Geo Labs	73-79-017	Soil				365		100	1973
	666507	6237348			L0800N	0E	5047	PAD	Van Geo Labs	73-79-017	Soil				146		130	1973
	666764	6237187			L0800N	1000E	5047	PAD	Van Geo Labs	73-79-017	Soil				50		72	1973
	666815	6237155			L0800N	1200E	5047	PAD	Van Geo Labs	73-79-017	Soil				85		101	1973
	666867	6237123			L0800N	1400E	5047	PAD	Van Geo Labs	73-79-017	Soil				180		110	1973
	666918	6237091			L0800N	1600E	5047	PAD	Van Geo Labs	73-79-017	Soil				247		100	1973
	666558	6237316			L0800N	200E	5047	PAD	Van Geo Labs	73-79-017	Soil				65		75	1973
	666610	6237284			L0800N	400E	5047	PAD	Van Geo Labs	73-79-017	Soil				99		100	1973
	666661	6237252			L0800N	600E	5047	PAD	Van Geo Labs	73-79-017	Soil				50		110	1973
	666713	6237220			L0800N	800E	5047	PAD	Van Geo Labs	73-79-017	Soil				105		85	1973
	666644	6237568			L1600N	0E	5047	PAD	Van Geo Labs	73-79-017	Soil				128		60	1973
	666781	6237789			L2400N	0E	5047	PAD	Van Geo Labs	73-79-017	Soil				45		100	1973
	667039	6237628			L2400N	1000E	5047	PAD	Van Geo Labs	73-79-017	Soil				26		60	1973
	667091	6237596			L2400N	1200E	5047	PAD	Van Geo Labs	73-79-017	Soil				48		100	1973
	667142	6237564			L2400N	1400E	5047	PAD	Van Geo Labs	73-79-017	Soil				20		230	1973
	667194	6237532			L2400N	1600E	5047	PAD	Van Geo Labs	73-79-017	Soil				22		70	1973
	666833	6237757			L2400N	200E	5047	PAD	Van Geo Labs	73-79-017	Soil				77		100	1973
	666884	6237724			L2400N	400E	5047	PAD	Van Geo Labs	73-79-017	Soil				40		89	1973
	666936	6237692			L2400N	600E	5047	PAD	Van Geo Labs	73-79-017	Soil				22		65	1973
	666987	6237660			L2400N	800E	5047	PAD	Van Geo Labs	73-79-017	Soil				47		88	1973
	666937	6238038			L3200N	0E	5047	PAD	Van Geo Labs	73-79-017	Soil				49		90	1973
	667195	6237878			L3200N	1000E	5047	PAD	Van Geo Labs	73-79-017	Soil				38		90	1973

# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR
	667247	6237846			L3200N	1200E	5047	PAD	Van Geo Labs	73-79-017	Soil				22		180	1973
	667299	6237814			L3200N	1400E	5047	PAD	Van Geo Labs	73-79-017	Soil				39		105	1973
	667350	6237782			L3200N	1600E	5047	PAD	Van Geo Labs	73-79-017	Soil				48		90	1973
	666989	6238006			L3200N	200E	5047	PAD	Van Geo Labs	73-79-017	Soil				39		80	1973
	667041	6237974			L3200N	400E	5047	PAD	Van Geo Labs	73-79-017	Soil				27		80	1973
	667092	6237942			L3200N	600E	5047	PAD	Van Geo Labs	73-79-017	Soil				22		45	1973
	667144	6237910			L3200N	800E	5047	PAD	Van Geo Labs	73-79-017	Soil				25		50	1973
	667059	6238233			L4000N	0E	5047	PAD	Van Geo Labs	73-79-017	Soil				65		75	1973
	667318	6238072			L4000N	1000E	5047	PAD	Van Geo Labs	73-79-017	Soil				27		105	1973
	667370	6238040			L4000N	1200E	5047	PAD	Van Geo Labs	73-79-017	Soil				35		55	1973
	667421	6238008			L4000N	1400E	5047	PAD	Van Geo Labs	73-79-017	Soil				18		40	1973
	667473	6237975			L4000N	1600E	5047	PAD	Van Geo Labs	73-79-017	Soil				75		115	1973
	667111	6238201			L4000N	200E	5047	PAD	Van Geo Labs	73-79-017	Soil				600		160	1973
	667006	6238265			L4000N	200W	5047	PAD	Van Geo Labs	73-79-017	Soil				22		85	1973
	667163	6238168			L4000N	400E	5047	PAD	Van Geo Labs	73-79-017	Soil				57		100	1973
	667214	6238136			L4000N	600E	5047	PAD	Van Geo Labs	73-79-017	Soil				NS		NS	1973
	667266	6238104			L4000N	800E	5047	PAD	Van Geo Labs	73-79-017	Soil				95		90	1973
	667197	6238455			L4800N	0E	5047	PAD	Van Geo Labs	73-79-017	Soil				24		95	1973
	667454	6238294			L4800N	1000E	5047	PAD	Van Geo Labs	73-79-017	Soil				15		70	1973
	666938	6238616			L4800N	1000W	5047	PAD	Van Geo Labs	73-79-017	Soil				34		105	1973
	667505	6238262			L4800N	1200E	5047	PAD	Van Geo Labs	73-79-017	Soil				7		80	1973
	666886	6238648			L4800N	1200W	5047	PAD	Van Geo Labs	73-79-017	Soil				22		170	1973
	667556	6238230			L4800N	1400E	5047	PAD	Van Geo Labs	73-79-017	Soil				23		81	1973
	666834	6238680			L4800N	1400W	5047	PAD	Van Geo Labs	73-79-017	Soil				25		100	1973
	667607	6238198			L4800N	1600E	5047	PAD	Van Geo Labs	73-79-017	Soil				34		75	1973
	666783	6238712			L4800N	1600W	5047	PAD	Van Geo Labs	73-79-017	Soil				59		95	1973
	667249	6238423			L4800N	200E	5047	PAD	Van Geo Labs	73-79-017	Soil				17		35	1973
	667146	6238487			L4800N	200W	5047	PAD	Van Geo Labs	73-79-017	Soil				140		95	1973
	667300	6238391			L4800N	400E	5047	PAD	Van Geo Labs	73-79-017	Soil				107		150	1973
	667094	6238519			L4800N	400W	5047	PAD	Van Geo Labs	73-79-017	Soil				47		95	1973
	667351	6238359			L4800N	600E	5047	PAD	Van Geo Labs	73-79-017	Soil				20		80	1973
	667042	6238551			L4800N	600W	5047	PAD	Van Geo Labs	73-79-017	Soil				68		115	1973
	667402	6238326			L4800N	800E	5047	PAD	Van Geo Labs	73-79-017	Soil				27		75	1973
	666990	6238583			L4800N	800W	5047	PAD	Van Geo Labs	73-79-017	Soil				81		70	1973
	667335	6238677			L5600N	0E	5047	PAD	Van Geo Labs	73-79-017	Soil				23		160	1973
	667593	6238516			L5600N	1000E	5047	PAD	Van Geo Labs	73-79-017	Soil				17		112	1973
	667076	6238836			L5600N	1000W	5047	PAD	Van Geo Labs	73-79-017	Soil				17		195	1973
	667645	6238484			L5600N	1200E	5047	PAD	Van Geo Labs	73-79-017	Soil				32		180	1973
	667024	6238868			L5600N	1200W	5047	PAD	Van Geo Labs	73-79-017	Soil				184		150	1973
	667696	6238452			L5600N	1400E	5047	PAD	Van Geo Labs	73-79-017	Soil				23		90	1973
	666973	6238900			L5600N	1400W	5047	PAD	Van Geo Labs	73-79-017	Soil				48		100	1973
	667748	6238419			L5600N	1600E	5047	PAD	Van Geo Labs	73-79-017	Soil				20		65	1973
	666921	6238932			L5600N	1600W	5047	PAD	Van Geo Labs	73-79-017	Soil				41		115	1973
	667387	6238645			L5600N	200E	5047	PAD	Van Geo Labs	73-79-017	Soil				14		95	1973
	667283	6238709			L5600N	200W	5047	PAD	Van Geo Labs	73-79-017	Soil				11		60	1973
	667438	6238612			L5600N	400E	5047	PAD	Van Geo Labs	73-79-017	Soil				29		120	1973
	667232	6238740			L5600N	400W	5047	PAD	Van Geo Labs	73-79-017	Soil				12		230	1973
	667490	6238580			L5600N	600E	5047	PAD	Van Geo Labs	73-79-017	Soil				14		61	1973
	667180	6238772			L5600N	600W	5047	PAD	Van Geo Labs	73-79-017	Soil				36		115	1973
	667541	6238548			L5600N	800E	5047	PAD	Van Geo Labs	73-79-017	Soil				39		130	1973
	667128	6238804			L5600N	800W	5047	PAD	Van Geo Labs	73-79-017	Soil				12		140	1973
	667474	6238896			L6400N	0E	5047	PAD	Van Geo Labs	73-79-017	Soil				48		110	1973
	667733	6238736			L6400N	1000E	5047	PAD	Van Geo Labs	73-79-017	Soil				27		100	1973
	667215	6239058			L6400N	1000W	5047	PAD	Van Geo Labs	73-79-017	Soil				27		85	1973
	667784	6238704			L6400N	1200E	5047	PAD	Van Geo Labs	73-79-017	Soil				12		70	1973
	667163	6239090			L6400N	1200W	5047	PAD	Van Geo Labs	73-79-017	Soil				15		120	1973
	667836	6238672			L6400N	1400E	5047	PAD	Van Geo Labs	73-79-017	Soil				44		115	1973
	667112	6239122			L6400N	1400W	5047	PAD	Van Geo Labs	73-79-017	Soil				68		120	1973
	667887	6238640			L6400N	1600E	5047	PAD	Van Geo Labs	73-79-017	Soil				55		110	1973

# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR
667060		6239155			L6400N	1600W	5047	PAD	Van Geo Labs	73-79-017	Soil				35		150	1973
667526		6238864			L6400N	200E	5047	PAD	Van Geo Labs	73-79-017	Soil				75		125	1973
667423		6238928			L6400N	200W	5047	PAD	Van Geo Labs	73-79-017	Soil				112		150	1973
667578		6238832			L6400N	400E	5047	PAD	Van Geo Labs	73-79-017	Soil				65		170	1973
667371		6238960			L6400N	400W	5047	PAD	Van Geo Labs	73-79-017	Soil				75		105	1973
667629		6238800			L6400N	600E	5047	PAD	Van Geo Labs	73-79-017	Soil				1430		150	1973
667319		6238993			L6400N	600W	5047	PAD	Van Geo Labs	73-79-017	Soil				31		71	1973
667681		6238768			L6400N	800E	5047	PAD	Van Geo Labs	73-79-017	Soil				67		90	1973
667267		6239025			L6400N	800W	5047	PAD	Van Geo Labs	73-79-017	Soil				480		98	1973
667612		6239116			L7200N	0E	5047	PAD	Van Geo Labs	73-79-017	Soil				76		160	1973
667870		6238956			L7200N	1000E	5047	PAD	Van Geo Labs	73-79-017	Soil				20		80	1973
667353		6239278			L7200N	1000W	5047	PAD	Van Geo Labs	73-79-017	Soil				59		235	1973
667921		6238924			L7200N	1200E	5047	PAD	Van Geo Labs	73-79-017	Soil				44		115	1973
667301		6239310			L7200N	1200W	5047	PAD	Van Geo Labs	73-79-017	Soil				89		140	1973
667973		6238892			L7200N	1400E	5047	PAD	Van Geo Labs	73-79-017	Soil				46		135	1973
667249		6239343			L7200N	1400W	5047	PAD	Van Geo Labs	73-79-017	Soil				56		140	1973
668024		6238860			L7200N	1600E	5047	PAD	Van Geo Labs	73-79-017	Soil				28		92	1973
667197		6239375			L7200N	1600W	5047	PAD	Van Geo Labs	73-79-017	Soil				20		142	1973
667663		6239084			L7200N	200E	5047	PAD	Van Geo Labs	73-79-017	Soil				44		132	1973
667560		6239148			L7200N	200W	5047	PAD	Van Geo Labs	73-79-017	Soil				52		115	1973
667715		6239052			L7200N	400E	5047	PAD	Van Geo Labs	73-79-017	Soil				38		65	1973
667508		6239181			L7200N	400W	5047	PAD	Van Geo Labs	73-79-017	Soil				52		128	1973
667767		6239020			L7200N	600E	5047	PAD	Van Geo Labs	73-79-017	Soil				42		110	1973
667456		6239213			L7200N	600W	5047	PAD	Van Geo Labs	73-79-017	Soil				44		110	1973
667818		6238988			L7200N	800E	5047	PAD	Van Geo Labs	73-79-017	Soil				52		142	1973
667404		6239246			L7200N	800W	5047	PAD	Van Geo Labs	73-79-017	Soil				102		150	1973
667751		6239339			L8000N	0E	5047	PAD	Van Geo Labs	73-79-017	Soil				41		105	1973
668010		6239177			L8000N	1000E	5047	PAD	Van Geo Labs	73-79-017	Soil				44		105	1973
667493		6239500			L8000N	1000W	5047	PAD	Van Geo Labs	73-79-017	Soil				72		120	1973
668061		6239144			L8000N	1200E	5047	PAD	Van Geo Labs	73-79-017	Soil				38		110	1973
667441		6239532			L8000N	1200W	5047	PAD	Van Geo Labs	73-79-017	Soil				42		118	1973
668113		6239112			L8000N	1400E	5047	PAD	Van Geo Labs	73-79-017	Soil				68		220	1973
667390		6239564			L8000N	1400W	5047	PAD	Van Geo Labs	73-79-017	Soil				81		155	1973
668165		6239080			L8000N	1600E	5047	PAD	Van Geo Labs	73-79-017	Soil				68		100	1973
667338		6239596			L8000N	1600W	5047	PAD	Van Geo Labs	73-79-017	Soil				47		180	1973
667802		6239307			L8000N	200E	5047	PAD	Van Geo Labs	73-79-017	Soil				47		185	1973
667699		6239371			L8000N	200W	5047	PAD	Van Geo Labs	73-79-017	Soil				64		105	1973
667854		6239274			L8000N	400E	5047	PAD	Van Geo Labs	73-79-017	Soil				117		180	1973
667648		6239403			L8000N	400W	5047	PAD	Van Geo Labs	73-79-017	Soil				37		170	1973
667906		6239242			L8000N	600E	5047	PAD	Van Geo Labs	73-79-017	Soil				42		105	1973
667596		6239436			L8000N	600W	5047	PAD	Van Geo Labs	73-79-017	Soil				45		150	1973
667958		6239209			L8000N	800E	5047	PAD	Van Geo Labs	73-79-017	Soil				21		110	1973
667544		6239468			L8000N	800W	5047	PAD	Van Geo Labs	73-79-017	Soil				70		130	1973
660757		6242063			BL0E	1000N	5048	LIZ	Van Geo Labs	73-79-023	Soil				120		73	1973
660776		6242119			BL0E	1200N	5048	LIZ	Van Geo Labs	73-79-023	Soil				82		72	1973
660795		6242175			BL0E	1400N	5048	LIZ	Van Geo Labs	73-79-023	Soil				65		30	1973
660833		6242288			BL0E	1800N	5048	LIZ	Van Geo Labs	73-79-023	Soil				95		100	1973
660852		6242345			BL0E	2000N	5048	LIZ	Van Geo Labs	73-79-023	Soil				35		53	1973
660683		6241837			BL0E	200N	5048	LIZ	Van Geo Labs	73-79-023	Soil				85		76	1973
660870		6242402			BL0E	2200N	5048	LIZ	Van Geo Labs	73-79-023	Soil				45		56	1973
660908		6242514			BL0E	2600N	5048	LIZ	Van Geo Labs	73-79-023	Soil				35		63	1973
660927		6242570			BL0E	2800N	5048	LIZ	Van Geo Labs	73-79-023	Soil				40		48	1973
660947		6242626			BL0E	3000N	5048	LIZ	Van Geo Labs	73-79-023	Soil				75		130	1973
660984		6242737			BL0E	3400N	5048	LIZ	Van Geo Labs	73-79-023	Soil				80		118	1973
661003		6242793			BL0E	3600N	5048	LIZ	Van Geo Labs	73-79-023	Soil				57		55	1973
661022		6242849			BL0E	3800N	5048	LIZ	Van Geo Labs	73-79-023	Soil				145		77	1973
660701		6241894			BL0E	400N	5048	LIZ	Van Geo Labs	73-79-023	Soil				250		90	1973
661059		6242961			BL0E	4200N	5048	LIZ	Van Geo Labs	73-79-023	Soil				70		108	1973
661153		6243241			BL0E	5200N	5048	LIZ	Van Geo Labs	73-79-023	Soil				10		20	1973

# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR
	661172	6243298			BL0E	5400N	5048	LIZ	Van Geo Labs	73-79-023	Soil				30		72	1973
	660720	6241951			BL0E	600N	5048	LIZ	Van Geo Labs	73-79-023	Soil				60		71	1973
	661019	6243042			BL200W	4400N	5048	LIZ	Van Geo Labs	73-79-023	Soil				55		99	1973
	661052	6243092			BL200W	4600N	5048	LIZ	Van Geo Labs	73-79-023	Soil				41		67	1973
	661090	6243204			BL200W	5000N	5048	LIZ	Van Geo Labs	73-79-023	Soil				65		86	1973
	660943	6241667			L0000N	1000E	5048	LIZ	Van Geo Labs	73-79-023	Soil				86	NS		1973
	660380	6241898			L0000N	1000W	5048	LIZ	Van Geo Labs	73-79-023	Soil				168		118	1973
	660720	6241758			L0000N	200E	5048	LIZ	Van Geo Labs	73-79-023	Soil				220		75	1973
	660608	6241804			L0000N	200W	5048	LIZ	Van Geo Labs	73-79-023	Soil				140		55	1973
	660776	6241735			L0000N	400E	5048	LIZ	Van Geo Labs	73-79-023	Soil				82		76	1973
	660551	6241828			L0000N	400W	5048	LIZ	Van Geo Labs	73-79-023	Soil				53		91	1973
	660831	6241713			L0000N	600E	5048	LIZ	Van Geo Labs	73-79-023	Soil				130		98	1973
	660494	6241851			L0000N	600W	5048	LIZ	Van Geo Labs	73-79-023	Soil				200		144	1973
	660887	6241690			L0000N	800E	5048	LIZ	Van Geo Labs	73-79-023	Soil				101		67	1973
	660437	6241875			L0000N	800W	5048	LIZ	Van Geo Labs	73-79-023	Soil				155		114	1973
	660665	6241781			L0000N	BL0E	5048	LIZ	Van Geo Labs	73-79-023	Soil				185		95	1973
	660454	6242123			L0800N	1000W	5048	LIZ	Van Geo Labs	73-79-023	Soil				125		60	1973
	660793	6241984			L0800N	200E	5048	LIZ	Van Geo Labs	73-79-023	Soil				60		64	1973
	660681	6242031			L0800N	200W	5048	LIZ	Van Geo Labs	73-79-023	Soil				450		95	1973
	660849	6241961			L0800N	400E	5048	LIZ	Van Geo Labs	73-79-023	Soil				265		156	1973
	660624	6242054			L0800N	400W	5048	LIZ	Van Geo Labs	73-79-023	Soil				150		75	1973
	660905	6241938			L0800N	600E	5048	LIZ	Van Geo Labs	73-79-023	Soil				165		123	1973
	660567	6242077			L0800N	600W	5048	LIZ	Van Geo Labs	73-79-023	Soil				300		86	1973
	660960	6241915			L0800N	800E	5048	LIZ	Van Geo Labs	73-79-023	Soil				260		88	1973
	660511	6242100			L0800N	800W	5048	LIZ	Van Geo Labs	73-79-023	Soil				150		143	1973
	660738	6242007			L0800N	BL0E	5048	LIZ	Van Geo Labs	73-79-023	Soil				75		82	1973
	661092	6242116			L1600N	1000E	5048	LIZ	Van Geo Labs	73-79-023	Soil				115		95	1973
	660532	6242348			L1600N	1000W	5048	LIZ	Van Geo Labs	73-79-023	Soil				90		98	1973
	660475	6242371			L1600N	1200W	5048	LIZ	Van Geo Labs	73-79-023	Soil				42		42	1973
	660870	6242208			L1600N	200E	5048	LIZ	Van Geo Labs	73-79-023	Soil				900		163	1973
	660758	6242255			L1600N	200W	5048	LIZ	Van Geo Labs	73-79-023	Soil				80		78	1973
	660925	6242185			L1600N	400E	5048	LIZ	Van Geo Labs	73-79-023	Soil				165		68	1973
	660701	6242278			L1600N	400W	5048	LIZ	Van Geo Labs	73-79-023	Soil				40		101	1973
	660981	6242162			L1600N	600E	5048	LIZ	Van Geo Labs	73-79-023	Soil				80		87	1973
	660645	6242301			L1600N	600W	5048	LIZ	Van Geo Labs	73-79-023	Soil				37		52	1973
	661036	6242139			L1600N	800E	5048	LIZ	Van Geo Labs	73-79-023	Soil				20		28	1973
	660588	6242325			L1600N	800W	5048	LIZ	Van Geo Labs	73-79-023	Soil				60		67	1973
	660814	6242231			L1600N	BL0E	5048	LIZ	Van Geo Labs	73-79-023	Soil				760		102	1973
	660606	6242572			L2400N	1000W	5048	LIZ	Van Geo Labs	73-79-023	Soil				160		112	1973
	660549	6242595			L2400N	1200W	5048	LIZ	Van Geo Labs	73-79-023	Soil				51		56	1973
	660945	6242435			L2400N	200E	5048	LIZ	Van Geo Labs	73-79-023	Soil				70		74	1973
	660832	6242481			L2400N	200W	5048	LIZ	Van Geo Labs	73-79-023	Soil				40		81	1973
	661001	6242412			L2400N	400E	5048	LIZ	Van Geo Labs	73-79-023	Soil				51		102	1973
	660776	6242504			L2400N	400W	5048	LIZ	Van Geo Labs	73-79-023	Soil				55		66	1973
	661056	6242388			L2400N	600E	5048	LIZ	Van Geo Labs	73-79-023	Soil				82		96	1973
	660719	6242527			L2400N	600W	5048	LIZ	Van Geo Labs	73-79-023	Soil				55		83	1973
	660662	6242550			L2400N	800W	5048	LIZ	Van Geo Labs	73-79-023	Soil				205		138	1973
	660889	6242459			L2400N	BL0E	5048	LIZ	Van Geo Labs	73-79-023	Soil				90		90	1973
	660681	6242798			L3200N	1000W	5048	LIZ	Van Geo Labs	73-79-023	Soil				80		72	1973
	660624	6242821			L3200N	1200W	5048	LIZ	Van Geo Labs	73-79-023	Soil				80		123	1973
	661021	6242659			L3200N	200E	5048	LIZ	Van Geo Labs	73-79-023	Soil				40		65	1973
	660909	6242705			L3200N	200W	5048	LIZ	Van Geo Labs	73-79-023	Soil				65		100	1973
	661077	6242635			L3200N	400E	5048	LIZ	Van Geo Labs	73-79-023	Soil				70		117	1973
	660852	6242728			L3200N	400W	5048	LIZ	Van Geo Labs	73-79-023	Soil				60		96	1973
	661132	6242612			L3200N	600E	5048	LIZ	Van Geo Labs	73-79-023	Soil				420		112	1973
	660795	6242751			L3200N	600W	5048	LIZ	Van Geo Labs	73-79-023	Soil				48		113	1973
	660738	6242774			L3200N	800W	5048	LIZ	Van Geo Labs	73-79-023	Soil				20		44	1973
	660966	6242682			L3200N	BL0E	5048	LIZ	Van Geo Labs	73-79-023	Soil				40		66	1973
	660757	6243022			L4000N	1000W	5048	LIZ	Van Geo Labs	73-79-023	Soil				165		108	1973

# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR	
	660700	6243045			L4000N	1200W	5048	LIZ	Van Geo Labs	73-79-023	Soil				55		60	1973	
	660643	6243069			L4000N	1400W	5048	LIZ	Van Geo Labs	73-79-023	Soil				43		112	1973	
	660984	6242928			L4000N	200W	5048	LIZ	Van Geo Labs	73-79-023	Soil				30		42	1973	
	660927	6242951			L4000N	400W	5048	LIZ	Van Geo Labs	73-79-023	Soil				135		83	1973	
	660870	6242975			L4000N	600W	5048	LIZ	Van Geo Labs	73-79-023	Soil				50		90	1973	
	660813	6242998			L4000N	800W	5048	LIZ	Van Geo Labs	73-79-023	Soil				75		73	1973	
	661041	6242905			L4000N	BL0E	5048	LIZ	Van Geo Labs	73-79-023	Soil				150		54	1973	
	660833	6243246			L4800N	1000W	5048	LIZ	Van Geo Labs	73-79-023	Soil				25		81	1973	
	660777	6243269			L4800N	1200W	5048	LIZ	Van Geo Labs	73-79-023	Soil				45		118	1973	
	660721	6243293			L4800N	1400W	5048	LIZ	Van Geo Labs	73-79-023	Soil				32		93	1973	
	660664	6243316			L4800N	1600W	5048	LIZ	Van Geo Labs	73-79-023	Soil				26		100	1973	
	661058	6243153			L4800N	200W	5048	LIZ	Van Geo Labs	73-79-023	Soil				70		115	1973	
	661002	6243176			L4800N	400W	5048	LIZ	Van Geo Labs	73-79-023	Soil				62		90	1973	
	660946	6243200			L4800N	600W	5048	LIZ	Van Geo Labs	73-79-023	Soil				31		76	1973	
	660890	6243223			L4800N	800W	5048	LIZ	Van Geo Labs	73-79-023	Soil				20		142	1973	
	661471	6243240			L5600N	1000E	5048	LIZ	Van Geo Labs	73-79-023	Soil				45		97	1973	
	660907	6243471			L5600N	1000W	5048	LIZ	Van Geo Labs	73-79-023	Soil				45		65	1973	
	661527	6243217			L5600N	1200E	5048	LIZ	Van Geo Labs	73-79-023	Soil				52		96	1973	
	660851	6243494			L5600N	1200W	5048	LIZ	Van Geo Labs	73-79-023	Soil				90		93	1973	
	661583	6243194			L5600N	1400E	5048	LIZ	Van Geo Labs	73-79-023	Soil				53		92	1973	
	660794	6243518			L5600N	1400W	5048	LIZ	Van Geo Labs	73-79-023	Soil				40		157	1973	
	661639	6243171			L5600N	1600E	5048	LIZ	Van Geo Labs	73-79-023	Soil				46		80	1973	
	660737	6243541			L5600N	1600W	5048	LIZ	Van Geo Labs	73-79-023	Soil				40		95	1973	
	661247	6243331			L5600N	200E	5048	LIZ	Van Geo Labs	73-79-023	Soil				15		48	1973	
	661134	6243377			L5600N	200W	5048	LIZ	Van Geo Labs	73-79-023	Soil				45		91	1973	
	661303	6243308			L5600N	400E	5048	LIZ	Van Geo Labs	73-79-023	Soil				25		61	1973	
	661077	6243400			L5600N	400W	5048	LIZ	Van Geo Labs	73-79-023	Soil				37		83	1973	
	661359	6243285			L5600N	600E	5048	LIZ	Van Geo Labs	73-79-023	Soil				31		62	1973	
	661021	6243424			L5600N	600W	5048	LIZ	Van Geo Labs	73-79-023	Soil				26		81	1973	
	661415	6243262			L5600N	800E	5048	LIZ	Van Geo Labs	73-79-023	Soil				27		56	1973	
	660964	6243447			L5600N	800W	5048	LIZ	Van Geo Labs	73-79-023	Soil				16		86	1973	
	661191	6243353			L5600N	BL0E	5048	LIZ	Van Geo Labs	73-79-023	Soil				11		35	1973	
867186	670548	6232988					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	1	<0.1	2	0.015	16	2008	
871991	670370	6232794					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	<0.5	<0.1	2	0.039	27	2008	
867185	670524	6232991					30732	ARP	Acme	SMI08000701.1	Soil	0.2	<0.5	<0.1	3	0.027	39	2008	
867187	670574	6232986					30732	ARP	Acme	SMI08000701.1	Soil	0.2	<0.5	<0.1	3	0.017	48	2008	
867189	670624	6232985					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	1	<0.1	3	0.025	29	2008	
867198	670850	6232994					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	2	<0.1	3	0.013	13	2008	
867459	670647	6232598					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	1	<0.1	3	0.063	20	2008	
867461	670698	6232597					30732	ARP	Acme	SMI08000702.1	Soil		0	1	<0.1	3	0.042	12	2008
867757	670970	6232795					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	<0.5	<0.1	3	0.037	80	2008	
871980	670098	6232798					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	1	<0.1	3	0.03	23	2008	
871996	670497	6232780					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	3	0.1	3	0.066	20	2008	
848444	670899	6233204					30732	ARP	Acme	SMI08000701.1	Soil	0.2	2	<0.1	4	0.045	36	2008	
867188	670599	6232986					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	1	<0.1	4	0.014	58	2008	
867471	670952	6232599					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	1	<0.1	4	0.053	37	2008	
867756	670946	6232793					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	0.1	<0.5	<0.1	4	0.074	24	2008
871992	670396	6232788					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	<0.5	0.1	4	0.036	84	2008	
871993	670420	6232784					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	8	<0.1	4	0.021	30	2008	
871999	670755	6232780					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	2	<0.1	4	0.032	13	2008	
867759	670974	6232200					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	1	<0.1	4	0.034	28	2008	
867760	670949	6232200					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	2	<0.1	4	0.079	21	2008	
848442	670850	6233196					30732	ARP	Acme	SMI08000701.1	Soil	0.1	<0.5	<0.1	5	0.042	40	2008	
867473	670999	6232598					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	<0.5	<0.1	5	0.042	28	2008	
867808	669647	6233041					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	1	<0.1	5	0.076	94	2008	
871583	670622	6234214					30732	ARP	Acme	SMI08000695.1	Soil	0.2	8	<0.1	6	0.03	22	2008	
848443	670876	6233204					30732	ARP	Acme	SMI08000701.1	Soil	0.2	2	<0.1	6	0.057	49	2008	
866952	670312	6232397					30732	ARP	Acme	SMI08000701.1	Soil	0.2	3	<0.1	6	0.038	17	2008	
866970	670754	6232395					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	<0.5	<0.1	6	0.078	45	2008	

# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR
866978	670956	6232394					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	1	<0.1	6	0.082	43	2008
866979	670980	6232395					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	4	<0.1	6	0.1	48	2008
867439	670121	6232600					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	5	<0.1	6	0.084	37	2008
867457	670600	6232597					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	1	<0.1	6	0.03	35	2008
867753	670846	6232784					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	<0.5	<0.1	6	0.075	68	2008
871995	670472	6232784					30732	ARP	Acme	SMI08000702.1	Soil	0.1	<0.5	<0.1	6	0.053	36	2008
871060	670588	6233417					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	2	<0.1	6	0.025	15	2008
871067	670734	6233523					30732	ARP	Acme	SMI08000732.1	Soil	0.4	48	<0.1	6	0.022	17	2008
866976	670906	6232395					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	2	<0.1	7	0.049	57	2008
867170	670149	6233002					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	<0.5	0.2	7	0.116	111	2008
867467	670849	6232600					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	1	<0.1	7	0.089	91	2008
867762	670901	6232199					30732	ARP	Acme	SMI08000731.1	Soil	0.2	<0.5	0.2	7	0.065	27	2008
871590	670797	6234214					30732	ARP	Acme	SMI08000695.1	Soil	0.3	3	<0.1	8	0.053	30	2008
871873	670725	6233381					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	91	<0.1	8	0.035	26	2008
872136	670849	6233987					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	4	<0.1	8	0.032	24	2008
866967	670676	6232396					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	<0.5	0.1	8	0.065	29	2008
867182	670446	6232989					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	2	<0.1	8	0.023	37	2008
867468	670873	6232598					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	2	<0.1	8	0.194	98	2008
870397	670727	6233197					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	2	<0.1	8	0.029	31	2008
867761	670925	6232199					30732	ARP	Acme	SMI08000731.1	Soil	0.1	<0.5	0.1	8	0.054	27	2008
867766	670800	6232194					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	1	<0.1	8	0.076	27	2008
848446	670954	6233202					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	27	<0.1	9	0.033	56	2008
867426	669798	6232597					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	2	0.1	9	0.085	50	2008
867456	670572	6232596					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	4	<0.1	9	0.065	73	2008
867764	670851	6232195					30732	ARP	Acme	SMI08000731.1	Soil	0.1	<0.5	<0.1	9	0.074	32	2008
867784	670314	6232203					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	2	<0.1	9	0.069	41	2008
852101	670619	6233815					30732	ARP	Acme	SMI08000695.1	Soil	0.2	<0.5	<0.1	10	0.053	39	2008
852125	671206	6233806					30732	ARP	Acme	SMI08000695.1	Soil	0.2	1	<0.1	10	0.052	36	2008
871578	670495	6234206					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	<0.5	<0.1	10	0.041	22	2008
871894	671251	6233391					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	<0.5	<0.1	10	0.027	34	2008
848447	670977	6233198					30732	ARP	Acme	SMI08000701.1	Soil	0.1	<0.5	<0.1	10	0.046	55	2008
866971	670781	6232395					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	<0.5	<0.1	10	0.065	42	2008
866977	670931	6232394					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	1	<0.1	10	0.089	42	2008
870396	670700	6233208					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	3	<0.1	10	0.024	36	2008
871983	670172	6232798					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	7	<0.1	10	0.05	31	2008
867049	670654	6233446					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	2	<0.1	10	0.023	23	2008
867763	670876	6232198					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	1	0.1	10	0.056	40	2008
867767	670775	6232195					30732	ARP	Acme	SMI08000731.1	Soil	0.1	<0.5	<0.1	10	0.097	35	2008
871586	670697	6234213					30732	ARP	Acme	SMI08000695.1	Soil	0.1	1	<0.1	11	0.046	41	2008
871872	670700	6233383					30732	ARP	Acme	SMI08000695.1	Soil	0.1	28	<0.1	11	0.023	30	2008
871893	671225	6233394					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	<0.5	<0.1	11	0.029	39	2008
867472	670976	6232597					30732	ARP	Acme	SMI08000702.1	Soil	0.2	2	<0.1	11	0.068	42	2008
870331	669938	6233223					30732	ARP	Acme	SMI08000702.1	Soil	0.2	1	0.1	11	0.057	17	2008
871990	670346	6232788					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	2	<0.1	11	0.039	48	2008
852105	670718	6233823					30732	ARP	Acme	SMI08000695.1	Soil	0.2	2	<0.1	12	0.052	40	2008
871582	670594	6234215					30732	ARP	Acme	SMI08000695.1	Soil	0.2	17	<0.1	12	0.033	24	2008
871585	670672	6234212					30732	ARP	Acme	SMI08000695.1	Soil	0.2	3	<0.1	12	0.027	46	2008
866961	670521	6232398					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	1	0.1	12	0.074	71	2008
867460	670674	6232598					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	<0.5	<0.1	12	0.076	28	2008
867752	670824	6232768					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	<0.5	<0.1	12	0.083	81	2008
871994	670448	6232784					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	2	<0.1	12	0.06	64	2008
871997	670627	6232773					30732	ARP	Acme	SMI08000702.1	Soil	0.2	10	0.1	12	0.085	20	2008
871072	670858	6233567					30732	ARP	Acme	SMI08000732.1	Soil	0.1	2	<0.1	12	0.035	26	2008
852078	670065	6233798					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	1	0.1	13	0.079	31	2008
852092	670402	6233814					30732	ARP	Acme	SMI08000695.1	Soil	0.2	3	<0.1	13	0.064	41	2008
852122	671131	6233804					30732	ARP	Acme	SMI08000695.1	Soil	0.3	2	<0.1	13	0.05	37	2008
872047	670708	6233629					30732	ARP	Acme	SMI08000695.1	Soil	0.2	1	0.2	13	0.058	45	2008
872128	670648	6233984					30732	ARP	Acme	SMI08000695.1	Soil	0.1	33	<0.1	13	0.122	75	2008
866960	670497	6232400					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	2	<0.1	13	0.088	22	2008



# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR
867169	670121	6233004					30732	ARP	Acme	SMI08000701.1	Soil	0.1	3	<0.1	13	0.063	38	2008
867184	670496	6232992					30732	ARP	Acme	SMI08000701.1	Soil	0.3	1	0.1	13	0.094	70	2008
867448	670347	6232598					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	4	0.1	13	0.066	90	2008
867449	670375	6232599					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	1	0.1	13	0.119	49	2008
871984	670198	6232789					30732	ARP	Acme	SMI08000702.1	Soil	0.1	7	<0.1	13	0.048	65	2008
871986	670248	6232791					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	13	<0.1	13	0.04	57	2008
883676	669103	6232788					30732	ARP	Acme	SMI08000702.1	Soil	0.1	2	0.1	13	0.045	36	2008
852096	670496	6233816					30732	ARP	Acme	SMI08000695.1	Soil	0.2	3	<0.1	14	0.091	46	2008
852119	671063	6233812					30732	ARP	Acme	SMI08000695.1	Soil	0.2	<0.5	<0.1	14	0.054	49	2008
871609	671260	6234239					30732	ARP	Acme	SMI08000695.1	Soil	0.2	4	<0.1	14	0.044	60	2008
871885	671025	6233386					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	4	<0.1	14	0.106	54	2008
871895	671274	6233390					30732	ARP	Acme	SMI08000695.1	Soil	0.1	1	<0.1	14	0.027	35	2008
866953	670335	6232395					30732	ARP	Acme	SMI08000701.1	Soil	0.2	3	<0.1	14	0.046	47	2008
866959	670477	6232403					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	2	0.2	14	0.053	26	2008
867196	670799	6232991					30732	ARP	Acme	SMI08000701.1	Soil	0.2	9	0.1	14	0.039	46	2008
867462	670724	6232597					30732	ARP	Acme	SMI08000702.1	Soil	0	2	0.4	14	0.196	70	2008
867750	670779	6232772					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	1	0.2	14	0.162	62	2008
870391	670579	6233202					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	1	0.1	14	0.072	99	2008
852090	670353	6233813					30732	ARP	Acme	SMI08000695.1	Soil	0.2	1	<0.1	15	0.054	38	2008
852109	670816	6233830					30732	ARP	Acme	SMI08000695.1	Soil	0.2	4	<0.1	15	0.073	56	2008
872028	670233	6233607					30732	ARP	Acme	SMI08000695.1	Soil	0.2	1	<0.1	15	0.076	41	2008
872109	670173	6233989					30732	ARP	Acme	SMI08000695.1	Soil	0.2	5	<0.1	15	0.058	50	2008
848441	670824	6233199					30732	ARP	Acme	SMI08000701.1	Soil	0.2	42	0.1	15	0.027	42	2008
866972	670805	6232394					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	<0.5	<0.1	15	0.053	19	2008
867109	669826	6233809					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	1	<0.1	15	0.055	37	2008
867372	669955	6233400					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	3	<0.1	15	0.058	41	2008
867453	670499	6232597					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	2	<0.1	15	0.109	111	2008
867786	670258	6232203					30732	ARP	Acme	SMI08000731.1	Soil	0.1	40	<0.1	15	0.105	52	2008
867809	669655	6233060					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	<0.5	<0.1	15	0.046	48	2008
852091	670378	6233810					30732	ARP	Acme	SMI08000695.1	Soil	0.3	1	<0.1	16	0.048	41	2008
871596	670941	6234218					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	<0.5	<0.1	16	0.101	44	2008
871884	670999	6233387					30732	ARP	Acme	SMI08000695.1	Soil	0.1	1	<0.1	16	0.059	56	2008
872110	670199	6233988					30732	ARP	Acme	SMI08000695.1	Soil	0.2	4	0.2	16	0.067	55	2008
872152	670048	6233396					30732	ARP	Acme	SMI08000695.1	Soil	0.2	14	<0.1	16	0.049	47	2008
866951	670288	6232396					30732	ARP	Acme	SMI08000701.1	Soil	0.1	3	0.1	16	0.047	54	2008
866975	670881	6232396					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	1	<0.1	16	0.088	41	2008
867458	670622	6232597					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	2	0.1	16	0.184	66	2008
871979	670072	6232801					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	1	<0.1	16	0.07	38	2008
871572	670345	6234203					30732	ARP	Acme	SMI08000695.1	Soil	0.1	17	0.2	17	0.037	58	2008
872137	670874	6233986					30732	ARP	Acme	SMI08000695.1	Soil	0.2	21	0.1	17	0.085	47	2008
867444	670245	6232595					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	8	0.2	17	0.067	62	2008
871069	670783	6233537					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	1	<0.1	17	0.033	42	2008
852076	670022	6233801					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	1	<0.1	18	0.04	32	2008
852079	670088	6233804					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	1	0.2	18	0.085	41	2008
852112	670890	6233828					30732	ARP	Acme	SMI08000695.1	Soil	0.1	2	<0.1	18	0.064	46	2008
872141	670975	6233989					30732	ARP	Acme	SMI08000695.1	Soil	0.2	2	<0.1	18	0.081	39	2008
848448	670998	6233196					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	64	<0.1	18	0.035	63	2008
867367	669824	6233401					30732	ARP	Acme	SMI08000701.1	Soil	0.1	1	<0.1	18	0.067	53	2008
867470	670922	6232597					30732	ARP	Acme	SMI08000702.1	Soil	0.1	1	0.2	18	0.23	54	2008
871989	670324	6232797					30732	ARP	Acme	SMI08000702.1	Soil	0.1	1	0.2	18	0.072	135	2008
871998	670702	6232775					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	3	<0.1	18	0.029	58	2008
849896	669928	6233232					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	2	<0.1	18	0.046	26	2008
849897	669939	6233255					30732	ARP	Acme	SMI08000731.1	Soil	0.1	2	0.1	18	0.048	52	2008
867052	670724	6233493					30732	ARP	Acme	SMI08000731.1	Soil	0.2	29	0.1	18	0.081	46	2008
867067	671099	6233663					30732	ARP	Acme	SMI08000731.1	Soil	0.2	3	<0.1	18	0.04	57	2008
867771	670674	6232189					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	2	<0.1	18	0.103	78	2008
852094	670450	6233812					30732	ARP	Acme	SMI08000695.1	Soil	0.3	1	<0.1	19	0.102	51	2008
871897	671325	6233395					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	3	<0.1	19	0.023	43	2008
872073	671334	6233633					30732	ARP	Acme	SMI08000695.1	Soil	0.2	2	<0.1	19	0.09	76	2008

# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR	
872114	670299	6233975					30732	ARP	Acme	SMI08000695.1	Soil	<0.1		3	<0.1	19	0.067	53	2008
867110	669801	6233807					30732	ARP	Acme	SMI08000701.1	Soil	0.1		1	0.2	19	0.056	43	2008
867772	670649	6232183					30732	ARP	Acme	SMI08000731.1	Soil	<0.1		3	<0.1	19	0.155	68	2008
871032	669904	6233242					30732	ARP	Acme	SMI08000732.1	Soil	<0.1		2	<0.1	19	0.036	81	2008
852080	670113	6233801					30732	ARP	Acme	SMI08000695.1	Soil	<0.1		3	0.2	20	0.034	62	2008
852085	670230	6233815					30732	ARP	Acme	SMI08000695.1	Soil	0.2	<0.5		0.1	20	0.044	51	2008
866946	670158	6232398					30732	ARP	Acme	SMI08000701.1	Soil	0.1		1	0.2	20	0.131	201	2008
867183	670474	6232989					30732	ARP	Acme	SMI08000701.1	Soil	<0.1		1	0.1	20	0.048	64	2008
867195	670774	6232989					30732	ARP	Acme	SMI08000701.1	Soil	<0.1		19	<0.1	20	0.027	31	2008
867446	670298	6232595					30732	ARP	Acme	SMI08000702.1	Soil	0.3		3	0.2	20	0.071	59	2008
867754	670869	6232772					30732	ARP	Acme	SMI08000702.1	Soil	<0.1		2	0.3	20	0.295	203	2008
870382	670361	6233208					30732	ARP	Acme	SMI08000702.1	Soil	0.1		14	<0.1	20	0.071	51	2008
867774	670598	6232180					30732	ARP	Acme	SMI08000731.1	Soil	<0.1		1	0.9	20	0.184	91	2008
867778	670497	6232185					30732	ARP	Acme	SMI08000731.1	Soil	<0.1		2	0.9	20	0.096	109	2008
871035	669953	6233302					30732	ARP	Acme	SMI08000732.1	Soil	<0.1		1	0.1	20	0.038	60	2008
871579	670520	6234206					30732	ARP	Acme	SMI08000695.1	Soil	0.2		2	0.1	21	0.092	46	2008
871896	671302	6233393					30732	ARP	Acme	SMI08000695.1	Soil	<0.1		1	<0.1	21	0.041	55	2008
872142	670998	6233991					30732	ARP	Acme	SMI08000695.1	Soil	0.2		2	<0.1	21	0.099	48	2008
866980	671005	6232394					30732	ARP	Acme	SMI08000701.1	Soil	<0.1		1	<0.1	21	0.116	67	2008
867438	670097	6232604					30732	ARP	Acme	SMI08000702.1	Soil	0.1		1	0.1	21	0.07	57	2008
867057	670856	6233528					30732	ARP	Acme	SMI08000731.1	Soil	<0.1		27	<0.1	21	0.051	54	2008
867765	670825	6232193					30732	ARP	Acme	SMI08000731.1	Soil	<0.1		1	<0.1	21	0.094	59	2008
867768	670749	6232193					30732	ARP	Acme	SMI08000731.1	Soil	<0.1		1	0.1	21	0.08	68	2008
871061	670605	6233440					30732	ARP	Acme	SMI08000732.1	Soil	<0.1		1	<0.1	21	0.03	41	2008
852087	670281	6233816					30732	ARP	Acme	SMI08000695.1	Soil	0.2		2	0.1	22	0.055	58	2008
871608	671237	6234232					30732	ARP	Acme	SMI08000695.1	Soil	0.2	<0.5		0.2	22	0.042	69	2008
866974	670856	6232395					30732	ARP	Acme	SMI08000701.1	Soil	<0.1		3	<0.1	22	0.085	35	2008
867112	669751	6233807					30732	ARP	Acme	SMI08000701.1	Soil	0.1		1	0.1	22	0.043	37	2008
867113	669725	6233809					30732	ARP	Acme	SMI08000701.1	Soil	0.1		2	0.1	22	0.064	46	2008
867366	669799	6233397					30732	ARP	Acme	SMI08000701.1	Soil	0.2		1	0.1	22	0.086	47	2008
870385	670433	6233208					30732	ARP	Acme	SMI08000702.1	Soil	<0.1		7	<0.1	22	0.049	52	2008
870387	670478	6233198					30732	ARP	Acme	SMI08000702.1	Soil	<0.1		4	<0.1	22	0.082	48	2008
871981	670123	6232800					30732	ARP	Acme	SMI08000702.1	Soil	<0.1		4	0.1	22	0.036	64	2008
867048	670631	6233441					30732	ARP	Acme	SMI08000731.1	Soil	<0.1		3	<0.1	22	0.061	39	2008
867131	669175	6233808					30732	ARP	Acme	SMI08000701.1	Soil	<0.1		1	0.1	22	0.095	48	2008
852103	670667	6233816					30732	ARP	Acme	SMI08000695.1	Soil	0.1		4	<0.1	23	0.092	51	2008
852106	670743	6233822					30732	ARP	Acme	SMI08000695.1	Soil	<0.1		3	0.1	23	0.068	62	2008
852115	670961	6233818					30732	ARP	Acme	SMI08000695.1	Soil	<0.1		5	0.2	23	0.068	59	2008
871559	670022	6234198					30732	ARP	Acme	SMI08000695.1	Soil	0.2		3	0.2	23	0.101	68	2008
872107	670124	6233989					30732	ARP	Acme	SMI08000695.1	Soil	0.2		3	0.3	23	0.058	76	2008
866966	670648	6232395					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	<0.5		<0.1	23	0.071	83	2008
866973	670829	6232397					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	<0.5		<0.1	23	0.09	29	2008
867064	671018	6233611					30732	ARP	Acme	SMI08000731.1	Soil	<0.1		24	0.1	23	0.055	69	2008
871074	670918	6233569					30732	ARP	Acme	SMI08000732.1	Soil	0.3		3	0.2	23	0.047	53	2008
867123	669475	6233811					30732	ARP	Acme	SMI08000701.1	Soil	0.2		3	0.2	23	0.138	38	2008
867141	669172	6233403					30732	ARP	Acme	SMI08000701.1	Soil	<0.1		6	<0.1	23	0.068	56	2008
884916	669379	6233598					30732	ARP	Acme	SMI08000702.1	Soil	<0.1		2	<0.1	23	0.114	79	2008
852108	670792	6233822					30732	ARP	Acme	SMI08000695.1	Soil	0.1		1	<0.1	24	0.066	60	2008
871560	670047	6234205					30732	ARP	Acme	SMI08000695.1	Soil	0.2		3	0.2	24	0.075	45	2008
871561	670073	6234204					30732	ARP	Acme	SMI08000695.1	Soil	0.2		2	0.2	24	0.055	73	2008
871605	671162	6234226					30732	ARP	Acme	SMI08000695.1	Soil	0		2	0.1	24	0.079	55	2008
872125	670576	6233980					30732	ARP	Acme	SMI08000695.1	Soil	0.4		5	0.1	24	0.046	55	2008
872127	670624	6233982					30732	ARP	Acme	SMI08000695.1	Soil	0.2		12	<0.1	24	0.12	74	2008
851444	669856	6233597					30732	ARP	Acme	SMI08000701.1	Soil	0.2		1	<0.1	24	0.074	44	2008
867179	670374	6232992					30732	ARP	Acme	SMI08000701.1	Soil	0.2		2	0.2	24	0.049	79	2008
867430	669900	6232596					30732	ARP	Acme	SMI08000702.1	Soil	0.3		2	<0.1	24	0.083	36	2008
870398	670746	6233201					30732	ARP	Acme	SMI08000702.1	Soil	0.3		1	0.2	24	0.038	65	2008
867773	670623	6232180					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	<0.5		0.2	24	0.1	49	2008
852100	670594	6233814					30732	ARP	Acme	SMI08000695.1	Soil	0.1		2	<0.1	25	0.098	70	2008

# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR
866936	669909	6232385					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	2	0.1	25	0.071	38	2008
866969	670727	6232396					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	<0.5	0.1	25	0.076	55	2008
867172	670198	6233001					30732	ARP	Acme	SMI08000701.1	Soil	0.3	2	0.1	25	0.095	74	2008
867365	669773	6233403					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	<0.5	<0.1	25	0.04	43	2008
867466	670822	6232596					30732	ARP	Acme	SMI08000702.1	Soil	0.1	6	<0.1	25	0.038	53	2008
867469	670896	6232598					30732	ARP	Acme	SMI08000702.1	Soil	0.2	2	<0.1	25	0.083	71	2008
884918	669330	6233598					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	2	<0.1	25	0.089	66	2008
852086	670255	6233813					30732	ARP	Acme	SMI08000695.1	Soil	0.2	3	<0.1	26	0.062	71	2008
871571	670321	6234202					30732	ARP	Acme	SMI08000695.1	Soil	0.2	6	<0.1	26	0.086	77	2008
871599	671017	6234219					30732	ARP	Acme	SMI08000695.1	Soil	0	<0.5	<0.1	26	0.164	62	2008
871892	671203	6233388					30732	ARP	Acme	SMI08000695.1	Soil	0.1	2	0.1	26	0.057	82	2008
872072	671310	6233633					30732	ARP	Acme	SMI08000695.1	Soil	0.3	2	<0.1	26	0.303	65	2008
866948	670207	6232398					30732	ARP	Acme	SMI08000701.1	Soil	0.6	15	0.1	26	0.064	37	2008
867103	669977	6233803					30732	ARP	Acme	SMI08000701.1	Soil	0.1	1	0.3	26	0.039	46	2008
871051	670366	6233408					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	2	0.1	26	0.038	58	2008
871070	670803	6233550					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	2	<0.1	26	0.037	43	2008
852088	670304	6233812					30732	ARP	Acme	SMI08000695.1	Soil	0.2	<0.5	<0.1	27	0.061	69	2008
852129	671300	6233809					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	3	<0.1	27	0.12	76	2008
871564	670146	6234202					30732	ARP	Acme	SMI08000695.1	Soil	0.2	4	0.5	27	0.082	67	2008
871587	670722	6234207					30732	ARP	Acme	SMI08000695.1	Soil	0.2	3	<0.1	27	0.035	49	2008
871598	670991	6234218					30732	ARP	Acme	SMI08000695.1	Soil	0.1	1	0.1	27	0.083	57	2008
871607	671210	6234233					30732	ARP	Acme	SMI08000695.1	Soil	0.2	2	0.2	27	0.088	83	2008
871861	670408	6233373					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	3	<0.1	27	0.045	46	2008
872150	670000	6233400					30732	ARP	Acme	SMI08000695.1	Soil	0.2	2	<0.1	27	0.089	48	2008
848445	670923	6233196					30732	ARP	Acme	SMI08000701.1	Soil	0.1	4	0.2	27	0.073	85	2008
852099	670569	6233818					30732	ARP	Acme	SMI08000695.1	Soil	0.1	2	0.2	28	0.053	63	2008
871874	670749	6233380					30732	ARP	Acme	SMI08000695.1	Soil	0.1	35	<0.1	28	0.064	55	2008
872105	670074	6233994					30732	ARP	Acme	SMI08000695.1	Soil	0.1	3	0.2	28	0.096	74	2008
867361	669675	6233400					30732	ARP	Acme	SMI08000701.1	Soil	0.1	1	<0.1	28	0.057	39	2008
870394	670654	6233199					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	3	<0.1	28	0.04	80	2008
867069	671156	6233689					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	4	<0.1	28	0.036	47	2008
871580	670545	6234215					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	18	0.1	29	0.077	97	2008
871593	670866	6234219					30732	ARP	Acme	SMI08000695.1	Soil	0.4	<0.5	<0.1	29	0.085	70	2008
872027	670206	6233601					30732	ARP	Acme	SMI08000695.1	Soil	0.1	3	0.1	29	0.079	72	2008
872112	670249	6233987					30732	ARP	Acme	SMI08000695.1	Soil	0.2	6	0.2	29	0.118	82	2008
872126	670598	6233983					30732	ARP	Acme	SMI08000695.1	Soil	0.2	8	0.1	29	0.063	78	2008
872130	670697	6233987					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	7	0.1	29	0.041	69	2008
867116	669651	6233808					30732	ARP	Acme	SMI08000701.1	Soil	0.1	1	0.1	29	0.099	59	2008
871985	670223	6232795					30732	ARP	Acme	SMI08000702.1	Soil	0.1	24	0.2	29	0.075	81	2008
867047	670611	6233417					30732	ARP	Acme	SMI08000731.1	Soil	0.4	2	0.3	29	0.038	44	2008
867807	669628	6233025					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	2	<0.1	29	0.062	86	2008
870348	669502	6233203					30732	ARP	Acme	SMI08000702.1	Soil	0.2	2	<0.1	29	0.106	45	2008
871875	670779	6233383					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	29	<0.1	30	0.04	57	2008
872113	670276	6233980					30732	ARP	Acme	SMI08000695.1	Soil	0.2	3	0.1	30	0.068	74	2008
872124	670551	6233982					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	20	<0.1	30	0.05	77	2008
872145	671075	6233992					30732	ARP	Acme	SMI08000695.1	Soil	0.2	1	<0.1	30	0.114	65	2008
867197	670824	6232991					30732	ARP	Acme	SMI08000701.1	Soil	0.1	2	0.1	30	0.036	60	2008
867393	669472	6232993					30732	ARP	Acme	SMI08000702.1	Soil	0.2	1	0.3	30	0.07	76	2008
867440	670147	6232598					30732	ARP	Acme	SMI08000702.1	Soil	0.2	3	0.2	30	0.111	59	2008
871950	669950	6232809					30732	ARP	Acme	SMI08000702.1	Soil	0.2	4	0.1	30	0.056	73	2008
852098	670544	6233816					30732	ARP	Acme	SMI08000695.1	Soil	0.1	3	0.2	31	0.163	57	2008
866965	670623	6232395					30732	ARP	Acme	SMI08000701.1	Soil	0.1	2	0.2	31	0.131	97	2008
870395	670677	6233197					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	2	<0.1	31	0.046	86	2008
871951	669924	6232813					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	2	<0.1	31	0.09	59	2008
871966	669556	6232805					30732	ARP	Acme	SMI08000702.1	Soil	0.5	3	0.1	31	0.081	49	2008
867051	670702	6233475					30732	ARP	Acme	SMI08000731.1	Soil	0.3	1	0.2	31	0.045	50	2008
871075	670943	6233584					30732	ARP	Acme	SMI08000732.1	Soil	0.2	111	0.1	31	0.027	59	2008
871079	671029	6233659					30732	ARP	Acme	SMI08000732.1	Soil	0.1	7	<0.1	31	0.027	43	2008
852124	671183	6233809					30732	ARP	Acme	SMI08000695.1	Soil	0.2	3	<0.1	32	0.114	66	2008

## Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR
871565	670172	6234199					30732	ARP	Acme	SMI08000695.1	Soil	0.4	8	0.3	32	0.102	69	2008
872046	670680	6233629					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	3	0.2	32	0.037	58	2008
867429	669875	6232596					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	2	<0.1	32	0.059	54	2008
867751	670802	6232764					30732	ARP	Acme	SMI08000702.1	Soil	0.1	1	<0.1	32	0.158	180	2008
870393	670631	6233197					30732	ARP	Acme	SMI08000702.1	Soil	0.2	<0.5	0.1	32	0.035	94	2008
867716	669363	6232922					30732	ARP	Acme	SMI08000731.1	Soil	0.4	2	0.4	32	0.041	42	2008
867139	669123	6233402					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	6	<0.1	32	0.091	59	2008
867140	669148	6233401					30732	ARP	Acme	SMI08000701.1	Soil	0.2	3	0.1	32	0.068	54	2008
884919	669307	6233593					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	6	0.1	32	0.153	92	2008
884925	669110	6233605					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	2	0.2	32	0.088	74	2008
852081	670138	6233807					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	1	0.2	33	0.049	53	2008
871595	670917	6234219					30732	ARP	Acme	SMI08000695.1	Soil	0.1	4	<0.1	33	0.111	72	2008
871600	671041	6234222					30732	ARP	Acme	SMI08000695.1	Soil	0	1	0.1	33	0.072	83	2008
871612	671334	6234239					30732	ARP	Acme	SMI08000695.1	Soil	0.2	1	<0.1	33	0.145	48	2008
851596	669228	6232799					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	4	0.1	33	0.073	61	2008
866942	670054	6232390					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	4	0.3	33	0.158	116	2008
866963	670572	6232398					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	2	0.1	33	0.086	134	2008
867454	670523	6232595					30732	ARP	Acme	SMI08000702.1	Soil	0.1	1	<0.1	33	0.088	67	2008
867777	670522	6232182					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	1	0.3	33	0.132	86	2008
852107	670767	6233824					30732	ARP	Acme	SMI08000695.1	Soil	0.2	1	0.2	34	0.069	73	2008
871869	670623	6233385					30732	ARP	Acme	SMI08000695.1	Soil	0.2	2	0.1	34	0.036	45	2008
871886	671048	6233382					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	72	0.1	34	0.046	99	2008
872019	670000	6233600					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	2	<0.1	34	0.104	83	2008
851440	669956	6233603					30732	ARP	Acme	SMI08000701.1	Soil	0.2	2	<0.1	34	0.129	56	2008
851595	669256	6232796					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	1	0.1	34	0.082	65	2008
867066	671084	6233654					30732	ARP	Acme	SMI08000731.1	Soil	0.1	67	<0.1	34	0.075	51	2008
867790	670168	6232195					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	5	0.2	34	0.11	19	2008
852104	670692	6233824					30732	ARP	Acme	SMI08000695.1	Soil	0.2	1	0.1	35	0.057	73	2008
872034	670382	6233612					30732	ARP	Acme	SMI08000695.1	Soil	0.1	1	<0.1	35	0.157	68	2008
872059	670995	6233639					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	5	<0.1	35	0.039	117	2008
872106	670100	6233992					30732	ARP	Acme	SMI08000695.1	Soil	0.2	6	0.3	35	0.089	141	2008
872117	670380	6233980					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	2	0.1	35	0.035	67	2008
866947	670181	6232400					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	3	0.2	35	0.048	66	2008
866955	670389	6232395					30732	ARP	Acme	SMI08000701.1	Soil	0.1	<0.5	0.2	35	0.161	81	2008
867364	669748	6233400					30732	ARP	Acme	SMI08000701.1	Soil	0.1	3	0.1	35	0.059	60	2008
871601	671065	6234223					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	3	<0.1	36	0.072	74	2008
866945	670132	6232396					30732	ARP	Acme	SMI08000701.1	Soil	0.1	2	0.1	36	0.086	124	2008
867199	670876	6232995					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	12	0.2	36	0.055	52	2008
867442	670196	6232597					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	4	0.1	36	0.065	64	2008
871988	670301	6232787					30732	ARP	Acme	SMI08000702.1	Soil	0.2	3	0.2	36	0.124	115	2008
867053	670751	6233499					30732	ARP	Acme	SMI08000731.1	Soil	0.3	5	0.2	36	0.062	33	2008
867136	669047	6233404					30732	ARP	Acme	SMI08000701.1	Soil	0.1	6	0.3	36	0.062	61	2008
852083	670182	6233819					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	1	0.2	37	0.06	75	2008
852123	671158	6233803					30732	ARP	Acme	SMI08000695.1	Soil	0.4	1	<0.1	37	0.215	71	2008
871570	670296	6234200					30732	ARP	Acme	SMI08000695.1	Soil	0.3	6	0.4	37	0.093	72	2008
871865	670515	6233378					30732	ARP	Acme	SMI08000695.1	Soil	0.1	4	0.1	37	0.033	57	2008
872070	671262	6233631					30732	ARP	Acme	SMI08000695.1	Soil	0.2	29	<0.1	37	0.086	78	2008
872121	670476	6233973					30732	ARP	Acme	SMI08000695.1	Soil	0.3	1	0.1	37	0.044	63	2008
851443	669881	6233593					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	2	0.1	37	0.079	63	2008
866956	670414	6232396					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	1	0.8	37	0.122	105	2008
867111	669775	6233812					30732	ARP	Acme	SMI08000701.1	Soil	0.2	2	0.2	37	0.071	61	2008
867150	669649	6232991					30732	ARP	Acme	SMI08000701.1	Soil	0.1	1	0.2	37	0.102	109	2008
867455	670548	6232596					30732	ARP	Acme	SMI08000702.1	Soil	0.1	2	0.1	37	0.099	115	2008
870384	670415	6233204					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	2	<0.1	37	0.093	106	2008
870386	670460	6233205					30732	ARP	Acme	SMI08000702.1	Soil	0.1	2	<0.1	37	0.065	49	2008
867758	670999	6232200					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	1	<0.1	37	0.1	5	2008
871077	670989	6233620					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	6	<0.1	37	0.046	77	2008
867121	669524	6233809					30732	ARP	Acme	SMI08000701.1	Soil	0.2	5	0.2	37	0.103	60	2008
871563	670121	6234200					30732	ARP	Acme	SMI08000695.1	Soil	0.1	5	0.4	38	0.076	83	2008

# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR
871581	670570	6234214					30732	ARP	Acme	SMI08000695.1	Soil	0.1	16	0.1	38	0.066	56	2008
871871	670675	6233384					30732	ARP	Acme	SMI08000695.1	Soil	0.2	29	0.2	38	0.044	58	2008
872061	671041	6233649					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	6	0.2	38	0.069	63	2008
872108	670151	6233991					30732	ARP	Acme	SMI08000695.1	Soil	0.1	3	0.3	38	0.198	108	2008
872129	670671	6233982					30732	ARP	Acme	SMI08000695.1	Soil	0.3	11	<0.1	38	0.055	55	2008
866943	670081	6232391					30732	ARP	Acme	SMI08000701.1	Soil	0.1	5	0.1	38	0.119	72	2008
867191	670676	6232986					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	2	<0.1	38	0.079	101	2008
867373	669976	6233397					30732	ARP	Acme	SMI08000701.1	Soil	0.1	3	0.2	38	0.095	71	2008
867029	670177	6233355					30732	ARP	Acme	SMI08000731.1	Soil	0.2	3	0.1	38	0.071	71	2008
867124	669450	6233813					30732	ARP	Acme	SMI08000701.1	Soil	0.1	1	0.1	38	0.116	37	2008
871567	670220	6234207					30732	ARP	Acme	SMI08000695.1	Soil	0.3	15	0.3	39	0.107	96	2008
871577	670473	6234209					30732	ARP	Acme	SMI08000695.1	Soil	0.3	4	0.1	39	0.053	79	2008
872044	670631	6233630					30732	ARP	Acme	SMI08000695.1	Soil	0.1	18	<0.1	39	0.088	81	2008
866962	670547	6232399					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	2	<0.1	39	0.09	93	2008
867176	670298	6232993					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	3	0.1	39	0.036	101	2008
867380	669147	6232997					30732	ARP	Acme	SMI08000701.1	Soil	0.1	1	0.1	39	0.096	46	2008
867755	670920	6232787					30732	ARP	Acme	SMI08000702.1	Soil	0.2	1	<0.1	39	0.138	243	2008
886509	670000	6232801					30732	ARP	Acme	SMI08000702.1	Soil	0.1	6	0.2	39	0.074	67	2008
867769	670723	6232194					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	2	<0.1	39	0.138	83	2008
870350	669453	6232305					30732	ARP	Acme	SMI08000702.1	Soil	0.2	5	0.1	39	0.076	58	2008
852084	670205	6233810					30732	ARP	Acme	SMI08000695.1	Soil	0.2	1	0.1	40	0.051	71	2008
872041	670558	6233623					30732	ARP	Acme	SMI08000695.1	Soil	0.1	2	0.1	40	0.084	64	2008
872063	671086	6233638					30732	ARP	Acme	SMI08000695.1	Soil	0.1	6	<0.1	40	0.064	62	2008
872111	670228	6233987					30732	ARP	Acme	SMI08000695.1	Soil	0.2	3	0.2	40	0.218	96	2008
872118	670402	6233974					30732	ARP	Acme	SMI08000695.1	Soil	0.1	4	<0.1	40	0.044	76	2008
867171	670173	6233002					30732	ARP	Acme	SMI08000701.1	Soil	0.1	2	<0.1	40	0.061	56	2008
867378	669096	6233001					30732	ARP	Acme	SMI08000701.1	Soil	0.6	3	0.5	40	0.069	132	2008
871047	670262	6233389					30732	ARP	Acme	SMI08000732.1	Soil	0.1	3	0.2	40	0.051	91	2008
852093	670425	6233813					30732	ARP	Acme	SMI08000695.1	Soil	0.1	1	0.1	41	0.08	69	2008
871898	671350	6233396					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	3	<0.1	41	0.02	27	2008
872151	670022	6233394					30732	ARP	Acme	SMI08000695.1	Soil	0.2	3	0.2	41	0.236	80	2008
851445	669833	6233595					30732	ARP	Acme	SMI08000701.1	Soil	0.1	1	<0.1	41	0.08	74	2008
870364	669101	6233193					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	1	0.4	41	0.051	87	2008
871606	671185	6234229					30732	ARP	Acme	SMI08000695.1	Soil	0	2	0.1	42	0.072	88	2008
872143	671026	6233994					30732	ARP	Acme	SMI08000695.1	Soil	0.2	2	0.1	42	0.102	65	2008
872146	671101	6233995					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	3	0.1	42	0.11	83	2008
851597	669205	6232786					30732	ARP	Acme	SMI08000701.1	Soil	0.1	2	0.4	42	0.122	60	2008
870341	669674	6233203					30732	ARP	Acme	SMI08000702.1	Soil	0.1	2	0.1	42	0.091	127	2008
849894	669895	6233186					30732	ARP	Acme	SMI08000731.1	Soil	0.1	2	0.3	42	0.073	93	2008
867802	669273	6232862					30732	ARP	Acme	SMI08000731.1	Soil	0.3	7	0.2	42	0.051	76	2008
867126	669399	6233811					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	1	0.2	42	0.135	63	2008
866954	670364	6232395					30732	ARP	Acme	SMI08000701.1	Soil	0.5	1	0.4	43	0.215	100	2008
866958	670455	6232401					30732	ARP	Acme	SMI08000701.1	Soil	0.2	3	1.5	43	0.109	130	2008
867180	670398	6232992					30732	ARP	Acme	SMI08000701.1	Soil	0.2	1	0.2	43	0.091	118	2008
867465	670800	6232598					30732	ARP	Acme	SMI08000702.1	Soil	0.4	22	0.2	43	0.113	68	2008
867041	670496	6233385					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	16	0.1	43	0.074	89	2008
871029	669860	6233171					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	2	<0.1	43	0.108	77	2008
871052	670392	6233405					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	2	0.2	43	0.061	67	2008
867128	669351	6233812					30732	ARP	Acme	SMI08000701.1	Soil	0.2	1	<0.1	43	0.112	48	2008
870357	669282	6233200					30732	ARP	Acme	SMI08000702.1	Soil	0.2	1	0.3	43	0.068	73	2008
870363	669126	6233194					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	5	0.6	43	0.084	145	2008
871589	670771	6234211					30732	ARP	Acme	SMI08000695.1	Soil	0.6	3	0.1	44	0.146	91	2008
871591	670820	6234220					30732	ARP	Acme	SMI08000695.1	Soil	0.3	1	<0.1	44	0.095	93	2008
871863	670457	6233373					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	4	0.1	44	0.044	56	2008
867395	669525	6232988					30732	ARP	Acme	SMI08000702.1	Soil	0.2	2	0.1	44	0.048	54	2008
870340	669698	6233199					30732	ARP	Acme	SMI08000702.1	Soil	0.3	1	0.3	44	0.074	93	2008
871073	670886	6233563					30732	ARP	Acme	SMI08000732.1	Soil	0.1	2	0.1	44	0.052	73	2008
867127	669375	6233812					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	2	0.2	44	0.09	64	2008
871610	671283	6234244					30732	ARP	Acme	SMI08000695.1	Soil	0.3	2	0.3	45	0.08	65	2008

# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR
867424	669751	6232593					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	2	0.2	45	0.071	81	2008
867791	670148	6232196					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	2	0.3	45	0.093	122	2008
852127	671256	6233807					30732	ARP	Acme	SMI08000695.1	Soil	0.1	4	0.1	46	0.076	84	2008
871566	670197	6234197					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	4	0.4	46	0.187	110	2008
867370	669899	6233395					30732	ARP	Acme	SMI08000701.1	Soil	0.4	11	<0.1	46	0.085	90	2008
867382	669197	6232994					30732	ARP	Acme	SMI08000701.1	Soil	0.1	3	0.2	46	0.105	65	2008
867441	670172	6232598					30732	ARP	Acme	SMI08000702.1	Soil	0.2	3	0.1	46	0.063	99	2008
871974	669355	6232790					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	8	<0.1	46	0.131	56	2008
871987	670274	6232789					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	10	0.1	46	0.086	112	2008
866982	669000	6232200					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	2	0.3	46	0.168	113	2008
867775	670574	6232180					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	2	0.3	46	0.15	78	2008
867776	670548	6232179					30732	ARP	Acme	SMI08000731.1	Soil	0.1	<0.5	0.2	46	0.136	61	2008
867787	670235	6232202					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	6	0.1	46	0.108	112	2008
867357	669573	6233401					30732	ARP	Acme	SMI08000701.1	Soil	0.2	1	<0.1	46	0.089	175	2008
867358	669597	6233401					30732	ARP	Acme	SMI08000701.1	Soil	0.1	2	<0.1	46	0.074	69	2008
852118	671039	6233818					30732	ARP	Acme	SMI08000695.1	Soil	0.4	1	0.1	47	0.082	100	2008
867114	669701	6233807					30732	ARP	Acme	SMI08000701.1	Soil	0.1	2	0.2	47	0.104	81	2008
870392	670606	6233205					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	1	0.1	47	0.115	119	2008
871958	669750	6232813					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	2	<0.1	47	0.072	52	2008
871977	670024	6232801					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	4	0.3	47	0.078	106	2008
884904	669683	6233625					30732	ARP	Acme	SMI08000702.1	Soil	0.1	2	0.2	47	0.05	78	2008
867803	669253	6232848					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	1	0.2	47	0.049	83	2008
871028	669843	6233153					30732	ARP	Acme	SMI08000732.1	Soil	0.1	3	0.1	47	0.053	77	2008
884908	669577	6233618					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	3	0.2	47	0.162	73	2008
871568	670246	6234206					30732	ARP	Acme	SMI08000695.1	Soil	0.2	7	0.4	48	0.103	161	2008
871854	670249	6233391					30732	ARP	Acme	SMI08000695.1	Soil	0.1	1	0.1	48	0.063	67	2008
871887	671075	6233377					30732	ARP	Acme	SMI08000695.1	Soil	0.1	2	0.2	48	0.049	159	2008
866938	669960	6232388					30732	ARP	Acme	SMI08000701.1	Soil	0.1	1	0.1	48	0.083	44	2008
867106	669901	6233813					30732	ARP	Acme	SMI08000701.1	Soil	0.2	3	0.3	48	0.17	115	2008
867020	669952	6232194					30732	ARP	Acme	SMI08000731.1	Soil	0.3	3	0.3	48	0.194	150	2008
867021	669974	6232195					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	2	0.4	48	0.108	102	2008
867037	670402	6233394					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	3	0.2	48	0.054	124	2008
867050	670677	6233469					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	3	0.1	48	0.052	91	2008
871078	671002	6233645					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	9	<0.1	48	0.038	82	2008
871879	670873	6233387					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	20	<0.1	49	0.052	94	2008
867431	669926	6232597					30732	ARP	Acme	SMI08000702.1	Soil	0.1	2	0.4	49	0.1	92	2008
867434	669999	6232598					30732	ARP	Acme	SMI08000702.1	Soil	0.1	2	0.3	49	0.036	70	2008
871952	669899	6232815					30732	ARP	Acme	SMI08000702.1	Soil	0.2	3	0.1	49	0.053	68	2008
871068	670759	6233524					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	12	0.2	49	0.031	100	2008
852095	670474	6233810					30732	ARP	Acme	SMI08000695.1	Soil	0.2	4	0.2	50	0.032	81	2008
871860	670380	6233378					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	5	0.2	50	0.037	75	2008
872102	670000	6234000					30732	ARP	Acme	SMI08000695.1	Soil	0.1	3	0.2	50	0.046	97	2008
867105	669928	6233810					30732	ARP	Acme	SMI08000701.1	Soil	0.3	2	0.3	50	0.099	61	2008
870333	669877	6233211					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	1	0.2	50	0.04	91	2008
870383	670382	6233203					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	2	<0.1	50	0.142	68	2008
870388	670503	6233206					30732	ARP	Acme	SMI08000702.1	Soil	0.2	2	0.2	50	0.157	139	2008
866983	669024	6232204					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	2	0.3	50	0.181	82	2008
867491	669643	6232592					30732	ARP	Acme	SMI08000731.1	Soil	0.4	2	0.2	50	0.147	59	2008
867138	669098	6233404					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	3	0.2	50	0.112	72	2008
852128	671279	6233797					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	3	0.2	51	0.094	75	2008
871859	670362	6233393					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	1	0.1	51	0.046	83	2008
872020	670025	6233608					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	4	0.1	51	0.059	68	2008
872030	670284	6233610					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	2	0.2	51	0.093	63	2008
867178	670348	6232992					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	3	0.2	51	0.08	102	2008
867450	670422	6232595					30732	ARP	Acme	SMI08000702.1	Soil	0.1	3	0.3	51	0.079	100	2008
867464	670772	6232597					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	9	0.2	51	0.071	63	2008
867813	669749	6233098					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	3	0.1	51	0.052	77	2008
871053	670418	6233406					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	2	0.2	51	0.03	84	2008
872183	669492	6232793					30732	ARP	Acme	SMI08000732.1	Soil	1.1	2	0.3	51	0.088	62	2008

# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR
867134	668999	6233401					30732	ARP	Acme	SMI08000701.1	Soil	0.1	9	0.2	51	0.11	47	2008
871573	670370	6234206					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	2	<0.1	52	0.059	71	2008
867167	670075	6232999					30732	ARP	Acme	SMI08000701.1	Soil	0.2	2	0.2	52	0.086	74	2008
867447	670322	6232594					30732	ARP	Acme	SMI08000702.1	Soil	0.2	3	0.3	52	0.091	127	2008
867451	670447	6232596					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	2	0.1	52	0.102	220	2008
871050	670339	6233410					30732	ARP	Acme	SMI08000732.1	Soil	0.1	1	0.1	52	0.074	46	2008
884910	669530	6233600					30732	ARP	Acme	SMI08000702.1	Soil	0.1	5	0.1	52	0.133	72	2008
867156	669798	6232990					30732	ARP	Acme	SMI08000701.1	Soil	0.1	2	0.1	53	0.134	53	2008
867396	669548	6232990					30732	ARP	Acme	SMI08000702.1	Soil	0.4	7	0.2	53	0.044	51	2008
867437	670073	6232600					30732	ARP	Acme	SMI08000702.1	Soil	0.1	3	0.2	53	0.069	47	2008
867040	670478	6233389					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	6	0.2	53	0.104	73	2008
867065	671039	6233631					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	6	0.2	53	0.068	46	2008
871027	669829	6233129					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	5	0.2	53	0.065	82	2008
871049	670314	6233402					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	2	0.2	53	0.071	77	2008
871084	671144	6233724					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	9	0.1	53	0.063	79	2008
871888	671100	6233380					30732	ARP	Acme	SMI08000695.1	Soil	0.1	5	<0.1	54	0.056	87	2008
872038	670481	6233613					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	1	0.1	54	0.043	93	2008
867181	670426	6232991					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	2	0.2	54	0.044	103	2008
870399	670783	6233205					30732	ARP	Acme	SMI08000702.1	Soil	0.1	4	0.1	54	0.069	84	2008
849899	669990	6233272					30732	ARP	Acme	SMI08000731.1	Soil	0.3	4	0.2	54	0.057	66	2008
871030	669878	6233191					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	3	0.2	54	0.059	80	2008
871076	670961	6233610					30732	ARP	Acme	SMI08000732.1	Soil	0.1	2	0.2	54	0.058	69	2008
870367	669026	6233195					30732	ARP	Acme	SMI08000702.1	Soil	0.2	3	0.6	54	0.091	94	2008
884922	669234	6233582					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	1	<0.1	54	0.066	67	2008
872140	670951	6233987					30732	ARP	Acme	SMI08000695.1	Soil	0.4	1	0.1	55	0.146	121	2008
867152	669699	6232990					30732	ARP	Acme	SMI08000701.1	Soil	0.2	6	0.2	55	0.075	54	2008
871971	669432	6232795					30732	ARP	Acme	SMI08000702.1	Soil	0.2	3	0.2	55	0.081	80	2008
867806	669609	6233007					30732	ARP	Acme	SMI08000731.1	Soil	0.2	3	0.2	55	0.066	83	2008
871597	670966	6234217					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	2	0.2	56	0.098	79	2008
867190	670649	6232986					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	<0.5	0.1	56	0.045	82	2008
870379	670274	6233222					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	3	0.4	56	0.071	146	2008
870390	670550	6233200					30732	ARP	Acme	SMI08000702.1	Soil	0.1	1	0.1	56	0.115	138	2008
870355	669327	6233208					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	1	0.3	56	0.096	73	2008
866926	669660	6232386					30732	ARP	Acme	SMI08000701.1	Soil	0.1	5	0.2	57	0.104	60	2008
867432	669949	6232601					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	2	0.1	57	0.07	65	2008
871048	670287	6233398					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	4	0.2	57	0.036	64	2008
872199	669334	6232919					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	2	0.4	57	0.05	97	2008
867356	669548	6233402					30732	ARP	Acme	SMI08000701.1	Soil	0.1	1	0.1	57	0.083	64	2008
884917	669355	6233598					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	2	<0.1	57	0.092	75	2008
884920	669280	6233598					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	1	0.2	57	0.09	70	2008
852114	670939	6233824					30732	ARP	Acme	SMI08000695.1	Soil	0.1	2	<0.1	58	0.042	89	2008
872071	671284	6233631					30732	ARP	Acme	SMI08000695.1	Soil	0.1	2	0.1	58	0.094	69	2008
870339	669724	6233201					30732	ARP	Acme	SMI08000702.1	Soil	0.2	2	0.1	58	0.056	68	2008
871969	669482	6232801					30732	ARP	Acme	SMI08000702.1	Soil	0.3	2	0.2	58	0.078	124	2008
867036	670373	6233394					30732	ARP	Acme	SMI08000731.1	Soil	0.2	2	0.4	58	0.051	62	2008
872191	669519	6232960					30732	ARP	Acme	SMI08000732.1	Soil	0.2	3	0.2	58	0.088	48	2008
867354	669499	6233402					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	2	0.1	58	0.08	76	2008
870360	669205	6233192					30732	ARP	Acme	SMI08000702.1	Soil	0.1	1	0.6	58	0.098	163	2008
871870	670649	6233387					30732	ARP	Acme	SMI08000695.1	Soil	0.2	2	<0.1	59	0.065	95	2008
871880	670897	6233379					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	8	<0.1	59	0.06	103	2008
867168	670099	6232999					30732	ARP	Acme	SMI08000701.1	Soil	0.2	3	0.1	59	0.127	60	2008
867194	670751	6232989					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	47	<0.1	59	0.029	37	2008
870366	669050	6233194					30732	ARP	Acme	SMI08000702.1	Soil	0.4	6	0.6	59	0.154	67	2008
871855	670274	6233389					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	2	0.2	60	0.059	98	2008
871891	671176	6233387					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	1	<0.1	60	0.059	122	2008
872139	670920	6233988					30732	ARP	Acme	SMI08000695.1	Soil	0.2	1	<0.1	60	0.07	109	2008
866968	670699	6232393					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	8	0.1	60	0.133	238	2008
870378	670243	6233210					30732	ARP	Acme	SMI08000702.1	Soil	0.1	1	<0.1	60	0.049	79	2008
871976	669306	6232793					30732	ARP	Acme	SMI08000702.1	Soil	0.3	3	0.2	60	0.078	67	2008



# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR
884930	669976	6232807					30732	ARP	Acme	SMI08000702.1	Soil	0.1	8	0.2	60	0.131	77	2008
867046	670592	6233401					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	2	0.1	60	0.082	61	2008
871085	671169	6233730					30732	ARP	Acme	SMI08000732.1	Soil	0.1	2	0.2	60	0.092	61	2008
867119	669576	6233809					30732	ARP	Acme	SMI08000701.1	Soil	0.1	3	0.4	60	0.106	77	2008
870358	669256	6233190					30732	ARP	Acme	SMI08000702.1	Soil	0.1	1	0.6	60	0.059	87	2008
866924	669607	6233286					30732	ARP	Acme	SMI08000701.1	Soil	0.1	5	0.1	61	0.127	69	2008
867722	669571	6232967					30732	ARP	Acme	SMI08000731.1	Soil	0.1	2	0.1	61	0.091	65	2008
867115	669675	6233809					30732	ARP	Acme	SMI08000701.1	Soil	0.1	3	0.3	62	0.126	76	2008
871970	669457	6232798					30732	ARP	Acme	SMI08000702.1	Soil	0.5	2	0.3	62	0.081	84	2008
867033	670279	6233378					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	4	0.1	62	0.047	102	2008
867039	670448	6233392					30732	ARP	Acme	SMI08000731.1	Soil	0.1	2	0.3	62	0.104	120	2008
867789	670192	6232200					30732	ARP	Acme	SMI08000731.1	Soil	0.2	4	0.1	62	0.122	66	2008
871059	670564	6233405					30732	ARP	Acme	SMI08000732.1	Soil	0.3	2	0.2	62	0.058	79	2008
872043	670607	6233626					30732	ARP	Acme	SMI08000695.1	Soil	0.1	3	0.1	63	0.055	89	2008
872058	670973	6233628					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	4	<0.1	63	0.041	98	2008
851594	669283	6232793					30732	ARP	Acme	SMI08000701.1	Soil	0.1	3	0.2	63	0.161	80	2008
871959	669727	6232808					30732	ARP	Acme	SMI08000702.1	Soil	0.1	2	0.2	63	0.084	66	2008
867012	669757	6232194					30732	ARP	Acme	SMI08000731.1	Soil	0.3	4	0.4	63	0.121	80	2008
871038	670034	6233324					30732	ARP	Acme	SMI08000732.1	Soil	0.1	5	0.1	63	0.083	104	2008
872031	670308	6233612					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	1	0.1	64	0.095	74	2008
872067	671187	6233631					30732	ARP	Acme	SMI08000695.1	Soil	0.2	4	0.2	64	0.072	80	2008
867418	669599	6232592					30732	ARP	Acme	SMI08000702.1	Soil	0.4	4	0.3	64	0.096	60	2008
867435	670024	6232600					30732	ARP	Acme	SMI08000702.1	Soil	0.1	1	0.1	64	0.107	112	2008
870336	669805	6233205					30732	ARP	Acme	SMI08000702.1	Soil	0.2	1	0.3	64	0.04	114	2008
867023	670029	6233310					30732	ARP	Acme	SMI08000731.1	Soil	0.1	18	0.2	64	0.062	69	2008
884909	669553	6233612					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	2	0.1	64	0.152	104	2008
871558	669997	6234198					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	5	0.2	65	0.105	107	2008
871574	670395	6234203					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	7	<0.1	65	0.062	77	2008
872045	670654	6233630					30732	ARP	Acme	SMI08000695.1	Soil	0.1	2	0.1	65	0.042	88	2008
872134	670798	6233986					30732	ARP	Acme	SMI08000695.1	Soil	0.2	17	<0.1	65	0.063	85	2008
870381	670328	6233212					30732	ARP	Acme	SMI08000702.1	Soil	0.2	3	0.3	65	0.071	69	2008
867719	669302	6232879					30732	ARP	Acme	SMI08000731.1	Soil	0.1	2	0.2	65	0.068	104	2008
867788	670211	6232202					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	3	0.1	65	0.075	111	2008
867795	670051	6232203					30732	ARP	Acme	SMI08000731.1	Soil	0.1	2	0.1	65	0.071	59	2008
867125	669426	6233811					30732	ARP	Acme	SMI08000701.1	Soil	0.2	3	0.3	65	0.161	72	2008
867147	669323	6233402					30732	ARP	Acme	SMI08000701.1	Soil	0.2	4	<0.1	65	0.068	64	2008
852082	670162	6233806					30732	ARP	Acme	SMI08000695.1	Soil	0.2	1	0.2	66	0.049	103	2008
872116	670351	6233977					30732	ARP	Acme	SMI08000695.1	Soil	0.3	6	0.2	66	0.054	95	2008
871955	669824	6232816					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	4	0.2	66	0.115	118	2008
871962	669651	6232795					30732	ARP	Acme	SMI08000702.1	Soil	0.1	2	0.2	66	0.108	49	2008
867129	669324	6233815					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	1	0.1	66	0.086	76	2008
871889	671125	6233384					30732	ARP	Acme	SMI08000695.1	Soil	0.1	2	0.2	67	0.09	101	2008
872057	670948	6233637					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	6	0.1	67	0.072	75	2008
872115	670323	6233979					30732	ARP	Acme	SMI08000695.1	Soil	0.2	18	0.2	67	0.093	82	2008
872144	671049	6233989					30732	ARP	Acme	SMI08000695.1	Soil	0.1	1	0.1	67	0.189	78	2008
867379	669121	6233000					30732	ARP	Acme	SMI08000701.1	Soil	0.3	4	0.1	67	0.11	62	2008
867387	669323	6232999					30732	ARP	Acme	SMI08000702.1	Soil	0.3	3	0.3	67	0.084	104	2008
867416	669549	6232593					30732	ARP	Acme	SMI08000702.1	Soil	0.4	3	0.2	67	0.06	73	2008
870375	670177	6233214					30732	ARP	Acme	SMI08000702.1	Soil	0.2	2	0.1	67	0.091	77	2008
871960	669701	6232810					30732	ARP	Acme	SMI08000702.1	Soil	0.1	3	0.2	67	0.12	57	2008
867030	670196	6233369					30732	ARP	Acme	SMI08000731.1	Soil	0.2	4	0.1	67	0.104	53	2008
867044	670551	6233372					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	2	<0.1	67	0.07	72	2008
867142	669198	6233400					30732	ARP	Acme	SMI08000701.1	Soil	0.1	3	0.1	68	0.096	51	2008
851442	669904	6233588					30732	ARP	Acme	SMI08000701.1	Soil	0.1	1	0.2	69	0.14	79	2008
870349	669483	6233201					30732	ARP	Acme	SMI08000702.1	Soil	0.7	3	0.3	69	0.119	64	2008
872042	670581	6233626					30732	ARP	Acme	SMI08000695.1	Soil	0.2	2	0.4	70	0.188	69	2008
867173	670222	6233000					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	4	0.5	70	0.094	153	2008
867375	669023	6233000					30732	ARP	Acme	SMI08000701.1	Soil	0.2	6	1	70	0.193	133	2008
867383	669222	6232995					30732	ARP	Acme	SMI08000701.1	Soil	0.1	7	0.3	70	0.107	89	2008

# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR
870372	670095	6233210					30732	ARP	Acme	SMI08000702.1	Soil	0.4	2	0.3	70	0.156	48	2008
871967	669532	6232802					30732	ARP	Acme	SMI08000702.1	Soil	0.2	5	0.3	70	0.113	80	2008
867026	670095	6233324					30732	ARP	Acme	SMI08000731.1	Soil	0.2	4	0.3	70	0.109	113	2008
867717	669341	6232909					30732	ARP	Acme	SMI08000731.1	Soil	0.1	4	0.3	70	0.056	89	2008
871584	670646	6234216					30732	ARP	Acme	SMI08000695.1	Soil	0.4	14	0.1	71	0.067	78	2008
872132	670750	6233984					30732	ARP	Acme	SMI08000695.1	Soil	0.2	21	0.2	71	0.056	72	2008
867463	670749	6232594					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	7	0.1	71	0.06	52	2008
870329	669971	6233220					30732	ARP	Acme	SMI08000702.1	Soil	0.2	3	0.3	71	0.119	64	2008
883675	669126	6232784					30732	ARP	Acme	SMI08000702.1	Soil	0.3	2	0.5	71	0.076	164	2008
867019	669932	6232199					30732	ARP	Acme	SMI08000731.1	Soil	0.1	3	0.3	71	0.188	105	2008
867038	670426	6233393					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	4	0.2	71	0.058	78	2008
867058	670881	6233531					30732	ARP	Acme	SMI08000731.1	Soil	0.2	2	0.2	71	0.066	88	2008
867770	670699	6232192					30732	ARP	Acme	SMI08000731.1	Soil	0.1	3	0.2	71	0.105	124	2008
867814	669772	6233106					30732	ARP	Acme	SMI08000731.1	Soil	0.1	22	<0.1	71	0.102	58	2008
871066	670707	6233526					30732	ARP	Acme	SMI08000732.1	Soil	0.2	1	0.2	71	0.057	89	2008
871883	670975	6233383					30732	ARP	Acme	SMI08000695.1	Soil	0.2	4	<0.1	72	0.047	118	2008
867414	669498	6232592					30732	ARP	Acme	SMI08000702.1	Soil	0.4	3	0.1	72	0.076	69	2008
884913	669453	6233595					30732	ARP	Acme	SMI08000702.1	Soil	0.1	3	0.1	72	0.149	81	2008
852117	671013	6233820					30732	ARP	Acme	SMI08000695.1	Soil	0.2	1	<0.1	73	0.07	104	2008
871592	670841	6234218					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	1	<0.1	73	0.12	112	2008
867384	669247	6233001					30732	ARP	Acme	SMI08000701.1	Soil	0.2	2	0.4	73	0.059	84	2008
867045	670574	6233389					30732	ARP	Acme	SMI08000731.1	Soil	0.1	7	0.3	73	0.09	72	2008
867793	670100	6232197					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	1	0.1	73	0.088	91	2008
884914	669430	6233605					30732	ARP	Acme	SMI08000702.1	Soil	0.2	3	<0.1	73	0.128	86	2008
871868	670599	6233385					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	4	0.2	74	0.089	109	2008
872056	670924	6233627					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	5	<0.1	74	0.088	61	2008
867377	669072	6232997					30732	ARP	Acme	SMI08000701.1	Soil	0.3	2	0.3	74	0.088	72	2008
867785	670285	6232201					30732	ARP	Acme	SMI08000731.1	Soil	0.1	3	0.3	74	0.166	115	2008
871039	670063	6233330					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	3	0.4	74	0.058	96	2008
871057	670523	6233390					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	2	0.3	74	0.064	86	2008
867122	669499	6233809					30732	ARP	Acme	SMI08000701.1	Soil	0.2	2	0.7	74	0.106	61	2008
884921	669262	6233576					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	2	<0.1	74	0.073	82	2008
871867	670570	6233386					30732	ARP	Acme	SMI08000695.1	Soil	0.2	4	0.2	75	0.076	69	2008
872138	670900	6233987					30732	ARP	Acme	SMI08000695.1	Soil	0.2	8	0.1	75	0.112	70	2008
866964	670597	6232397					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	7	0.2	75	0.079	228	2008
867107	669879	6233811					30732	ARP	Acme	SMI08000701.1	Soil	0.2	1	0.3	75	0.069	78	2008
867397	669573	6232991					30732	ARP	Acme	SMI08000702.1	Soil	0.2	3	0.2	75	0.085	91	2008
867423	669723	6232594					30732	ARP	Acme	SMI08000702.1	Soil	0.1	3	0.3	75	0.082	74	2008
867445	670274	6232597					30732	ARP	Acme	SMI08000702.1	Soil	0.2	3	0.2	75	0.086	110	2008
870380	670305	6233213					30732	ARP	Acme	SMI08000702.1	Soil	0.1	6	0.3	75	0.128	86	2008
849893	669876	6233165					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	3	0.3	75	0.118	150	2008
867117	669624	6233808					30732	ARP	Acme	SMI08000701.1	Soil	0.2	3	0.2	75	0.08	81	2008
867355	669525	6233402					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	16	<0.1	75	0.091	66	2008
852097	670521	6233817					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	2	0.1	76	0.057	92	2008
871851	670175	6233395					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	<0.5	<0.1	76	0.074	80	2008
872104	670048	6233994					30732	ARP	Acme	SMI08000695.1	Soil	0.9	3	0.7	76	0.183	136	2008
872147	671127	6233991					30732	ARP	Acme	SMI08000695.1	Soil	0.2	1	0.1	76	0.103	66	2008
867420	669650	6232597					30732	ARP	Acme	SMI08000702.1	Soil	0.3	3	0.2	76	0.109	59	2008
867018	669907	6232195					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	2	0.1	76	0.102	58	2008
867720	669286	6232861					30732	ARP	Acme	SMI08000731.1	Soil	0.1	3	0.3	76	0.081	136	2008
871062	670623	6233457					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	4	0.1	76	0.092	60	2008
872193	669469	6232961					30732	ARP	Acme	SMI08000732.1	Soil	0.3	3	0.2	76	0.061	69	2008
867137	669071	6233403					30732	ARP	Acme	SMI08000701.1	Soil	0.2	16	<0.1	76	0.135	64	2008
870342	669651	6233204					30732	ARP	Acme	SMI08000702.1	Soil	0.2	6	0.3	76	0.08	106	2008
867374	668999	6233001					30732	ARP	Acme	SMI08000701.1	Soil	0.2	7	0.9	77	0.126	202	2008
867443	670222	6232596					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	5	0.2	77	0.096	127	2008
871973	669383	6232796					30732	ARP	Acme	SMI08000702.1	Soil	0.2	4	0.3	77	0.111	70	2008
867474	669793	6232210					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	1	0.1	77	0.065	99	2008
867713	669422	6232961					30732	ARP	Acme	SMI08000731.1	Soil	0.1	3	0.4	77	0.074	117	2008

# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR
867730	669721	6233075					30732	ARP	Acme	SMI08000731.1	Soil	0.4	1	0.2	77	0.043	59	2008
867350	669397	6233398					30732	ARP	Acme	SMI08000701.1	Soil	0.6	2	0.2	77	0.06	75	2008
872023	670102	6233608					30732	ARP	Acme	SMI08000695.1	Soil	0.2	1	0.1	78	0.051	74	2008
866944	670108	6232395					30732	ARP	Acme	SMI08000701.1	Soil	0.1	3	0.1	78	0.105	102	2008
867368	669849	6233400					30732	ARP	Acme	SMI08000701.1	Soil	0.3	5	0.1	78	0.124	94	2008
867376	669047	6233001					30732	ARP	Acme	SMI08000701.1	Soil	0.3	2	0.4	78	0.046	109	2008
867428	669850	6232595					30732	ARP	Acme	SMI08000702.1	Soil	0.1	3	0.1	78	0.101	85	2008
852089	670327	6233815					30732	ARP	Acme	SMI08000695.1	Soil	0.1	2	0.1	79	0.08	90	2008
872069	671236	6233633					30732	ARP	Acme	SMI08000695.1	Soil	0.3	13	0.2	79	0.092	96	2008
851598	669176	6232795					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	6	0.3	79	0.07	113	2008
867108	669853	6233804					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	3	<0.1	79	0.106	58	2008
867159	669873	6232999					30732	ARP	Acme	SMI08000701.1	Soil	0.1	3	0.2	79	0.108	75	2008
867371	669924	6233402					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	29	0.1	79	0.089	96	2008
867059	670908	6233541					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	5	0.2	79	0.051	95	2008
867805	669586	6232997					30732	ARP	Acme	SMI08000731.1	Soil	0.2	4	0.3	79	0.091	96	2008
872133	670773	6233985					30732	ARP	Acme	SMI08000695.1	Soil	0.1	16	0.1	80	0.059	71	2008
870377	670220	6233208					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	2	0.2	80	0.068	112	2008
871975	669331	6232799					30732	ARP	Acme	SMI08000702.1	Soil	0.3	3	0.3	80	0.111	57	2008
867712	669446	6232956					30732	ARP	Acme	SMI08000731.1	Soil	0.2	3	4	80	0.08	115	2008
871064	670666	6233494					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	14	0.1	80	0.082	70	2008
871876	670798	6233386					30732	ARP	Acme	SMI08000695.1	Soil	0.5	161	0.6	81	0.065	91	2008
883679	669028	6232806					30732	ARP	Acme	SMI08000702.1	Soil	0.2	2	0.1	81	0.121	107	2008
871040	670084	6233350					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	11	0.2	81	0.056	97	2008
872198	669361	6232931					30732	ARP	Acme	SMI08000732.1	Soil	0.3	2	0.3	81	0.072	79	2008
867351	669421	6233398					30732	ARP	Acme	SMI08000701.1	Soil	0.2	8	0.2	81	0.096	75	2008
871594	670892	6234221					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	1	0.1	82	0.094	87	2008
871850	670150	6233396					30732	ARP	Acme	SMI08000695.1	Soil	0.1	6	0.3	82	0.074	31	2008
871965	669579	6232793					30732	ARP	Acme	SMI08000702.1	Soil	0.3	3	0.3	82	0.137	75	2008
866989	669173	6232204					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	2	0.2	82	0.143	84	2008
867028	670154	6233340					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	1	0.2	82	0.145	166	2008
867034	670304	6233379					30732	ARP	Acme	SMI08000731.1	Soil	0.1	2	0.2	82	0.097	80	2008
872026	670180	6233601					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	4	0.1	83	0.058	78	2008
872036	670432	6233616					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	3	0.1	83	0.061	79	2008
849892	669869	6233137					30732	ARP	Acme	SMI08000731.1	Soil	0.2	3	0.3	83	0.06	65	2008
867015	669834	6232193					30732	ARP	Acme	SMI08000731.1	Soil	0.1	2	0.3	83	0.179	161	2008
866950	670265	6232396					30732	ARP	Acme	SMI08000701.1	Soil	0.1	3	0.2	84	0.125	91	2008
866940	670009	6232391					30732	ARP	Acme	SMI08000701.1	Soil	0.2	20	0.2	85	0.048	61	2008
884915	669405	6233600					30732	ARP	Acme	SMI08000702.1	Soil	0.1	4	0.1	85	0.133	75	2008
852111	670866	6233827					30732	ARP	Acme	SMI08000695.1	Soil	0.8	2	0.1	86	0.053	74	2008
867815	669794	6233117					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	11	0.1	86	0.05	73	2008
870338	669748	6233206					30732	ARP	Acme	SMI08000702.1	Soil	0.2	2	0.2	87	0.081	88	2008
871045	670212	6233387					30732	ARP	Acme	SMI08000732.1	Soil	0.1	4	0.2	87	0.106	101	2008
872037	670457	6233612					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	1	<0.1	88	0.063	85	2008
867728	669674	6233060					30732	ARP	Acme	SMI08000731.1	Soil	0.2	2	0.2	88	0.046	97	2008
867780	670446	6232195					30732	ARP	Acme	SMI08000731.1	Soil	0.1	4	0.3	88	0.108	121	2008
871054	670445	6233405					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	1	0.2	88	0.074	82	2008
872190	669543	6232973					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	11	0.5	88	0.068	103	2008
867352	669448	6233401					30732	ARP	Acme	SMI08000701.1	Soil	0.2	11	0.2	88	0.104	79	2008
871602	671090	6234224					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	10	0.1	89	0.11	76	2008
871856	670299	6233387					30732	ARP	Acme	SMI08000695.1	Soil	0.1	2	0.2	89	0.083	65	2008
872135	670823	6233987					30732	ARP	Acme	SMI08000695.1	Soil	0.1	10	0.1	89	0.061	101	2008
871037	670011	6233312					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	6	0.2	89	0.09	100	2008
871852	670200	6233394					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	7	0.2	90	0.081	103	2008
866930	669761	6232386					30732	ARP	Acme	SMI08000701.1	Soil	0.1	3	0.2	90	0.15	96	2008
866932	669812	6232390					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	19	<0.1	90	0.094	64	2008
867708	669523	6232955					30732	ARP	Acme	SMI08000731.1	Soil	0.2	6	0.1	90	0.073	75	2008
867727	669657	6233040					30732	ARP	Acme	SMI08000731.1	Soil	0.3	3	0.3	90	0.04	91	2008
871043	670166	6233360					30732	ARP	Acme	SMI08000732.1	Soil	0.1	2	0.2	90	0.079	85	2008
870362	669152	6233192					30732	ARP	Acme	SMI08000702.1	Soil	0.1	2	0.5	90	0.087	111	2008

# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR	
851439	669977	6233609					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	<0.5	<0.1	91	0.121	75	2008	
867165	670022	6233001					30732	ARP	Acme	SMI08000701.1	Soil	<0.1		4	0.3	91	0.136	89	2008
867360	669648	6233402					30732	ARP	Acme	SMI08000701.1	Soil	0.1	2	0.7	91	0.122	149	2008	
867398	669599	6232991					30732	ARP	Acme	SMI08000702.1	Soil	0.2	5	0.3	91	0.088	125	2008	
867496	669558	6232679					30732	ARP	Acme	SMI08000731.1	Soil	0.1	4	0.3	91	0.117	116	2008	
867782	670396	6232208					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	3	0.2	91	0.099	115	2008	
871031	669887	6233221					30732	ARP	Acme	SMI08000732.1	Soil	0.2	2	0.8	91	0.089	101	2008	
870356	669306	6232305					30732	ARP	Acme	SMI08000702.1	Soil	0.2	2	0.4	91	0.058	106	2008	
872055	670900	6233633					30732	ARP	Acme	SMI08000695.1	Soil	0.1	30	<0.1	92	0.097	78	2008	
866928	669712	6232388					30732	ARP	Acme	SMI08000701.1	Soil	0.2	5	0.4	92	0.203	73	2008	
867411	669424	6232593					30732	ARP	Acme	SMI08000702.1	Soil	0.1	5	0.4	92	0.146	75	2008	
871963	669626	6232804					30732	ARP	Acme	SMI08000702.1	Soil	0.2	3	0.2	92	0.087	72	2008	
867017	669883	6232197					30732	ARP	Acme	SMI08000731.1	Soil	0.1	3	0.3	92	0.085	85	2008	
867056	670829	6233526					30732	ARP	Acme	SMI08000731.1	Soil	0.3	4	0.3	92	0.104	47	2008	
867118	669600	6233811					30732	ARP	Acme	SMI08000701.1	Soil	0.3	3	0.2	92	0.069	76	2008	
852113	670912	6233819					30732	ARP	Acme	SMI08000695.1	Soil	0.2	2	<0.1	93	0.073	93	2008	
872032	670333	6233608					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	3	0.2	93	0.056	86	2008	
872035	670406	6233617					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	3	<0.1	93	0.072	82	2008	
867394	669498	6232990					30732	ARP	Acme	SMI08000702.1	Soil	0.2	2	0.2	93	0.046	53	2008	
883677	669077	6232795					30732	ARP	Acme	SMI08000702.1	Soil	0.4	3	0.5	93	0.1	89	2008	
867811	669698	6233091					30732	ARP	Acme	SMI08000731.1	Soil	0.2	3	0.3	93	0.138	72	2008	
871866	670547	6233383					30732	ARP	Acme	SMI08000695.1	Soil	0.2	2	0.3	94	0.078	103	2008	
867389	669374	6232996					30732	ARP	Acme	SMI08000702.1	Soil	0.1	4	0.3	94	0.087	144	2008	
870373	670120	6233221					30732	ARP	Acme	SMI08000702.1	Soil	0.2	3	0.2	94	0.11	93	2008	
867014	669808	6232193					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	6	0.3	94	0.065	90	2008	
867043	670525	6233356					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	11	0.2	94	0.093	83	2008	
867055	670799	6233523					30732	ARP	Acme	SMI08000731.1	Soil	0.2	2	0.3	94	0.09	61	2008	
871056	670498	6233399					30732	ARP	Acme	SMI08000732.1	Soil	0.1	3	0.2	94	0.048	93	2008	
870376	670204	6233209					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	2	0.2	95	0.049	70	2008	
867011	669731	6232196					30732	ARP	Acme	SMI08000731.1	Soil	0.3	5	0.3	95	0.129	86	2008	
867729	669695	6233073					30732	ARP	Acme	SMI08000731.1	Soil	0.2	2	0.2	95	0.045	68	2008	
871042	670138	6233357					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	5	0.2	95	0.056	89	2008	
867132	669148	6233808					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	3	<0.1	95	0.186	64	2008	
884929	669004	6233600					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	3	0.2	95	0.099	74	2008	
871881	670923	6233385					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	5	<0.1	96	0.074	98	2008	
872053	670852	6233631					30732	ARP	Acme	SMI08000695.1	Soil	0.5	2	0.1	96	0.059	80	2008	
867362	669698	6233401					30732	ARP	Acme	SMI08000701.1	Soil	0.2	2	0.2	96	0.067	71	2008	
870332	669900	6233208					30732	ARP	Acme	SMI08000702.1	Soil	0.1	5	0.3	96	0.056	98	2008	
867479	669740	6232323					30732	ARP	Acme	SMI08000731.1	Soil	0.5	3	0.9	96	0.111	69	2008	
870365	669073	6233189					30732	ARP	Acme	SMI08000702.1	Soil	0.1	7	0.6	96	0.097	88	2008	
871611	671308	6234241					30732	ARP	Acme	SMI08000695.1	Soil	0.5	<0.5	0.4	97	0.066	83	2008	
871858	670350	6233395					30732	ARP	Acme	SMI08000695.1	Soil	0.1	4	0.4	97	0.076	107	2008	
867392	669446	6232995					30732	ARP	Acme	SMI08000702.1	Soil	0.2	5	0.3	97	0.098	118	2008	
867063	670995	6233593					30732	ARP	Acme	SMI08000731.1	Soil	0.2	2	0.3	97	0.073	115	2008	
871063	670645	6233475					30732	ARP	Acme	SMI08000732.1	Soil	0.1	2	0.1	97	0.077	90	2008	
872192	669495	6232958					30732	ARP	Acme	SMI08000732.1	Soil	0.2	3	0.4	97	0.081	119	2008	
872196	669399	6232966					30732	ARP	Acme	SMI08000732.1	Soil	0.2	6	0.5	97	0.113	136	2008	
872197	669377	6232951					30732	ARP	Acme	SMI08000732.1	Soil	0.2	1	0.4	97	0.112	144	2008	
867422	669699	6232598					30732	ARP	Acme	SMI08000702.1	Soil	0.2	2	0.2	98	0.119	107	2008	
867008	669654	6232193					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	4	0.2	98	0.132	86	2008	
867032	670251	6233379					30732	ARP	Acme	SMI08000731.1	Soil	0.1	4	0.4	98	0.107	68	2008	
867781	670420	6232201					30732	ARP	Acme	SMI08000731.1	Soil	0.1	3	0.1	98	0.09	100	2008	
867783	670340	6232210					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	6	0.2	98	0.11	104	2008	
871058	670539	6233392					30732	ARP	Acme	SMI08000732.1	Soil	0.2	4	0.1	98	0.076	102	2008	
867353	669473	6233402					30732	ARP	Acme	SMI08000701.1	Soil	0.2	6	0.3	98	0.108	76	2008	
872103	670022	6234000					30732	ARP	Acme	SMI08000695.1	Soil	0.7	3	1	99	0.214	148	2008	
870374	670159	6233209					30732	ARP	Acme	SMI08000702.1	Soil	0.2	3	0.1	99	0.127	94	2008	
867016	669857	6232198					30732	ARP	Acme	SMI08000731.1	Soil	0.2	8	0.1	99	0.139	87	2008	
867705	669498	6232889					30732	ARP	Acme	SMI08000731.1	Soil	0.2	3	0.3	99	0.069	84	2008	

# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR
867794	670075	6232195					30732	ARP	Acme	SMI08000731.1	Soil	0.1	2	0.1	99	0.095	72	2008
871036	669980	6233312					30732	ARP	Acme	SMI08000732.1	Soil	0.1	2	<0.1	99	0.081	90	2008
871890	671149	6233384					30732	ARP	Acme	SMI08000695.1	Soil	0.3	9	0.1	100	0.083	111	2008
872033	670357	6233615					30732	ARP	Acme	SMI08000695.1	Soil	0.2	2	0.1	100	0.045	79	2008
872066	671161	6233624					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	7	0.2	100	0.073	85	2008
872202	668825	6232999					30732	ARP	Acme	SMI08000695.1	Soil	0.7	2	0.4	100	0.171	116	2008
867192	670697	6232984					30732	ARP	Acme	SMI08000701.1	Soil	0.1	4	0.3	100	0.088	117	2008
867427	669823	6232597					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	3	0.3	100	0.097	284	2008
867054	670780	6233503					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	3	0.2	100	0.095	66	2008
867733	669788	6233101					30732	ARP	Acme	SMI08000731.1	Soil	0.4	3	0.3	100	0.09	103	2008
871864	670485	6233383					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	4	0.2	101	0.098	78	2008
867157	669824	6232997					30732	ARP	Acme	SMI08000701.1	Soil	0.2	3	0.1	101	0.112	93	2008
867177	670322	6232995					30732	ARP	Acme	SMI08000701.1	Soil	0.1	2	0.2	101	0.072	116	2008
867415	669524	6232593					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	4	0.4	101	0.138	116	2008
867452	670478	6232594					30732	ARP	Acme	SMI08000702.1	Soil	0.3	3	0.1	101	0.12	311	2008
870389	670529	6233207					30732	ARP	Acme	SMI08000702.1	Soil	0.7	3	0.1	101	0.107	136	2008
867010	669705	6232195					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	6	0.2	101	0.131	82	2008
867724	669616	6232991					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	3	0.4	101	0.122	110	2008
867812	669722	6233100					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	2	0.1	101	0.115	84	2008
870346	669557	6233204					30732	ARP	Acme	SMI08000702.1	Soil	0.1	3	0.1	101	0.105	74	2008
867151	669675	6232988					30732	ARP	Acme	SMI08000701.1	Soil	0.2	3	0.3	102	0.163	93	2008
867158	669850	6232995					30732	ARP	Acme	SMI08000701.1	Soil	0.1	4	0.2	102	0.108	102	2008
867162	669948	6233002					30732	ARP	Acme	SMI08000701.1	Soil	0.1	3	0.2	102	0.131	82	2008
852077	670045	6233812					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	3	0.1	103	0.105	71	2008
871857	670326	6233392					30732	ARP	Acme	SMI08000695.1	Soil	0.2	2	0.4	103	0.086	107	2008
871964	669602	6232796					30732	ARP	Acme	SMI08000702.1	Soil	0.1	5	0.1	103	0.116	95	2008
867488	669656	6232525					30732	ARP	Acme	SMI08000731.1	Soil	0.5	7	0.2	103	0.085	84	2008
871041	670112	6233355					30732	ARP	Acme	SMI08000732.1	Soil	0.2	40	0.3	103	0.071	95	2008
871055	670473	6233408					30732	ARP	Acme	SMI08000732.1	Soil	0.2	1	0.2	103	0.086	83	2008
872123	670523	6233977					30732	ARP	Acme	SMI08000695.1	Soil	0.1	5	<0.1	104	0.035	122	2008
872131	670724	6233985					30732	ARP	Acme	SMI08000695.1	Soil	0.2	15	0.1	104	0.045	117	2008
867718	669318	6232901					30732	ARP	Acme	SMI08000731.1	Soil	0.1	4	0.4	104	0.07	118	2008
872068	671212	6233632					30732	ARP	Acme	SMI08000695.1	Soil	0.4	13	0.1	105	0.061	86	2008
866929	669738	6232386					30732	ARP	Acme	SMI08000701.1	Soil	0.1	3	0.3	105	0.119	88	2008
867725	669635	6233008					30732	ARP	Acme	SMI08000731.1	Soil	0.1	2	0.2	105	0.09	121	2008
867166	670048	6233000					30732	ARP	Acme	SMI08000701.1	Soil	0.1	4	0.2	106	0.084	95	2008
867704	669505	6232865					30732	ARP	Acme	SMI08000731.1	Soil	0.3	2	0.3	106	0.077	70	2008
867714	669397	6232959					30732	ARP	Acme	SMI08000731.1	Soil	0.1	7	0.5	106	0.081	113	2008
884926	669082	6233603					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	9	<0.1	106	0.067	68	2008
871968	669506	6232808					30732	ARP	Acme	SMI08000702.1	Soil	0.3	5	0.2	107	0.122	88	2008
867732	669768	6233085					30732	ARP	Acme	SMI08000731.1	Soil	0.2	3	0.3	107	0.077	81	2008
867804	669566	6232979					30732	ARP	Acme	SMI08000731.1	Soil	0.1	10	0.4	107	0.097	112	2008
870354	669348	6233212					30732	ARP	Acme	SMI08000702.1	Soil	0.2	1	0.8	107	0.099	120	2008
871878	670849	6233380					30732	ARP	Acme	SMI08000695.1	Soil	0.2	4	0.1	108	0.046	97	2008
867031	670221	6233380					30732	ARP	Acme	SMI08000731.1	Soil	0.3	4	0.2	108	0.093	76	2008
852075	669998	6233805					30732	ARP	Acme	SMI08000695.1	Soil	0.5	1	0.2	109	0.066	107	2008
866957	670439	6232397					30732	ARP	Acme	SMI08000701.1	Soil	0.2	3	0.6	110	0.155	161	2008
867027	670124	6233345					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	3	0.1	110	0.113	95	2008
867715	669381	6232940					30732	ARP	Acme	SMI08000731.1	Soil	0.2	4	0.5	110	0.087	115	2008
870343	669627	6233206					30732	ARP	Acme	SMI08000702.1	Soil	0.3	7	0.2	110	0.135	114	2008
852116	670987	6233823					30732	ARP	Acme	SMI08000695.1	Soil	0.2	<0.5	<0.1	111	0.062	153	2008
871603	671114	6234229					30732	ARP	Acme	SMI08000695.1	Soil	0.1	5	0.1	111	0.112	81	2008
867068	671136	6233675					30732	ARP	Acme	SMI08000731.1	Soil	0.1	5	0.2	111	0.087	78	2008
867779	670471	6232189					30732	ARP	Acme	SMI08000731.1	Soil	0.1	4	0.3	111	0.115	111	2008
867810	669674	6233080					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	2	0.1	111	0.14	105	2008
871562	670098	6234203					30732	ARP	Acme	SMI08000695.1	Soil	1.7	5	0.5	112	0.153	130	2008
872060	671017	6233640					30732	ARP	Acme	SMI08000695.1	Soil	0.2	24	0.2	112	0.068	96	2008
870337	669771	6233204					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	1	0.2	112	0.068	76	2008
867792	670123	6232202					30732	ARP	Acme	SMI08000731.1	Soil	0.1	6	0.2	112	0.109	141	2008

# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR
870353	669374	6233205					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	3	0.3	112	0.087	69	2008
867164	670000	6233001					30732	ARP	Acme	SMI08000701.1	Soil	0.6	4	0.2	113	0.106	74	2008
867495	669566	6232655					30732	ARP	Acme	SMI08000731.1	Soil	0.4	6	0.2	113	0.124	76	2008
872189	669505	6232940					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	6	0.2	113	0.086	105	2008
870345	669581	6233202					30732	ARP	Acme	SMI08000702.1	Soil	0.4	<0.5	1.3	113	0.323	75	2008
867412	669450	6232592					30732	ARP	Acme	SMI08000702.1	Soil	0.1	5	0.4	114	0.178	103	2008
870371	670070	6233210					30732	ARP	Acme	SMI08000702.1	Soil	0.1	1	0.3	114	0.051	149	2008
872156	669785	6232210					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	4	0.2	114	0.084	79	2008
851441	669932	6233600					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	2	0.2	115	0.114	79	2008
866984	669054	6232202					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	7	0.3	115	0.137	98	2008
867800	669311	6232906					30732	ARP	Acme	SMI08000731.1	Soil	0.2	4	0.4	115	0.125	131	2008
872187	669497	6232901					30732	ARP	Acme	SMI08000732.1	Soil	0.2	6	0.2	115	0.094	105	2008
872040	670532	6233624					30732	ARP	Acme	SMI08000695.1	Soil	0.2	4	0.3	116	0.077	82	2008
867413	669473	6232591					30732	ARP	Acme	SMI08000702.1	Soil	0.1	12	0.3	116	0.117	97	2008
867711	669468	6232941					30732	ARP	Acme	SMI08000731.1	Soil	0.1	4	0.4	116	0.08	82	2008
867135	669023	6233403					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	33	0.5	116	0.11	68	2008
871882	670949	6233381					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	11	<0.1	117	0.048	107	2008
872062	671063	6233640					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	4	0.1	117	0.087	82	2008
867417	669571	6232590					30732	ARP	Acme	SMI08000702.1	Soil	0.2	6	0.3	117	0.117	91	2008
867061	670949	6233574					30732	ARP	Acme	SMI08000731.1	Soil	0.2	3	0.1	117	0.08	106	2008
867494	669583	6232637					30732	ARP	Acme	SMI08000731.1	Soil	0.5	4	0.1	117	0.094	84	2008
867702	669509	6232814					30732	ARP	Acme	SMI08000731.1	Soil	0.2	4	0.3	117	0.087	90	2008
870347	669529	6233199					30732	ARP	Acme	SMI08000702.1	Soil	0.2	3	0.2	117	0.122	109	2008
872122	670500	6233980					30732	ARP	Acme	SMI08000695.1	Soil	0.2	6	0.3	118	0.063	117	2008
871065	670684	6233516					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	29	0.2	118	0.1	62	2008
872195	669427	6232963					30732	ARP	Acme	SMI08000732.1	Soil	0.2	9	0.5	118	0.078	113	2008
871862	670428	6233373					30732	ARP	Acme	SMI08000695.1	Soil	0.2	11	0.3	119	0.098	110	2008
851599	669151	6232789					30732	ARP	Acme	SMI08000701.1	Soil	0.2	3	0.5	119	0.085	141	2008
867175	670272	6232996					30732	ARP	Acme	SMI08000701.1	Soil	0.2	3	0.1	119	0.057	110	2008
870330	670010	6233292					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	4	0.2	119	0.118	111	2008
872194	669447	6232976					30732	ARP	Acme	SMI08000732.1	Soil	0.1	7	0.3	119	0.063	105	2008
870368	669000	6233199					30732	ARP	Acme	SMI08000702.1	Soil	0.3	5	1.2	119	0.183	107	2008
872029	670258	6233607					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	2	0.1	120	0.104	79	2008
872052	670829	6233627					30732	ARP	Acme	SMI08000695.1	Soil	0.2	3	<0.1	120	0.058	89	2008
867025	670085	6233311					30732	ARP	Acme	SMI08000731.1	Soil	0.1	3	0.2	120	0.112	127	2008
867478	669753	6232301					30732	ARP	Acme	SMI08000731.1	Soil	0.4	8	0.7	120	0.129	105	2008
872157	669779	6232235					30732	ARP	Acme	SMI08000732.1	Soil	0.1	7	0.3	120	0.108	89	2008
867369	669874	6233401					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	24	0.1	121	0.098	90	2008
849898	669960	6233262					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	4	0.2	121	0.075	88	2008
867721	669267	6232845					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	2	0.2	121	0.095	71	2008
867148	669348	6233404					30732	ARP	Acme	SMI08000701.1	Soil	0.2	2	0.1	121	0.108	84	2008
867709	669547	6232961					30732	ARP	Acme	SMI08000731.1	Soil	0.2	8	0.3	122	0.09	94	2008
872186	669500	6232877					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	8	0.3	122	0.115	96	2008
867359	669622	6233400					30732	ARP	Acme	SMI08000701.1	Soil	0.1	2	0.3	122	0.113	93	2008
867391	669422	6232996					30732	ARP	Acme	SMI08000702.1	Soil	0.3	4	0.5	123	0.193	109	2008
867433	669972	6232601					30732	ARP	Acme	SMI08000702.1	Soil	0.1	4	0.2	123	0.09	92	2008
852110	670842	6233831					30732	ARP	Acme	SMI08000695.1	Soil	0.2	6	0.2	124	0.082	111	2008
871853	670225	6233389					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	1	0.2	124	0.083	90	2008
872155	670125	6233394					30732	ARP	Acme	SMI08000695.1	Soil	0.1	7	<0.1	124	0.109	79	2008
871034	669931	6233290					30732	ARP	Acme	SMI08000732.1	Soil	0.1	2	0.4	125	0.148	86	2008
872039	670507	6233624					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	6	0.2	126	0.097	116	2008
870328	670000	6233197					30732	ARP	Acme	SMI08000702.1	Soil	0.2	5	0.3	126	0.139	115	2008
867726	669659	6233015					30732	ARP	Acme	SMI08000731.1	Soil	0.2	3	0.3	126	0.094	75	2008
871972	669408	6232794					30732	ARP	Acme	SMI08000702.1	Soil	0.3	4	0.3	127	0.189	82	2008
872185	669500	6232853					30732	ARP	Acme	SMI08000732.1	Soil	0.2	4	0.2	127	0.093	95	2008
851447	669785	6233604					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	3	0.2	128	0.098	77	2008
851449	669736	6233618					30732	ARP	Acme	SMI08000701.1	Soil	0.2	2	0.2	128	0.11	97	2008
866990	669202	6232205					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	1	0.1	128	0.126	82	2008
870361	669180	6233192					30732	ARP	Acme	SMI08000702.1	Soil	0.3	2	0.9	128	0.171	152	2008

# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR
872200	668775	6233001					30732	ARP	Acme	SMI08000695.1	Soil	0.2	7	0.9	129	0.14	127	2008
871033	669920	6233263					30732	ARP	Acme	SMI08000732.1	Soil	0.4	2	0.8	129	0.241	107	2008
867425	669775	6232595					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	4	0.2	131	0.122	95	2008
883680	669000	6232809					30732	ARP	Acme	SMI08000702.1	Soil	0.7	3	1	131	0.099	217	2008
867476	669779	6232258					30732	ARP	Acme	SMI08000731.1	Soil	0.3	3	0.3	131	0.108	113	2008
870359	669232	6233197					30732	ARP	Acme	SMI08000702.1	Soil	0.3	2	0.8	131	0.133	91	2008
851448	669761	6233615					30732	ARP	Acme	SMI08000701.1	Soil	0.1	4	0.3	132	0.106	90	2008
872179	669537	6232705					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	5	0.2	132	0.114	95	2008
867409	669373	6232590					30732	ARP	Acme	SMI08000702.1	Soil	0.2	6	0.2	134	0.172	97	2008
872184	669502	6232825					30732	ARP	Acme	SMI08000732.1	Soil	0.2	5	0.2	134	0.104	105	2008
866941	670029	6232393					30732	ARP	Acme	SMI08000701.1	Soil	0.1	8	<0.1	135	0.079	81	2008
849895	669926	6233209					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	2	0.3	135	0.087	79	2008
867042	670506	6233367					30732	ARP	Acme	SMI08000731.1	Soil	0.1	2	0.2	136	0.095	70	2008
867497	669543	6232700					30732	ARP	Acme	SMI08000731.1	Soil	0.1	5	0.4	136	0.121	115	2008
867731	669745	6233076					30732	ARP	Acme	SMI08000731.1	Soil	0.3	2	0.2	136	0.072	74	2008
871044	670186	6233378					30732	ARP	Acme	SMI08000732.1	Soil	0.2	6	0.2	136	0.097	79	2008
867009	669678	6232191					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	6	0.3	137	0.168	102	2008
872025	670154	6233603					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	2	<0.1	138	0.102	78	2008
867484	669665	6232425					30732	ARP	Acme	SMI08000731.1	Soil	0.3	6	0.4	138	0.131	82	2008
867013	669783	6232193					30732	ARP	Acme	SMI08000731.1	Soil	0.2	4	0.2	139	0.102	87	2008
867707	669504	6232940					30732	ARP	Acme	SMI08000731.1	Soil	0.3	5	0.4	139	0.088	103	2008
867421	669675	6232595					30732	ARP	Acme	SMI08000702.1	Soil	0.3	5	0.3	141	0.081	97	2008
871080	671045	6233685					30732	ARP	Acme	SMI08000732.1	Soil	0.2	5	<0.1	141	0.083	100	2008
867700	669511	6232768					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	5	0.3	142	0.108	97	2008
867710	669492	6232944					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	5	0.4	142	0.109	95	2008
866937	669933	6232385					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	4	0.2	143	0.157	82	2008
867193	670721	6232987					30732	ARP	Acme	SMI08000701.1	Soil	0.5	12	0.3	143	0.089	74	2008
866986	669100	6232209					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	3	0.3	143	0.162	116	2008
871071	670828	6203562					30732	ARP	Acme	SMI08000732.1	Soil	0.1	3	0.1	144	0.07	89	2008
867035	670329	6233383					30732	ARP	Acme	SMI08000731.1	Soil	0.2	3	0.4	145	0.11	109	2008
872188	669498	6232926					30732	ARP	Acme	SMI08000732.1	Soil	0.1	5	0.2	145	0.109	115	2008
884911	669504	6233595					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	3	0.2	145	0.099	102	2008
866921	669532	6232388					30732	ARP	Acme	SMI08000701.1	Soil	0.1	3	0.4	146	0.216	108	2008
866999	669425	6232192					30732	ARP	Acme	SMI08000731.1	Soil	0.1	4	0.2	146	0.152	115	2008
867493	669601	6232620					30732	ARP	Acme	SMI08000731.1	Soil	0.6	9	0.2	146	0.095	97	2008
867388	669347	6232998					30732	ARP	Acme	SMI08000702.1	Soil	0.5	3	0.7	147	0.14	94	2008
866992	669251	6232204					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	1	0.2	147	0.077	85	2008
872180	669523	6232727					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	10	0.2	147	0.107	102	2008
871588	670747	6234209					30732	ARP	Acme	SMI08000695.1	Soil	0.2	2	<0.1	148	0.04	136	2008
867482	669692	6232381					30732	ARP	Acme	SMI08000731.1	Soil	0.4	9	0.4	149	0.209	100	2008
870344	669604	6233206					30732	ARP	Acme	SMI08000702.1	Soil	0.2	2	0.2	149	0.049	88	2008
867410	669399	6232592					30732	ARP	Acme	SMI08000702.1	Soil	0.1	6	0.3	150	0.137	104	2008
867004	669547	6232187					30732	ARP	Acme	SMI08000731.1	Soil	0.2	2	0.5	150	0.12	100	2008
867060	670931	6233549					30732	ARP	Acme	SMI08000731.1	Soil	0.2	5	0.2	150	0.1	100	2008
872174	669609	6232610					30732	ARP	Acme	SMI08000732.1	Soil	0.3	6	0.4	151	0.081	94	2008
867390	669398	6232994					30732	ARP	Acme	SMI08000702.1	Soil	0.2	4	0.3	152	0.148	143	2008
884905	669659	6233632					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	1	0.1	153	0.126	98	2008
867024	670064	6233311					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	5	0.2	153	0.103	131	2008
866922	669562	6232387					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	5	0.3	157	0.172	98	2008
867703	669505	6232839					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	4	0.4	157	0.108	103	2008
867706	669498	6232914					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	4	0.3	157	0.097	100	2008
867006	669596	6232195					30732	ARP	Acme	SMI08000731.1	Soil	0.2	3	0.6	158	0.113	104	2008
867161	669925	6232996					30732	ARP	Acme	SMI08000701.1	Soil	0.2	4	0.1	159	0.168	97	2008
867419	669623	6232593					30732	ARP	Acme	SMI08000702.1	Soil	0.6	7	0.6	159	0.113	102	2008
867146	669298	6233403					30732	ARP	Acme	SMI08000701.1	Soil	0.2	4	0.1	159	0.09	70	2008
872158	669769	6232259					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	7	0.3	160	0.133	113	2008
866988	669151	6232208					30732	ARP	Acme	SMI08000731.1	Soil	0.2	4	0.4	161	0.194	105	2008
867492	669624	6232607					30732	ARP	Acme	SMI08000731.1	Soil	0.1	4	0.4	161	0.121	107	2008
867499	669517	6232743					30732	ARP	Acme	SMI08000731.1	Soil	0.1	7	0.4	161	0.118	104	2008



# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR
867005	669570	6232197					30732	ARP	Acme	SMI08000731.1	Soil	0.2	7	0.6	162	0.137	115	2008
866923	669584	6232388					30732	ARP	Acme	SMI08000701.1	Soil	0.1	8	0.2	163	0.222	119	2008
872065	671135	6233628					30732	ARP	Acme	SMI08000695.1	Soil	0.2	12	0.2	164	0.082	108	2008
866995	669322	6232185					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	6	0.2	164	0.148	112	2008
884923	669210	6233584					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	4	<0.1	164	0.081	58	2008
866918	669456	6232391					30732	ARP	Acme	SMI08000701.1	Soil	0.2	4	0.4	165	0.211	138	2008
849890	669824	6233105					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	3	0.3	165	0.053	95	2008
867701	669498	6232790					30732	ARP	Acme	SMI08000731.1	Soil	0.1	9	0.3	165	0.124	106	2008
871604	671139	6234234					30732	ARP	Acme	SMI08000695.1	Soil	0.1	<0.5	0.2	166	0.079	129	2008
871982	670147	6232797					30732	ARP	Acme	SMI08000702.1	Soil	0.3	9	0.4	166	0.143	113	2008
867801	669289	6232880					30732	ARP	Acme	SMI08000731.1	Soil	0.3	2	0.5	166	0.126	133	2008
872159	669758	6232283					30732	ARP	Acme	SMI08000732.1	Soil	0.1	8	0.3	166	0.124	102	2008
870369	670024	6233219					30732	ARP	Acme	SMI08000702.1	Soil	0.3	4	0.3	167	0.085	101	2008
872165	669665	6232405					30732	ARP	Acme	SMI08000732.1	Soil	0.2	7	0.4	167	0.167	108	2008
884928	669031	6233599					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	4	0.1	168	0.106	53	2008
872021	670052	6233610					30732	ARP	Acme	SMI08000695.1	Soil	0.2	20	0.4	170	0.078	84	2008
866906	669155	6232391					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	4	0.1	170	0.132	75	2008
867363	669723	6233402					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	3	0.2	170	0.109	90	2008
866991	669224	6232204					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	2	0.1	170	0.14	87	2008
871046	670235	6233395					30732	ARP	Acme	SMI08000732.1	Soil	0.2	3	0.4	171	0.127	109	2008
884907	669603	6233626					30732	ARP	Acme	SMI08000702.1	Soil	0.3	2	0.1	171	0.077	93	2008
872054	670875	6233634					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	1	0.1	173	0.072	80	2008
866939	669983	6232390					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	3	0.1	173	0.094	86	2008
867404	669198	6232590					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	3	0.1	173	0.135	77	2008
867174	670249	6232993					30732	ARP	Acme	SMI08000701.1	Soil	0.1	209	0.2	174	0.079	161	2008
866998	669400	6232180					30732	ARP	Acme	SMI08000731.1	Soil	0.3	6	0.4	174	0.14	137	2008
872172	669647	6232577					30732	ARP	Acme	SMI08000732.1	Soil	0.1	5	0.3	174	0.135	104	2008
867163	669976	6233002					30732	ARP	Acme	SMI08000701.1	Soil	0.2	5	0.4	175	0.103	108	2008
870352	669399	6233208					30732	ARP	Acme	SMI08000702.1	Soil	0.2	2	0.3	175	0.087	68	2008
872171	669659	6232555					30732	ARP	Acme	SMI08000732.1	Soil	0.2	4	0.3	176	0.124	91	2008
871569	670271	6234205					30732	ARP	Acme	SMI08000695.1	Soil	0.2	9	0.3	177	0.05	74	2008
867401	669098	6232591					30732	ARP	Acme	SMI08000702.1	Soil	0.1	4	0.1	178	0.11	98	2008
867403	669148	6232590					30732	ARP	Acme	SMI08000702.1	Soil	0.1	3	0.2	178	0.122	92	2008
867022	669998	6232192					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	11	0.2	178	0.197	58	2008
867481	669705	6232360					30732	ARP	Acme	SMI08000731.1	Soil	0.2	8	0.4	178	0.135	111	2008
872164	669689	6232387					30732	ARP	Acme	SMI08000732.1	Soil	0.1	7	0.4	178	0.179	133	2008
872177	669548	6232654					30732	ARP	Acme	SMI08000732.1	Soil	0.3	5	0.3	178	0.092	103	2008
871953	669874	6232814					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	4	0.3	179	0.084	86	2008
867000	669447	6232195					30732	ARP	Acme	SMI08000731.1	Soil	0.3	8	0.7	179	0.128	140	2008
872162	669711	6232343					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	12	0.3	179	0.148	97	2008
871575	670421	6234207					30732	ARP	Acme	SMI08000695.1	Soil	<0.1	7	<0.1	180	0.044	86	2008
866985	669077	6232208					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	4	0.2	180	0.158	106	2008
867498	669530	6232722					30732	ARP	Acme	SMI08000731.1	Soil	<0.1	6	0.2	180	0.12	90	2008
851446	669809	6233602					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	2	0.1	181	0.098	82	2008
867381	669173	6232996					30732	ARP	Acme	SMI08000701.1	Soil	0.5	3	0.3	181	0.086	118	2008
866914	669362	6232389					30732	ARP	Acme	SMI08000701.1	Soil	0.2	8	0.4	185	0.198	105	2008
872064	671112	6233636					30732	ARP	Acme	SMI08000695.1	Soil	0.2	6	0.2	186	0.073	104	2008
884903	669711	6233623					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	3	0.2	186	0.104	78	2008
866907	669184	6232393					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	4	0.1	187	0.15	86	2008
872175	669583	6232618					30732	ARP	Acme	SMI08000732.1	Soil	0.2	5	0.4	187	0.129	110	2008
867480	669721	6232341					30732	ARP	Acme	SMI08000731.1	Soil	0.3	5	0.7	188	0.249	137	2008
872024	670130	6233608					30732	ARP	Acme	SMI08000695.1	Soil	0.2	3	<0.1	190	0.091	95	2008
867133	669024	6233801					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	4	0.1	190	0.114	80	2008
866927	669680	6232385					30732	ARP	Acme	SMI08000701.1	Soil	0.5	8	0.6	191	0.218	111	2008
867160	669898	6232999					30732	ARP	Acme	SMI08000701.1	Soil	0.2	12	0.7	191	0.155	142	2008
872049	670754	6233629					30732	ARP	Acme	SMI08000695.1	Soil	0.2	4	0.1	192	0.06	103	2008
872148	671140	6233994					30732	ARP	Acme	SMI08000695.1	Soil	0.1	4	0.3	192	0.104	113	2008
866920	669506	6232386					30732	ARP	Acme	SMI08000701.1	Soil	0.2	5	0.4	192	0.152	118	2008
867402	669125	6232591					30732	ARP	Acme	SMI08000702.1	Soil	0.3	1	0.3	193	0.113	112	2008

# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR
871978	670048	6232799					30732	ARP	Acme	SMI08000702.1	Soil	0.1	5	0.5	193	0.135	174	2008
866917	669435	6232392					30732	ARP	Acme	SMI08000701.1	Soil	0.2	8	0.5	194	0.189	134	2008
867007	669623	6232194					30732	ARP	Acme	SMI08000731.1	Soil	0.2	6	0.6	194	0.119	115	2008
867143	669223	6233402					30732	ARP	Acme	SMI08000701.1	Soil	0.2	18	0.1	194	0.098	62	2008
867490	669662	6232575					30732	ARP	Acme	SMI08000731.1	Soil	0.2	1	0.7	196	0.124	115	2008
872178	669544	6232681					30732	ARP	Acme	SMI08000732.1	Soil	0.1	6	0.3	196	0.122	105	2008
866915	669387	6232384					30732	ARP	Acme	SMI08000701.1	Soil	0.2	7	0.4	198	0.165	120	2008
870335	669824	6233208					30732	ARP	Acme	SMI08000702.1	Soil	0.5	1	0.4	198	0.097	107	2008
871082	671091	6233697					30732	ARP	Acme	SMI08000732.1	Soil	0.2	4	0.1	198	0.081	88	2008
867399	669624	6232990					30732	ARP	Acme	SMI08000702.1	Soil	0.2	2	0.2	200	0.122	72	2008
872173	669632	6232597					30732	ARP	Acme	SMI08000732.1	Soil	0.2	4	0.5	201	0.13	108	2008
872203	668850	6232998					30732	ARP	Acme	SMI08000695.1	Soil	0.9	6	1.6	203	0.186	207	2008
849891	669845	6233128					30732	ARP	Acme	SMI08000731.1	Soil	0.1	7	0.4	203	0.097	99	2008
867489	669665	6232548					30732	ARP	Acme	SMI08000731.1	Soil	0.1	6	0.3	203	0.114	116	2008
867145	669272	6233401					30732	ARP	Acme	SMI08000701.1	Soil	0.2	4	0.2	203	0.075	62	2008
866919	669479	6232388					30732	ARP	Acme	SMI08000701.1	Soil	0.3	7	0.4	207	0.169	121	2008
867487	669658	6232500					30732	ARP	Acme	SMI08000731.1	Soil	0.4	8	0.2	208	0.137	129	2008
867120	669550	6233812					30732	ARP	Acme	SMI08000701.1	Soil	0.3	4	0.3	208	0.104	90	2008
872051	670803	6233625					30732	ARP	Acme	SMI08000695.1	Soil	0.4	4	0.1	209	0.06	70	2008
866931	669788	6232388					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	4	0.5	209	0.091	102	2008
872119	670429	6233980					30732	ARP	Acme	SMI08000695.1	Soil	0.3	11	0.1	210	0.056	97	2008
866994	669300	6232194					30732	ARP	Acme	SMI08000731.1	Soil	0.1	5	0.5	211	0.159	102	2008
872176	669566	6232635					30732	ARP	Acme	SMI08000732.1	Soil	0.2	7	0.5	211	0.133	116	2008
872170	669651	6232531					30732	ARP	Acme	SMI08000732.1	Soil	0.3	5	0.6	212	0.143	130	2008
872154	670100	6233394					30732	ARP	Acme	SMI08000695.1	Soil	0.2	5	0.1	213	0.116	76	2008
866925	669641	6232385					30732	ARP	Acme	SMI08000701.1	Soil	0.3	5	0.5	213	0.312	146	2008
867153	669723	6232990					30732	ARP	Acme	SMI08000701.1	Soil	0.2	5	0.3	215	0.079	84	2008
867486	669659	6232474					30732	ARP	Acme	SMI08000731.1	Soil	0.5	12	0.7	215	0.149	114	2008
866933	669836	6232390					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	7	0.3	220	0.151	138	2008
867062	670973	6233584					30732	ARP	Acme	SMI08000731.1	Soil	0.2	5	0.2	221	0.137	108	2008
867485	669665	6232450					30732	ARP	Acme	SMI08000731.1	Soil	0.2	7	0.4	221	0.153	117	2008
866916	669413	6232393					30732	ARP	Acme	SMI08000701.1	Soil	0.3	7	0.4	222	0.172	116	2008
872050	670779	6233635					30732	ARP	Acme	SMI08000695.1	Soil	0.3	3	0.2	225	0.049	112	2008
866934	669857	6232383					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	12	0.2	229	0.247	108	2008
867003	669523	6232181					30732	ARP	Acme	SMI08000731.1	Soil	0.2	7	1.3	230	0.126	117	2008
867483	669679	6232405					30732	ARP	Acme	SMI08000731.1	Soil	0.3	7	0.6	231	0.163	138	2008
872160	669739	6232300					30732	ARP	Acme	SMI08000732.1	Soil	0.2	5	0.7	231	0.222	199	2008
872169	669649	6232506					30732	ARP	Acme	SMI08000732.1	Soil	<0.1	6	0.5	233	0.128	127	2008
884927	669057	6233599					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	5	<0.1	234	0.094	67	2008
872022	670079	6233608					30732	ARP	Acme	SMI08000695.1	Soil	0.4	4	0.3	235	0.045	102	2008
870351	669425	6233203					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	6	0.4	235	0.12	101	2008
848440	670789	6233206					30732	ARP	Acme	SMI08000701.1	Soil	1.1	366	0.3	236	0.098	146	2008
871957	669774	6232818					30732	ARP	Acme	SMI08000702.1	Soil	0.1	33	0.2	237	0.046	84	2008
872163	669694	6232362					30732	ARP	Acme	SMI08000732.1	Soil	0.1	6	0.5	237	0.154	153	2008
872168	669651	6232480					30732	ARP	Acme	SMI08000732.1	Soil	0.3	6	0.7	237	0.089	148	2008
872201	668802	6232997					30732	ARP	Acme	SMI08000695.1	Soil	0.7	5	1.1	238	0.179	176	2008
866935	669883	6232387					30732	ARP	Acme	SMI08000701.1	Soil	0.3	9	0.1	238	0.219	91	2008
870370	670052	6233213					30732	ARP	Acme	SMI08000702.1	Soil	0.8	3	0.3	238	0.216	168	2008
872120	670447	6233981					30732	ARP	Acme	SMI08000695.1	Soil	0.3	5	0.3	247	0.079	99	2008
872153	670075	6233398					30732	ARP	Acme	SMI08000695.1	Soil	0.5	6	0.1	247	0.13	67	2008
872048	670732	6233628					30732	ARP	Acme	SMI08000695.1	Soil	0.7	5	0.2	250	0.144	150	2008
867385	669272	6232998					30732	ARP	Acme	SMI08000701.1	Soil	0.8	5	2.2	253	0.142	174	2008
871961	669675	6232806					30732	ARP	Acme	SMI08000702.1	Soil	0.1	5	0.4	253	0.126	86	2008
866908	669212	6232393					30732	ARP	Acme	SMI08000701.1	Soil	0.2	4	0.3	254	0.158	110	2008
867400	669074	6232593					30732	ARP	Acme	SMI08000702.1	Soil	0.4	7	0.5	257	0.136	144	2008
866909	669230	6232387					30732	ARP	Acme	SMI08000701.1	Soil	0.2	5	0.4	258	0.181	123	2008
867405	669224	6232593					30732	ARP	Acme	SMI08000702.1	Soil	0.3	11	0.4	258	0.126	119	2008
867477	669769	6232281					30732	ARP	Acme	SMI08000731.1	Soil	0.7	8	0.7	258	0.158	160	2008
872181	669514	6232750					30732	ARP	Acme	SMI08000732.1	Soil	0.2	7	0.4	260	0.137	105	2008

# Historical Soil Samples

SAMPLE	E_UTM	N_UTM	ELEV_M	WF	LINE	STATION	Report	Area	Lab	Cert	Type	Ag_ppm	Au_ppb	Cd_ppm	Cu_ppm	P_pct	Zn_ppm	YEAR
866903	669080	6232401					30732	ARP	Acme	SMI08000701.1	Soil	0.2	7	0.4	261	0.154	110	2008
867386	669295	6233001					30732	ARP	Acme	SMI08000702.1	Soil	0.5	9	0.4	263	0.117	108	2008
872182	669501	6232770					30732	ARP	Acme	SMI08000732.1	Soil	0.2	8	0.6	267	0.119	117	2008
871083	671118	6233710					30732	ARP	Acme	SMI08000732.1	Soil	0.3	3	0.1	268	0.09	116	2008
867723	669592	6232982					30732	ARP	Acme	SMI08000731.1	Soil	0.2	5	0.3	272	0.126	76	2008
867406	669248	6232591					30732	ARP	Acme	SMI08000702.1	Soil	0.2	5	0.4	273	0.136	114	2008
867001	669472	6232195					30732	ARP	Acme	SMI08000731.1	Soil	0.3	7	0.8	273	0.125	134	2008
884912	669479	6233593					30732	ARP	Acme	SMI08000702.1	Soil	0.1	4	0.2	273	0.132	77	2008
884924	669185	6233591					30732	ARP	Acme	SMI08000702.1	Soil	<0.1	6	<0.1	274	0.073	70	2008
871081	671064	6233702					30732	ARP	Acme	SMI08000732.1	Soil	0.7	8	0.2	275	0.077	76	2008
866911	669282	6232391					30732	ARP	Acme	SMI08000701.1	Soil	0.3	9	0.3	282	0.171	120	2008
872167	669655	6232454					30732	ARP	Acme	SMI08000732.1	Soil	0.3	10	0.4	283	0.248	108	2008
867408	669349	6232590					30732	ARP	Acme	SMI08000702.1	Soil	0.2	3	0.3	287	0.103	97	2008
867475	669791	6232236					30732	ARP	Acme	SMI08000731.1	Soil	0.2	7	0.6	287	0.125	124	2008
867407	669299	6232589					30732	ARP	Acme	SMI08000702.1	Soil	0.2	5	0.3	288	0.111	97	2008
871954	669848	6232814					30732	ARP	Acme	SMI08000702.1	Soil	0.1	5	0.4	288	0.072	154	2008
867104	669951	6233807					30732	ARP	Acme	SMI08000701.1	Soil	0.4	2	0.5	289	0.104	181	2008
867144	669247	6233399					30732	ARP	Acme	SMI08000701.1	Soil	0.3	5	0.2	294	0.116	64	2008
867149	669375	6233399					30732	ARP	Acme	SMI08000701.1	Soil	0.3	4	0.1	299	0.125	89	2008
871877	670823	6233393					30732	ARP	Acme	SMI08000695.1	Soil	0.4	16	0.2	300	0.094	107	2008
867002	669495	6232186					30732	ARP	Acme	SMI08000731.1	Soil	0.3	15	1	300	0.127	131	2008
866902	669057	6232398					30732	ARP	Acme	SMI08000701.1	Soil	0.5	6	0.4	302	0.116	136	2008
866949	670234	6232397					30732	ARP	Acme	SMI08000701.1	Soil	0.5	19	0.2	304	0.057	87	2008
866996	669349	6232178					30732	ARP	Acme	SMI08000731.1	Soil	0.2	18	0.4	306	0.192	133	2008
866901	669032	6232396					30732	ARP	Acme	SMI08000701.1	Soil	0.5	5	0.6	314	0.151	155	2008
872166	669655	6232429					30732	ARP	Acme	SMI08000732.1	Soil	0.2	5	0.3	314	0.118	173	2008
866913	669336	6232393					30732	ARP	Acme	SMI08000701.1	Soil	0.9	24	0.7	318	0.204	160	2008
866910	669259	6232389					30732	ARP	Acme	SMI08000701.1	Soil	0.2	7	0.4	329	0.123	97	2008
867154	669750	6232989					30732	ARP	Acme	SMI08000701.1	Soil	0.5	17	0.7	330	0.161	151	2008
866912	669310	6232391					30732	ARP	Acme	SMI08000701.1	Soil	0.3	7	0.4	334	0.142	108	2008
866987	669123	6232208					30732	ARP	Acme	SMI08000731.1	Soil	0.2	5	0.3	336	0.222	106	2008
872161	669723	6232320					30732	ARP	Acme	SMI08000732.1	Soil	0.4	36	0.4	347	0.203	140	2008
866905	669128	6232393					30732	ARP	Acme	SMI08000701.1	Soil	0.1	6	0.1	355	0.171	97	2008
867130	669200	6233811					30732	ARP	Acme	SMI08000701.1	Soil	0.3	4	0.1	360	0.143	104	2008
866993	669277	6232201					30732	ARP	Acme	SMI08000731.1	Soil	0.1	3	0.2	395	0.152	127	2008
866904	669104	6232390					30732	ARP	Acme	SMI08000701.1	Soil	<0.1	6	0.1	426	0.195	90	2008
866900	669002	6232397					30732	ARP	Acme	SMI08000701.1	Soil	0.6	52	0.7	455	0.11	169	2008
866997	669375	6232177					30732	ARP	Acme	SMI08000731.1	Soil	0.6	11	0.5	465	0.143	134	2008
867155	669775	6232989					30732	ARP	Acme	SMI08000701.1	Soil	0.7	5	0.7	548	0.158	120	2008
852126	671232	6233804					30732	ARP	Acme	SMI08000695.1	Soil	0.2	5	0.4	718	0.161	91	2008
871576	670446	6234208					30732	ARP	Acme	SMI08000695.1	Soil	0.6	21	0.1	1856	0.078	119	2008
867436	670046	6232600					30732	ARP	Acme	SMI08000702.1	Soil	NS	NS	NS	NS	NS	NS	2008
870334	669847	6233205					30732	ARP	Acme	SMI08000702.1	Soil	NS	NS	NS	NS	NS	NS	2008
871956	669798	6232819					30732	ARP	Acme	SMI08000702.1	Soil	NS	NS	NS	NS	NS	NS	2008
883678	669051	6232799					30732	ARP	Acme	SMI08000702.1	Soil	NS	NS	NS	NS	NS	NS	2008

**APPENDIX II**

**HISTORICAL SAMPLE DATA**

**c. Rock Samples**

# Historical Rock Samples

SAMPLE	E_UTM	N_UTM	ACCURACY	ARIS	Area	Lab	LAB_FILE1	Type	Width_m	Ag_ppm	Al_pct	As_ppm	Au_ppb	B_ppm	Ba_ppm	Be_ppm	Bi_ppm
92262	664134	6239353	50	25586	Tom/Lake	ETL	AK97-1096	chip	1.00	10.2	2.23	<5	15		80		<5
92263	664126	6239368	50	25586	Tom/Lake	ETL	AK97-1096	chip	1.00	6.8	2.15	5	30		45		<5
92264	664119	6239383	50	25586	Tom/Lake	ETL	AK97-1096	chip	0.75	7.4	2.39	<5	15		105		<5
92265	664095	6239429	50	25586	Tom/Lake	ETL	AK97-1096	chip	1.50	8.4	2.16	<5	10		65		<5
92266	664080	6239462	50	25586	Tom/Lake	ETL	AK97-1096	chip	1.00	15.6	1.52	5	10		35		<5
92267	664089	6239230	50	25586	Tom/Lake	ETL	AK97-1096	grab		4.2	3.03	490	20		40		<5
92268	667319	6239474	50	25585	Mona Jean	ETL	AK97-1096	chip	4.00	12.8	0.53	255	<5		60		<5
92269	667440	6239359	50	25585	Mona Jean	ETL	AK97-1096	chip	5.00	25.6	0.83	15	<5		145		<5
Trench B	667488	6239802	25	5563	Mona Jean	NA	NA	chip	5.49								
Trench D	667517	6239783	25	5563	Mona Jean	NA	NA	chip	3.05								
Trench A	667454	6239812	25	5563	Mona Jean	NA	NA	chip	4.57								
Trench F	667610	6239581	25	5563	Mona Jean	NA	NA	chip	2.44								
Trench a	667315	6239883	25	5563	Mona Jean	NA	NA	chip	15.24								
869315	668874	6233918	10	30732	Arp	Acme	SMI08000794.1	grab		15.7	2.8	3	24	2	177		<0.1
869316	668877	6233911	10	30732	Arp	Acme	SMI08000794.1	grab		21.5	2.28	3	13	2	137		<0.1
869317	669355	6233793	10	30732	Arp	Acme	SMI08000794.1	grab		60.9	1.23	314	4	3	20		<0.1
869318	669362	6233786	10	30732	Arp	Acme	SMI08000794.1	grab		0.5	2.21	3	2	2	55		<0.1
#1	663789	6239304	50	18175	Tom/Lake	Chemex	A8820924	grab									
#2	663762	6239393	50	18175	Tom/Lake	Chemex	A8820924	grab									
#3	664519	6238955	50	18175	Tom/Lake	Chemex	A8820924	grab		6.1			<5				
60	667327	6237938	25	5047	Pad			grab									
59	666893	6237100	25	5047	Pad			grab									
63	666970	6238212	25	5047	Pad			grab									
62	667302	6238139	25	5047	Pad			grab									
61	667539	6239189	25	5047	Pad			grab									
56	666941	6239179	25	5047	Pad			grab									
58	667658	6239501	25	5047	Pad			grab									
57	667492	6239034	25	5047	Pad			grab									

## Historical Rock Samples

SAMPLE	E_UTM	N_UTM	Ca_pct	Cd_ppm	Co_ppm	Cr_ppm	Cu_pct	Cu_ppm	Fe_pct	Ga_ppm	Hg_ppm	K_pct	La_ppm	Mg_pct	Mn_ppm	Mo_ppm	Na_pct	Ni_ppm
92262	664134	6239353	4.66	104	26	32	4.18	>10000	4.23				<10	1.68	874	<1	0.05	12
92263	664126	6239368	>10	7	25	35	3.54	>10000	4.41				<10	1.54	985	<1	0.04	14
92264	664119	6239383	6.01	1	26	30	3.66	>10000	4.69				<10	1.78	1049	<1	0.05	13
92265	664095	6239429	9.47	2	23	33	4.38	>10000	4.28				<10	1.61	965	<1	0.04	12
92266	664080	6239462	>10	>1000	17	20	3.8	>10000	3.12				<10	0.99	1228	1	0.03	9
92267	664089	6239230	2	<1	26	37	5.45	>10000	4.82				<10	2.81	1195	<1	0.03	13
92268	667319	6239474	0.18	1	7	31	1.79	>10000	2.48				<10	0.08	433	2	0.04	<1
92269	667440	6239359	0.55	<1	8	23	3.1	>10000	3.14				<10	0.45	601	2	0.05	1
Trench B	667488	6239802					0.63											
Trench D	667517	6239783					0.63											
Trench A	667454	6239812					0.25											
Trench F	667610	6239581					2.48											
Trench a	667315	6239883					0.46											
869315	668874	6233918	0.76	25	26.7	66	2.12	>10000	4.33	8	0.35	0.13	2	2.64	1177	7	0.04	26
869316	668877	6233911	0.6	30	21.8	58	4.79	>10000	3.49	7	0.61	0.07	2	2.24	893	9	0.04	23
869317	669355	6233793	1.09	1	10.2	27	9.92	>10000	1.45	4	1.27	0.05	2	0.97	425	29.5	0.04	16
869318	669362	6233786	0.83	<0.1	23.1	37		714	3.15	5	<0.01	0.11	2	2.27	700	0.3	0.04	25
#1	663789	6239304					2.83	>10000										
#2	663762	6239393						435										
#3	664519	6238955					2.3	>10000										
60	667327	6237938																
59	666893	6237100																
63	666970	6238212																
62	667302	6238139																
61	667539	6239189																
56	666941	6239179																
58	667658	6239501																
57	667492	6239034																

# Historical Rock Samples

SAMPLE	E_UTM	N_UTM	P_pct	P_ppm	Pb_ppm	S_pct	Sb_ppm	Sc_ppm	Se_ppm	Sn_ppm	Sr_ppm	Te_ppm	Ti_pct	Tl_ppm	U_ppm	V_ppm	W_ppm	Y_ppm
92262	664134	6239353		>10000	<2		5			<20	4		0.21		<10	107	20	2
92263	664126	6239368		>10000	<2		5			<20	6		0.16		<10	97	10	1
92264	664119	6239383		>10000	<2		<5			<20	6		0.2		<10	126	10	2
92265	664095	6239429		>10000	<2		<5			<20	5		0.15		<10	116	10	<1
92266	664080	6239462		>10000	<2		10			<20	11		<0.01		<10	73	10	3
92267	664089	6239230		>10000	<2		10			<20	3		0.03		<10	138	20	<1
92268	667319	6239474		190	<2		25			<20	26		0.03		<10	54	<10	3
92269	667440	6239359		>10000	<2		<5			<20	30		<0.01		<10	59	20	3
Trench B	667488	6239802																
Trench D	667517	6239783																
Trench A	667454	6239812																
Trench F	667610	6239581																
Trench a	667315	6239883																
869315	668874	6233918	0.109		4	0.3	<0.1	4.4	1.2		20		0.24	<0.1	0.2	112	<0.1	
869316	668877	6233911	0.099		2	0.58	<0.1	3.5	4.4		32		0.23	<0.1	0.2	106	<0.1	
869317	669355	6233793	0.081		3	1.53	<0.1	2.7	2.3		56		0.22	0.2	0.4	55	0.2	
869318	669362	6233786	0.103		1	<0.05	<0.1	2.4	<0.5		53		0.22	<0.1	0.3	73	0.1	
#1	663789	6239304																
#2	663762	6239393																
#3	664519	6238955																
60	667327	6237938																
59	666893	6237100																
63	666970	6238212																
62	667302	6238139																
61	667539	6239189																
56	666941	6239179																
58	667658	6239501																
57	667492	6239034																

## Historical Rock Samples

SAMPLE	E_UTM	N_UTM	Zn_ppm	Zr_ppm	YEAR
92262	664134	6239353	56		1997
92263	664126	6239368	46		1997
92264	664119	6239383	50		1997
92265	664095	6239429	44		1997
92266	664080	6239462	36		1997
92267	664089	6239230	56		1997
92268	667319	6239474	82		1997
92269	667440	6239359	90		1997
Trench B	667488	6239802			1975
Trench D	667517	6239783			1975
Trench A	667454	6239812			1975
Trench F	667610	6239581			1975
Trench a	667315	6239883			1975
869315	668874	6233918	111		2008
869316	668877	6233911	86		2008
869317	669355	6233793	37		2008
869318	669362	6233786	86		2008
#1	663789	6239304			1988
#2	663762	6239393			1988
#3	664519	6238955			1988
60	667327	6237938			1974
59	666893	6237100			1974
63	666970	6238212			1974
62	667302	6238139			1974
61	667539	6239189			1974
56	666941	6239179			1974
58	667658	6239501			1974
57	667492	6239034			1974



**APPENDIX II**

**HISTORICAL SAMPLE DATA**

**d. Mineral Occurrences**

## Mineral Occurrences

E_UTM	N_UTM	Mineral(s)	ARIS
668802	6234970	Chalcocite	5017
669023	6234438	Chalcocite	5017
669107	6233580	Chalcopyrite	5017
668872	6235321	Chalcopyrite	5017
666970	6238217	Bornite	5047
666873	6237923	Chalcocite	5047
667481	6239046	Chalcocite	5047
666523	6237427	Chalcocite	5047
666777	6237108	Chalcocite	5047
666300	6238197	Chalcocite	5047
660753	6242115	"Cu"	5048
660793	6242143	"Cu"	5048
659959	6243196	"Cu"	5048
666874	6240035	Malachite	5563
667335	6239897	Chalcocite	5563
667596	6239567	Chalcocite	5563
667658	6239526	Chalcocite-malachite	5563
656733	6247274	Chalcocite	5995
656810	6247340	Chalcocite-Pyrite	5995
656829	6247318	Bornite	5995
667319	6239474	Malachite	25585
667440	6239359	Malachite	25585
664134	6239353	Chalcocite-malachite	25586
664095	6239429	Chalcocite-malachite	25586
664089	6239230	Native copper	25586
664126	6239368	Chalcocite-malachite	25586
664119	6239383	Chalcocite-malachite	25586
664080	6239462	Chalcocite-malachite	25586
661256	6241626	"Cu"	25586
661199	6240783	"Cu"	25586
661180	6240716	"Cu"	25586
661130	6240647	"Cu"	25586
668952	6233917	Chalcocite-malachite	30732
669364	6233795	Chalcocite-malachite	30732
669302	6234042	Chalcocite-malachite	30732
669433	6233625	Chalcocite-bornite-malachite	30732
669495	6233597	Chalcocite-malachite	30732
668881	6233915	Chalcocite-malachite	30732
"Cu"	<i>No mineral name given</i>		

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



**Date Submitted:** 06-Aug-13  
**Invoice No.:** A13-09002 (i)  
**Invoice Date:** 14-Aug-13  
**Your Reference:** Carruthers

**CME Consultants Inc.**  
**2130-21331 Gordon Way**  
**Richmond BC V6W 1S9**  
**Canada**

**ATTN: Chris Naas**

## CERTIFICATE OF ANALYSIS

8 Rock samples were submitted for analysis.

The following analytical packages were requested: Code 1A2-Kamloops Au - Fire Assay AA  
Code 1E3-Kamloops Aqua Regia ICP(AQUAGEO)

REPORT **A13-09002 (i)**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

If value exceeds upper limit we recommend reassay by fire assay gravimetric-Code 1A3  
Values which exceed the upper limit should be assayed for accurate numbers.

CERTIFIED BY :

A handwritten signature in black ink, appearing to be "Emmanuel Esemé". The signature is written in a cursive, somewhat stylized font with several loops and flourishes.

Emmanuel Esemé , Ph.D.  
Quality Control

**ACTIVATION LABORATORIES LTD.**

1336 Sandhill Drive, Ancaster, Ontario Canada L9G 4V5 TELEPHONE +1.905.648.9611 or  
+1.888.228.5227 FAX +1.905.648.9613  
E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com



Activation Laboratories Ltd.

Report: A13-09002 (i) rev 1

Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
X1001	6	0.6	< 0.5	2660	1700	< 1	57	7	112	1.07	342	< 10	463	< 0.5	3	11.0	39	15	5.82	< 10	1	0.24	< 10	4.10
X1002	8	< 0.2	< 0.5	7	683	3	31	< 2	22	0.77	11	< 10	72	< 0.5	< 2	8.93	19	38	4.36	< 10	< 1	0.07	< 10	2.80
X1003	< 5	< 0.2	< 0.5	16	1600	< 1	15	< 2	2	0.61	15	< 10	22	< 0.5	< 2	6.77	4	15	2.87	< 10	< 1	0.29	< 10	2.50
X1004	21	< 0.2	< 0.5	3	506	< 1	6	< 2	40	2.20	5	< 10	25	< 0.5	< 2	1.56	37	11	3.48	< 10	< 1	0.03	< 10	1.34
X1005	< 5	< 0.2	< 0.5	22	1560	< 1	71	3	70	0.83	121	< 10	44	< 0.5	4	10.8	31	27	4.83	< 10	< 1	0.20	< 10	2.49
X1007	< 5	< 0.2	< 0.5	51	1100	< 1	52	< 2	68	1.59	8	< 10	52	< 0.5	6	5.64	33	123	6.74	< 10	1	0.05	< 10	3.23
X1008	< 5	< 0.2	< 0.5	117	1170	< 1	30	< 2	76	2.62	17	< 10	148	< 0.5	2	4.65	29	80	7.05	< 10	< 1	0.06	< 10	2.96
X1009	< 5	< 0.2	< 0.5	125	1020	< 1	30	< 2	106	2.34	59	< 10	68	< 0.5	6	4.46	22	40	5.86	< 10	< 1	0.16	< 10	2.07

Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
X1001	0.059	0.034	0.10	25	4	155	< 0.01	< 1	< 2	< 10	160	< 10	21	5
X1002	0.067	0.080	0.02	4	6	137	0.02	4	< 2	< 10	105	< 10	9	2
X1003	0.039	0.138	0.04	3	6	42	< 0.01	3	< 2	< 10	25	< 10	8	2
X1004	0.067	0.109	0.43	4	3	156	0.30	4	< 2	< 10	75	< 10	6	7
X1005	0.026	0.045	0.03	15	6	100	< 0.01	2	< 2	< 10	175	< 10	20	4
X1007	0.041	0.079	0.04	5	20	107	< 0.01	< 1	< 2	< 10	169	< 10	21	3
X1008	0.037	0.102	0.06	4	23	133	0.06	< 1	< 2	< 10	196	< 10	12	4
X1009	0.039	0.120	0.36	5	10	112	< 0.01	2	< 2	< 10	114	< 10	13	3

Quality Control																								
Analyte Symbol	Au	Ag	Cd	Cu	Mn	Mo	Ni	Pb	Zn	Al	As	B	Ba	Be	Bi	Ca	Co	Cr	Fe	Ga	Hg	K	La	Mg
Unit Symbol	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	%
Detection Limit	5	0.2	0.5	1	5	1	1	2	2	0.01	2	10	10	0.5	2	0.01	1	1	0.01	10	1	0.01	10	0.01
Analysis Method	FA-AA	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas		28.7	2.5	1190	779	13	29	635	726	0.34	349	11	205	0.8	1370	0.76	6	6	20.4	< 10	5	0.03	< 10	0.13
GXR-1 Cert		31.0	3.30	1110	852	18.0	41.0	730	760	3.52	427	15.0	750	1.22	1380	0.960	8.20	12.0	23.6	13.8	3.90	0.050	7.50	0.217
GXR-4 Meas		3.4	< 0.5	6380	142	320	39	46	76	3.03	99	< 10	40	1.5	17	0.84	14	56	3.02	< 10	< 1	1.58	38	1.60
GXR-4 Cert		4.00	0.860	6520	155	310	42.0	52.0	73.0	7.20	98.0	4.50	1640	1.90	19.0	1.01	14.6	64.0	3.09	20.0	0.110	4.01	64.5	1.66
GXR-6 Meas		0.3	< 0.5	75	1060	2	24	101	123	7.06	244	< 10	713	0.8	5	0.10	13	84	5.98	10	1	0.91	< 10	0.37
GXR-6 Cert		1.30	1.00	66.0	1010	2.40	27.0	101	118	17.7	330	9.80	1300	1.40	0.290	0.180	13.8	96.0	5.58	35.0	0.0680	1.87	13.9	0.609
SE58 Meas	595																							
SE58 Cert	607.00																							
SE58 Meas	538																							
SE58 Cert	607.00																							
SE58 Meas	568																							
SE58 Cert	607.00																							
SF57 Meas	878																							
SF57 Cert	848.000																							
SF57 Meas	792																							
SF57 Cert	848.000																							
X1004 Orig	< 5																							
X1004 Dup	< 5																							
X1008 Orig	< 5																							
X1008 Dup	5																							
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	3	< 0.01	2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01
Method Blank		< 0.2	< 0.5	< 1	< 5	< 1	< 1	< 2	< 2	< 0.01	< 2	< 10	< 10	< 0.5	< 2	< 0.01	< 1	< 1	< 0.01	< 10	< 1	< 0.01	< 10	< 0.01
Method Blank	< 5																							
Method Blank	< 5																							
Method Blank	6																							
Method Blank	< 5																							
Method Blank	< 5																							

Quality Control														
Analyte Symbol	Na	P	S	Sb	Sc	Sr	Ti	Te	Tl	U	V	W	Y	Zr
Unit Symbol	%	%	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.001	0.001	0.01	2	1	1	0.01	1	2	10	1	10	1	1
Analysis Method	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP	AR-ICP
GXR-1 Meas	0.037	0.034	0.17	69	< 1	126		3	< 2	29	79	120	27	15
GXR-1 Cert	0.0520	0.0650	0.257	122	1.58	275		13.0	0.390	34.9	80.0	164	32.0	38.0
GXR-4 Meas	0.119	0.120	1.59	4	5	68		3	< 2	< 10	82	17	9	9
GXR-4 Cert	0.564	0.120	1.77	4.80	7.70	221		0.970	3.20	6.20	87.0	30.8	14.0	186
GXR-6 Meas	0.060	0.033	0.01	4	12	20		< 1	< 2	< 10	167	< 10	4	9
GXR-6 Cert	0.104	0.0350	0.0160	3.60	27.6	35.0		0.0180	2.20	1.54	186	1.90	14.0	110
SE58 Meas														
SE58 Cert														
SE58 Meas														
SE58 Cert														
SE58 Meas														
SE58 Cert														
SF57 Meas														
SF57 Cert														
SF57 Meas														
SF57 Cert														
X1004 Orig														
X1004 Dup														
X1008 Orig														
X1008 Dup														
Method Blank	0.008	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	2	< 10	< 1	< 10	< 1	< 1
Method Blank	0.009	< 0.001	< 0.01	< 2	< 1	< 1	< 0.01	< 1	< 2	< 10	< 1	< 10	< 1	< 1
Method Blank														
Method Blank														
Method Blank														
Method Blank														
Method Blank														



**APPENDIX IV**

**ROCK SAMPLE DESCRIPTIONS**

## Rock Sample Descriptions

Sample No.	Area	Showing	UTM Zone 10N NAD 83		NTS No.	Tenure No.	Description					Results			
			Easting	Northing			Sample Type	Lithology	Alteration	Sulphides (%)	Field Sample Description	Cu (ppm)	Au (ppb)	Ag (ppm)	As (ppm)
X1001	ARP		668595	6233973	094D01	1021355	Grab	Quartz-carb vein	Fe-ox 4	Mal 1	Rusty orange quartz-carbonate vein? Fragments of quartz and larger carbonate. Possibly a schistose, sheared contacts. Exposed surface very rusty with malachite staining; also a black encrustation, possibly Mn-wad	2660	6	0.6	342
X1002	ARP		668595	6233958	094D01	1021355	Grab	Tuff		Sx not noted	Tuff? Hand sample too small to see context of sample. 1/3 of sample appears to be a heterolithic agglomerate/breccia with dark basaltic? quartz fragments. Other 2/3 of samples is rusty orange, with quartz fragments, but no darker fragments. Could be a bedding change, especially with the drastic oxidation colour change	7	8	< 0.2	11
X1003	ARP		668605	6233943	094D01	1021355	Grab	Tuff	Fe-ox 1	Sx not noted	Beige coloured tuff., ashflow tuff? Fsp and lesser qz frags, usually <1mm, sub-hedral to sub-rounded within very fine grained greenish-tan matrix. Very weak lamination or flow texture. Two sets of thin to hairline fractures: one set a re dark gray, second set are orange-brown. Also cb frags sub-parallel	16	< 5	< 0.2	15
X1004	ARP		668602	6233905	094D01	1021355	Grab	Lithic Tuff	Epi 3, Chl 2	Py 1	Mottled grassy and dark green fine-grained crystal lithic tuff? or lava. Grass green colour (when wet) from epidote or sericite alteration. Lithic frags and/or phenos fragments defined by variable alteration, although subdued. Sample fractured with qz-cb and Fe-ox. Vein ~1mm, some weathered out. Dissem pv noted	3	21	< 0.2	5
X1005	ARP		668659	6233897	094D01	1021355	Grab	Tuff	Fe-ox 2	Sx not noted	Reddish-orange ashflow tuff with flow textures, although more breccia-like. Fragments up to 2.5x1cm, mainly rhyolitic with flow-banding. Groundmass/matrix is fine to medium grained crystals and probable small lithic fragments	22	< 5	< 0.2	121
X1007	ARP		668652	6233118	094D01	1021355	Grab	Tuff (welded or ashfall)			Tuff. Fine grained, equal grain sizes with bedding and/or flow textures. Pale greenish beige colour. Narrow fracture/veinlets sub-parallel to bedding/flow with Fe-ox alteration halo into wall rock. Later white carbonate veins cross-cut bedding/flow, 2-3 mm wide. Exposed surface is light rusty brown.	51	< 5	< 0.2	8
X1008	ARP		668688	6233093	094D01	1021355	Grab	Tuff (crystal lithic)		Py <1	Very similar to X1007 in colour and general appearance. Texture is coarser with crystals and lithic fragments much more pronounced. Some crystals or lithic fragments exhibit internal lath shaped crystals in a poikilitic texture; elongated, up to 2cm. Fsp and mafic crystals up to 3mm, but most under 1mm. Fracturing and veining very similar in appearance and style to those described in X1007, with more quartz. Pv noted associated with veining	117	< 5	< 0.2	17
X1009	ARP		668703	6233118	094D01	1021355	Grab	Tuff (welded or ashfall)	Fe-ox 1	Py <1	Very similar to X1007 in colour and general appearance and texture. More pronounced flow-banding, especially with very fine-grained lamellae up to 2mm. Several type of fracture/veinlets with alteration halos. Orange brown Fe-ox alteration haloes around on set crossing flow direction. Dark grey sulphide-bearing veinlets ~0.5-1mm thick; these show a series of off-sets due to fracturing along the bedding planes. Py is sulphide noted with these veinlets. These veinlets also show a bleached halo around them. Also a single 2-3mm stylonitic white qz-cb veinlet crossing bedding with some offsets. No sx noted with this veinlet	125	< 5	< 0.2	59