

TECHNICAL REPORT OF WORK

ARSENAULT PROPERTY  
ATLIN MINING DIVISION  
BRITISH COLUMBIA  
CANADA

BC Geological Survey  
Assessment Report  
30836

Jennings River Map Sheet  
NTS 1040/13

59° 49' north latitude  
131° 43' west longitude

For

North Bluff Exploration Inc.  
201 - 675 West Hastings Street  
Vancouver, B. C.  
Canada  
V6B 1N2

Arsenault Belt - tenure no. 578274  
Arsenault West - tenure no. 579008  
VMS- tenure no. 606808

Report prepared by: Erik A. Ostensoe, P. Geo.  
Consulting Geologist

Date of Report: May 19, 2009.

Event No. 4347346.

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## 1.0 INTRODUCTION

The Arsenault mineral prospect, located in the Swift River area of northwestern British Columbia, comprises three mineral tenures with area 2751.01 hectares. Copper-gold skarn-type mineral occurrences hosted in Early Mississippian Big Salmon Complex terrane have been explored historically by several programs of prospecting, technical surveys and diamond drilling. Mineral tenures are recorded in the name of Farshad Shirvani who holds titles in trust for North Bluff Exploration Inc., a Vancouver, B. C.-based junior mineral exploration company.

North Bluff Exploration Inc., during the 2008 field season, conducted programs of soil and rock sampling and geophysical surveys on parts of the Arsenault property. The author completed a property visit on October 1, 2008 and viewed the areas of historic work that included bulldozer trenches and diamond drilling and also the areas of 2008 work. Further work, including prospecting and technical surveys, are required in order to identify and better define areas of exploration potential. The 2008 program of MMI (mobile metal ion) sampling revealed several locations with elevated metal values that should be confirmed by additional sampling and tested by drilling. Some of the MMI samples were not analysed due to budget considerations but should be processed prior to commencement of additional field work.

The author, in preparing this report has relied on technical data obtained from government assessment report files (ARIS), government geological survey publications, and on a comprehensive compilation report prepared in 2005 for Decoors Mining Corporation by J. Fingler, MSc, P. Geo. An assessment report, ARIS #2976, by Turnbull and Simpson, in 1970 for Bolivar Mining Corporation includes data from 2430 soil samples that were analysed for copper and molybdenum. Assessment Report, ARIS #25882, titled "Evaluation Report on the Arsenault Property (WIN and TWIN Claims)" dated March, 1999, by S. Traynor, BSc., geologist, includes useful data concerning that author's prospecting and geochemical sampling work. A review was conducted of technical data pertaining to the Kudz Ze Kayah and Wolverine volcanogenic massive sulphide deposits that are located 200 km north of Arsenault in Yukon-Tanana Terrane, a possible geologic analog in Yukon of the Big Salmon Complex. Other historic data, largely from ARIS\* files maintained by the British Columbia Department of Energy and Mines, have been reviewed and, where appropriate, quoted. Data, where incorporated into this report, have been attributed to the source.

*\*Assessment Report Index Service, an online reference library of technical reports that is maintained by the British Columbia Geological Survey Branch.*

Mineral tenures were verified by reference on April 27, 2009 to BC Mineral Titles On-Line.

Geochemical data included in this report have been obtained from samples taken in the field for North Bluff Exploration Inc. and analysed by SGS Laboratories in Lakefield, Ontario. Compilation of data was by Terracad Geoscience Services Ltd. of Vancouver, B. C. Geophysical survey data (magnetometer survey) and lineaments and iron oxide spectral imagery also were prepared by Terracad Geoscience Services Ltd.

Conclusions are those of the author.

## **2.0 PROPERTY DESCRIPTION AND LOCATION**

The Arsenault copper-gold prospect is located on the Nisutlin Plateau in northern British Columbia, 78 km southeast of Teslin, YT and 30 km southwest of Swift River hamlet on the Alaska Highway (Figures 1 and 2). It is awkwardly configured, extending approximately 14 km south of Km 1204 (Mile 753) of the Alaska Highway. The property is about 265 km east of Whitehorse, population 24,900, and 190 km west of Watson Lake (population 1600). Atlin, located 130 km west-southwest of the property, is the nearest British Columbia community.

The Arsenault property comprises three mineral tenures, Arsenault Belt, tenure no. 578274, area 2441.745 hectares, Arsenault West, tenure no. 579008, area 130.235 hectares and VMS, tenure no. 601808, area 179.09 hectares. Tenure titles are held by Farshad Shirvani for North Bluff Exploration Inc. and expiry dates of Arsenault Belt and Arsenault West tenures were extended to June 1, 2014, by a Statement of Work filed on November 19, 2008 that applies technical survey work completed during the 2008 field season as assessment work. Mineral tenure 601808, VMS claim, was located March 29, 2009 by the same owners and is not discussed in this report.

Geographic coordinates of the central part of the tenures are 59° 49' North latitude, 131° 43' West longitude. The property is in the northwestern part of Jennings River Map Sheet (NTS 104O/13).

The Arsenault property lies within the traditional territories of the Teslin-Tlingit First Nation.

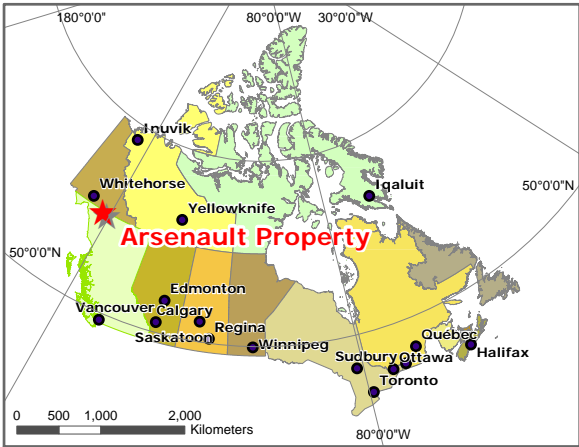
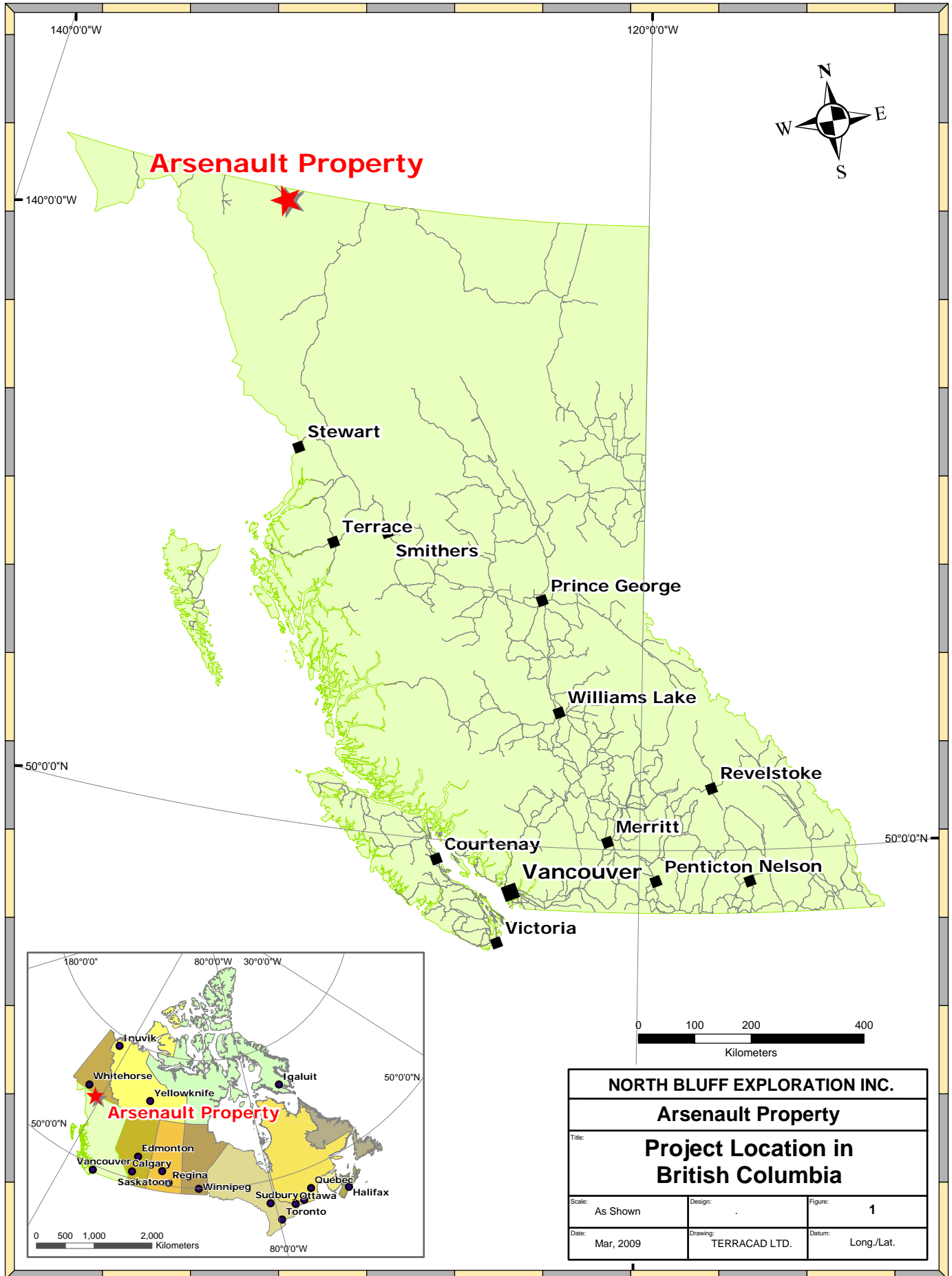
## **3.0 ACCESS**

Historically, the Arsenault property was accessed from the Alaska Highway by a 16 km overland route suitable for use by four wheel drive equipped vehicles. That route required a bridge crossing of the Swift River that is no longer in place, and the entire route is now mostly overgrown and in disrepair. The river crossing and a crude access route presumably could be re-established at moderate cost: construction of an engineered bridge and rehabilitation of several km of now-overgrown bush roads would be required. Property work in 2008 field season was supported by helicopter service.

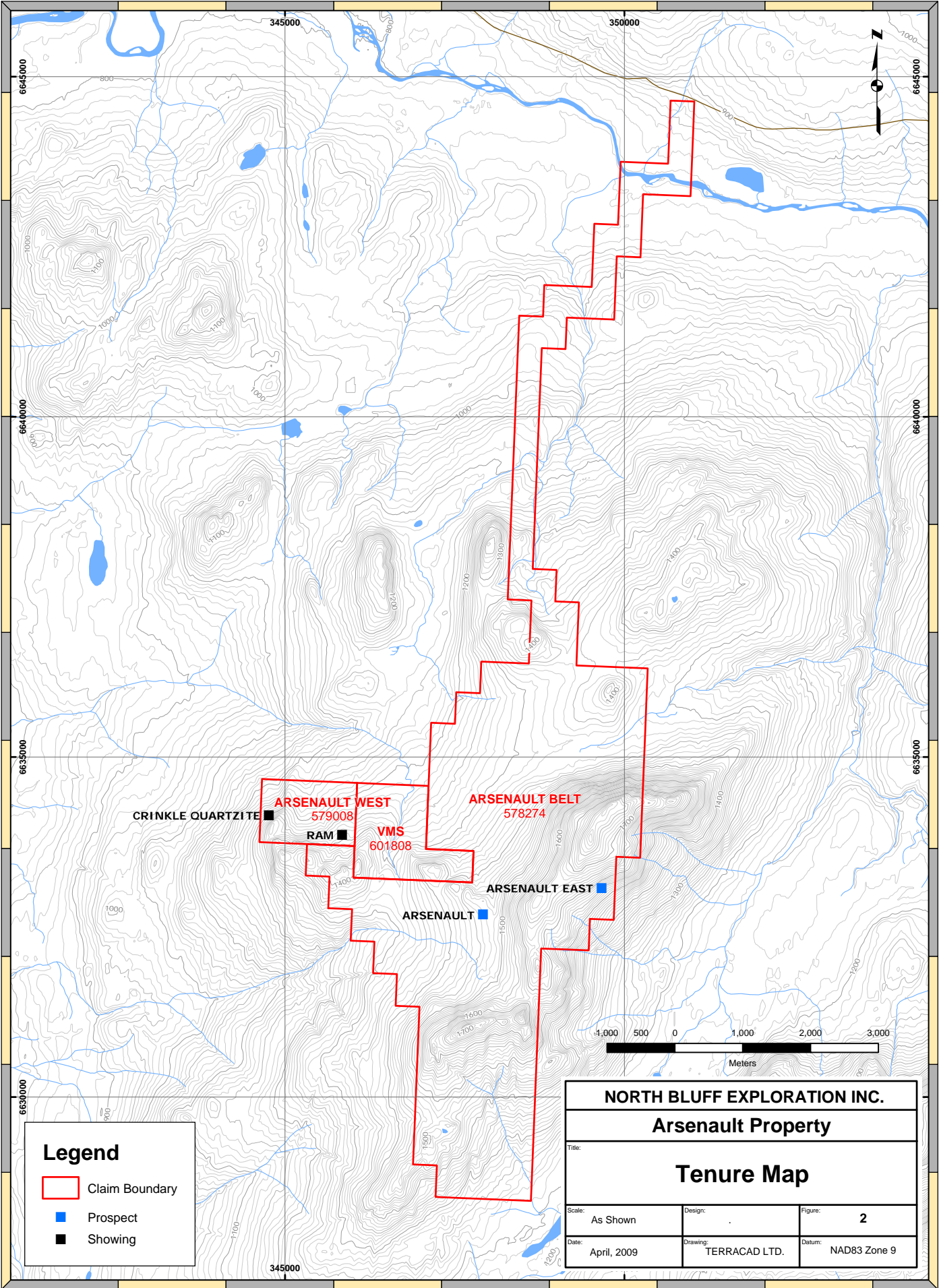
The Alaska Highway (Highway 97) passes within 12 km of the Arsenault mineral tenures and during the 2008 field season exploration personnel and gear were mobilized by truck to a site at Km 1204 from whence they were transported by helicopter to a temporary camp on the property.

## **4.0 PHYSIOGRAPHY**

The Arsenault property is located in the Nisutlin Plateau of the Stikine Ranges of the northern Cassiar Mountains of the Canadian Cordillera (Bostock, 1948), a terrain that is characterized by glaciated ridges, some of which are surmounted by unglaciated peaks, and broad valleys with meandering streams and extensive muskeg bogs.



<b>NORTH BLUFF EXPLORATION INC.</b>		
<b>Arsenault Property</b>		
Title: <b>Project Location in British Columbia</b>		
Scale: As Shown	Design: .	Figure: <b>1</b>
Date: Mar, 2009	Drawing: TERRACAD LTD.	Datum: Long./Lat.



**Legend**

- Claim Boundary
- Prospect
- Showing

**NORTH BLUFF EXPLORATION INC.**

**Arsenault Property**

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Title:

**Tenure Map**

Scale: As Shown	Design: .	Figure: <b>2</b>
Date: April, 2009	Drawing: TERRACAD LTD.	Datum: NAD83 Zone 9

## **5.0 CLIMATE**

The claims are situated above or close to treeline and consequently may experience severe weather conditions at any time. Summers are generally pleasantly warm, with interludes of storms, including violent thunderstorms, and prolonged rainy periods. Winters are cold and snowy, with occasional blizzards. Snow accumulations are believed to exceed one metre but strong winds often remove the snow from exposed slopes. Average January temperature at Teslin, YT, 78 km northwest of Arsenault is -19.2° C., July temperature, 11.4° C. Average annual precipitation is 34 cm. The property, being at higher elevation and in a more mountainous location, likely experiences colder temperatures and more precipitation than are reported at Teslin.

## **6.0 INFRASTRUCTURE AND LOCAL RESOURCES**

The Arsenault property is relatively remote from services and infrastructure: several small hamlets located along the Alaska Highway rely upon highway traffic for their existence and offer limited accommodations and food services. All services required by the mineral exploration industry, with the exception of analytical services, can be obtained in Whitehorse, Yukon.

## **7.0 HISTORY**

*The following information is derived in part from ARIS reports and from a Summary Report compiled by J. Fingler, M.Sc., P. Geo., dated June 26, 2005.*

Earliest reports of mineral discoveries in the vicinity of the present Arsenault property indicate that Wilf MacKinnon, a prospector employed by Hudson Bay Exploration Ltd., found copper mineralization in the area in the 1940s. K. J. Springer interests in 1967 staked the "TOP" claims, completed 75 line miles of soil geochemical surveys (copper and molybdenum analyses) and excavated 16 trenches in the vicinity of the principal occurrences of copper skarn mineralization. Sawyer (1967), employed by Mastodon-Highland Bell Mines Ltd., reported significant exploration results including 0.98% copper over 12 feet (trench "TR 5"), 0.70% copper and 0.10 oz/ton gold over 10 feet (trench "TR 8"), and 0.6% copper over 12 feet (trench "TR 10").

Bolivar Mining Corporation, a subsidiary of Cyprus Mines Corporation Ltd., in 1970 - 1972 conducted comprehensive exploration programs that included airborne EM surveys, ground magnetometer and induced polarization surveys, soil geochemical surveys and geological mapping and sampling. A 16 km tote road with two bridges was constructed to provide overland access from the Alaska Highway to the property and four drill holes with total length 1080 metres (3543.5 feet) tested mineralization in outcrops and trenches. Bolivar, in an assessment report (Turnbull and Simpson, 1971), reported copper and molybdenum analytical results from 2430 soil samples. Much of that historic data is included in this report as Figures



ARIS #03014, 1970, reports results of a magnetic and induced polarization survey performed for Bolivar Mining Corporation by Peter E. Walcott and Associates Ltd. The magnetic survey "... showed the property to be underlain by two magnetically different rock types believed to correspond to Carboniferous metamorphic rocks and a later intrusive" (Walcott, p. 10). Anomalous I.P. zones were reported "...in the region of assumed skarn complexes, and generally coincided with copper geochemical anomalies" and others were outside of the assumed complexes (ibid, p. 10). Among Walcott's recommendations was "4. That the causes of the best anomalies, obtained by geological, geochemical and geophysical correlation, be investigated by diamond drilling" (ibid, p. 10). Bolivar performed additional geophysical surveys and drilled several holes before ending their work.

Rebel Developments Ltd. and Sawyer Consultants Inc. in 1977 - 1979 drilled a 442 metre hole that intersected sulphide-rich intervals at ">300 m depth" which returned 0.49% copper over 3.0 metres and 0.22% copper over 6.7 metres.

R. W. Phendler, geological consultant, in 1981 conducted a program of diamond drilling for Rebel Developments Ltd. A 235 metre long AQ-size drill hole that was directed to part of an induced polarization anomaly returned a 27.6 metre intersection of chlorite actinolite schist with pyrite and chalcopyrite, the uppermost 15.15 metres of which averaged 0.20% copper (Phendler, 1981).

In 1987 much of the present Arsenault property was staked as the "RAM" claims and a field program that, apparently, included geological, soil geochemical and geophysical (VLF-EM, magnetic) surveys, was completed in 1988 but details of that program are not in the public domain. Arnica Resources Ltd. conducted a prospecting program in 1989 in an attempt to locate historic trenches which were reported by the BCDM in GEM 1972 as containing native gold and tellurides. P. Christopher and Associates in 1990 expanded coverage of the area with additional technical surveys, including 18 rock samples and 242 soil samples and recommended further work in the northwest part of the property.

The Kudz Ze Kayah and Wolverine volcanogenic massive sulphide deposits were discovered in 1997 in formations of Yukon-Tanana Terrane 135 km north of the Arsenault property and that activity prompted renewed prospecting interest in the latter area. Government of B. C. geologists found similarities between the two areas and identified two stratigraphic intervals that may be prospective for VMS mineralization: dacitic tuff (present at the main Arsenault occurrence) and barium-manganese rich members of a crinkle chert unit (Mihalynuk, Nelson and Friedman, 1998). An area of previously unrecorded historic trenching, now referred to as "Arsenault East", was described as "...a 2.5 x 10 metre replacement zone of garnet-epidote-quartz-calcite-magnetite-actinolite-chalcopyrite..." of which a 2.5 metre chip sample returned "...up to 4.6% Cu, 0.3% Zn, 322 ppm Co and 115 ppm Bi..." (quoted by Fingler, 2005).

Prospecting and geological reconnaissance in 1998 by S. Traynor confirmed the earlier reported metal values, including a 7.5 metre chip sample of 0.46% Cu, 1.3 g/t Au (Arsenault) and a grab sample of 0.91% Cu, 307 ppb Au (East Ridge). ARIS report #25882 includes analytical data from 54 soil samples and 18 rock samples, along with prospecting conclusions.

J. Fingler, consulting geologist, in 2005, researched and compiled historic technical data and prepared a comprehensive report on the Arsenault property (Fingler, 2005).

## **8.0 GEOLOGICAL SETTING**

### **8.1 Introduction**

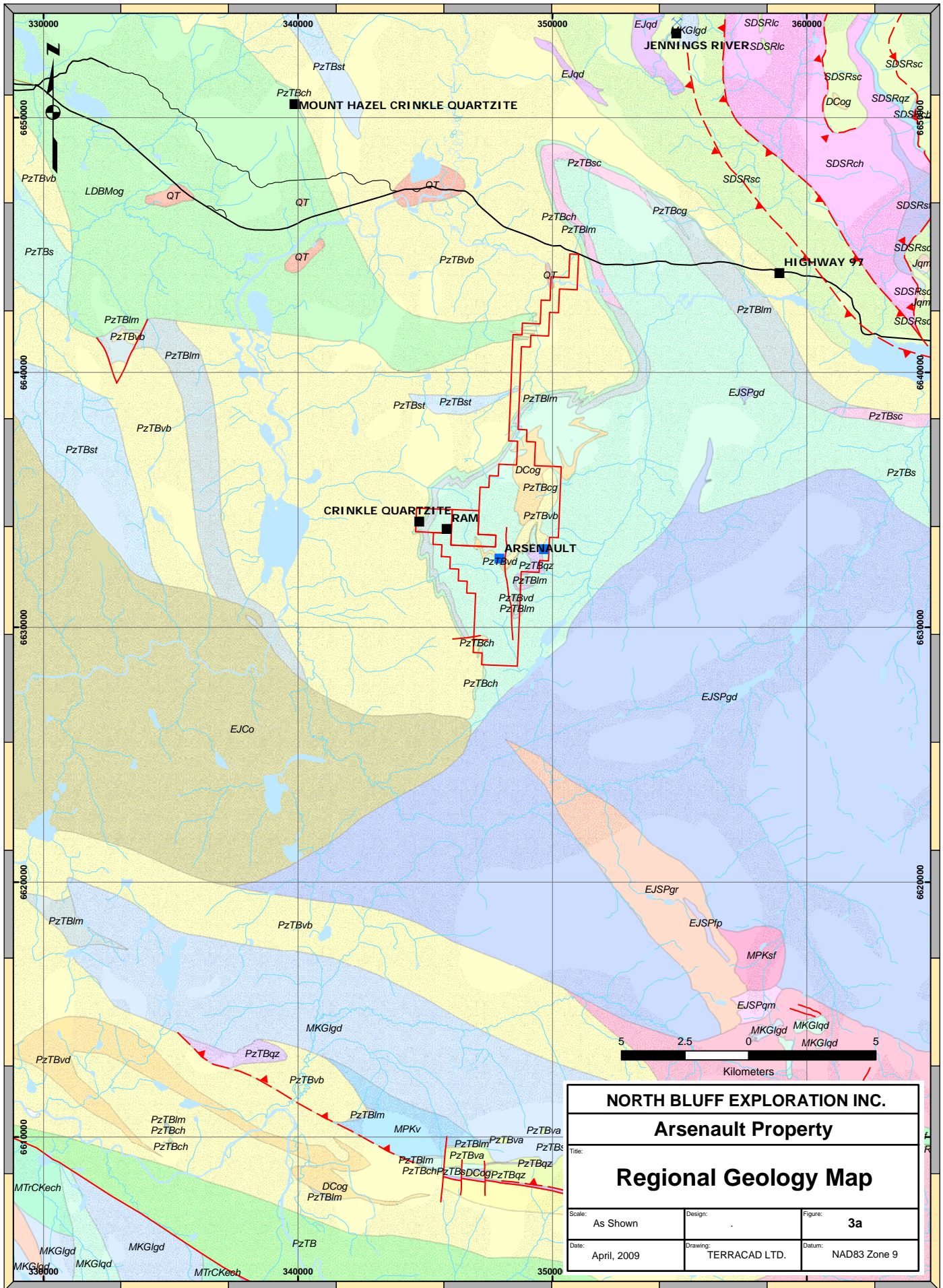
The most recent geological work in the vicinity of the Arsenault property was regional scale reconnaissance by a BCGS field party (Mihalynuk, Nelson and Friedman, 1998) who assigned the area to the Early Mississippian Big Salmon Complex, similar to the pericratonic Yukon-Tanana Terrane of the Yukon. The latter is host in the Finlayson Lake area to the Kudz Ze Kayah and Wolverine volcanogenic massive sulphide (Zn-Pb- Ag-Cu-Au) deposits.

### **8.2 Regional Geology**

The 1998 BCGS publication "Regional Geology and Mineralization of the Big Salmon Complex (104N NE and 104O NW)" (Mihalynuk, et al., 1998) defines the geological setting of the Arsenault property (Figures 3a, 3b). The Big Salmon Complex is a northwest-trending volcano-sedimentary sequence of Early Mississippian age that has been variously deformed and metamorphosed and in the area immediately south of the Arsenault property has been intruded by the Early Jurassic age Coconino quartz diorite and the Simpson Peak granodiorite plutons. Mihalynuk, et al. in the Arsenault area describe a core zone of the Complex comprising quartzite, shale, limestone and dolomite altered to amphibolite grade gneisses and schists; the enclosing rocks are greenschist metamorphic grade. Four phases of folding were recognized and there are at least two stages of intrusive emplacement: earlier tonalite, diorite and leucogranite (minor) have been metamorphosed and are collectively styled as "Hazel Orthogneiss". The Simpson Peak Batholith, dominates the area southeast of Arsenault and imposes hornfelsing and skarn development on the previously deformed and metamorphosed strata.


The Big Salmon Complex abuts on its southwest flank the Teslin Fault, (aka "Teslin Tectonic Zone") a profound, crustal scale, structure that separates pericratonic, continental Yukon-Tanana Terrane from the allochthonous Cache Creek Terrane to the southwest. The east side of the Complex is sliced by at least two lesser faults that are sub-parallel to the Teslin Fault. Mihalynuk, et al., present comparative stratigraphic columns that convincingly illustrate the affinity of Big Salmon and Yukon-Tanana Terranes and the contrasting nature of Slide Mountain Terrane of north-central British Columbia.

Figure 4 illustrates locations of prospects for which ARIS reports have been filed with the provincial Ministry of Energy, Mines and Petroleum Resources.



<b>NORTH BLUFF EXPLORATION INC.</b>		
<b>Arsenault Property</b>		
Title:		
<b>Regional Geology Map</b>		
Scale:	Design:	Figure:
As Shown	.	<b>3a</b>
Date:	Drawing:	Datum:
April, 2009	TERRACAD LTD.	NAD83 Zone 9




# Legend

 Quaternary Unit








## Unit

-  CKSC - Paleozoic - Klinkit Group - Screw Creek Limestone limestone, marble, calcareous sedimentary rocks
-  CTrKcg - Paleozoic to Mesozoic - Klinkit Group conglomerate, coarse clastic sedimentary rocks
-  CTrKsf - Paleozoic to Mesozoic - Klinkit Group mudstone, siltstone, shale fine clastic sedimentary rocks
-  DCog - Paleozoic - Unnamed orthogneiss metamorphic rocks
-  EJCo - Mesozoic - Coconino Pluton quartz dioritic intrusive rocks
-  EJSPfp - Mesozoic - Simpson Peak Batholith feldspar porphyritic intrusive rocks
-  EJSPgd - Mesozoic - Simpson Peak Batholith granodioritic intrusive rocks
-  EJSPgr - Mesozoic - Simpson Peak Batholith granite, alkali feldspar granite intrusive rocks
-  EJSPqm - Mesozoic - Simpson Peak Batholith quartz monzonitic to monzogranitic intrusive rocks
-  EJqd - Mesozoic - Unnamed quartz dioritic intrusive rocks
-  Jqm - Mesozoic - Unnamed quartz monzonitic to monzogranitic intrusive rocks
-  LDBMog - Paleozoic - Big Salmon Complex - Mount Hazel Orthogneiss orthogneiss metamorphic rocks
-  LKqm - Mesozoic - Unnamed quartz monzonitic intrusive rocks
-  MJTSto - Mesozoic - Three Sisters Plutonic Suite tonalite intrusive rocks
-  MKGIgd - Mesozoic - Glundebery Batholith granodioritic intrusive rocks
-  MKGIqd - Mesozoic - Glundebery Batholith quartz dioritic intrusive rocks
-  MPKsf - Paleozoic - Klinkit Group mudstone, siltstone, shale fine clastic sedimentary rocks
-  MPKv - Paleozoic - Klinkit Group volcanoclastic rocks
-  MSR - Paleozoic - Swift River Group mudstone, siltstone, shale fine clastic sedimentary rocks
-  MSRqz - Paleozoic - Swift River Group quartzite, quartz arenite sedimentary rocks
-  MTrCKech - Paleozoic to Mesozoic - Cache Creek Complex - Kedahda Formation chert, siliceous argillite, siliciclastic rocks
-  PzTB - Paleozoic - Big Salmon Complex undivided sedimentary rocks
-  PzTBcg - Paleozoic - Big Salmon Complex conglomerate, coarse clastic sedimentary rocks
-  PzTBch - Paleozoic - Big Salmon Complex chert, siliceous argillite, siliciclastic rocks
-  PzTBgb - Paleozoic - Big Salmon Complex gabbroic to dioritic intrusive rocks
-  PzTBlm - Paleozoic - Big Salmon Complex limestone, marble, calcareous sedimentary rocks
-  PzTBqz - Paleozoic - Big Salmon Complex quartzite, quartz arenite sedimentary rocks
-  PzTBs - Paleozoic - Big Salmon Complex undivided sedimentary rocks
-  PzTBsc - Paleozoic - Big Salmon Complex coarse clastic sedimentary rocks
-  PzTBst - Paleozoic - Big Salmon Complex argillite, greywacke, wacke, conglomerate turbidites
-  PzTBus - Paleozoic - Big Salmon Complex serpentinite ultramafic rocks
-  PzTBva - Paleozoic - Big Salmon Complex andesitic volcanic rocks
-  PzTBvb - Paleozoic - Big Salmon Complex basaltic volcanic rocks
-  PzTBvd - Paleozoic - Big Salmon Complex dacitic volcanic rocks
-  QT - Cenozoic - Tuya Formation bimodal volcanic rocks
-  SDSRch - Paleozoic - Unnamed - ?Equivalent to Swift River Group chert, siliceous argillite, siliciclastic rocks
-  SDSRlc - Paleozoic - Unnamed - ?Equivalent to Swift River Group limestone, slate, siltstone, argillite
-  SDSRqz - Paleozoic - Unnamed - ?Equivalent to Swift River Group quartzite, quartz arenite sedimentary rocks
-  SDSRsc - Paleozoic - Unnamed - ?Equivalent to Swift River Group coarse clastic sedimentary rocks
-  SDSRsf - Paleozoic - Unnamed - ?Equivalent to Swift River Group mudstone, siltstone, shale fine clastic sedimentary rocks
-  TrKsf - Mesozoic - Klinkit Group mudstone, siltstone, shale fine clastic sedimentary rocks
-  uTrTSh - Mesozoic - Takla Group - Shonektaw Formation undivided volcanic rocks

## Fault Type

-  Fault
-  Normal Fault
-  Thrust

## MINFILE Status

-  Developed Prospect
-  Past Producer
-  Producer
-  Prospect
-  Showing
-  Anomaly
-  Claim Boundary

NORTH BLUFF EXPLORATION INC.

Arsenault Property

Title:

**Legend to Accompany  
Regional Geology Map**

Scale:

Design:

Figure: **3b**

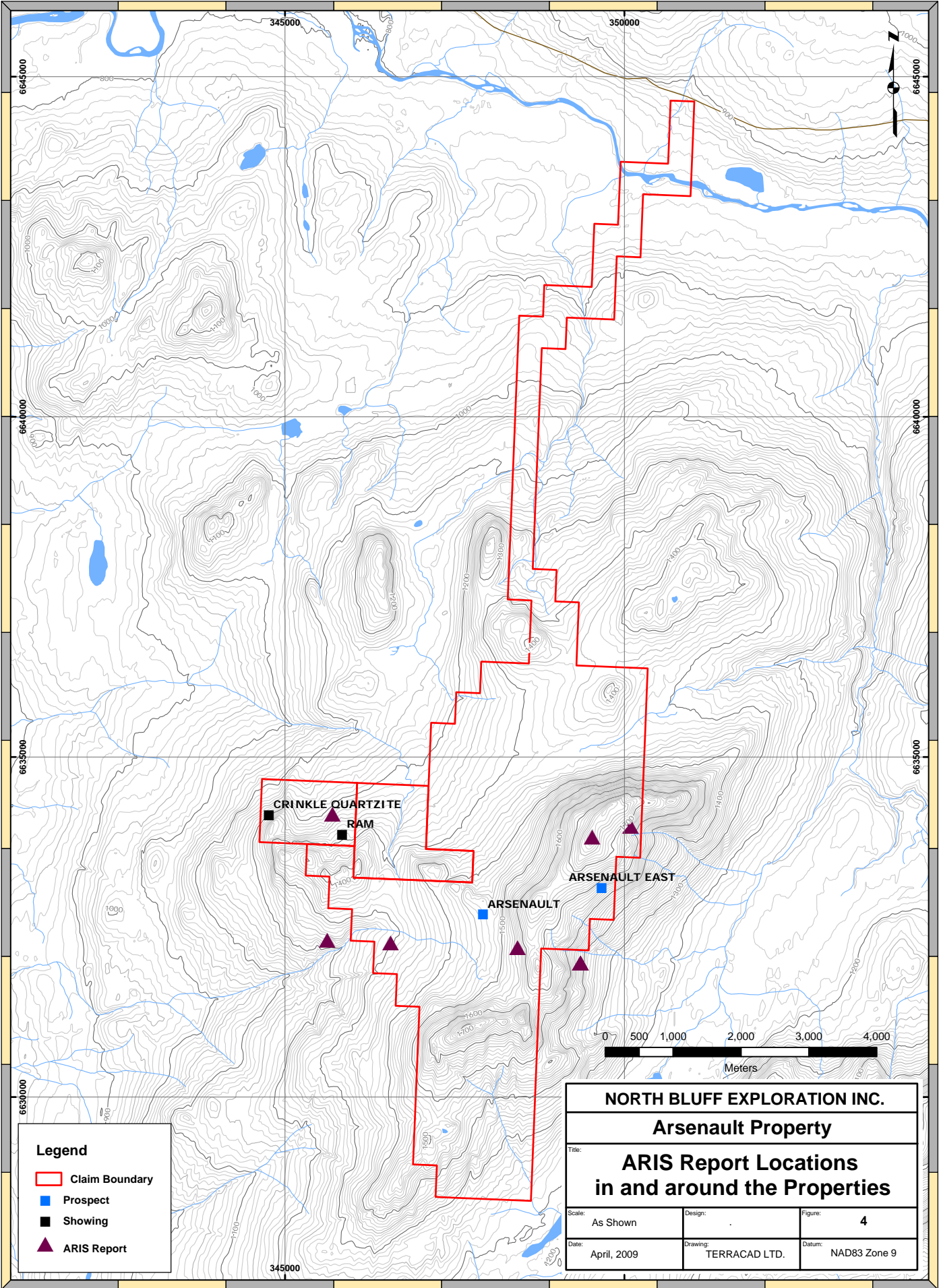
Date:

April, 2009

Drawing:

TERRACAD LTD.

Rev:



### **8.3 Property Geology**

Detailed scale mapping and geophysical surveys have defined the local geology of much of the Arsenault property. Ridges provide good bedrock exposures and valleys are occupied by streams and extensive areas of muskeg bogs and filled with thick deposits of unconsolidated glacial drift, rubble and clay. The 2008 program of work did not include any geological mapping and the following information is derived from ARIS reports and government publications.

The Arsenault property lies on the southern limb of a northwest trending anticlinorium that is developed in an interbedded sequence of marine and clastic sediments with local intercalations of intermediate to mafic tuffs (Mihalynuk, et al.). The "East" Fault lies east of the principal Arsenault showings, trends north-south, and divides the property into two domains of distinct stratigraphic and structural trends. The west domain includes the Arsenault occurrence and comprises interbeds of actinolite/chlorite schists, recrystallized limestones, quartzite with garnet-mica schists and micaceous, pyritic quartzite. East of the fault the stratigraphy features thick successions of east-northeast trending quartzite and quartz mica schist, with local interbeds of marble and chloritic-actinolitic schists. The change in trend across the East Fault has been interpreted as reflecting a broad regional fold.

Interpretation of stratigraphy and structure in Big Salmon Complex rocks at Arsenault is aided by the presence of three distinctive members: an orange weathering felsic lapilli ash tuff, notably present in the southeast part of Arsenault Belt tenure, coarse, quartz-eye dacite tuff, a white to green-grey-weathering mappable marker horizon, and a pink-weathering, thinly bedded chert unit that is styled by Mihalynuk, et al. as "Crinkle Chert".

The Simpson Peak Batholith that dominates the area southeast of Arsenault, and truncates the Big Salmon Complex, is presented as Early Jurassic and therefore pre-dating the Seagull and Cassiar Batholiths that occur to the northeast. Its relationship to the nearby base metal mineralization is unknown.

## **9.0 DEPOSIT TYPES**

The Arsenault property hosts several chalcopyrite-pyrite mineral occurrences. The principal prospects have been explored by several episodes of technical surveys, including induced polarization, magnetics and VLF-EM methods, soil geochemistry surveys, geological mapping and diamond drilling (? Six holes, 2000 m.). The main Arsenault prospect zone, in addition to copper and iron sulphides has a suite of associated minerals, specifically epidote, garnet, actinolite, magnetite, wollastonite and tourmaline, and textures are typical of skarn deposits but Mihalynuk, et al. note the lack of nearby intrusions that commonly accompany such deposits. The Arsenault dacite, a tuff and ash unit, is present in proximity to the principal outcroppings of copper mineralization and commonly is host to small amounts of chalcopyrite as disseminations and veinlets. Absent any other compelling evidence, Sawyer (1979) proposed, and Mihalynuk, et al. (1998) provisionally accepted, a syngenetic origin for the copper mineralization, presumably with dacite being both the parent and the collector.

The Arsenault East occurrence, situated 1.5 km northeast of the principal deposit, is a "...vein replacement zone..." (Mihalynuk, et al.) with a skarn-like mineral assemblage of garnet, epidote, quartz, calcite, magnetite, actinolite and chalcopyrite.

## **10.0 MINERALIZATION**

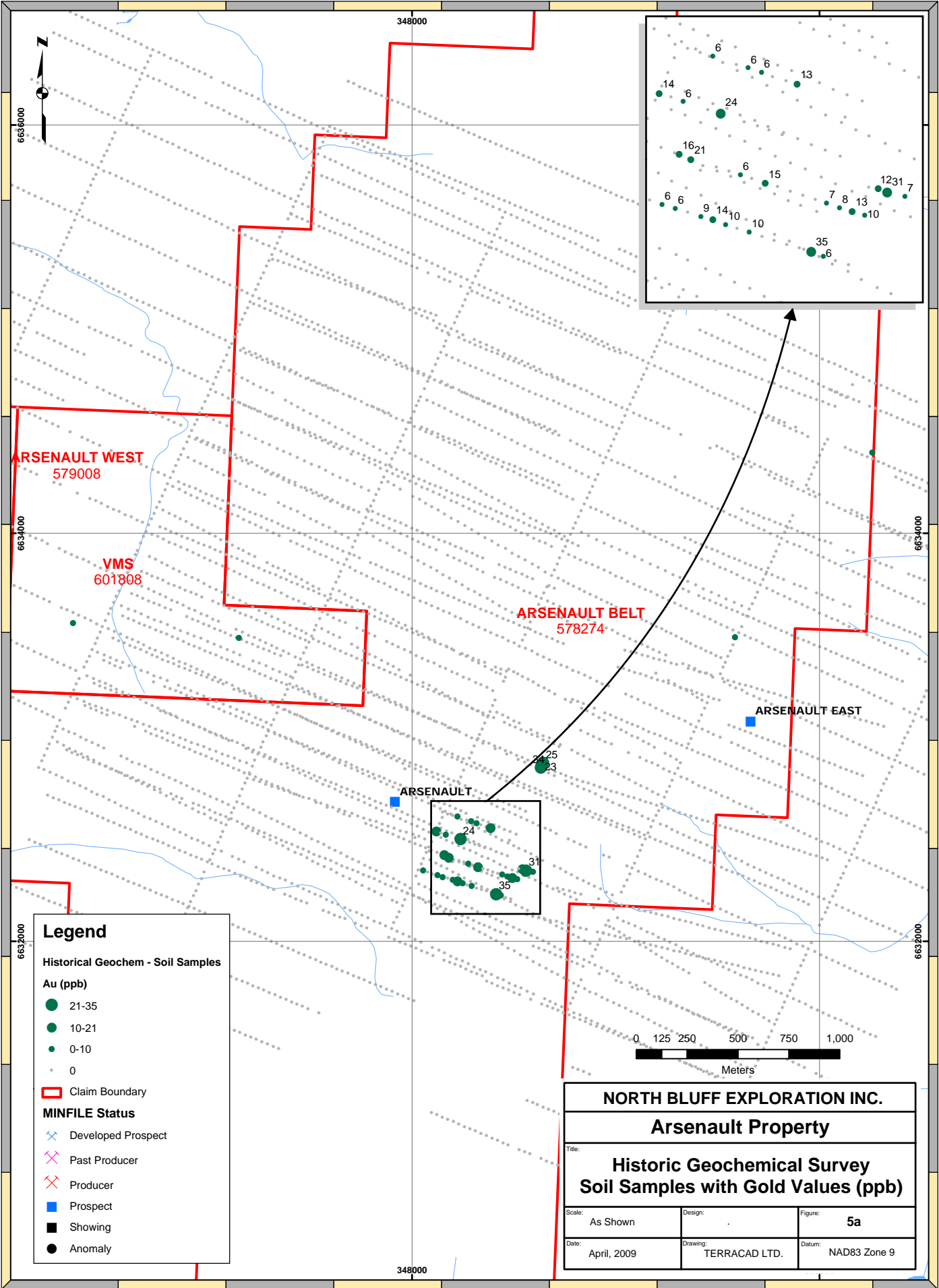
The Arsenault and Arsenault East occurrences are copper-rich calcsilicate-sulphide zones dominated by chalcopyrite and pyrite, with trace amounts of bornite and molybdenite and associated skarn-assemblage minerals, including epidote, garnet, actinolite and wollastonite. Where exposed in bulldozer trenches, mineralization is distinctly dark coloured due to manganese staining and is in contrast to the nearby white coloured dacite and carbonate formations. Sulphide minerals are fine- to medium- grained and have subhedral to euhedral textures. Sulphides are present in reticulating veinlets that in places in drill cores form a web-like pattern. [Note that only a portion of drill cores were examined and due to weathering effects and the passage of time since the cores were placed in storage, it was not possible to identify the drill holes and depths represented.]

## **11.0 2008 PROGRAM OF WORK**

The objective of the 2008 program of field work on the Arsenault property was to obtain, using current methods of analysis and data management, comprehensive geochemical data concerning distribution of certain metals, particularly copper, gold and silver, that, combined with historic data obtained from ARIS files and other sources, may be used in further exploration of the property. The 2008 program was managed by Terracad Geoscience Surveys Ltd. of Vancouver, B. C. for North Bluff Exploration Inc. Peter Burjoski, field supervisor, arranged logistics and support items, managed the camp and ensured security of samples and other data.

Orthogonal grids of measured and picketed lines were the basis of field surveys on the Arsenault property. Handheld GPS instruments were used to establish coordinates of camp and other features and periodically of grid stations. Lines were aligned using handheld Silva-type compasses (magnetic declination 25° E. and distances were measured with belt chains that employ thread and counters). Because most of the Arsenault property is lightly treed or above treeline, it was relatively easy to maintain straight lines. The grid included sufficient "tie" lines to ensure that distances between lines were accurate within acceptable limits. The grid is depicted in several of the Figures that accompany this report. Line 31500 North at the south end of the grid is grossly misaligned but the data is appropriately plotted.

As part of the 2008 program of work on the Arsenault property, historic geochemical data and magnetic survey data were compiled. Figures 5(a) through 5(f) illustrate the historic geochemical survey data and highlight parts of that data. Figure 6 illustrates the historic magnetic survey data.



**Legend**

**Historical Geochem - Soil Samples**

**Au (ppb)**

- 21-35
- 10-21
- 0-10
- 0

**MINFILE Status**

- ⊗ Developed Prospect
- ⊗ Past Producer
- ⊗ Producer
- Prospect
- Showing
- Anomaly

□ Claim Boundary

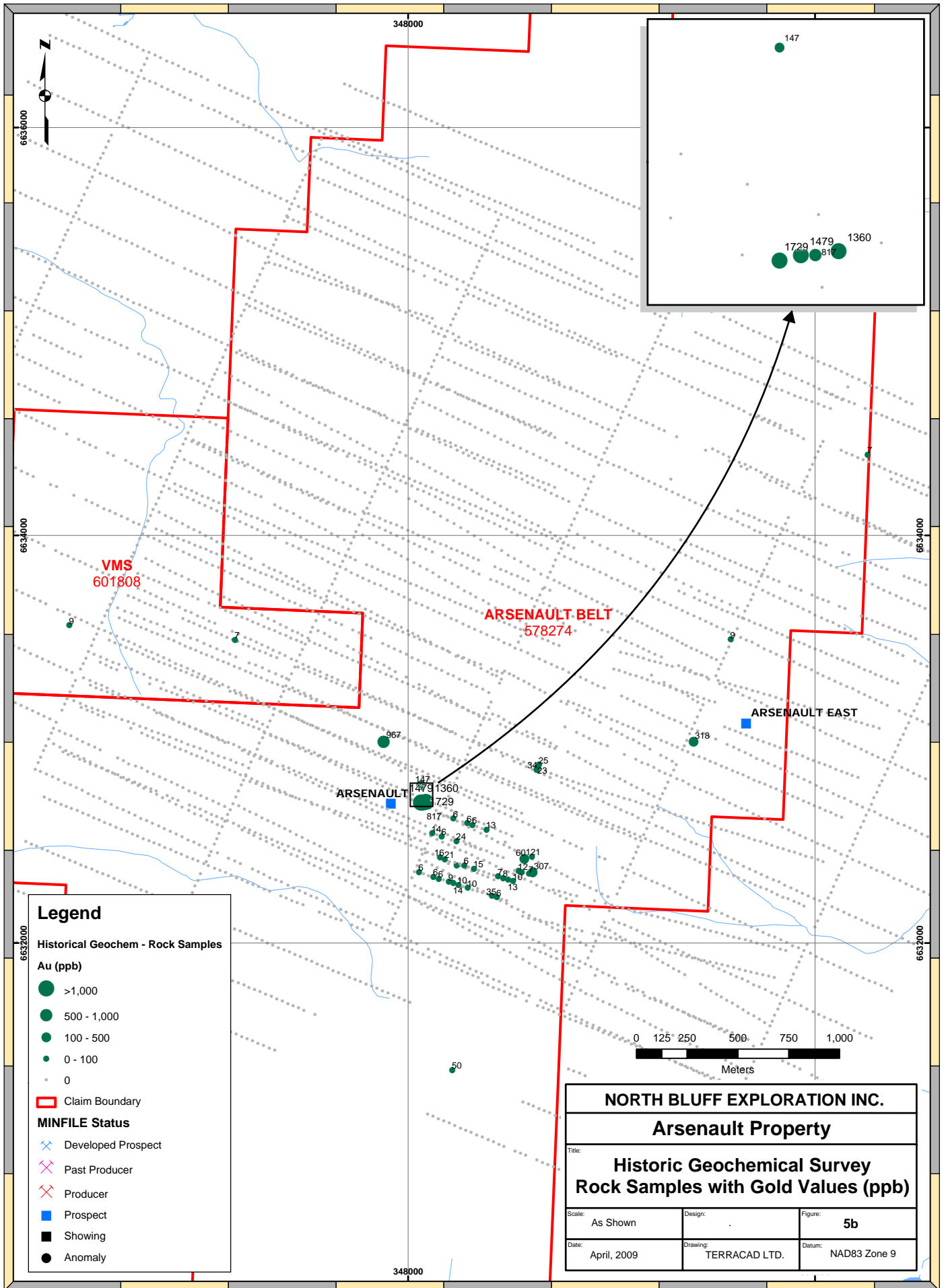
**NORTH BLUFF EXPLORATION INC.**

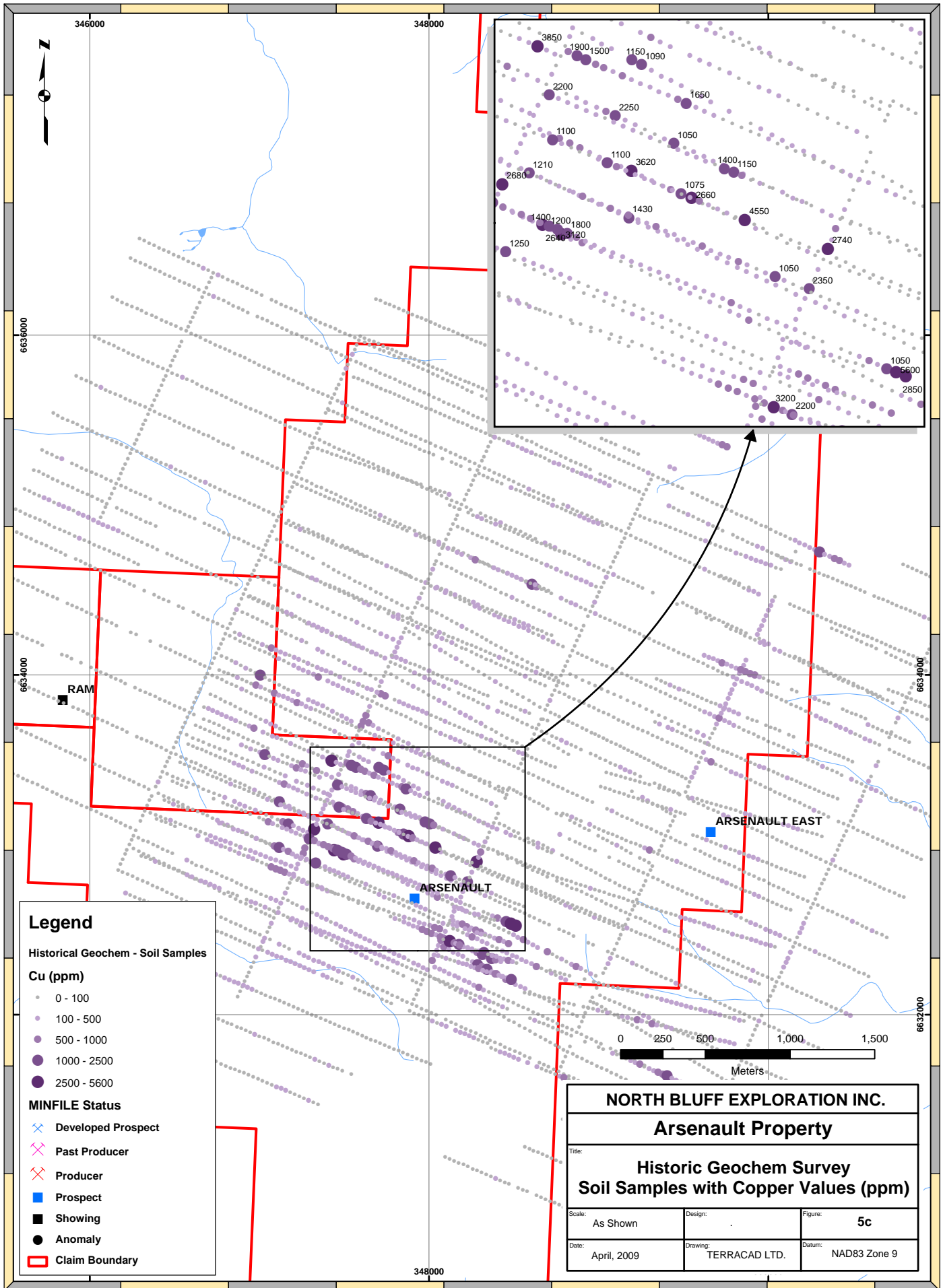
**Arsenault Property**

Title: **Historic Geochemical Survey  
Soil Samples with Gold Values (ppb)**

Scale: As Shown	Design: .	Figure: <b>5a</b>
Date: April, 2009	Drawing: TERRACAD LTD.	Datum: NAD83 Zone 9







**Legend**

**Historical Geochem - Soil Samples**

**Cu (ppm)**

- 0 - 100
- 100 - 500
- 500 - 1000
- 1000 - 2500
- 2500 - 5600

**MINFILE Status**

- ⊗ Developed Prospect
- ⊗ Past Producer
- ⊗ Producer
- Prospect
- Showing
- Anomaly

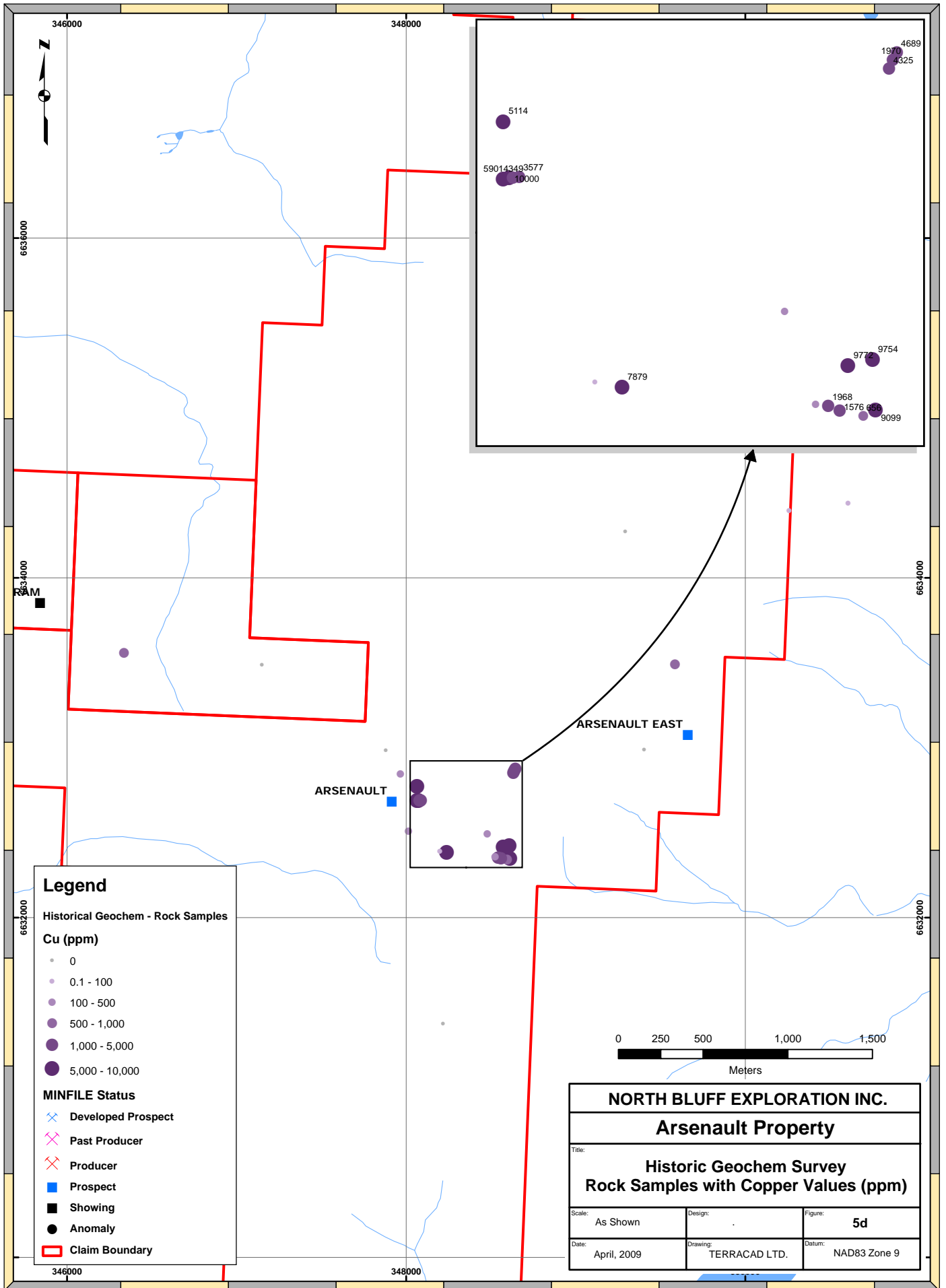
- Claim Boundary

**NORTH BLUFF EXPLORATION INC.**

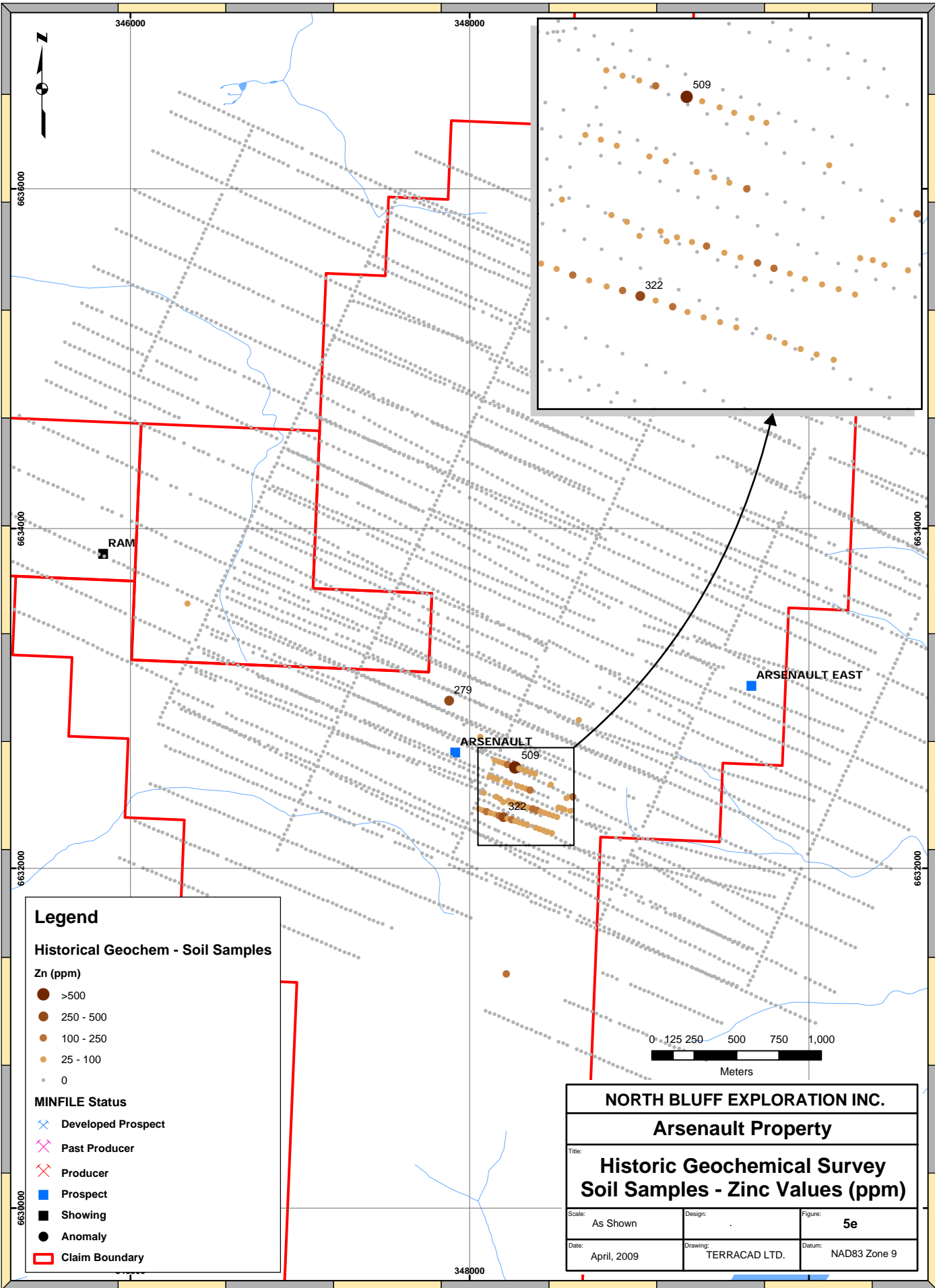
**Arsenault Property**

Title: **Historic Geochem Survey  
Soil Samples with Copper Values (ppm)**

Scale: As Shown	Design:	Figure: <b>5c</b>
Date: April, 2009	Drawing: TERRACAD LTD.	Datum: NAD83 Zone 9



<b>NORTH BLUFF EXPLORATION INC.</b>		
<b>Arsenault Property</b>		
Title: <b>Historic Geochem Survey Rock Samples with Copper Values (ppm)</b>		
Scale: As Shown	Design: .	Figure: <b>5d</b>
Date: April, 2009	Drawing: TERRACAD LTD.	Datum: NAD83 Zone 9



**Legend**

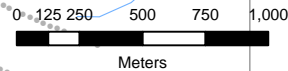
**Historical Geochem - Soil Samples**

**Zn (ppm)**

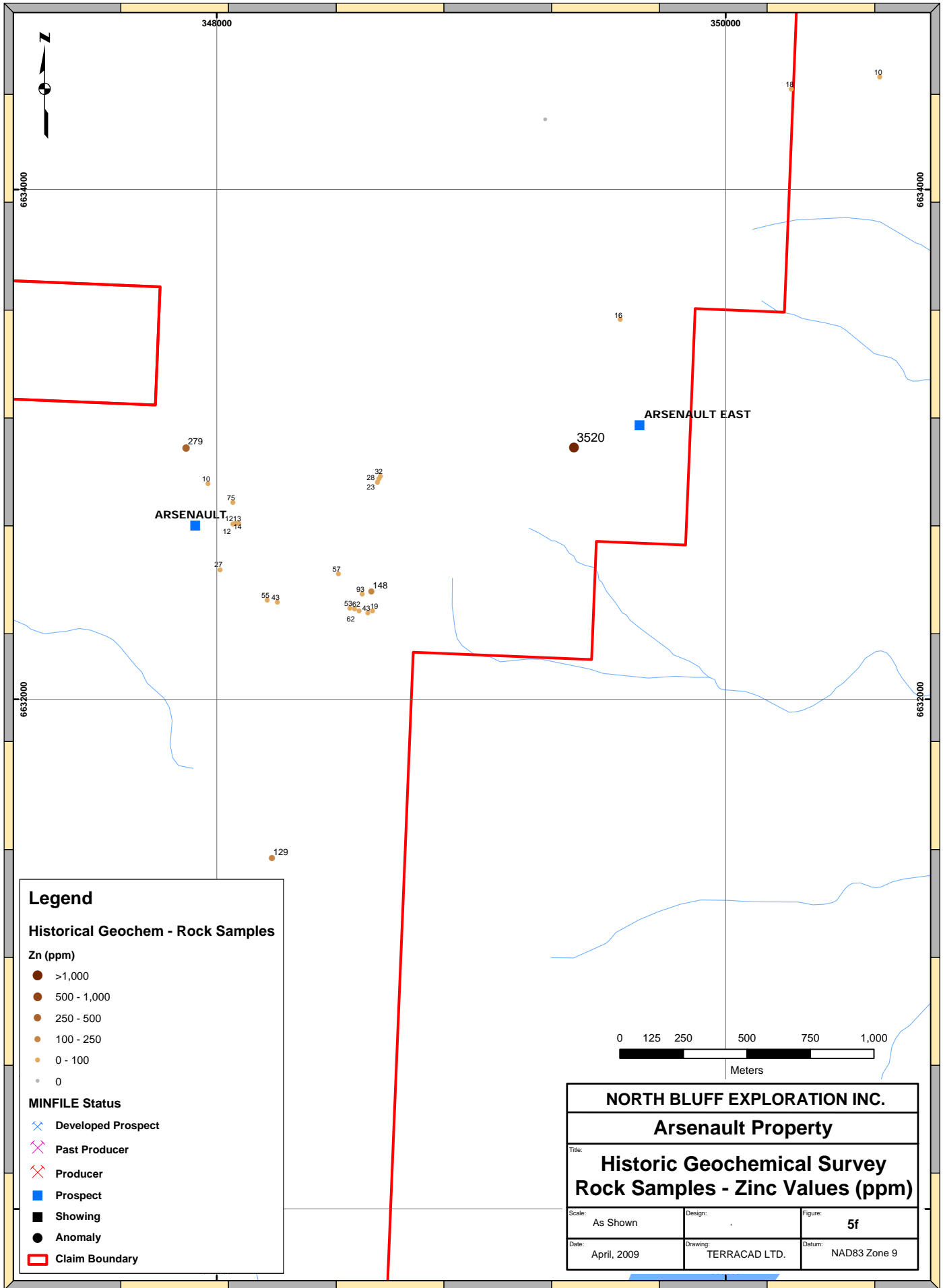
- >500
- 250 - 500
- 100 - 250
- 25 - 100
- 0

**MINFILE Status**

- ⊗ Developed Prospect
- ⊗ Past Producer
- ⊗ Producer
- Prospect
- Showing
- Anomaly
- Claim Boundary



<b>NORTH BLUFF EXPLORATION INC.</b>		
<b>Arsenault Property</b>		
Title:		
<b>Historic Geochemical Survey Soil Samples - Zinc Values (ppm)</b>		
Scale:	Design:	Figure:
As Shown		<b>5e</b>
Date:	Drawing:	Datum:
April, 2009	TERRACAD LTD.	NAD83 Zone 9



**Legend**

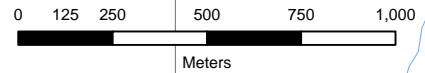
**Historical Geochem - Rock Samples**

**Zn (ppm)**

- >1,000
- 500 - 1,000
- 250 - 500
- 100 - 250
- 0 - 100
- 0

**MINFILE Status**

- ⊠ Developed Prospect
- ⊠ Past Producer
- ⊠ Producer
- Prospect
- Showing
- Anomaly
- Claim Boundary



<b>NORTH BLUFF EXPLORATION INC.</b>		
<b>Arsenault Property</b>		
Title: <b>Historic Geochemical Survey Rock Samples - Zinc Values (ppm)</b>		
Scale: As Shown	Design: .	Figure: <b>5f</b>
Date: April, 2009	Drawing: TERRACAD LTD.	Datum: NAD83 Zone 9

## **“Mobile Metal Ion” Soil Survey**

Working from a temporary camp located west of the area that was in earlier times the focus of bulldozer trenching and diamond drilling, an eight person field crew of experienced and suitably-trained bushworkers employed by Geotronics Consulting Inc. of Surrey, B. C. prepared an 18 line-km grid of measured lines over much of Arsenault Belt tenure (as in Figure 9(a)) and collected MMI soil samples at 25 metre intervals. Although 1160 MMI soil samples were taken in the field, the Company has received analytical data from only 580 samples.

MMI samples were taken from the Arsenault grid in accordance with best practices recommended by SGS Laboratories, licensees of MMI technology. MMI theory was developed in Australia as a means of detecting and measuring small concentrations of metals in soils. It posits that metal ions are transported from bedrock sources to surface or near surface positions in an osmotic hydrous column. Soil samples comprising 250 to 300 grams are gathered from a uniform, shallow, depth below surface (approximately 25 cm depth) and those samples are treated with sensitive element-specific organic and other undisclosed chemical collectors (leachates) that extract the loosely-held, but not necessarily the total, metal ions from the soil. The solutions are then passed through a gas chromatograph that records the concentrations of elements that are specific to that leachate. The resulting data are then analysed by a simple algorithm that calculates for each element the "MMI response ratio", a peak to background ratio that defines "background" as the average of the lowest quartile of the data. Each sample is then given an MMI value that can be plotted or otherwise treated statistically. MMI theory allows splicing of data from varying regoliths and facilitates multi-element presentations.

Arsenault property samples were taken from a standard depth below surface (about 25 cm). About 500 g of soil were placed in suitably identified kraft envelopes: each envelope was marked with its unique grid location, i.e. L1+50N, 3+00E. Soils were accumulated at the field camp during the duration of the survey and were partially air-dried and then placed in rugged boxes for transfer by helicopter and pick-up truck to Whitehorse and ultimately from Whitehorse to Lakefield, Ontario by bonded freight truck. The ISO certified SGS analytical laboratory in Lakefield, Ontario processed the samples following standard methods, including drying, sieving and digesting a portion in solutions the identity of which are protected. 46 elements were determined by the undisclosed methods. Data were received in digital format by Terracad Geoscience Services Ltd. who then produced graphic displays of abundances, in the form of plan views of the grid, for gold (Figure 10(a)), copper (Figure 10(b)), lead (Figure 10(c)), silver (Figure 10(d)), zinc (Figure 10(e)) and molybdenum (Figure 10(f)). Complete analytical data are included in Appendix 1 of this report.

The Arsenault property has a variety of terrains that influence the quality of the MMI samples: lower slopes have irregularly occurring patches of muskeg and permafrost, whereas higher slopes are rocky and have immature and thin soils. Some parts of the property have long talus slopes that are not suitable for MMI sampling.

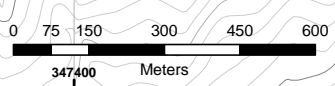
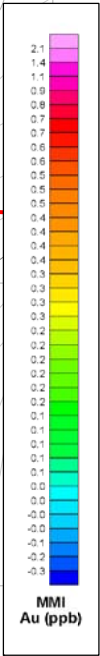
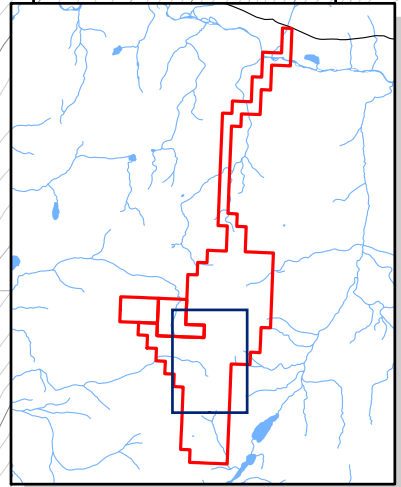
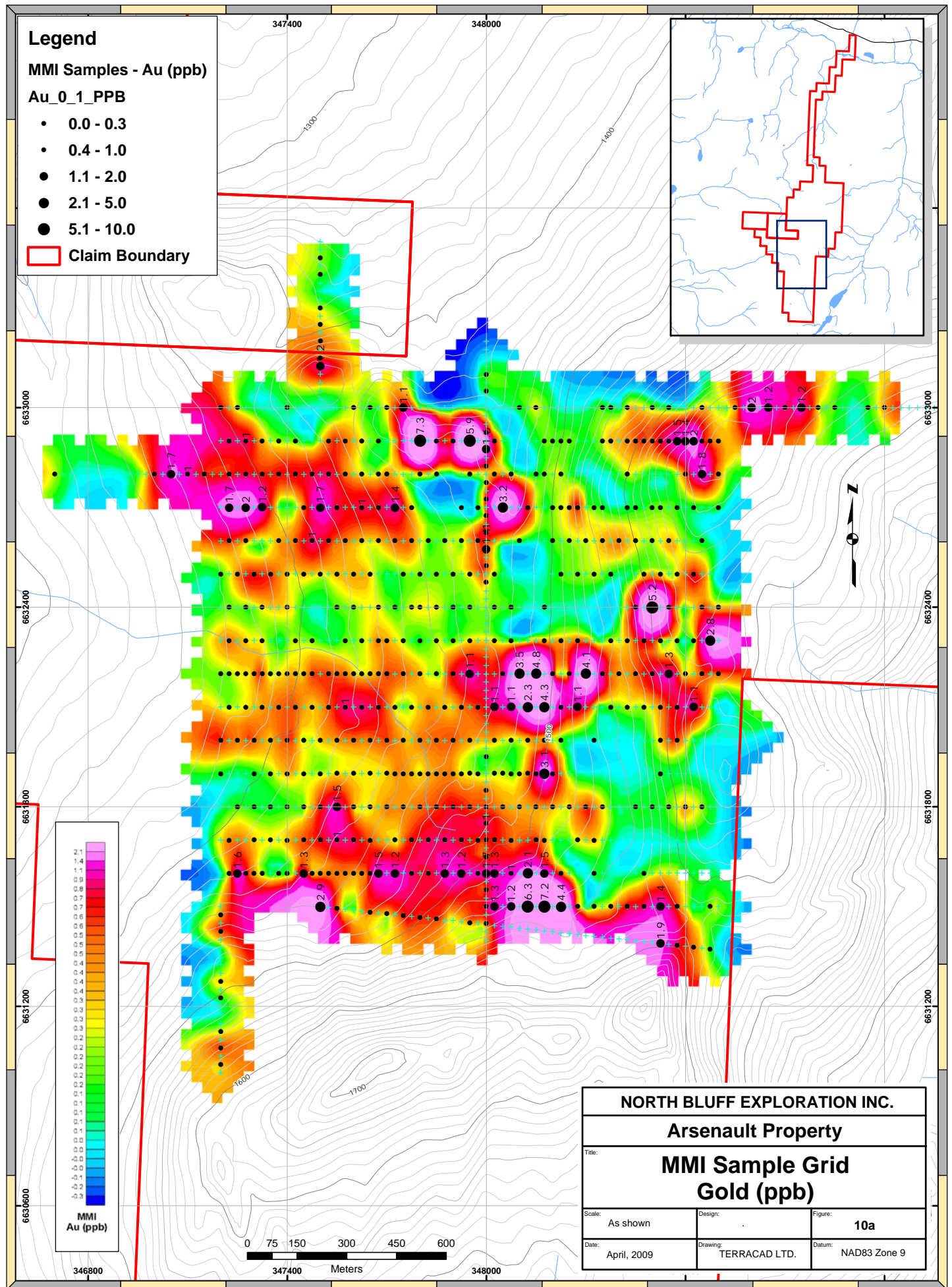
# Legend

## MMI Samples - Au (ppb)

### Au\_0\_1\_PPB

- 0.0 - 0.3
- 0.4 - 1.0
- 1.1 - 2.0
- 2.1 - 5.0
- 5.1 - 10.0

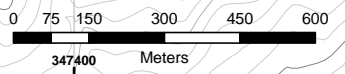
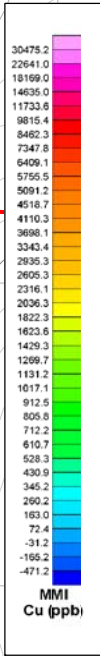
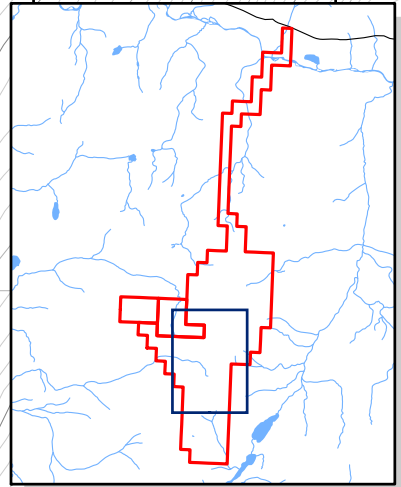
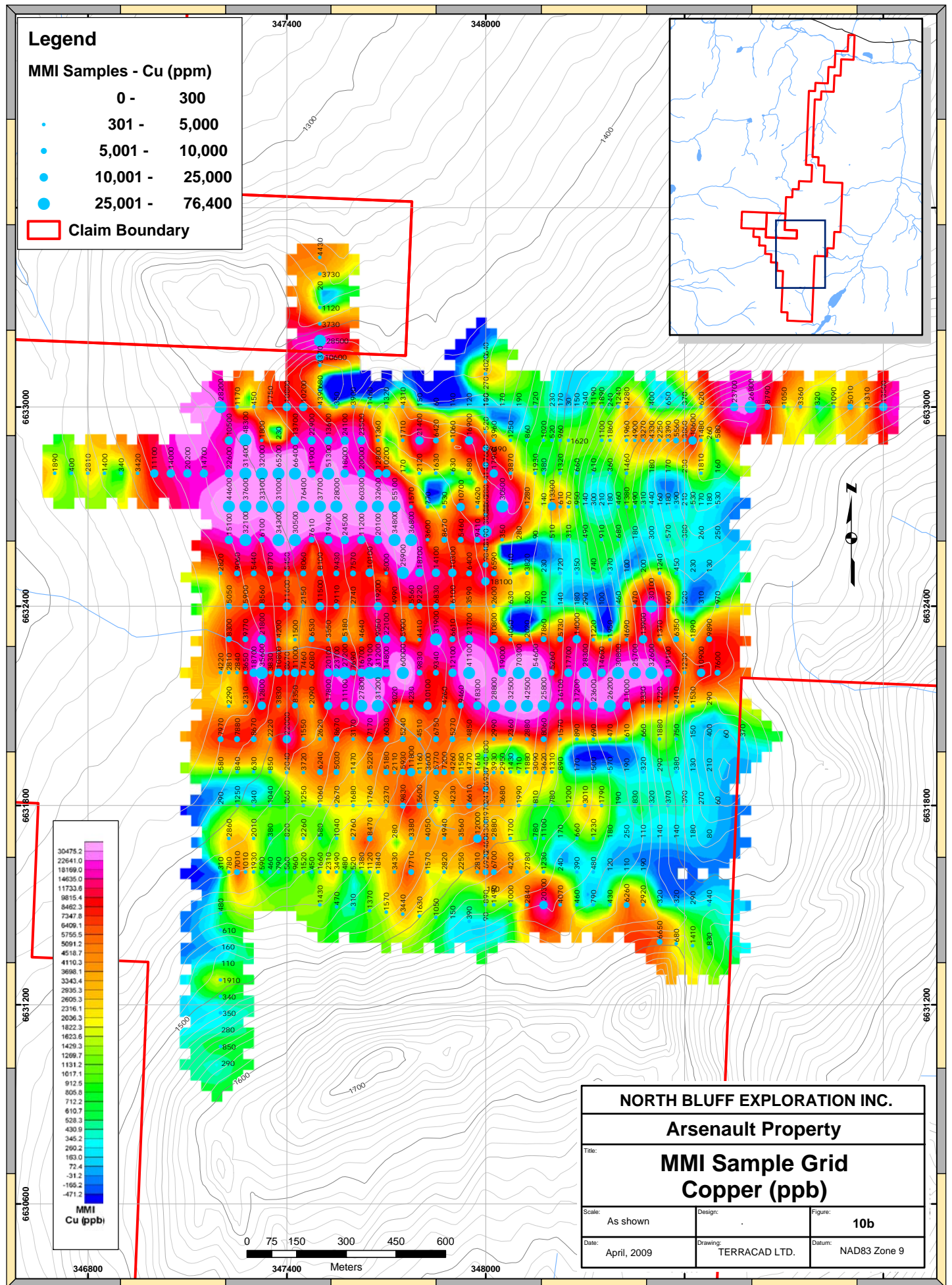
Claim Boundary



<b>NORTH BLUFF EXPLORATION INC.</b>		
<b>Arsenault Property</b>		
<b>MMI Sample Grid</b>		
<b>Gold (ppb)</b>		
Title:	<b>MMI Sample Grid Gold (ppb)</b>	
Scale:	As shown	Figure: <b>10a</b>
Date:	April, 2009	Datum: NAD83 Zone 9
Design:	TERRACAD LTD.	

# Legend

- MMI Samples - Cu (ppm)**
- 0 - 300
  - 301 - 5,000
  - 5,001 - 10,000
  - 10,001 - 25,000
  - 25,001 - 76,400
- Claim Boundary



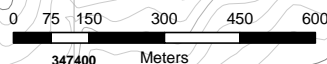
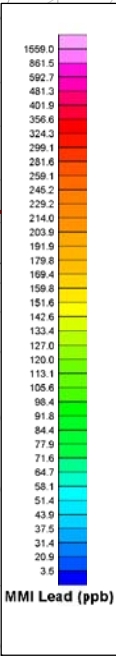
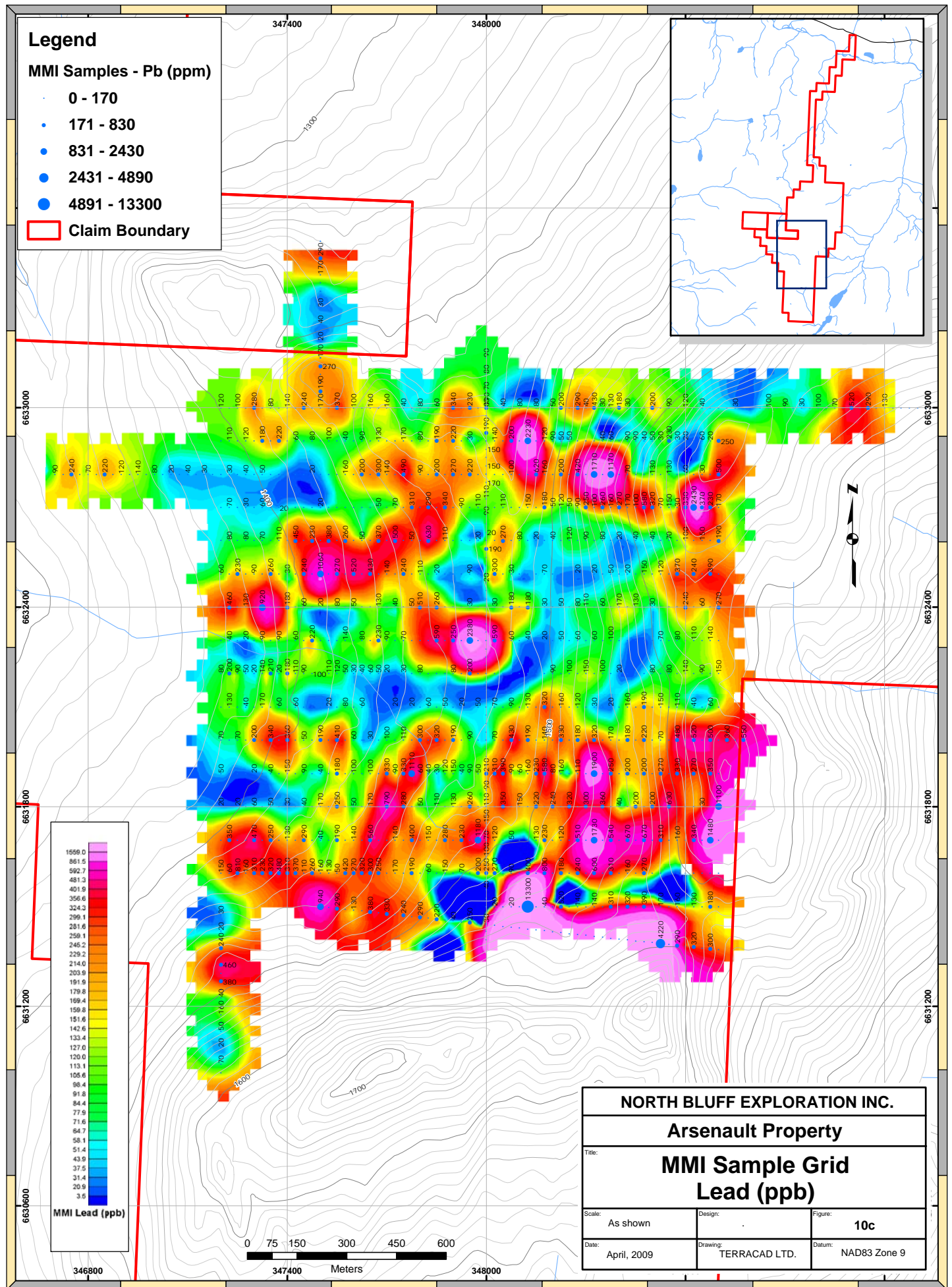
<b>NORTH BLUFF EXPLORATION INC.</b>		
<b>Arsenault Property</b>		
<b>MMI Sample Grid</b>		
<b>Copper (ppb)</b>		
Title:		
Scale:	As shown	Figure: <b>10b</b>
Date:	April, 2009	Datum: NAD83 Zone 9
Design:	TERRACAD LTD.	



# Legend

## MMI Samples - Pb (ppm)

- 0 - 170
  - 171 - 830
  - 831 - 2430
  - 2431 - 4890
  - 4891 - 13300
- Claim Boundary



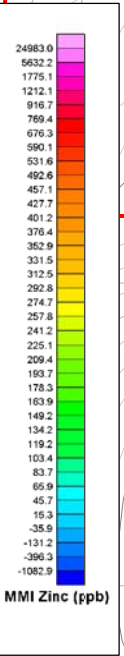
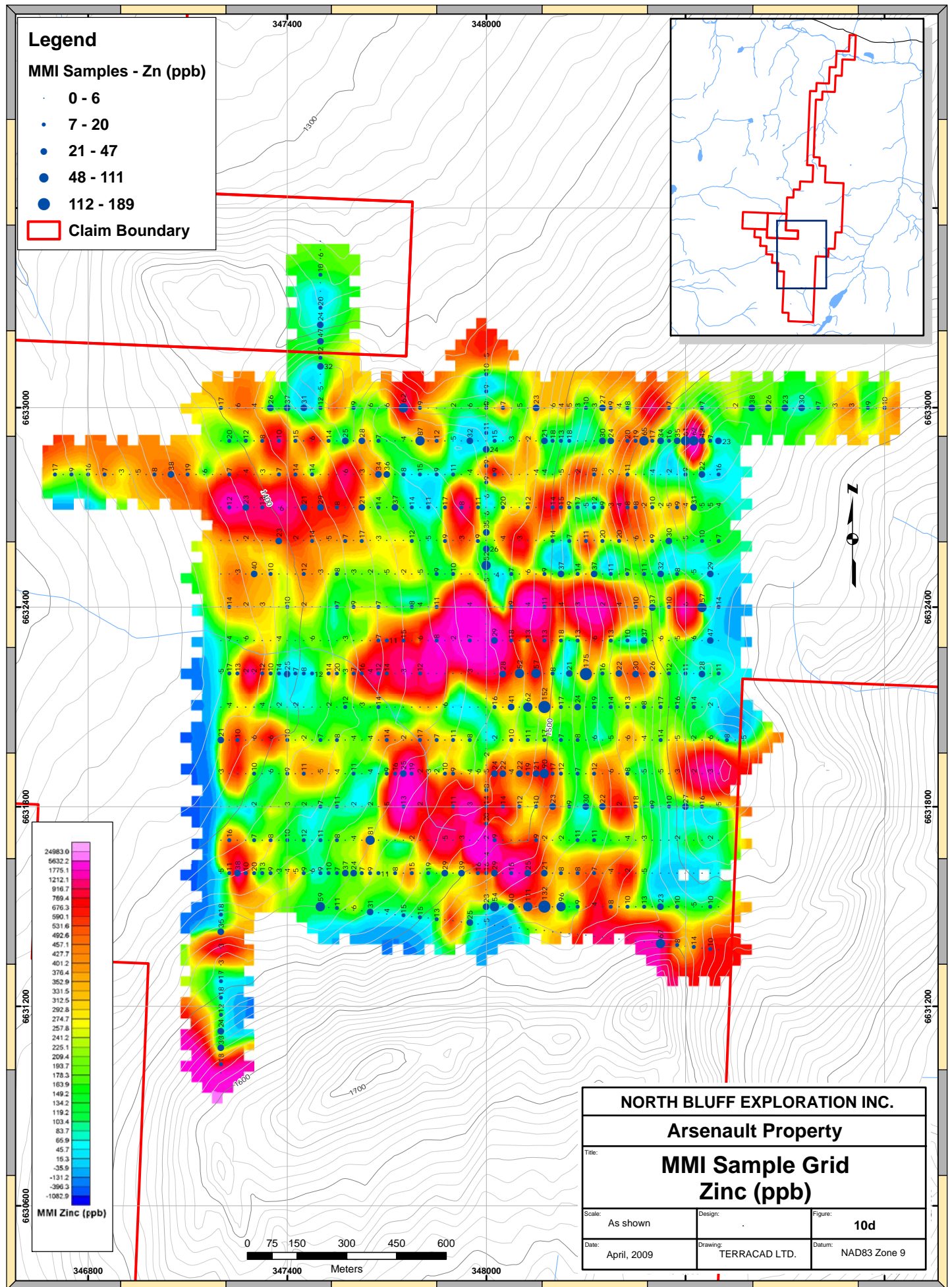
<b>NORTH BLUFF EXPLORATION INC.</b>		
<b>Arsenault Property</b>		
<b>MMI Sample Grid</b>		
<b>Lead (ppb)</b>		
Title:		
Scale:	As shown	Figure: <b>10c</b>
Date:	April, 2009	Datum: NAD83 Zone 9
Design:	TERRACAD LTD.	

# Legend

## MMI Samples - Zn (ppb)

- 0 - 6
- 7 - 20
- 21 - 47
- 48 - 111
- 112 - 189

□ Claim Boundary



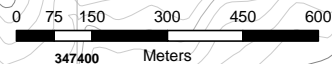
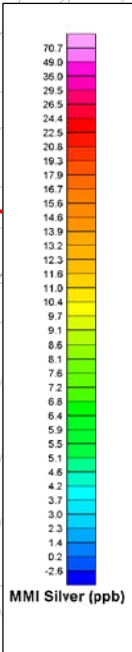
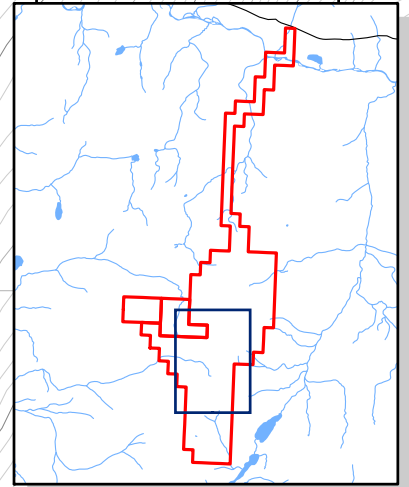
<b>NORTH BLUFF EXPLORATION INC.</b>		
<b>Arsenault Property</b>		
<b>MMI Sample Grid Zinc (ppb)</b>		
Title:		
Scale:	As shown	Figure: <b>10d</b>
Date:	April, 2009	Datum: NAD83 Zone 9
Design:	TERRACAD LTD.	

# Legend

## MMI Samples - Ag (ppb)

- 0 - 6
- 7 - 20
- 21 - 47
- 48 - 111
- 112 - 189

□ Claim Boundary



### NORTH BLUFF EXPLORATION INC.

### Arsenault Property

### MMI Sample Grid Silver (ppb)

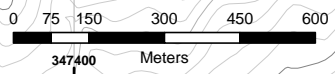
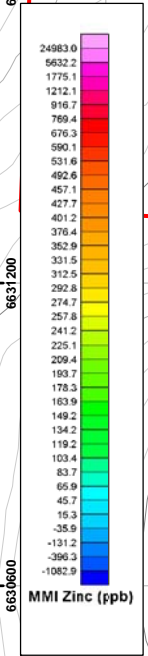
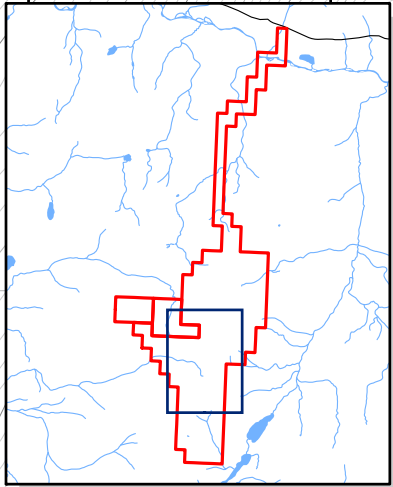
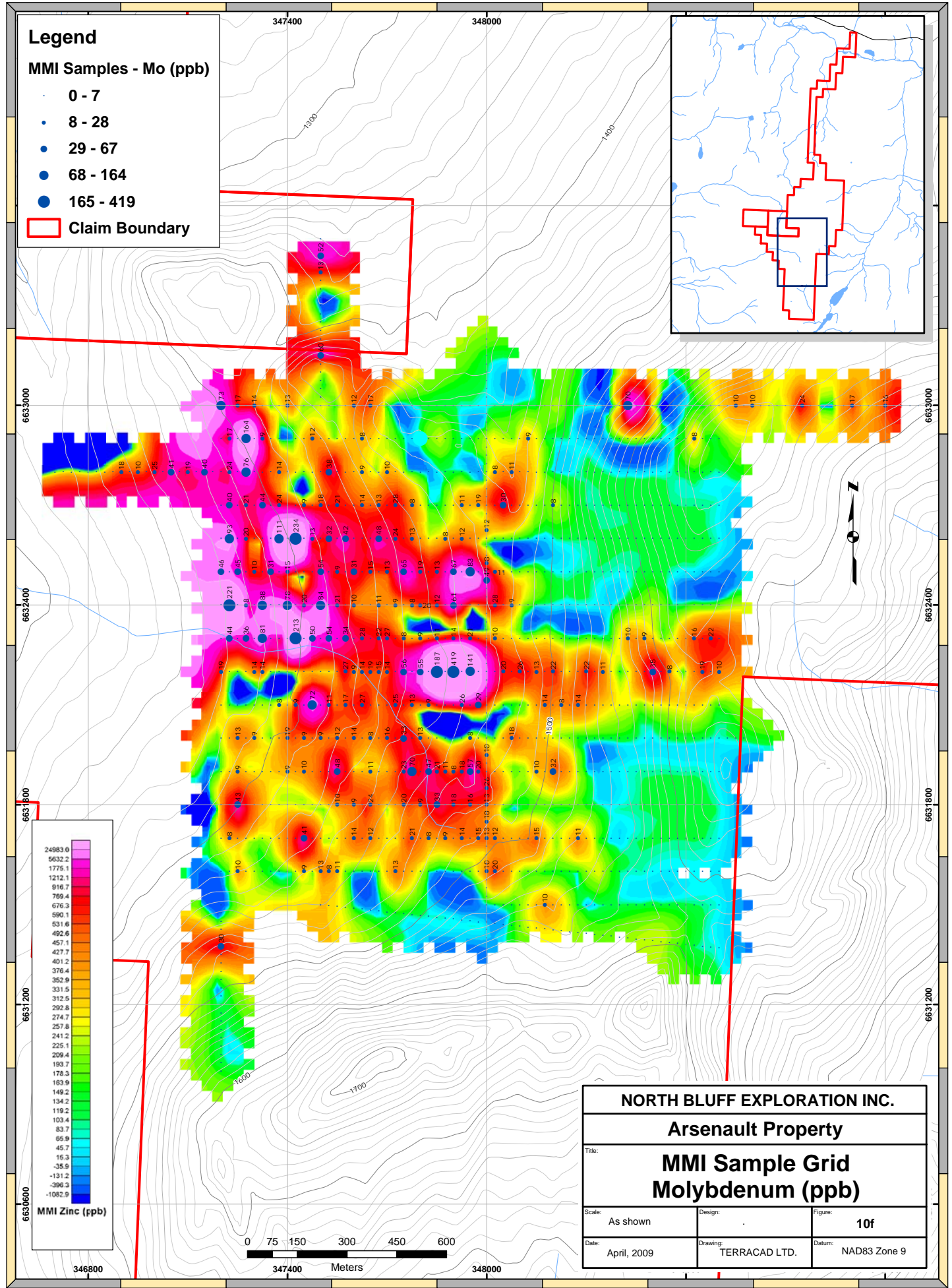
Title:		
Scale:	As shown	Figure: 10e
Date:	April, 2009	Datum: NAD83 Zone 9
Design:	TERRACAD LTD.	

# Legend

## MMI Samples - Mo (ppb)

- 0 - 7
- 8 - 28
- 29 - 67
- 68 - 164
- 165 - 419

Claim Boundary



<b>NORTH BLUFF EXPLORATION INC.</b>		
<b>Arsenault Property</b>		
<b>MMI Sample Grid</b>		
<b>Molybdenum (ppb)</b>		
Title:		
Scale:	As shown	Figure: 10f
Date:	April, 2009	Datum: NAD83 Zone 9
Design:	TERRACAD LTD.	

SGS Laboratories is a full service, ISO certified analytical laboratory with international operations and its laboratory services are monitored in several ways, both external and internal. Quality control measures are maintained by a series of procedures including replicate sample preparation, duplicate sample pulps (if appropriate), repeated analyses, internal standard samples, external standard samples, and "blanks". North Bluff, however, in view of the early stage of its work, did not attempt to establish any quality assurance measures but is confident of the laboratory's overall competence.

## **Discussion of Geochemical Data**

North Bluff Exploration Inc. has received analytical data from 560 of 1160 MMI samples and the remaining samples will be analysed when funds are available. These comments apply only to that part of Arsenault's 2008 grid for which analyses are available and that is shown in Figures 10(a) through 10(f). Briefly, gold, copper and silver plots show good correlation in three areas of the grid; lead values are erratically distributed and zinc is strong in the central part of the grid in an area with dimensions about 600 m by 200 m. Molybdenum is strongest in the central-western part of the grid.

Gold MMI response (Figure 10(a)) is strong in several areas of the grid, particularly near the southmost lines where an anomaly extends across approximately 400 metres with maximum gold analyses of 7.2 ppb. Several other areas, coloured purple shades, are better defined and only slightly lower in intensity.

Copper MMI response (Figure 10(b)) is particularly strong in the northwest part of the grid with a large area of elevated values. An area with similar values lies a short distance to the south and east and is assumed to be a folded or faulted offset. Copper in the gold/silver anomalous area at the south limit of the grid is only weakly elevated, suggesting that a different factor is present.

Lead MMI response (Figure 10(c)) is particularly strong in the southeast part of the grid and its distribution is somewhat similar to, but not identical to, that of silver. There is an apparent inverse lead – copper relationship in the northwest part of the grid.

Zinc MMI response (Figure 10(d)) is erratic, with strongest responses in the southeast of the grid where incompletely described anomalous areas are shown. Gold and silver have similar distributions. Low silver values were returned from samples taken from an 800 metre area in the central – west part of the grid where copper, lead and molybdenum values are moderately strong.

Silver MMI response (Figure 10(e)) is weak overall, with particular weakness in the central – west part of the grid.

Molybdenum MMI response (Figure 10(f)) closely mirrors that of copper.

The MMI data for other elements has not been investigated.

## **Magnetic Survey**

Historic ground-based magnetic survey data are presented in Figure 6 of this report. That data in the main Arsenault area shows an irregular pattern of small discrete magnetic "high" anomalies arrayed in a crescent shaped arc around the southeast part of a relatively featureless core.

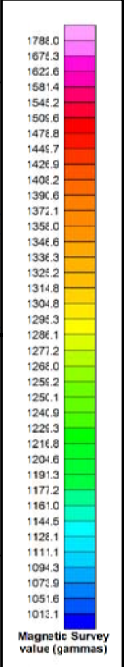
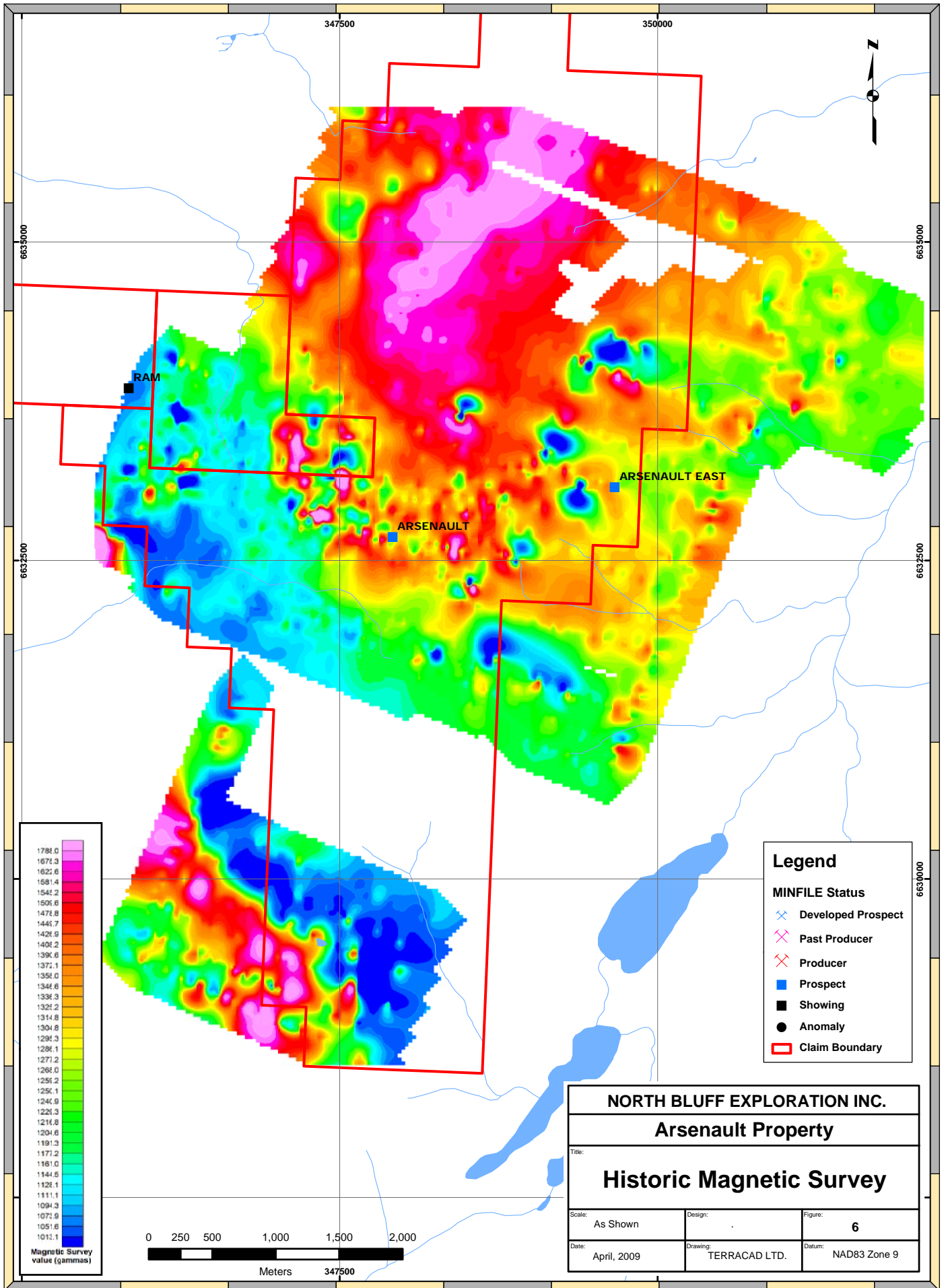
Magnetometer observations, in summer 2008, were recorded in the field by Geotronics personnel and delivered to the client, North Bluff, in a semi-processed format without logistics or interpretive reports. The vertical component of the magnetic field was measured over the property grid using a Geometrics Proton Precession Magnetometer, Model G-856. Field observations were recorded at 25 metre intervals on east-west oriented grid lines with 100 metre spacings. The survey grid had dimensions 1.4 km north-south and 1.2 km east-west and total length of lines was 18 km. Total number of observations was 720. A similar instrument with continuous recording capabilities was positioned at the campsite in order to capture details of diurnal variations and incidental magnetic storms that may have distorted data from the field survey and the data sets were reconciled each evening. Both field and base station magnetic readings were "dumped" periodically into a computer program that then "managed" and corrected the information to yield final data. Terracad Geoscience Services Ltd. then prepared final drawings in colour-coded contoured plan (Figure 9(a)) and profile (Figure 9(b)). The latter Figure (Figure 9(b)) shows the observed magnetic readings.

Magnetic data in Figure 9(a) show a strong east-west zone of elevated magnetic response between lines 32100N and 32400N, and a large number of "spot" highs to the north. The southmost line, L31600N, has low magnetic readings that extend with lesser intensity to L31800N. Where bedrock data were scarce or lacking it was possible to extrapolate and speculate concerning the source and possible significance of magnetic patterns.

### **Satellite Imaging**

Terracad Geoscience Services Ltd. employed satellite imagery and computer-based data compilation methods to obtain a series of shaded relief depictions of the Arsenault property using an array of light sources, from 0° to 315° (Figure 7). Lineaments were visually identified and then compiled onto rose diagrams (Figure 8) that plot, variously, lineament count (red), average length (green), and maximum length (yellow). Strongest lineaments, on the basis of length and frequency are aligned at 90° az., with secondary alignment at 0° az. The regional (Cordilleran) trend, which elsewhere is overwhelmingly northwesterly, is not strongly represented.

Satellite imagery was also employed to relate structures to a variety of alteration minerals as revealed by satellite-based spectral analysis. The following alteration types were investigated: iron oxide (Figure 9(a)), illite/sericite (Figure 9(b)) kaolinite/alunite (Figure 9(c)) and silica (Figure 9(d)). Iron oxide spectrometry is strongly represented in the Arsenault area but that response is likely a function of bedrock exposure: high ridges that project above treeline show the strongest responses. Illite/sericite spectrometry is less convincingly related to elevation: in Figure 9(b) the high mountains located southeast of Arsenault show strong illite/sericite concentrations whereas the Arsenault area shows only weak to moderately strong response. The contrasting appearances are related to underlying petrology: the Simpson Batholith to the southeast is a granitic body that inherently contains a significant amount of potassium whereas the Arsenault area comprises metasedimentary rocks with only lesser amounts of intrusive rocks. Kaolinite/alunite spectrometry appears to be strongly expressed in the general Arsenault area and on a ridge located immediately west of Two Lakes: its possible relationship to metallic mineralization has not been determined. Silica alteration is not prominently displayed.

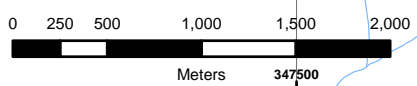


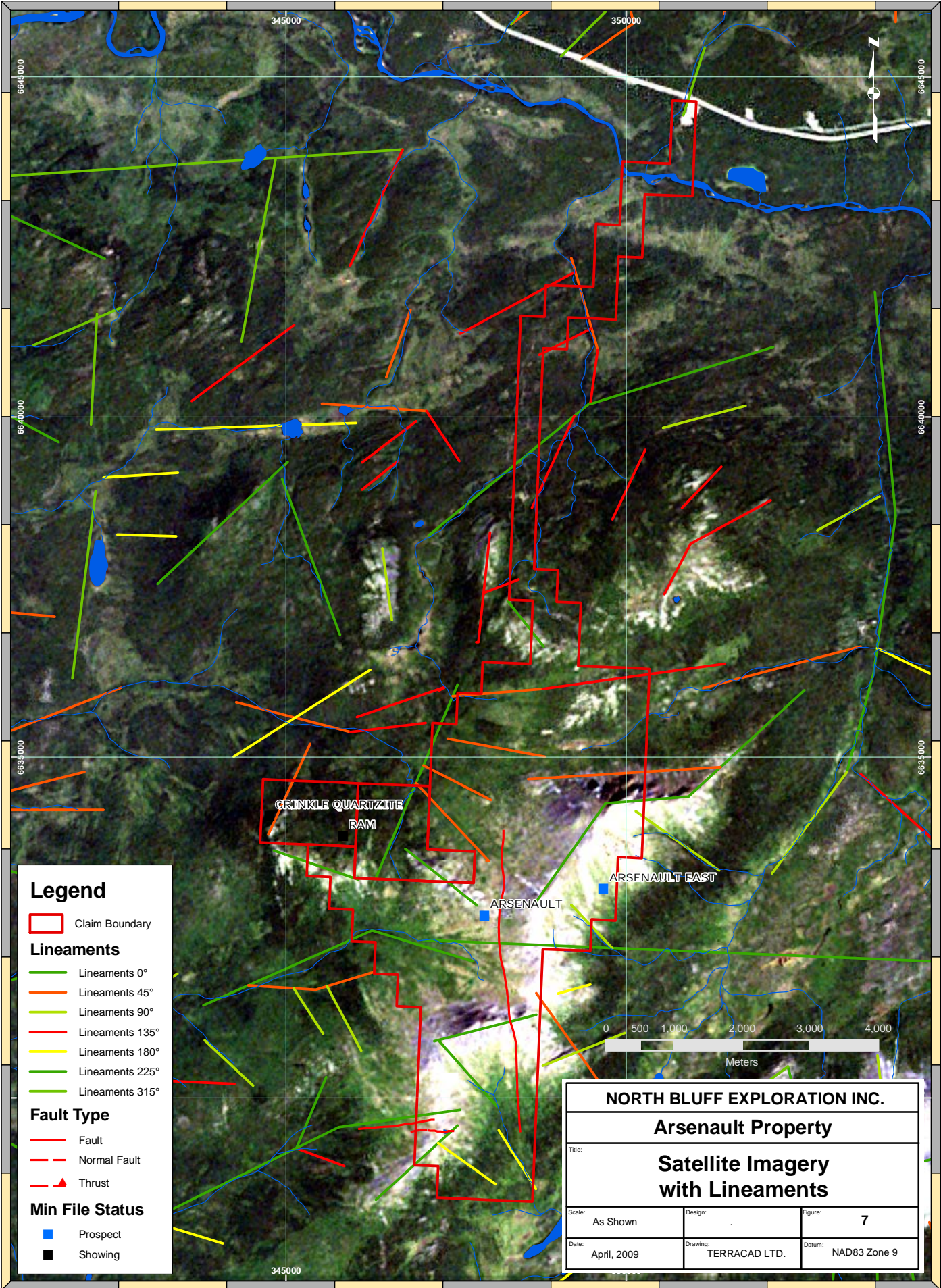
**Legend**

**MINEFILE Status**

- Developed Prospect
- Past Producer
- Producer
- Prospect
- Showing
- Anomaly
- Claim Boundary

<b>NORTH BLUFF EXPLORATION INC.</b>		
<b>Arsenault Property</b>		
<b>Historic Magnetic Survey</b>		
Title:		
Scale: As Shown	Design:	Figure: 6
Date: April, 2009	Drawing: TERRACAD LTD.	Datum: NAD83 Zone 9





**Legend**

Claim Boundary

**Lineaments**

- Lineaments 0°
- Lineaments 45°
- Lineaments 90°
- Lineaments 135°
- Lineaments 180°
- Lineaments 225°
- Lineaments 315°

**Fault Type**

- Fault
- Normal Fault
- Thrust

**Min File Status**

- Prospect
- Showing

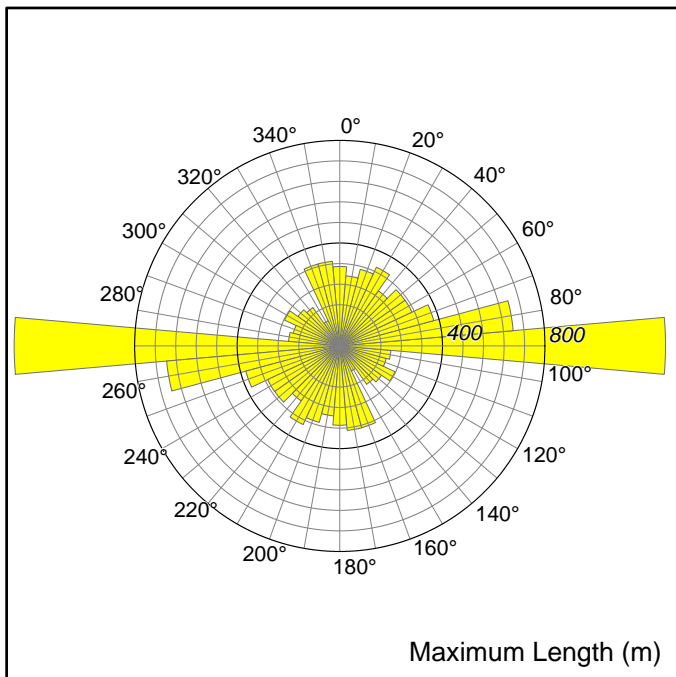
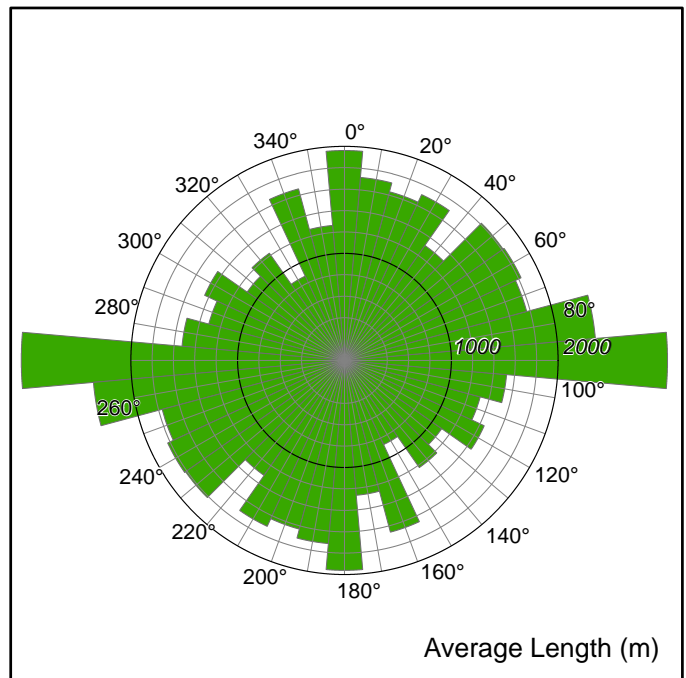
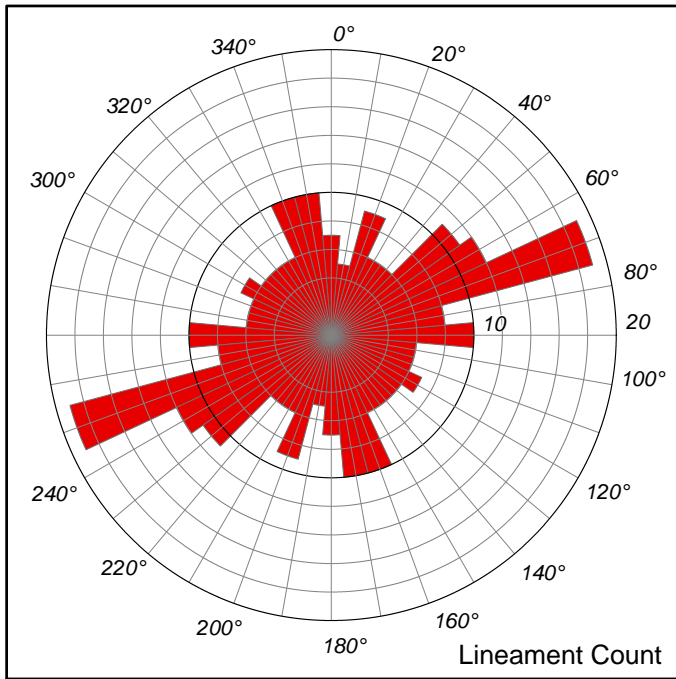
**NORTH BLUFF EXPLORATION INC.**

**Arsenault Property**

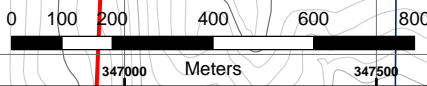
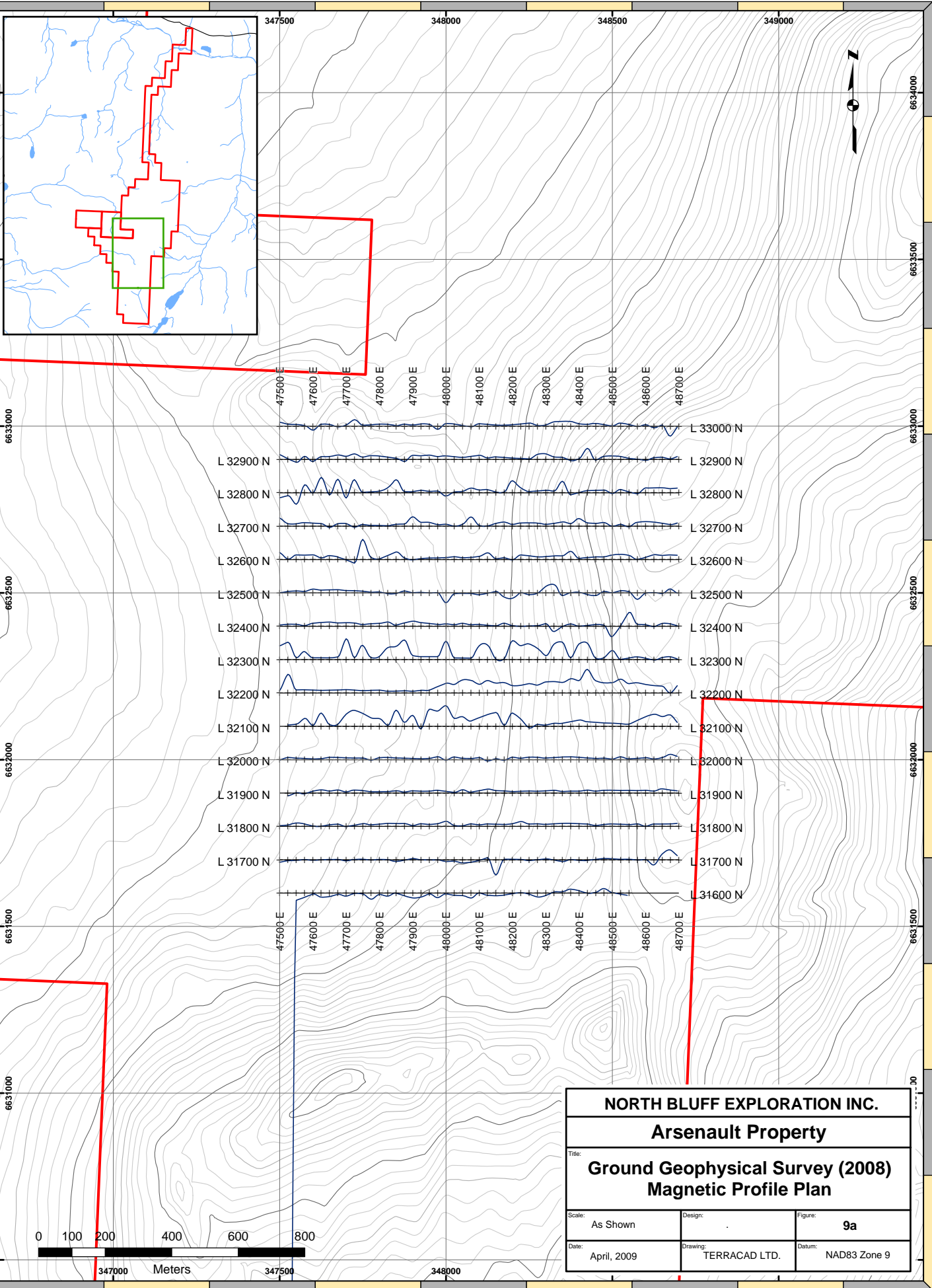
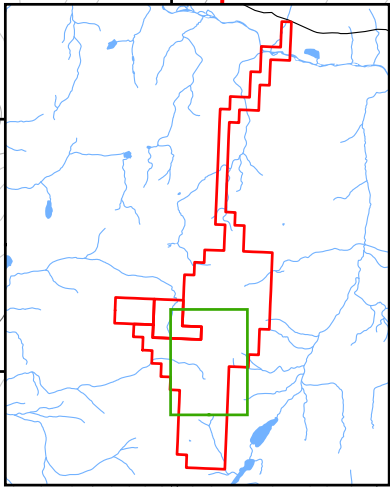
**Satellite Imagery  
with Lineaments**

Title:		
<b>Satellite Imagery with Lineaments</b>		
Scale: As Shown	Design:	Figure: <b>7</b>
Date: April, 2009	Drawing: TERRACAD LTD.	Datum: NAD83 Zone 9





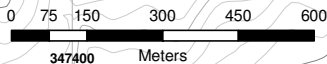
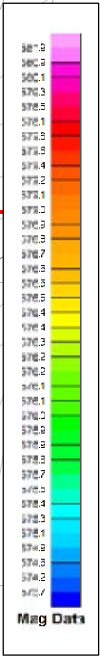
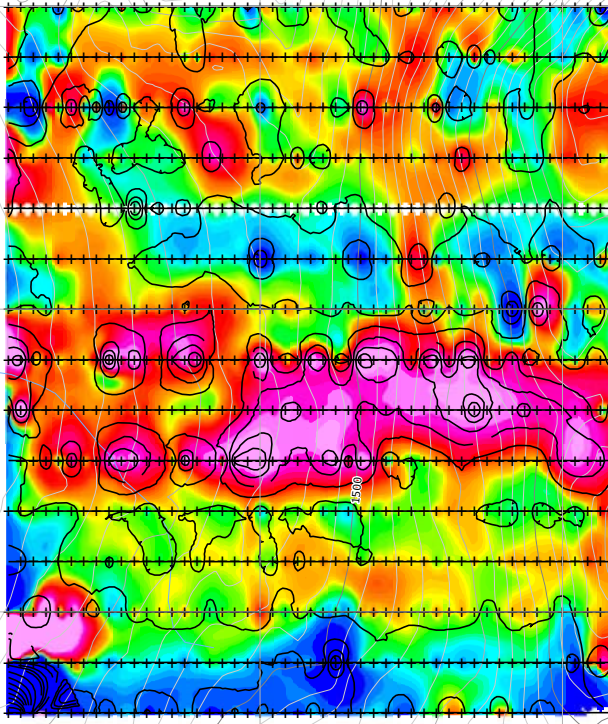
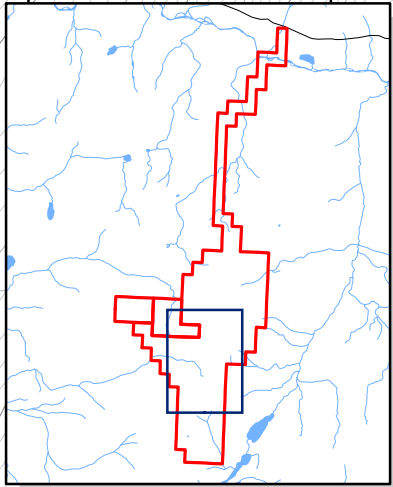
<b>NORTH BLUFF EXPLORATION INC.</b>		
<b>Arsenault Property</b>		
<b>Lineament Statistics Rose Diagrams</b>		
Scale:	Design:	Figure: <b>8</b>
Date: April, 2009	Drawing: TERRACAD LTD.	Rev:



<b>NORTH BLUFF EXPLORATION INC.</b>		
<b>Arsenault Property</b>		
Title: <b>Ground Geophysical Survey (2008)</b>		
Magnetic Profile Plan		
Scale: As Shown	Design: .	Figure: <b>9a</b>
Date: April, 2009	Drawing: TERRACAD LTD.	Datum: NAD83 Zone 9

**Legend**

 Claim Boundary



<b>NORTH BLUFF EXPLORATION INC.</b>		
<b>Arsenault Property</b>		
Title: <b>Ground Geophysical Survey (2008) Magnetic Contour Map</b>		
Scale: As shown	Design: -	Figure: <b>9b</b>
Date: April, 2009	Drawing: TERRACAD LTD.	Datum: NAD83 Zone 9

## **Drilling**

Historic diamond drilling on the Arsenault property included four holes with total length 1080 metres drilled in 1970 and 1972 and two holes with total length 675.5 metres drilled in 1979 and 1981. Some cores are stored on the property but because boxes and markers have deteriorated are of limited interest.

## **12.0 INTERPRETATION AND CONCLUSIONS**

The Arsenault property comprises 2751.01 hectares in three mineral tenures. It includes four mineral showings, Arsenault, Arsenault East, Ram and Crinkle Quartzite, each of which has been investigated historically. Prior to its acquisition by North Bluff Exploration Inc. the property had been explored by technical surveys and six (?) small diameter diamond drill holes. North Bluff in 2008 field season collected 1197 MMI soil samples and with a magnetometer surveyed 16.8 line-km of measured grid.

The Arsenault property is situated in Big Salmon Complex geologic terrane, the southerly continuation of Yukon-Tanana Terrane, close to the Simpson Peak batholith. Historic data includes references to massive sulphide-type mineral occurrences in proximity to Mount Hazel orthogneissic rocks. That work has investigated several mineral occurrences and included a modest amount of bulldozer trenching and several diamond drill holes. Principal prospective areas with characteristics of skarn-type mineral zones merit further exploration by prospecting and geological mapping followed by resumption of drilling. From available data, including Map Place geological data, it is apparent that the most prominent mineral zone, Arsenault, is related to a favourable geological horizon, a limey \* that is offset by a north-south structure, possibly a fold or, less likely, by a fault the extension of which has not been determined. Similar geologic settings can be speculatively identified.

The gold-silver enriched area at the south of the grid has not been related in the field to any particular geologic factors and further investigations and MMI sampling are required to determine its dimensions and significance.

## **13.0 RECOMMENDATIONS**

The Arsenault copper-gold prospect, located in northern British Columbia, 72 km southeast of Teslin, Yukon, warrants further exploration to determine if it hosts a worthwhile mineral deposit. Historic property work has located and partly explored two apparently significant massive sulphide-type mineral zones, the Arsenault and the Arsenault East, and two lesser known prospects, the Ram and Crinkle Quartzite. The following recommendations are proposed, with discussion following:

(1) acquire complete MMI analytical data from all samples taken in summer 2008 and compile and analyse MMI and historic data

(2) conduct more complete property reconnaissance, including prospecting, detailed mapping in proximity to the principal mineral zones, including re-mapping and sampling the bulldozer trenches. MMI sample anomalies should be field checked and confirmed by conventional soil sampling methods, perhaps followed by geophysical surveys

(3) geophysical surveys per (2) above -five line-kilometres in each of two sites

(4) drill several short holes in the area close to historic drilling [cores may have been inadequately sampled and although stored on the property have deteriorated to the extent that the holes and footages cannot be identified]

(5) if faulted continuations of the mineral zone(s) can be determined by prospecting, mapping, geochemistry and geophysics, they should be tested by drilling

(6) the gold-silver anomalous area at the south of the grid should be further sampled to determine its dimensions, and possibly followed by geophysical survey work.

#### **14.0 STATEMENT OF EXPENDITURES**

The following expenditures were incurred in field work, data acquisition and analysis, and report preparation:

1. Geotronics Consulting Ltd. – invoice 08-40B:

9-man crew for ten days @ \$3,500/day:	\$35,000
7-man crew for four days @ \$2750/day:	\$11,000
helicopter and fuel:	\$23,515
courier costs for sample shipping:	\$ 946
GS	\$ 3,885

2. Geotronics Consulting Ltd. – invoice 08-40C:

Laboratory testing of 580 samples @ \$37/sample	\$21,460
GST	\$ 1,073

3. Supervision – (a) Peter Burjoski,

(Terracad Geoscience Services Ltd.) for ten days @ \$400/day \$ 4,000

(b) Erik Ostensoe, P. Geo.

Sept. 30 – October 2, 2008 - travel Vancouver to Whitehorse and return, property examination, followed by research, report preparation, including transportation by helicopter from Whitehorse to property

as invoiced	\$10,000
4. Camp purchases (\$950) and rentals (\$300) and consumables (plywood, etc.) (\$300)	\$ 1,550
5. Four wheel drive equipped vehicle – ten days @ \$100/day	\$ 1,000
6. Report preparation: data downloads, plotting data, text, allow	\$ 3,000
 Total expenditures applicable to Arsenault property	 <b>\$116,429</b>

## 15.0 REFERENCES

Christopher, P. A., (1990), Geological, Geochemical, Geophysical and Trenching Report on the Fidelity Prospect, Assessment Report submitted to Geological Survey Branch, Ministry of Energy, Mines and Petroleum Resources, ARIS #20137

Fingler, J., (2005), Summary Report on the Arsenault Property, Atlin M. D., British Columbia, private report to DeCoors Mining Corporation

Mihalnyuk, M. G., Nelson, J., and Friedman, R. M., (1998), Regional Geology and Mineralization of the Big Salmon Complex (104N NE and 1040 NW), in Geological Fieldwork 1997, B.C. Ministry of Employment and Investment, Paper 1998-1

Nelson, J., Harms, T., and Mortensen, J., (1998) Extensions and Affiliates of the Yukon-Tanana Terrane in Northern British Columbia, Geological Fieldwork, 1997, Geol. Surv. Branch, Ministry of Employment and Investment, Paper 1998-1

Phendler, R. W., 1982, Report on Assessment Work (Diamond Drilling) on the Arsenault #1, #2 and #3 Claims; Assessment Report submitted to Geological Survey Branch, Ministry of Energy, Mines and Petroleum Resources, ARIS #10411

Sawyer, J.B.P., (1979), Geological, Geochemical and Geophysical Report for Assessment Credit on the Top Claim Group, Assessment Report submitted to Geological Survey Branch, Ministry of Energy, Mines and Petroleum Resources, ARIS #1149

Traynor, Steve, (1999), Evaluation Report on the Arsenault Property (Win and Twin Claims), Swift River Area, British Columbia, Assessment Report submitted to Geological Survey Branch, Ministry of Energy, Mines and Petroleum Resources, ARIS #25,882

## 16.0 STATEMENT OF QUALIFICATIONS

The accompanying report, titled "Technical Report of Work, Arsenault Property, Atlin Mining Division, British Columbia, Canada" was prepared by Erik A. Ostensoe, P. Geo., a consulting geologist with office at 310-675 West Hastings Street, Vancouver, British Columbia, Canada, V6B 1N2. He has conducted mineral exploration in western Canada and elsewhere for more than forty years and is a member in good standing of the Association of Professional Engineers and Geoscientists of British Columbia, member no.18727, and of the Northwest Territories and Nunavut Association of Professional Engineers and Geoscientists, licensee L1943. The accompanying report was prepared from historic data, from data generated by a 2008 program of field work that included MMI sampling and magnetic surveys, and from analytical data that was plotted and processed using computer-aided methods. Satellite imagery was obtained from Map Place, Google Earth and other sources. The Statement of Expenditures is based on records maintained by Terracad Geoscience Services Ltd. and North Bluff Exploration Inc.

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Erik A. Ostensoe, P. Geo.

**Appendix**  
**MMI Data Sheets**







Line ID	G Easting	G Northing	U 1 PPB	W 1 PPB	Y 5 PPB	Yb 1 PPB	Zn 20 PPB	Zr 5 PPB
31500	31500	48000						
31500	31500	48025	9	<1	99	4	9.99	6
31500	31500	48050						
31500	31500	48075	24	<1	39	2	120	<5
31500	31500	48100						
31500	31500	48125	17	<1	132	6	530	59
31500	31500	48150						
31500	31500	48175	87	<1	56	2	440	6
31500	31500	48200						
31500	31500	48225	54	<1	413	17	220	14
31500	31500	48250						
31500	31500	48275	23	<1	143	7	110	14
31500	31500	48300						
31500	31500	48325	23	<1	100	4	1040	18
31500	31500	48350						
31500	31500	48375	38	<1	98	5	330	60
31500	31500	48400						
31500	31500	48425	390	<1	1050	36	220	41
31500	31500	48450						
31500	31500	48475	96	1	2550	76	190	59
31500	31500	48500						
31500	31500	48525	13	<1	97	4	110	109
31500	31500	48550						
31500	31500	48575	11	<1	143	6	210	87
31500	31500	48600						
31500	31500	48625	25	<1	72	4	130	104
31500	31500	48650						
31500	31500	48675	10	<1	111	5	120	26
31500	31500	48700						
31500	31500	47500	68	1	417	25	130	73
31500	31497	47525						
31500	31495	47550	45	<1	312	18	150	61
31500	31492	47575						
31500	31489	47600	49	<1	428	27	280	31
31500	31486	47625						
31500	31484	47650	78	2	2170	108	40	37
31500	31481	47675						
31500	31478	47700	96	1	1320	86	70	35
31500	31476	47725						
31500	31473	47750	169	2	3010	195	60	85
31500	31470	47775						
31500	31468	47800	174	1	1790	104	90	62
31500	31465	47825						
31500	31462	47850	107	<1	220	15	50	16
31500	31459	47875						
31500	31457	47900	8	<1	68	6	820	<5
31500	31454	47925						
31500	31451	47950	9	<1	91	8	40	17
31500	31449	47975						
31500	31446	48000						
31500	31443	48025						
31500	31440	48050						
31500	31438	48075						
31500	31435	48100						
31500	31432	48125						
31500	31430	48150						
31500	31427	48175						
31500	31424	48200						
31500	31421	48225						
31500	31419	48250						
31500	31416	48275						





Line ID	G Easting	G Northing	U 1 PPB	W 1 PPB	Y 5 PPB	Yb 1 PPB	Zn 20 PPB	Zr 5 PPB
31500	31413	48300						
31500	31411	48325						
31500	31408	48350						
31500	31405	48375						
31500	31403	48400						
31500	31400	48425						
31500	31397	48450						
31500	31394	48475						
31500	31392	48500						
31500	31389	48525	58	<1	477	24	1600	123
31500	31386	48550						
31500	31384	48575	13	<1	79	4	40	16
31500	31381	48600						
31500	31378	48625	7	<1	71	3	360	43
31500	31375	48650						
31500	31373	48675	8	<1	121	6	770	44
31500	31370	48700						
31600	31600	47200	22	<1	264	16	130	13
31600	31600	47225	35	<1	308	19	50	24
31600	31600	47250	92	3	1140	95	1610	77
31600	31600	47275	57	<1	342	22	180	14
31600	31600	47300	253	<1	810	52	90	17
31600	31600	47325	150	<1	438	28	40	25
31600	31600	47350	103	<1	505	39	260	9
31600	31600	47375	130	<1	791	52	90	6
31600	31600	47400	106	<1	355	24	620	11
31600	31600	47425	41	<1	417	36	160	6
31600	31600	47450	31	<1	140	14	210	43
31600	31600	47475	69	<1	436	31	50	9
31600	31600	47500	219	<1	587	39	80	9
31600	31600	47525	170	<1	233	16	210	6
31600	31600	47550	52	<1	129	13	9.99	12
31600	31600	47575	17	<1	235	15	200	14
31600	31600	47600	27	<1	282	19	140	13
31600	31600	47625	30	<1	106	11	350	31
31600	31600	47650	32	<1	260	25	250	18
31600	31600	47675	43	<1	252	19	220	62
31600	31600	47700						
31600	31600	47725	32	<1	162	8	240	35
31600	31600	47750						
31600	31600	47775	77	3	319	18	500	38
31600	31600	47800						
31600	31600	47825	20	<1	69	3	90	15
31600	31600	47850						
31600	31600	47875	39	<1	295	14	180	24
31600	31600	47900						
31600	31600	47925	30	<1	79	3	260	9
31600	31600	47950						
31600	31600	47975	35	<1	87	4	800	6
31600	31600	48000						
31600	31600	48025	42	<1	214	11	340	23
31600	31600	48050						
31600	31600	48075	34	<1	142	7	2460	12
31600	31600	48100						
31600	31600	48125	53	<1	185	9	790	48
31600	31600	48150						
31600	31600	48175	53	<1	197	10	330	11
31600	31600	48200						
31600	31600	48225	16	<1	175	11	310	49
31600	31600	48250						
31600	31600	48275	22	<1	234	14	470	38







Line ID	G Easting	G Northing	U 1 PPB	W 1 PPB	Y 5 PPB	Yb 1 PPB	Zn 20 PPB	Zr 5 PPB
31600	31600	48300						
31600	31600	48325	21	<1	167	10	540	39
31600	31600	48350						
31600	31600	48375	11	<1	65	5	310	40
31600	31600	48400						
31600	31600	48425	9	<1	79	8	940	33
31600	31600	48450						
31600	31600	48475	10	<1	110	8	70	19
31600	31600	48500						
31600	31600	48525						
31600	31600	48550						
31600	31600	48575						
31600	31600	48600						
31600	31600	48625						
31600	31600	48650						
31600	31600	48675						
31600	31600	48700						
31700	31700	47200						
31700	31700	47225	130	<1	573	40	520	63
31700	31700	47250						
31700	31700	47275						
31700	31700	47300	192	<1	222	18	100	32
31700	31700	47325						
31700	31700	47350	73	<1	253	18	350	37
31700	31700	47375						
31700	31700	47400	197	<1	423	25	120	19
31700	31700	47425						
31700	31700	47450	173	<1	333	21	120	41
31700	31700	47475						
31700	31700	47500	32	<1	47	3	50	9
31700	31700	47525						
31700	31700	47550	41	<1	88	7	240	31
31700	31700	47575						
31700	31700	47600	52	<1	164	12	180	59
31700	31700	47625						
31700	31700	47650	128	<1	909	50	440	36
31700	31700	47675						
31700	31700	47700						
31700	31700	47725	30	<1	102	10	90	10
31700	31700	47750						
31700	31700	47775	58	2	129	13	140	43
31700	31700	47800						
31700	31700	47825	59	<1	233	18	770	18
31700	31700	47850						
31700	31700	47875	95	2	705	49	1580	40
31700	31700	47900						
31700	31700	47925	69	1	306	22	610	34
31700	31700	47950						
31700	31700	47975	143	1	329	25	2620	17
31700	31700	48000						
31700	31700	48025	38	<1	162	10	710	7
31700	31700	48050						
31700	31700	48075	43	<1	70	5	270	<5
31700	31700	48100						
31700	31700	48125	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
31700	31700	48150	337	2	794	54	730	33
31700	31700	48175	143	2	456	36	280	25
31700	31700	48200						
31700	31700	48225	36	1	245	24	160	12
31700	31700	48250						
31700	31700	48275	71	3	432	43	130	84





Line ID	G Easting	G Northing	U 1 PPB	W 1 PPB	Y 5 PPB	Yb 1 PPB	Zn 20 PPB	Zr 5 PPB
31700	31700	48300						
31700	31700	48325	69	2	675	53	100	43
31700	31700	48350						
31700	31700	48375	19	<1	261	23	110	11
31700	31700	48400						
31700	31700	48425	24	<1	294	20	90	18
31700	31700	48450						
31700	31700	48475	15	1	80	9	280	33
31700	31700	48500						
31700	31700	48525	10	<1	95	9	80	25
31700	31700	48550						
31700	31700	48575	12	<1	98	9	80	33
31700	31700	48600						
31700	31700	48625	13	<1	143	12	190	18
31700	31700	48650						
31700	31700	48675	9	<1	93	10	70	16
31700	31700	48700						
31800	31800	47200	28	<1	25	1	9.99	<5
31800	31800	47225						
31800	31800	47250	818	1	60	3	40	12
31800	31800	47275						
31800	31800	47300	153	<1	190	10	30	8
31800	31800	47325						
31800	31800	47350	33	<1	82	7	310	18
31800	31800	47375						
31800	31800	47400	28	<1	47	3	210	21
31800	31800	47425						
31800	31800	47450	31	<1	58	6	70	10
31800	31800	47475						
31800	31800	47500	40	<1	156	9	70	46
31800	31800	47525						
31800	31800	47550	37	<1	290	15	100	59
31800	31800	47575						
31800	31800	47600	27	<1	41	4	40	24
31800	31800	47625						
31800	31800	47650	46	1	518	30	140	94
31800	31800	47675						
31800	31800	47700	28	<1	287	17	490	57
31800	31800	47725						
31800	31800	47750	95	<1	341	21	2930	45
31800	31800	47775						
31800	31800	47800	64	<1	121	7	160	18
31800	31800	47825						
31800	31800	47850	95	<1	211	12	810	17
31800	31800	47875						
31800	31800	47900	55	<1	176	11	400	39
31800	31800	47925						
31800	31800	47950	113	<1	429	20	2330	19
31800	31800	47975						
31800	31800	48000						
31800	31800	48025						
31800	31800	48050	241	<1	1650	94	1180	17
31800	31800	48075						
31800	31800	48100	52	<1	817	48	330	78
31800	31800	48125						
31800	31800	48150	37	<1	568	28	220	100
31800	31800	48175						
31800	31800	48200	58	<1	501	30	700	41
31800	31800	48225						
31800	31800	48250	54	<1	496	25	50	10
31800	31800	48275						





Line ID	G Easting	G Northing	U 1 PPB	W 1 PPB	Y 5 PPB	Yb 1 PPB	Zn 20 PPB	Zr 5 PPB
31800	31800	48300	52	<1	650	27	50	16
31800	31800	48325						
31800	31800	48350	80	<1	254	13	210	11
31800	31800	48375						
31800	31800	48400	10	<1	46	3	940	<5
31800	31800	48425						
31800	31800	48450	34	<1	146	9	140	8
31800	31800	48475						
31800	31800	48500	11	<1	56	4	120	<5
31800	31800	48525						
31800	31800	48550	31	<1	341	24	110	35
31800	31800	48575						
31800	31800	48600	8	<1	95	5	50	6
31800	31800	48625						
31800	31800	48650	18	<1	100	6	40	9
31800	31800	48675						
31800	31800	48700	10	<1	81	6	60	13
31900	31900	47200	105	<1	147	7	130	31
31900	31900	47225						
31900	31900	47250	43	<1	10	<1	860	<5
31900	31900	47275						
31900	31900	47300	260	<1	54	2	30	8
31900	31900	47325						
31900	31900	47350	16	<1	48	3	40	12
31900	31900	47375						
31900	31900	47400	34	1	364	21	250	67
31900	31900	47425						
31900	31900	47450	77	<1	628	35	450	83
31900	31900	47475						
31900	31900	47500	47	<1	108	9	400	37
31900	31900	47525						
31900	31900	47550	77	<1	381	25	310	121
31900	31900	47575						
31900	31900	47600	36	<1	319	15	70	35
31900	31900	47625						
31900	31900	47650	68	<1	162	11	180	33
31900	31900	47675						
31900	31900	47700	104	<1	553	35	90	24
31900	31900	47725	52	<1	179	12	570	16
31900	31900	47750	96	<1	379	22	700	17
31900	31900	47775	155	<1	543	38	4870	59
31900	31900	47800	76	<1	240	15	610	12
31900	31900	47825	91	<1	53	6	180	27
31900	31900	47850	104	<1	85	7	120	16
31900	31900	47875	145	<1	489	36	450	70
31900	31900	47900	147	<1	378	24	560	22
31900	31900	47925	87	<1	141	11	240	12
31900	31900	47950	249	<1	178	22	210	72
31900	31900	47975	64	<1	345	27	270	46
31900	31900	48000						
31900	31900	48025	112	2	2480	132	1090	23
31900	31900	48050	149	1	1560	83	590	55
31900	31900	48075	71	<1	1010	45	150	16
31900	31900	48100	127	<1	1220	56	930	16
31900	31900	48125	192	2	2360	117	540	41
31900	31900	48150	206	3	2220	131	470	141
31900	31900	48175	408	3	3900	213	1080	49
31900	31900	48200	70	<1	375	22	160	46
31900	31900	48225	30	<1	870	33	470	42
31900	31900	48250						
31900	31900	48275	18	<1	257	9	90	66







Line ID	G Easting	G Northing	U 1 PPB	W 1 PPB	Y 5 PPB	Yb 1 PPB	Zn 20 PPB	Zr 5 PPB
31900	31900	48300						
31900	31900	48325	21	<1	447	15	510	28
31900	31900	48350						
31900	31900	48375	20	<1	738	26	480	21
31900	31900	48400						
31900	31900	48425	11	<1	143	6	140	72
31900	31900	48450						
31900	31900	48475	12	<1	117	6	70	53
31900	31900	48500						
31900	31900	48525	14	<1	73	4	190	90
31900	31900	48550						
31900	31900	48575	14	<1	142	7	440	40
31900	31900	48600						
31900	31900	48625	5	<1	77	5	1180	22
31900	31900	48650						
31900	31900	48675	16	<1	187	10	1750	44
31900	31900	48700						
32000	32000	47200	330	<1	284	21	160	52
32000	32000	47225						
32000	32000	47250	30	<1	81	6	770	23
32000	32000	47275						
32000	32000	47300	48	<1	293	21	240	54
32000	32000	47325						
32000	32000	47350	22	<1	94	7	890	26
32000	32000	47375						
32000	32000	47400	91	2	503	38	220	174
32000	32000	47425						
32000	32000	47450	26	<1	87	7	290	16
32000	32000	47475						
32000	32000	47500	49	1	297	19	110	74
32000	32000	47525						
32000	32000	47550	83	<1	369	22	280	33
32000	32000	47575						
32000	32000	47600	42	<1	96	7	230	23
32000	32000	47625						
32000	32000	47650	129	<1	89	9	100	71
32000	32000	47675						
32000	32000	47700	109	<1	475	33	580	63
32000	32000	47725						
32000	32000	47750	130	<1	312	21	230	44
32000	32000	47775						
32000	32000	47800	176	2	1350	85	600	68
32000	32000	47825						
32000	32000	47850	128	1	1270	73	300	82
32000	32000	47875						
32000	32000	47900	94	1	1130	73	330	141
32000	32000	47925						
32000	32000	47950	100	1	658	44	260	111
32000	32000	47975						
32000	32000	48000						
32000	32000	48025	280	<1	368	37	9.99	26
32000	32000	48050						
32000	32000	48075	181	1	902	73	370	115
32000	32000	48100						
32000	32000	48125	131	1	1160	73	170	51
32000	32000	48150						
32000	32000	48175	56	2	751	62	220	87
32000	32000	48200						
32000	32000	48225	18	<1	303	23	100	43
32000	32000	48250						
32000	32000	48275	16	<1	98	8	190	35





Line ID	G Easting	G Northing	U 1 PPB	W 1 PPB	Y 5 PPB	Yb 1 PPB	Zn 20 PPB	Zr 5 PPB
32000	32000	48300						
32000	32000	48325	16	<1	108	10	40	54
32000	32000	48350						
32000	32000	48375	15	<1	81	7	120	53
32000	32000	48400						
32000	32000	48425	18	<1	112	9	430	89
32000	32000	48450						
32000	32000	48475	17	<1	299	19	260	31
32000	32000	48500						
32000	32000	48525	34	1	249	17	160	54
32000	32000	48550						
32000	32000	48575	80	<1	988	65	340	51
32000	32000	48600						
32000	32000	48625	21	<1	161	19	140	15
32000	32000	48650						
32000	32000	48675	34	<1	133	11	260	71
32000	32000	48700						
32000	32000	48725	7	<1	61	5	9.99	30
32000	32000	48750						
32000	32000	48775	19	<1	158	11	60	49
32100	32100	47200						
32100	32100	47225	49	<1	201	21	190	12
32100	32100	47250						
32100	32100	47275	29	<1	51	5	300	6
32100	32100	47300						
32100	32100	47325	116	1	417	36	70	29
32100	32100	47350						
32100	32100	47375	58	<1	97	10	90	23
32100	32100	47400						
32100	32100	47425	106	1	169	21	60	32
32100	32100	47450						
32100	32100	47475	41	<1	57	7	80	15
32100	32100	47500						
32100	32100	47525	114	<1	104	14	160	23
32100	32100	47550						
32100	32100	47575	59	1	149	16	120	38
32100	32100	47600						
32100	32100	47625	127	2	283	32	150	59
32100	32100	47650						
32100	32100	47675	245	1	140	22	100	38
32100	32100	47700						
32100	32100	47725	61	<1	68	7	70	7
32100	32100	47750						
32100	32100	47775	51	<1	56	6	160	8
32100	32100	47800						
32100	32100	47825	225	<1	228	25	330	22
32100	32100	47850						
32100	32100	47875	68	2	560	49	90	9
32100	32100	47900						
32100	32100	47925	64	1	161	24	50	19
32100	32100	47950						
32100	32100	47975	55	2	177	26	80	77
32100	32100	48000						
32100	32100	48025	77	<1	385	32	240	15
32100	32100	48050						
32100	32100	48075	78	<1	212	26	340	42
32100	32100	48100						
32100	32100	48125	76	<1	382	33	140	33
32100	32100	48150						
32100	32100	48175	68	<1	458	35	430	51
32100	32100	48200						





Line ID	G Easting	G Northing	U 1 PPB	W 1 PPB	Y 5 PPB	Yb 1 PPB	Zn 20 PPB	Zr 5 PPB
32100	32100	48225	16	<1	254	15	230	58
32100	32100	48250						
32100	32100	48275	38	<1	494	33	190	50
32100	32100	48300						
32100	32100	48325	27	<1	266	23	120	32
32100	32100	48350						
32100	32100	48375	49	<1	75	13	110	21
32100	32100	48400						
32100	32100	48425	43	<1	240	25	220	36
32100	32100	48450						
32100	32100	48475	26	<1	261	18	130	73
32100	32100	48500						
32100	32100	48525	115	<1	389	32	190	81
32100	32100	48550						
32100	32100	48575	88	<1	209	16	140	125
32100	32100	48600						
32100	32100	48625	91	<1	174	11	110	69
32100	32100	48650						
32100	32100	48675	7	<1	19	2	80	21
32100	32100	48700						
32200	32200	47200	44	1	177	15	100	48
32200	32200	47225	54	<1	332	20	230	15
32200	32200	47250	29	<1	256	13	200	14
32200	32200	47275	51	<1	145	13	2780	8
32200	32200	47300	76	<1	83	9	170	21
32200	32200	47325	344	<1	944	72	540	44
32200	32200	47350	68	<1	163	14	250	16
32200	32200	47375	51	<1	31	3	9.99	13
32200	32200	47400	106	<1	313	19	40	26
32200	32200	47425	77	<1	112	9	40	32
32200	32200	47450	54	<1	143	12	50	30
32200	32200	47475	52	<1	268	21	30	39
32200	32200	47500						
32200	32200	47525	116	<1	425	26	50	12
32200	32200	47550	232	<1	1100	84	720	71
32200	32200	47575	191	<1	387	31	120	35
32200	32200	47600	33	<1	100	8	560	10
32200	32200	47625	193	<1	503	39	1050	49
32200	32200	47650	183	<1	485	40	580	46
32200	32200	47675	216	<1	1330	109	1410	33
32200	32200	47700	236	<1	682	40	640	21
32200	32200	47725						
32200	32200	47750	484	<1	364	27	1510	37
32200	32200	47775						
32200	32200	47800	104	2	259	15	770	53
32200	32200	47825						
32200	32200	47850	54	<1	30	2	1840	<5
32200	32200	47875						
32200	32200	47900	239	2	315	21	200	56
32200	32200	47925						
32200	32200	47950	419	1	664	42	720	92
32200	32200	47975						
32200	32200	48000	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
32200	32200	48025						
32200	32200	48050	530	<1	177	9	840	<5
32200	32200	48075						
32200	32200	48100	2730	<1	601	39	330	10
32200	32200	48125						
32200	32200	48150	414	4	5140	357	820	43
32200	32200	48175						
32200	32200	48200	15	1	65	5	60	38







Line ID	G Easting	G Northing	U 1 PPB	W 1 PPB	Y 5 PPB	Yb 1 PPB	Zn 20 PPB	Zr 5 PPB
32200	32200	48225						
32200	32200	48250	13	<1	95	8	110	20
32200	32200	48275						
32200	32200	48300	29	3	145	12	520	57
32200	32200	48325						
32200	32200	48350	18	<1	62	4	50	24
32200	32200	48375						
32200	32200	48400	17	<1	83	6	430	7
32200	32200	48425						
32200	32200	48450	31	<1	157	9	610	<5
32200	32200	48475						
32200	32200	48500	73	1	810	50	340	70
32200	32200	48525						
32200	32200	48550	34	<1	184	17	150	25
32200	32200	48575						
32200	32200	48600	8	<1	69	6	60	28
32200	32200	48625						
32200	32200	48650	52	1	344	22	70	91
32200	32200	48675						
32200	32200	48700	17	<1	135	11	120	53
32300	32300	47200						
32300	32300	47225	117	1	289	25	140	42
32300	32300	47250						
32300	32300	47275	106	<1	170	15	130	17
32300	32300	47300						
32300	32300	47325	289	<1	412	35	290	21
32300	32300	47350						
32300	32300	47375	182	<1	261	21	260	9
32300	32300	47400						
32300	32300	47425	335	<1	215	23	90	77
32300	32300	47450						
32300	32300	47475	98	1	673	52	220	51
32300	32300	47500						
32300	32300	47525	16	<1	27	3	110	6
32300	32300	47550						
32300	32300	47575	114	1	245	23	210	93
32300	32300	47600						
32300	32300	47625	150	1	425	44	160	153
32300	32300	47650						
32300	32300	47675	121	3	857	79	590	114
32300	32300	47700	85	2	447	25	560	73
32300	32300	47725						
32300	32300	47750	61	<1	294	14	790	35
32300	32300	47775						
32300	32300	47800	36	<1	130	7	340	5
32300	32300	47825						
32300	32300	47850	240	<1	335	15	2240	18
32300	32300	47875						
32300	32300	47900	49	<1	39	2	1410	9
32300	32300	47925						
32300	32300	47950	182	<1	239	11	5340	9
32300	32300	47975						
32300	32300	48000						
32300	32300	48025	134	<1	606	24	2400	14
32300	32300	48050						
32300	32300	48075	46	<1	162	5	850	<5
32300	32300	48100						
32300	32300	48125	34	<1	407	17	220	6
32300	32300	48150						
32300	32300	48175	72	<1	323	12	1070	7
32300	32300	48200						





Line ID	G Easting	G Northing	U 1 PPB	W 1 PPB	Y 5 PPB	Yb 1 PPB	Zn 20 PPB	Zr 5 PPB
32300	32300	48225	40	<1	109	6	120	5
32300	32300	48250						
32300	32300	48275	439	1	1290	51	120	14
32300	32300	48300						
32300	32300	48325	34	<1	283	15	820	15
32300	32300	48350						
32300	32300	48375	32	<1	370	22	100	43
32300	32300	48400						
32300	32300	48425	51	<1	243	15	9.99	42
32300	32300	48450						
32300	32300	48475	32	<1	131	9	40	11
32300	32300	48500						
32300	32300	48525	31	<1	123	9	320	24
32300	32300	48550						
32300	32300	48575	34	<1	107	9	120	25
32300	32300	48600						
32300	32300	48625	23	<1	116	9	80	64
32300	32300	48650						
32300	32300	48675	42	2	160	13	9.99	85
32300	32300	48700						
32400	32400	47200						
32400	32400	47225	87	1	378	23	400	81
32400	32400	47250						
32400	32400	47275	180	<1	171	13	390	23
32400	32400	47300						
32400	32400	47325	238	<1	228	18	320	109
32400	32400	47350						
32400	32400	47375						
32400	32400	47400	138	<1	404	25	200	49
32400	32400	47425						
32400	32400	47450	41	<1	33	3	360	6
32400	32400	47475						
32400	32400	47500	72	<1	21	2	220	15
32400	32400	47525						
32400	32400	47550	134	<1	182	12	60	32
32400	32400	47575						
32400	32400	47600	67	<1	117	8	340	15
32400	32400	47625						
32400	32400	47650						
32400	32400	47675	291	<1	667	46	290	97
32400	32400	47700						
32400	32400	47725	94	<1	91	7	140	21
32400	32400	47750						
32400	32400	47775	45	<1	433	24	70	19
32400	32400	47800	123	2	1870	118	170	93
32400	32400	47825						
32400	32400	47850	115	2	1180	69	210	93
32400	32400	47875						
32400	32400	47900	67	<1	80	8	1460	<5
32400	32400	47925						
32400	32400	47950	61	<1	157	10	2400	<5
32400	32400	47975						
32400	32400	48000						
32400	32400	48025	134	<1	131	9	80	20
32400	32400	48050						
32400	32400	48075	12	<1	91	6	140	56
32400	32400	48100						
32400	32400	48125	48	<1	233	11	3370	14
32400	32400	48150						
32400	32400	48175	53	<1	358	14	1340	<5
32400	32400	48200						







Line ID	G Easting	G Northing	U 1 PPB	W 1 PPB	Y 5 PPB	Yb 1 PPB	Zn 20 PPB	Zr 5 PPB
32400	32400	48225	13	<1	131	6	90	6
32400	32400	48250						
32400	32400	48275	36	<1	539	21	1450	<5
32400	32400	48300	23	<1	247	18	1480	<5
32400	32400	48325						
32400	32400	48350	12	<1	76	3	1880	<5
32400	32400	48375						
32400	32400	48400	46	<1	321	20	470	8
32400	32400	48425						
32400	32400	48450	41	<1	174	12	600	10
32400	32400	48475						
32400	32400	48500	53	<1	374	23	150	23
32400	32400	48525						
32400	32400	48550	11	<1	97	5	20	6
32400	32400	48575						
32400	32400	48600	13	<1	118	8	1910	37
32400	32400	48625						
32400	32400	48650	259	<1	146	12	9.99	<5
32400	32400	48675						
32400	32400	48700	105	1	1030	72	60	87
32500	32500	47200	430	<1	105	8	320	16
32500	32500	47225						
32500	32500	47250	77	<1	469	34	530	71
32500	32500	47275						
32500	32500	47300	59	2	1060	65	340	46
32500	32500	47325						
32500	32500	47350	98	1	493	36	350	154
32500	32500	47375						
32500	32500	47400	91	<1	61	7	190	35
32500	32500	47425						
32500	32500	47450	111	<1	878	58	460	65
32500	32500	47475						
32500	32500	47500	97	<1	179	14	380	126
32500	32500	47525						
32500	32500	47550	198	<1	645	48	150	121
32500	32500	47575						
32500	32500	47600	156	2	706	59	190	234
32500	32500	47625						
32500	32500	47650	148	<1	263	21	190	133
32500	32500	47675						
32500	32500	47700	31	<1	100	5	210	40
32500	32500	47725						
32500	32500	47750	153	<1	520	27	340	41
32500	32500	47775						
32500	32500	47800	73	<1	220	12	290	23
32500	32500	47825						
32500	32500	47850	152	<1	86	4	180	6
32500	32500	47875						
32500	32500	47900	50	<1	18	1	9.99	<5
32500	32500	47925						
32500	32500	47950	186	<1	103	6	320	7
32500	32500	47975						
32500	32500	48000						
32500	32500	48025	63	<1	458	24	140	25
32500	32500	48050						
32500	32500	48075	13	<1	58	3	130	10
32500	32500	48100						
32500	32500	48125	15	<1	37	2	140	<5
32500	32500	48150						
32500	32500	48175	18	<1	185	7	260	<5
32500	32500	48200						





Line ID	G Easting	G Northing	U 1 PPB	W 1 PPB	Y 5 PPB	Yb 1 PPB	Zn 20 PPB	Zr 5 PPB
32500	32500	48225	19	<1	83	4	130	5
32500	32500	48250						
32500	32500	48275	25	<1	90	4	200	<5
32500	32500	48300						
32500	32500	48325	13	<1	105	5	80	<5
32500	32500	48350						
32500	32500	48375	35	<1	291	13	9.99	6
32500	32500	48400						
32500	32500	48425	20	<1	79	4	230	<5
32500	32500	48450						
32500	32500	48475	45	<1	327	15	110	17
32500	32500	48500						
32500	32500	48525	64	<1	563	25	110	13
32500	32500	48550						
32500	32500	48575	37	2	421	18	50	32
32500	32500	48600						
32500	32500	48625	26	<1	257	15	100	11
32500	32500	48650						
32500	32500	48675	42	<1	75	5	40	<5
32500	32500	48700						
32600	32600	47200						
32600	32600	47225	86	<1	570	47	370	78
32600	32600	47250						
32600	32600	47275	89	<1	362	22	310	37
32600	32600	47300						
32600	32600	47325	7	<1	74	7	440	<5
32600	32600	47350						
32600	32600	47375	132	<1	897	49	350	68
32600	32600	47400						
32600	32600	47425	113	3	612	39	670	197
32600	32600	47450						
32600	32600	47475	77	3	1240	66	380	121
32600	32600	47500						
32600	32600	47525	81	2	818	48	370	229
32600	32600	47550						
32600	32600	47575	199	4	1120	96	380	423
32600	32600	47600						
32600	32600	47625	49	<1	495	36	390	109
32600	32600	47650						
32600	32600	47675	61	1	267	19	250	178
32600	32600	47700						
32600	32600	47725	127	1	1650	105	290	97
32600	32600	47750						
32600	32600	47775	55	1	1040	67	290	107
32600	32600	47800						
32600	32600	47825	22	<1	307	22	30	38
32600	32600	47850						
32600	32600	47875	30	<1	182	14	460	70
32600	32600	47900						
32600	32600	47925	24	<1	116	9	580	14
32600	32600	47950						
32600	32600	47975	35	<1	684	44	80	12
32600	32600	48000						
32600	32600	48025						
32600	32600	48050	16	<1	53	5	340	<5
32600	32600	48075						
32600	32600	48100	27	<1	7	<1	1220	<5
32600	32600	48125						
32600	32600	48150	52	<1	20	2	120	<5
32600	32600	48175						
32600	32600	48200	57	<1	192	10	120	5





Line ID	G Easting	G Northing	U 1 PPB	W 1 PPB	Y 5 PPB	Yb 1 PPB	Zn 20 PPB	Zr 5 PPB
32600	32600	48225						
32600	32600	48250	24	<1	96	7	70	9
32600	32600	48275						
32600	32600	48300	71	<1	121	10	960	<5
32600	32600	48325						
32600	32600	48350	61	<1	101	9	90	<5
32600	32600	48375						
32600	32600	48400	18	<1	61	4	220	<5
32600	32600	48425						
32600	32600	48450	48	<1	68	7	440	<5
32600	32600	48475						
32600	32600	48500	26	<1	138	8	260	<5
32600	32600	48525						
32600	32600	48550	74	<1	605	30	70	10
32600	32600	48575						
32600	32600	48600	10	<1	82	6	210	22
32600	32600	48625						
32600	32600	48650	21	<1	191	13	60	33
32600	32600	48675						
32600	32600	48700	14	<1	245	18	210	22
32700	32700	47200						
32700	32700	47225	37	2	535	42	1780	115
32700	32700	47250						
32700	32700	47275	97	1	710	53	1250	158
32700	32700	47300						
32700	32700	47325	53	1	411	29	990	77
32700	32700	47350						
32700	32700	47375	6	<1	50	3	1580	6
32700	32700	47400						
32700	32700	47425						
32700	32700	47450	57	<1	395	28	630	13
32700	32700	47475						
32700	32700	47500	81	<1	946	57	620	59
32700	32700	47525						
32700	32700	47550	49	<1	214	21	670	14
32700	32700	47575						
32700	32700	47600						
32700	32700	47625	78	<1	917	64	250	87
32700	32700	47650						
32700	32700	47675	27	<1	279	19	150	89
32700	32700	47700						
32700	32700	47725	38	1	506	32	240	150
32700	32700	47750						
32700	32700	47775	17	2	256	17	50	99
32700	32700	47800						
32700	32700	47825	14	<1	148	9	40	55
32700	32700	47850						
32700	32700	47875	18	<1	132	9	80	50
32700	32700	47900						
32700	32700	47925	14	<1	96	7	1600	21
32700	32700	47950						
32700	32700	47975	11	<1	101	7	50	64
32700	32700	48000						
32700	32700	48025						
32700	32700	48050	23	<1	149	12	290	32
32700	32700	48075						
32700	32700	48100						
32700	32700	48125	228	<1	332	20	220	24
32700	32700	48150						
32700	32700	48175	16	<1	70	8	750	40
32700	32700	48200	19	<1	148	10	1940	29





Line ID	G Easting	G Northing	Mg 1 PPM	Mo 5 PPB	Nb 0.5 PPB	Nd 1 PPB	Ni 5 PPB	Pb 10 PPB	Pd 1 PPB	Pr 1 PPB	Pt 1 PPB	Rb 5 PPB	Sb 1 PPB	Sc 5 PPB	Sm 1 PPB	Sn 1 PPB	Sr 10 PPB	Ta 1 PPB	Tb 1 PPB	Te 10 PPB	Th 0.5 PPB	Ti 3 PPB	Tl 0.5 PPB
32700	32700	48225	18	2.49	0.7	627	211	120	<1	131	<1	124	<1	32	133	<1	590	<1	17	<10	35.9	219	0.8
32700	32700	48250	5	2.49	1.1	883	167	50	<1	181	<1	105	<1	39	194	<1	300	<1	26	<10	28.2	344	0.5
32700	32700	48275	16	2.49	1.2	1130	132	90	<1	261	<1	125	<1	58	233	<1	290	<1	29	<10	62.3	389	0.7
32700	32700	48300	17	2.49	0.6	305	276	250	<1	57	<1	85	<1	47	79	<1	600	<1	13	<10	38.7	214	<0.5
32700	32700	48325	18	2.49	<0.5	475	133	100	<1	97	<1	139	<1	16	106	<1	590	<1	13	<10	20.8	142	0.6
32700	32700	48350	6	2.49	1.3	242	315	260	<1	47	<1	183	<1	27	60	<1	140	<1	10	<10	37.9	372	0.9
32700	32700	48375	13	2.49	1.3	135	261	160	<1	26	<1	143	<1	29	36	<1	230	<1	6	<10	27.8	442	<0.5
32700	32700	48400	11	2.49	2.4	105	224	270	<1	22	<1	72	<1	33	27	<1	110	<1	5	<10	39.7	817	0.6
32700	32700	48425	12	2.49	<0.5	447	387	170	<1	84	<1	115	<1	35	118	<1	1040	<1	24	<10	17.5	70	<0.5
32700	32700	48450	17	2.49	<0.5	392	354	100	<1	74	<1	110	<1	11	102	<1	970	<1	15	<10	6.6	60	<0.5
32700	32700	48475	11	2.49	1.1	400	309	580	<1	78	<1	51	<1	41	101	<1	350	<1	17	<10	55.2	404	<0.5
32700	32700	48500	5	2.49	3	899	256	320	<1	217	<1	171	<1	66	182	<1	160	<1	23	<10	105	1120	1.3
32700	32700	48525	13	2.49	<0.5	72	267	70	<1	13	<1	10	<1	<5	20	<1	1660	<1	3	<10	1.6	20	<0.5
32700	32700	48550	7	2.49	1.9	347	304	150	<1	73	<1	90	<1	8	72	<1	600	<1	9	<10	20.2	447	<0.5
32700	32700	48575	11	2.49	<0.5	110	600	30	<1	20	<1	90	<1	<5	29	<1	1460	<1	4	<10	5.7	52	<0.5
32700	32700	48600	6	2.49	2.8	390	307	330	<1	82	<1	168	<1	38	84	<1	160	<1	11	<10	71.6	972	0.5
32700	32700	48625	2	2.49	1.7	839	240	2430	<1	166	<1	106	<1	96	194	<1	30	<1	27	<10	127	937	<0.5
32700	32700	48650	2	2.49	2	293	145	370	<1	55	<1	87	<1	40	74	<1	60	<1	13	<10	41	733	1
32700	32700	48675	<1	2.49	2	56	143	230	<1	12	<1	143	<1	20	14	<1	20	<1	3	<10	42.5	526	0.8
32700	32700	48700	4	2.49	3.3	154	150	170	<1	31	<1	124	<1	32	36	<1	110	<1	6	<10	48.5	1080	0.8
32800	32800	46700	7	2.49	0.6	186	215	90	<1	40	<1	42	<1	16	48	<1	550	<1	10	<10	13	52	<0.5
32800	32800	46725																					
32800	32800	46750	<1	7	8.5	49	51	240	<1	12	<1	120	<1	25	12	<1	40	<1	2	<10	29.6	2130	<0.5
32800	32800	46775																					
32800	32800	46800	1	2.49	0.8	12	56	70	<1	2	<1	59	<1	21	5	<1	120	<1	5	<10	10.2	126	<0.5
32800	32800	46825																					
32800	32800	46850	2	7	2.8	71	72	220	<1	13	<1	61	<1	33	21	<1	120	<1	5	<10	46.2	624	<0.5
32800	32800	46875																					
32800	32800	46900	3	18	10.4	61	79	120	<1	15	<1	102	<1	37	12	1	80	<1	2	<10	22.6	3220	<0.5
32800	32800	46925																					
32800	32800	46950	3	10	9.5	336	107	140	<1	78	<1	200	<1	33	74	<1	140	<1	12	<10	85.1	1280	1.1
32800	32800	46975																					
32800	32800	47000	16	25	1.7	651	284	80	<1	153	<1	64	<1	33	134	<1	570	<1	20	<10	75.7	472	<0.5
32800	32800	47025																					
32800	32800	47050	30	41	<0.5	114	122	20	<1	20	<1	32	<1	13	29	<1	1080	<1	5	<10	10.5	<3	<0.5
32800	32800	47075																					
32800	32800	47100	27	19	0.7	572	512	40	<1	125	<1	70	<1	27	124	<1	670	<1	19	<10	41.7	158	<0.5
32800	32800	47125																					
32800	32800	47150	7	40	1.5	172	42	30	<1	39	<1	97	<1	17	37	<1	530	<1	6	<10	32.9	324	0.7
32800	32800	47175																					
32800	32800	47200																					
32800	32800	47225	12	24	<0.5	401	248	30	<1	98	<1	91	<1	98	107	<1	430	<1	23	<10	48.1	71	<0.5
32800	32800	47250																					
32800	32800	47275	14	76	3.2	777	393	40	<1	201	<1	115	1	77	154	<1	290	<1	23	<10	105	1140	<0.5
32800	32800	47300																					
32800	32800	47325	10	7	<0.5	38	65	50	<1	10	<1	84	<1	32	10	<1	450	<1	3	<10	41	59	<0.5
32800	32800	47350																					
32800	32800	47375	10	14	0.9	112	84	<10	<1	29	<1	74	<1	47	31	<1	410	<1	7	<10	26.8	96	1.8
32800	32800	47400																					
32800	32800	47425	7	7	1	52	141	<10	<1	13	<1	54	<1	13	14	<1	500	<1	3	<10	12.9	147	<0.5
32800	32800	47450																					
32800	32800	47475	91	5	<0.5	438	502	20	<1	99	<1	25	<1	18	103	<1	1410	<1	17	<10	38.3	14	<0.5
32800	32800	47500																					
32800	32800	47525	37	38	<0.5	702	380	<10	<1	173	<1	42	<1	109	152	<1	950	<1	25	<10	39.9	14	<0.5
32800	32800	47550																					
32800	32800	47575	6	7	3.3	225	133	160	<1	59	<1	156	<1	39	52	<1	220	<1	9	<10	65.8	766	0.8
32800	32800	47600																					
32800	32800	47625	3	9	3.6	79	141	200	<1	22	<1	165	<1	31	19	<1	80	<1	4	<10	105	865	0.8
32800	32800	47650																					
32800	32800	47675	3	2.49	4.3	48	71	300	<1	13	<1	113	<1	22	12	<1	60	<1	3	<10	55	965	0.7
32800	32800	47700	3	10	2.8	78	119	140	<1	17	<1	185	<1	31	19	<1	70	<1	3	<10	40.5	820	0.8

Line ID	G Easting	G Northing	U 1 PPB	W 1 PPB	Y 5 PPB	Yb 1 PPB	Zn 20 PPB	Zr 5 PPB
32700	32700	48225	29	<1	372	23	110	36
32700	32700	48250	63	<1	633	34	50	30
32700	32700	48275	47	<1	672	41	50	69
32700	32700	48300	24	<1	403	26	40	11
32700	32700	48325	19	<1	318	18	20	17
32700	32700	48350	13	<1	226	15	50	31
32700	32700	48375	11	<1	142	10	190	23
32700	32700	48400	16	<1	116	10	1560	38
32700	32700	48425	60	<1	1030	50	110	14
32700	32700	48450	67	<1	500	25	420	10
32700	32700	48475	32	<1	440	25	810	25
32700	32700	48500	36	<1	470	27	180	81
32700	32700	48525	20	<1	104	6	210	<5
32700	32700	48550	21	<1	192	12	560	22
32700	32700	48575	42	<1	84	4	200	<5
32700	32700	48600	22	<1	272	18	460	56
32700	32700	48625	66	1	603	43	170	48
32700	32700	48650	17	<1	355	23	90	24
32700	32700	48675	12	<1	90	7	40	21
32700	32700	48700	12	<1	157	10	300	46
32800	32800	46700	44	<1	325	19	250	17
32800	32800	46725						
32800	32800	46750	8	<1	56	5	220	44
32800	32800	46775						
32800	32800	46800	20	<1	259	29	190	12
32800	32800	46825						
32800	32800	46850	18	<1	161	13	480	35
32800	32800	46875						
32800	32800	46900	9	<1	53	4	220	48
32800	32800	46925						
32800	32800	46950	66	<1	209	11	380	110
32800	32800	46975						
32800	32800	47000	89	<1	502	34	440	60
32800	32800	47025						
32800	32800	47050	48	<1	147	8	510	9
32800	32800	47075						
32800	32800	47100	102	<1	501	35	420	36
32800	32800	47125						
32800	32800	47150	44	<1	130	9	40	42
32800	32800	47175						
32800	32800	47200						
32800	32800	47225	157	<1	694	49	470	28
32800	32800	47250						
32800	32800	47275	49	2	554	39	770	93
32800	32800	47300						
32800	32800	47325	104	<1	105	13	140	12
32800	32800	47350						
32800	32800	47375	51	<1	236	17	270	29
32800	32800	47400						
32800	32800	47425	35	<1	115	10	570	22
32800	32800	47450						
32800	32800	47475	23	<1	464	25	130	19
32800	32800	47500						
32800	32800	47525	92	<1	899	73	390	40
32800	32800	47550						
32800	32800	47575	33	<1	210	15	1370	63
32800	32800	47600						
32800	32800	47625	19	<1	73	7	130	51
32800	32800	47650						
32800	32800	47675	12	<1	82	8	660	51
32800	32800	47700	9	<1	94	7	260	50





Line ID	G Easting	G Northing	U 1 PPB	W 1 PPB	Y 5 PPB	Yb 1 PPB	Zn 20 PPB	Zr 5 PPB
32800	32800	47725						
32800	32800	47750	11	<1	161	11	40	33
32800	32800	47775						
32800	32800	47800	10	<1	32	3	80	30
32800	32800	47825						
32800	32800	47850	13	<1	116	8	70	36
32800	32800	47875						
32800	32800	47900	12	<1	116	8	60	42
32800	32800	47925						
32800	32800	47950	12	<1	118	9	130	37
32800	32800	47975						
32800	32800	48000						
32800	32800	48025	44	<1	325	33	880	14
32800	32800	48050						
32800	32800	48075	173	<1	351	21	330	10
32800	32800	48100						
32800	32800	48125						
32800	32800	48150	33	<1	665	46	280	27
32800	32800	48175	9	<1	75	7	100	24
32800	32800	48200						
32800	32800	48225	24	<1	206	22	100	25
32800	32800	48250						
32800	32800	48275	20	<1	124	16	690	18
32800	32800	48300						
32800	32800	48325	22	<1	119	12	450	21
32800	32800	48350						
32800	32800	48375	7	<1	97	15	220	13
32800	32800	48400						
32800	32800	48425	36	1	372	35	230	25
32800	32800	48450						
32800	32800	48475						
32800	32800	48500	11	<1	168	15	30	17
32800	32800	48525						
32800	32800	48550	12	<1	89	9	60	18
32800	32800	48575						
32800	32800	48600	64	<1	156	13	50	<5
32800	32800	48625						
32800	32800	48650	18	<1	69	9	40	<5
32800	32800	48675						
32800	32800	48700	16	<1	144	12	40	28
32900	32900	47200						
32900	32900	47225	39	1	1120	63	130	119
32900	32900	47250						
32900	32900	47275	68	<1	398	24	140	52
32900	32900	47300						
32900	32900	47325	15	<1	76	5	360	40
32900	32900	47350						
32900	32900	47375	7	<1	73	6	1180	21
32900	32900	47400						
32900	32900	47425	17	<1	46	7	30	9
32900	32900	47450						
32900	32900	47475	20	<1	141	10	880	45
32900	32900	47500						
32900	32900	47525	161	1	1080	53	130	48
32900	32900	47550						
32900	32900	47575	10	<1	47	3	60	37
32900	32900	47600						
32900	32900	47625	13	<1	111	7	450	47
32900	32900	47650						
32900	32900	47675	9	<1	122	7	110	38
32900	32900	47700						

Line ID	G Easting	G Northing	Easting	Northing	Ag 1 PPB	Al 1 PPM	As 10 PPB	Au 0.1 PPB	Ba 10 PPB	Bi 1 PPB	Ca 10 PPM	Cd 1 PPB	Ce 5 PPB	Co 5 PPB	Cr 100 PPB	Cu 10 PPB	Dy 1 PPB	Er 0.5 PPB	Eu 0.5 PPB	Fe 1 PPM	Gd 1 PPB	La 1 PPB	Li 5 PPB	
32900	32900	47725	347725	6632900																				
32900	32900	47750	347750	6632900	4	245	<10	0.049	750	<1	10	21	41	104	<100	1710	14	8.5	1.9	96	9	17	<5	
32900	32900	47775	347775	6632900																				
32900	32900	47800	347800	6632900	87	127	<10	7.3	320	1	130	8	289	101	<100	21400	25	12.3	7.7	60	37	132	<5	
32900	32900	47825	347825	6632900																				
32900	32900	47850	347850	6632900	12	171	70	0.8	1200	<1	30	8	610	150	100	6420	30	12.7	9.7	54	45	183	<5	
32900	32900	47875	347875	6632900																				
32900	32900	47900	347900	6632900	5	298	20	0.6	400	<1	<10	1	201	12	100	1060	19	8.5	5	36	24	84	<5	
32900	32900	47925	347925	6632900																				
32900	32900	47950	347950	6632900	32	68	<10	5.9	2000	<1	420	1	109	10	<100	16900	20	10	5.9	14	29	74	<5	
32900	32900	47975	347975	6632900																				
32900	32900	48000	348000	6632900																				
32900	32900	48025	348025	6632900	15	93	10	0.5	1180	<1	240	4	260	35	<100	3960	30	13.3	8.6	30	44	131	<5	
32900	32900	48050	348050	6632900																				
32900	32900	48075	348075	6632900	3	157	20	0.049	1230	<1	200	4	718	68	<100	1250	111	53.4	26	66	134	238	<5	
32900	32900	48100	348100	6632900																				
32900	32900	48125	348125	6632900	2	79	<10	0.049	450	<1	540	43	104	62	<100	860	23	11.8	5.3	11	29	35	<5	
32900	32900	48150	348150	6632900																				
32900	32900	48175	348175	6632900	21	128	<10	0.2	890	<1	440	10	167	13	<100	1020	82	39.1	19.1	20	109	178	<5	
32900	32900	48200	348200	6632900	18	73	<10	0.1	2670	<1	800	6	139	11	<100	520	24	10	6.7	24	38	73	<5	
32900	32900	48225	348225	6632900	13	101	<10	0.2	2120	<1	690	6	315	8	<100	960	53	22.1	14.7	27	86	151	<5	
32900	32900	48250	348250	6632900	18	83	<10	0.2	1960	<1	620	5	422	15	<100	1620	65	26.7	20.8	23	117	200	<5	
32900	32900	48275	348275	6632900																				
32900	32900	48300	348300	6632900																				
32900	32900	48325	348325	6632900																				
32900	32900	48350	348350	6632900	30	76	<10	0.2	1800	<1	750	10	77	16	<100	1100	26	10.7	7.6	13	48	64	<5	
32900	32900	48375	348375	6632900	24	94	<10	0.4	2470	<1	800	24	96	33	<100	1860	50	23.9	12.3	11	79	105	<5	
32900	32900	48400	348400	6632900																				
32900	32900	48425	348425	6632900	20	79	<10	0.4	2880	<1	590	14	114	16	<100	1960	51	22.2	15	14	89	169	<5	
32900	32900	48450	348450	6632900	19	90	<10	0.4	4160	<1	500	13	585	277	<100	4900	79	35.3	25.3	34	144	433	<5	
32900	32900	48475	348475	6632900	65	64	<10	0.9	3040	<1	810	20	76	21	<100	3270	82	34.9	28.1	12	168	320	<5	
32900	32900	48500	348500	6632900	17	157	<10	0.5	1980	<1	510	12	402	92	<100	4330	130	72.4	25.9	27	159	297	<5	
32900	32900	48525	348525	6632900	34	103	<10	0.8	5580	<1	610	6	177	10	<100	2250	85	40.7	22.8	14	134	214	<5	
32900	32900	48550	348550	6632900	16	202	20	0.8	2480	<1	320	10	709	405	100	3390	98	46.1	26.2	72	149	424	<5	
32900	32900	48575	348575	6632900	35	39	60	1.5	950	<1	520	13	70	44	<100	5560	22	9.7	7.1	11	41	58	<5	
32900	32900	48600	348600	6632900	61	25	<10	1.4	700	<1	700	4	52	22	<100	3860	31	12.7	10.2	11	60	88	<5	
32900	32900	48625	348625	6632900	62	14	<10	2	370	<1	790	257	72	67	<100	10600	15	7.4	4.1	13	24	28	<5	
32900	32900	48650	348650	6632900	42	112	<10	0.6	750	<1	1410	11	358	14	100	1480	121	53.5	32.1	38	202	374	<5	
32900	32900	48675	348675	6632900	7	29	<10	0.2	450	<1	740	4	20	15	<100	260	7	3.3	1.6	11	10	9	<5	
32900	32900	48700	348700	6632900	23	235	20	0.7	470	1	100	2	1370	56	<100	580	86	34.8	21.5	54	121	534	<5	
33000	33000	47200	347200	6633000	17	160	50	0.7	2530	2	160	15	1330	518	100	28200	152	81.3	37.5	188	191	489	<5	
33000	33000	47225	347225	6633000																				
33000	33000	47250	347250	6633000	6	141	20	0.2	1270	2	120	13	340	112	100	1170	21	9.4	5.7	100	30	134	<5	
33000	33000	47275	347275	6633000																				
33000	33000	47300	347300	6633000	4	>300	20	0.049	730	2	30	13	169	100	100	450	19	9.5	4.4	131	21	72	<5	
33000	33000	47325	347325	6633000																				
33000	33000	47350	347350	6633000	26	196	<10	0.049	320	<1	40	49	20	112	<100	7750	41	30.4	1.1	50	9	9	<5	
33000	33000	47375	347375	6633000																				
33000	33000	47400	347400	6633000	37	253	<10	0.1	570	2	40	166	254	475	<100	10800	69	31	11.4	63	67	77	<5	
33000	33000	47425	347425	6633000																				
33000	33000	47450	347450	6633000	31	200	<10	0.049	640	<1	100	24	62	136	<100	10200	132	70.2	9.4	72	62	21	<5	
33000	33000	47475	347475	6633000																				
33000	33000	47500	347500	6633000	12	>300	20	0.049	640	<1	30	7	349	83	<100	4390	41	16.5	9.4	72	48	128	<5	
33000	33000	47525	347525	6633000																				
33000	33000	47550	347550	6633000	1	237	10	0.049	1840	<1	180	23	104	174	<100	350	31	20.1	4.7	115	24	36	<5	
33000	33000	47575	347575	6633000																				
33000	33000	47600	347600	6633000	9	>300	10	0.3	1220	3	30	17	489	22	<100	3900	51	22.3	12.8	34	66	181	<5	
33000	33000	47625	347625	6633000																				
33000	33000	47650	347650	6633000	6	>300	10	0.1	800	3	40	19	272	97	<100	1460	27	12.4	6.4	62	32	96	<5	
33000	33000	47675	347675	6633000																				
33000	33000	47700	347700	6633000	6	>300	<10	0.3	1120	<1	<10	9	111	384	<100	1320	29	13.4	3.9	72	21	50	<5	

Line ID	G Easting	G Northing	Mg 1 PPM	Mo 5 PPB	Nb 0.5 PPB	Nd 1 PPB	Ni 5 PPB	Pb 10 PPB	Pd 1 PPB	Pr 1 PPB	Pt 1 PPB	Rb 5 PPB	Sb 1 PPB	Sc 5 PPB	Sm 1 PPB	Sn 1 PPB	Sr 10 PPB	Ta 1 PPB	Tb 1 PPB	Te 10 PPB	Th 0.5 PPB	Ti 3 PPB	Tl 0.5 PPB	
32900	32900	47725																						
32900	32900	47750	3	2.49	1.9	24	106	170	<1	5	<1	80	<1	32	7	<1	40	<1	2	<10	19.5	519	<0.5	
32900	32900	47775																						
32900	32900	47800	9	2.49	3.4	172	127	80	<1	43	<1	53	<1	93	35	4	70	<1	5	<10	47.1	749	<0.5	
32900	32900	47825																						
32900	32900	47850	3	5	3.4	231	123	190	<1	58	<1	163	<1	46	49	<1	70	<1	7	<10	107	1100	<0.5	
32900	32900	47875																						
32900	32900	47900	<1	2.49	2.8	103	41	220	<1	25	<1	88	<1	44	23	<1	20	<1	4	<10	54.8	997	<0.5	
32900	32900	47925																						
32900	32900	47950	8	2.49	<0.5	119	51	30	<1	25	<1	68	<1	8	27	<1	680	<1	4	<10	21.6	35	0.5	
32900	32900	47975																						
32900	32900	48000																						
32900	32900	48025	5	6	0.8	199	119	140	<1	46	<1	160	<1	14	43	<1	380	<1	6	<10	31.7	211	0.7	
32900	32900	48050																						
32900	32900	48075	2	2.49	0.7	444	372	200	<1	95	<1	53	<1	55	117	<1	200	<1	20	<10	87.4	266	0.6	
32900	32900	48100																						
32900	32900	48125	22	9	<0.5	80	286	2230	<1	15	<1	46	<1	8	23	<1	600	<1	4	<10	4.3	20	<0.5	
32900	32900	48150																						
32900	32900	48175	11	2.49	<0.5	319	291	120	<1	66	<1	76	<1	26	84	<1	570	<1	15	<10	9.8	20	<0.5	
32900	32900	48200	34	2.49	<0.5	151	194	90	<1	28	<1	79	<1	<5	36	<1	1140	<1	5	<10	22.1	25	0.7	
32900	32900	48225	38	2.49	<0.5	314	445	50	<1	59	<1	70	<1	6	77	<1	920	<1	10	<10	10.7	19	<0.5	
32900	32900	48250	29	2.49	<0.5	450	343	50	<1	82	<1	87	<1	<5	107	<1	830	<1	13	<10	9.3	28	<0.5	
32900	32900	48275																						
32900	32900	48300																						
32900	32900	48325																						
32900	32900	48350	42	2.49	<0.5	168	189	40	<1	29	<1	82	<1	<5	44	<1	840	<1	5	<10	12.2	19	<0.5	
32900	32900	48375	33	2.49	<0.5	248	475	60	<1	44	<1	86	<1	6	68	<1	920	<1	9	<10	3.5	15	0.6	
32900	32900	48400																						
32900	32900	48425	42	2.49	<0.5	344	245	90	<1	64	<1	78	<1	7	82	<1	690	<1	10	<10	11.9	21	<0.5	
32900	32900	48450	27	5	<0.5	653	198	90	<1	136	<1	137	<1	13	135	<1	740	<1	17	<10	15	40	0.8	
32900	32900	48475	36	2.49	<0.5	684	268	40	<1	120	<1	60	<1	7	157	<1	1060	<1	17	<10	10.7	7	<0.5	
32900	32900	48500	21	2.49	<0.5	492	498	50	<1	94	<1	51	<1	46	127	<1	760	<1	21	<10	19	26	<0.5	
32900	32900	48525	20	2.49	<0.5	452	90	30	<1	82	<1	70	<1	14	116	<1	1090	<1	16	<10	12.5	18	0.6	
32900	32900	48550	18	2.49	1.1	632	239	230	<1	134	<1	209	<1	46	139	<1	500	<1	19	<10	44	367	1.4	
32900	32900	48575	7	2.49	<0.5	150	137	30	<1	24	<1	84	<1	9	37	<1	1470	<1	4	<10	15.4	39	<0.5	
32900	32900	48600	8	2.49	<0.5	221	255	20	<1	37	<1	51	<1	5	53	<1	2160	<1	6	<10	12.7	11	<0.5	
32900	32900	48625	10	8	<0.5	71	357	<10	<1	12	<1	38	<1	<5	19	<1	1820	<1	3	<10	5.5	7	<0.5	
32900	32900	48650	19	2.49	<0.5	758	851	60	<1	139	<1	27	<1	12	188	<1	2480	<1	23	<10	32.4	27	0.6	
32900	32900	48675	11	2.49	<0.5	24	346	20	<1	4	<1	26	<1	<5	7	<1	2620	<1	1	<10	3.4	13	<0.5	
32900	32900	48700	5	2.49	2.5	604	163	250	<1	141	<1	163	<1	52	123	<1	160	<1	16	<10	99.8	1270	0.5	
33000	33000	47200	15	73	4	778	1040	120	2	187	<1	96	2	157	176	<1	310	<1	27	<10	135	1030	1.2	
33000	33000	47225																						
33000	33000	47250	15	17	5.5	150	120	100	<1	38	<1	120	<1	35	30	<1	320	<1	4	<10	53.6	1270	<0.5	
33000	33000	47275																						
33000	33000	47300	3	14	11	91	86	280	<1	22	<1	138	<1	37	20	1	100	<1	3	<10	54.2	3530	0.6	
33000	33000	47325																						
33000	33000	47350	4	2.49	<0.5	16	53	80	<1	3	<1	21	<1	9	5	<1	200	<1	3	<10	9	46	<0.5	
33000	33000	47375																						
33000	33000	47400	6	13	2.2	209	147	140	<1	42	<1	95	<1	37	55	<1	200	<1	11	<10	24.8	452	0.7	
33000	33000	47425																						
33000	33000	47450	13	2.49	0.9	86	74	240	<1	13	<1	37	<1	29	35	<1	600	<1	16	<10	17	151	<0.5	
33000	33000	47475																						
33000	33000	47500	3	6	3.3	198	134	170	<1	46	<1	133	<1	34	46	<1	90	<1	7	<10	71.9	950	0.6	
33000	33000	47525																						
33000	33000	47550	8	2.49	2.1	69	132	370	<1	14	<1	88	<1	42	19	<1	780	<1	4	<10	60.1	544	<0.5	
33000	33000	47575																						
33000	33000	47600	1	12	2	282	36	100	<1	65	<1	113	<1	45	64	<1	60	<1	9	<10	53.6	498	1.1	
33000	33000	47625																						
33000	33000	47650	4	17	2.8	137	125	160	<1	33	<1	92	1	28	31	<1	110	<1	5	<10	43.7	863	0.7	
33000	33000	47675																						
33000	33000	47700	1	2.49	1	66	116	160	<1	16	<1	144	<1	28	17	<1	50	<1	4	<10	29.2	240	1.3	

Line ID	G Easting	G Northing	U 1 PPB	W 1 PPB	Y 5 PPB	Yb 1 PPB	Zn 20 PPB	Zr 5 PPB
32900	32900	47725						
32900	32900	47750	7	<1	72	7	130	31
32900	32900	47775						
32900	32900	47800	21	<1	117	9	320	83
32900	32900	47825						
32900	32900	47850	23	<1	111	9	470	82
32900	32900	47875						
32900	32900	47900	15	<1	84	6	9.99	58
32900	32900	47925						
32900	32900	47950	16	<1	100	7	9.99	13
32900	32900	47975						
32900	32900	48000						
32900	32900	48025	16	<1	141	9	80	29
32900	32900	48050						
32900	32900	48075	72	<1	543	35	50	48
32900	32900	48100						
32900	32900	48125	66	<1	126	8	460	8
32900	32900	48150						
32900	32900	48175	85	<1	467	26	40	21
32900	32900	48200	20	<1	93	6	120	10
32900	32900	48225	42	<1	264	15	120	10
32900	32900	48250	52	<1	325	18	40	10
32900	32900	48275						
32900	32900	48300						
32900	32900	48325						
32900	32900	48350	37	<1	102	7	150	<5
32900	32900	48375	75	<1	250	15	150	<5
32900	32900	48400						
32900	32900	48425	44	<1	239	14	670	12
32900	32900	48450	41	<1	442	27	210	32
32900	32900	48475	37	<1	427	21	490	9
32900	32900	48500	61	<1	752	47	420	22
32900	32900	48525	45	<1	445	24	80	23
32900	32900	48550	42	<1	432	30	160	65
32900	32900	48575	14	<1	111	6	180	14
32900	32900	48600	30	<1	164	8	9.99	6
32900	32900	48625	24	1	95	6	3630	<5
32900	32900	48650	88	2	577	32	110	6
32900	32900	48675	23	<1	37	2	50	<5
32900	32900	48700	35	1	340	26	80	48
33000	33000	47200	49	2	815	65	290	217
33000	33000	47225						
33000	33000	47250	12	<1	89	7	490	49
33000	33000	47275						
33000	33000	47300	11	<1	81	7	490	72
33000	33000	47325						
33000	33000	47350	13	<1	198	19	80	<5
33000	33000	47375						
33000	33000	47400	20	<1	302	18	130	31
33000	33000	47425						
33000	33000	47450	26	<1	653	37	20	9
33000	33000	47475						
33000	33000	47500	18	<1	156	10	120	60
33000	33000	47525						
33000	33000	47550	34	<1	160	14	620	25
33000	33000	47575						
33000	33000	47600	16	<1	209	15	70	77
33000	33000	47625						
33000	33000	47650	10	<1	116	8	200	58
33000	33000	47675						
33000	33000	47700	20	<1	89	8	160	36







Line ID	G Easting	G Northing	U 1 PPB	W 1 PPB	Y 5 PPB	Yb 1 PPB	Zn 20 PPB	Zr 5 PPB
33000	33000	47725						
33000	33000	47750	21	<1	292	14	1230	9
33000	33000	47775						
33000	33000	47800	39	<1	248	16	220	9
33000	33000	47825						
33000	33000	47850	12	<1	67	6	200	9
33000	33000	47875						
33000	33000	47900	13	<1	110	11	170	26
33000	33000	47925						
33000	33000	47950	16	<1	269	17	110	34
33000	33000	47975						
33000	33000	48000	8	<1	103	7	60	37
33000	33000	48025						
33000	33000	48050	56	<1	405	19	440	11
33000	33000	48075						
33000	33000	48100	9	<1	55	3	60	7
33000	33000	48125						
33000	33000	48150	36	<1	293	14	380	<5
33000	33000	48175						
33000	33000	48200	25	<1	80	5	170	9
33000	33000	48225	19	<1	96	7	390	46
33000	33000	48250	8	<1	28	2	440	<5
33000	33000	48275	18	<1	146	10	120	32
33000	33000	48300	19	<1	278	12	120	7
33000	33000	48325	50	<1	639	45	160	19
33000	33000	48350	18	<1	427	17	270	<5
33000	33000	48375	29	<1	121	10	390	9
33000	33000	48400	26	<1	241	16	260	45
33000	33000	48425	30	<1	62	5	90	7
33000	33000	48450						
33000	33000	48475						
33000	33000	48500	44	<1	192	15	1170	6
33000	33000	48525						
33000	33000	48550	40	<1	261	19	330	11
33000	33000	48575						
33000	33000	48600	44	<1	387	29	130	13
33000	33000	48625						
33000	33000	48650	45	<1	332	23	90	29
33000	33000	48675						
33000	33000	48700						
33000	33000	48725						
33000	33000	48750	17	<1	103	12	290	14
33000	33000	48775						
33000	33000	48800	22	<1	71	5	60	10
33000	33000	48825						
33000	33000	48850	260	<1	432	26	230	21
33000	33000	48875						
33000	33000	48900	47	<1	612	33	80	43
33000	33000	48925						
33000	33000	48950	38	<1	114	5	60	8
33000	33000	48975						
33000	33000	49000	15	<1	55	4	110	24
33000	33000	49025						
33000	33000	49050	117	<1	228	13	250	19
33000	33000	49075						
33000	33000	49100	140	<1	721	41	510	25
33000	33000	49125						
33000	33000	49150	76	<1	711	41	40	27
33000	33000	49175						
33000	33000	49200	9	<1	113	8	350	43
33000	33000	49225						

Line ID	G Easting	G Northing	Easting	Northing	Ag 1 PPB	Al 1 PPM	As 10 PPB	Au 0.1 PPB	Ba 10 PPB	Bi 1 PPB	Ca 10 PPM	Cd 1 PPB	Ce 5 PPB	Co 5 PPB	Cr 100 PPB	Cu 10 PPB	Dy 1 PPB	Er 0.5 PPB	Eu 0.5 PPB	Fe 1 PPM	Gd 1 PPB	La 1 PPB	Li 5 PPB	
33000	33000	49250	349250	6633000																				
33000	33000	49275	349275	6633000																				
33000	33000	49300	349300	6633000																				
33000	33000	49325	349325	6633000																				
33000	33000	49350	349350	6633000																				
33000	33000	49375	349375	6633000																				
33000	33000	49400	349400	6633000																				
48000	31400	31400	348000	6631400																				
48000	31425	31425	348000	6631425																				
48000	31450	31450	348000	6631450	5	69	<10	0.2	420	<1	730	8	26	10	<100	90	8	5.1	1.9	15	10	12	<5	
48000	31475	31475	348000	6631475																				
48000	31500	31500	348000	6631500	23	16	<10	0.8	1210	<1	950	8	36	17	<100	890	13	6.1	5.2	10	23	34	<5	
48000	31525	31525	348000	6631525																				
48000	31550	31550	348000	6631550	0.49	43	<10	0.2	700	<1	680	40	9	26	<100	160	3	2.1	0.7	8	4	3	<5	
48000	31575	31575	348000	6631575																				
48000	31600	31600	348000	6631600	16	63	40	1.7	1320	2	420	25	646	699	<100	6920	44	21.1	14.3	121	69	223	<5	
48000	31625	31625	348000	6631625																				
48000	31650	31650	348000	6631650	4	91	<10	0.4	820	<1	490	94	102	118	<100	2460	29	15.7	6.3	35	35	39	<5	
48000	31675	31675	348000	6631675																				
48000	31700	31700	348000	6631700	2	30	20	0.6	1110	<1	530	281	133	118	<100	4300	14	7.1	4.8	62	24	74	<5	
48000	31725	31725	348000	6631725																				
48000	31750	31750	348000	6631750	20	40	30	1	2120	<1	410	26	466	53	<100	1970	52	21.5	17.3	32	89	191	<5	
48000	31775	31775	348000	6631775																				
48000	31800	31800	348000	6631800	14	46	50	0.5	2580	<1	360	55	465	72	<100	2470	46	20.9	15.2	47	74	143	<5	
48000	31825	31825	348000	6631825																				
48000	31850	31850	348000	6631850	8	123	60	0.5	2590	<1	160	27	202	609	<100	6930	56	40.1	8.6	388	46	78	<5	
48000	31875	31875	348000	6631875																				
48000	31900	31900	348000	6631900	5	162	<10	0.049	3280	<1	250	5	544	21	<100	740	311	171	54	69	294	215	<5	
48000	31925	31925	348000	6631925																				
48000	31950	31950	348000	6631950	2	97	<10	0.1	1470	<1	260	104	112	283	<100	800	39	26.8	6.7	54	37	58	<5	
48000	31975	31975	348000	6631975																				
48000	32000	32000	348000	6632000																				
48000	32025	32025	348000	6632025																				
48000	32050	32050	348000	6632050																				
48000	32075	32075	348000	6632075																				
48000	32100	32100	348000	6632100																				
48000	32125	32125	348000	6632125																				
48000	32150	32150	348000	6632150																				
48000	32175	32175	348000	6632175																				
48000	32200	32200	348000	6632200																				
48000	32225	32225	348000	6632225																				
48000	32250	32250	348000	6632250																				
48000	32275	32275	348000	6632275																				
48000	32300	32300	348000	6632300																				
48000	32325	32325	348000	6632325																				
48000	32350	32350	348000	6632350																				
48000	32375	32375	348000	6632375																				
48000	32400	32400	348000	6632400																				
48000	32425	32425	348000	6632425																				
48000	32450	32450	348000	6632450																				
48000	32475	32475	348000	6632475	5	21	20	0.5	1200	<1	520	10	440	231	<100	18100	38	20.5	11.3	74	60	191	<5	
48000	32500	32500	348000	6632500																				
48000	32525	32525	348000	6632525	52	11	<10	0.7	2770	<1	550	9	36	52	<100	9840	16	8.1	4.4	6	23	31	<5	
48000	32550	32550	348000	6632550																				
48000	32575	32575	348000	6632575	26	41	10	1.1	2810	<1	490	12	2260	65	<100	3190	224	113	60.8	18	345	907	<5	
48000	32600	32600	348000	6632600																				
48000	32625	32625	348000	6632625	35	18	<10	1	7690	<1	820	19	242	61	<100	30800	61	33.5	18.1	9	97	217	<5	
48000	32650	32650	348000	6632650																				
48000	32675	32675	348000	6632675	6	>300	<10	0.3	990	<1	10	2	367	32	<100	3360	31	12.6	8.4	21	40	144	<5	
48000	32700	32700	348000	6632700																				
48000	32725	32725	348000	6632725	6	>300	<10	0.2	1000	<1	<10	5	87	20	<100	280	9	5.2	2.4	101	11	40	<5	

Line ID	G Easting	G Northing	Mg 1 PPM	Mo 5 PPB	Nb 0.5 PPB	Nd 1 PPB	Ni 5 PPB	Pb 10 PPB	Pd 1 PPB	Pr 1 PPB	Pt 1 PPB	Rb 5 PPB	Sb 1 PPB	Sc 5 PPB	Sm 1 PPB	Sn 1 PPB	Sr 10 PPB	Ta 1 PPB	Tb 1 PPB	Te 10 PPB	Th 0.5 PPB	Ti 3 PPB	Tl 0.5 PPB	
33000	33000	49250																						
33000	33000	49275																						
33000	33000	49300																						
33000	33000	49325																						
33000	33000	49350																						
33000	33000	49375																						
33000	33000	49400																						
48000	31400	31400																						
48000	31425	31425																						
48000	31450	31450	3	2.49	<0.5	26	262	30	<1	5	<1	37	<1	<5	7	<1	1430	<1	1	<10	1.3	<3	<0.5	
48000	31475	31475																						
48000	31500	31500	9	2.49	<0.5	72	352	<10	<1	13	<1	22	<1	<5	19	<1	1660	<1	3	<10	8.5	<3	<0.5	
48000	31525	31525																						
48000	31550	31550	6	2.49	<0.5	7	155	40	<1	1	<1	17	<1	<5	2	<1	1440	<1	<1	<10	0.8	26	<0.5	
48000	31575	31575																						
48000	31600	31600	13	10	0.9	306	1460	250	<1	69	<1	87	<1	32	63	<1	760	<1	9	<10	44.3	131	1.2	
48000	31625	31625																						
48000	31650	31650	14	2.49	<0.5	87	539	100	<1	17	<1	76	<1	8	26	<1	900	<1	5	<10	4.9	25	<0.5	
48000	31675	31675																						
48000	31700	31700	14	13	0.5	113	1190	70	<1	24	<1	85	<1	6	22	<1	1000	<1	3	<10	6.8	31	<0.5	
48000	31725	31725																						
48000	31750	31750	20	10	0.7	335	330	150	<1	68	<1	68	<1	11	77	<1	810	<1	11	<10	48.6	172	0.6	
48000	31775	31775																						
48000	31800	31800	21	13	1.2	270	383	110	<1	54	<1	78	<1	8	65	<1	830	<1	9	<10	38	309	0.6	
48000	31825	31825																						
48000	31850	31850	26	26	2	123	1400	90	<1	27	<1	82	1	94	33	<1	670	<1	8	<10	56.1	365	1.6	
48000	31875	31875																						
48000	31900	31900	57	2.49	<0.5	677	412	210	<1	120	<1	17	<1	63	206	<1	1260	<1	48	<10	37.3	51	<0.5	
48000	31925	31925																						
48000	31950	31950	27	10	<0.5	110	1670	<10	<1	22	<1	38	<1	22	28	<1	700	<1	6	<10	8.1	53	0.7	
48000	31975	31975																						
48000	32000	32000																						
48000	32025	32025																						
48000	32050	32050																						
48000	32075	32075																						
48000	32100	32100																						
48000	32125	32125																						
48000	32150	32150																						
48000	32175	32175																						
48000	32200	32200																						
48000	32225	32225																						
48000	32250	32250																						
48000	32275	32275																						
48000	32300	32300																						
48000	32325	32325																						
48000	32350	32350																						
48000	32375	32375																						
48000	32400	32400																						
48000	32425	32425																						
48000	32450	32450																						
48000	32475	32475	35	49	1.2	289	609	20	<1	65	<1	41	1	30	57	<1	1340	<1	8	<10	34.6	32	1.8	
48000	32500	32500																						
48000	32525	32525	22	8	<0.5	65	202	10	<1	11	<1	9	<1	17	16	<1	2850	<1	3	<10	6.6	<3	0.7	
48000	32550	32550																						
48000	32575	32575	24	2.49	<0.5	1320	520	190	<1	273	<1	75	<1	40	297	<1	2020	<1	44	<10	49.4	28	0.6	
48000	32600	32600																						
48000	32625	32625	75	12	<0.5	352	378	20	1	69	<1	7	<1	71	78	<1	2760	<1	12	<10	12.4	<3	<0.5	
48000	32650	32650																						
48000	32675	32675	<1	2.49	1.3	174	45	90	<1	40	<1	114	<1	35	39	<1	20	<1	6	<10	37.4	380	1	
48000	32700	32700																						
48000	32725	32725	<1	2.49	3	46	65	110	<1	11	<1	172	<1	30	10	<1	30	<1	2	<10	31.2	622	0.9	

Line ID	G Easting	G Northing	U 1 PPB	W 1 PPB	Y 5 PPB	Yb 1 PPB	Zn 20 PPB	Zr 5 PPB
33000	33000	49250						
33000	33000	49275						
33000	33000	49300						
33000	33000	49325						
33000	33000	49350						
33000	33000	49375						
33000	33000	49400						
48000	31400	31400						
48000	31425	31425						
48000	31450	31450	40	<1	55	4	30	<5
48000	31475	31475						
48000	31500	31500	20	<1	80	4	230	<5
48000	31525	31525						
48000	31550	31550	12	<1	20	2	530	<5
48000	31575	31575						
48000	31600	31600	65	<1	206	16	220	36
48000	31625	31625						
48000	31650	31650	39	<1	148	11	3170	6
48000	31675	31675						
48000	31700	31700	66	<1	87	5	6520	<5
48000	31725	31725						
48000	31750	31750	66	<1	231	14	340	27
48000	31775	31775						
48000	31800	31800	91	<1	231	14	380	26
48000	31825	31825						
48000	31850	31850	342	<1	340	31	180	75
48000	31875	31875						
48000	31900	31900	74	1	1690	112	60	14
48000	31925	31925						
48000	31950	31950	122	<1	284	19	220	26
48000	31975	31975						
48000	32000	32000						
48000	32025	32025						
48000	32050	32050						
48000	32075	32075						
48000	32100	32100						
48000	32125	32125						
48000	32150	32150						
48000	32175	32175						
48000	32200	32200						
48000	32225	32225						
48000	32250	32250						
48000	32275	32275						
48000	32300	32300						
48000	32325	32325						
48000	32350	32350						
48000	32375	32375						
48000	32400	32400						
48000	32425	32425						
48000	32450	32450						
48000	32475	32475	105	2	323	17	100	39
48000	32500	32500						
48000	32525	32525	7	<1	149	5	80	12
48000	32550	32550						
48000	32575	32575	49	1	2220	76	120	27
48000	32600	32600						
48000	32625	32625	27	<1	558	25	210	24
48000	32650	32650						
48000	32675	32675	10	<1	164	8	9.99	64
48000	32700	32700						
48000	32725	32725	10	<1	57	4	40	51







Line ID	G Easting	G Northing	U 1 PPB	W 1 PPB	Y 5 PPB	Yb 1 PPB	Zn 20 PPB	Zr 5 PPB
48000	32750	32750						
48000	32775	32775	18	<1	231	10	50	41
48000	32800	32800						
48000	32825	32825	19	<1	183	10	420	68
48000	32850	32850						
48000	32875	32875	18	<1	333	15	50	78
48000	32900	32900						
48000	32925	32925	14	<1	127	7	30	68
48000	32950	32950						
48000	32975	32975						
48000	33000	33000	10	<1	42	2	420	91
48000	33025	33025						
48000	33050	33050	11	<1	106	5	30	52
48000	33075	33075						
48000	33100	33100	74	<1	1010	39	9.99	23
48000	33125	33125						
48000	33150	33150	23	<1	172	8	590	9
48000	33175	33175						
48000	33200	33200						
47200	31000	31000						
47200	31025	31025	43	<1	309	20	270	13
47200	31050	31050						
47200	31075	31075	42	<1	95	5	80	<5
47200	31100	31100						
47200	31125	31125	45	<1	244	13	120	45
47200	31150	31150						
47200	31175	31175	57	<1	544	38	190	38
47200	31200	31200						
47200	31225	31225	119	<1	241	36	70	<5
47200	31250	31250						
47200	31275	31275	335	2	2120	100	60	32
47200	31300	31300						
47200	31325	31325	4	<1	88	7	100	10
47200	31350	31350						
47200	31375	31375	20	<1	74	6	1190	44
47200	31400	31400						
47200	31425	31425	79	<1	89	8	50	<5
47200	31450	31450						
47200	31475	31475	66	<1	108	9	50	<5
47200	31500	31500						
47500	33025	33025						
47500	33050	33050	15	<1	216	13	60	42
47500	33075	33075						
47500	33100	33100						
47500	33125	33125	20	<1	211	12	30	62
47500	33150	33150						
47500	33150	33150-A	33	1	287	20	240	68
47500	33150	33175						
47500	33200	33200	195	<1	1040	70	100	16
47500	33225	33225						
47500	33250	33250	107	<1	174	12	40	<5
47500	33275	33275						
47500	33300	33300	50	<1	194	9	60	6
47500	33325	33325						
47500	33350	33350	8	<1	32	2	9.99	<5
47500	33375	33375						
47500	33400	33400	70	1	1050	58	170	71
47500	33425	33425						
47500	33450	33450	66	<1	247	13	160	17
47500	33475	33475						
47500	33500	33500						

Line ID	G Easting	G Northing	Easting	Northing	Ag 1 PPB	Al 1 PPM	As 10 PPB	Au 0.1 PPB	Ba 10 PPB	Bi 1 PPB	Ca 10 PPM	Cd 1 PPB	Ce 5 PPB	Co 5 PPB	Cr 100 PPB	Cu 10 PPB	Dy 1 PPB	Er 0.5 PPB	Eu 0.5 PPB	Fe 1 PPM	Gd 1 PPB	La 1 PPB	Li 5 PPB
47000	29350	29350	347000	6629350	2	177	<10	0.3	12700	<1	60	5	177	32	<100	3140	88	43	13.1	47	71	40	<5
47000	29375	29375	347000	6629375	6	243	<10	0.049	6060	<1	90	6	90	58	<100	1450	34	16.9	6.1	65	33	29	<5
47000	29400	29400	347000	6629400	3	<1	<10	0.2	4310	<1	30	7	152	31	<100	630	33	14.6	6.9	44	35	46	<5
47000	29425	29425	347000	6629425	9	231	<10	0.3	7810	<1	40	3	315	14	<100	460	67	28.6	15.2	13	79	109	<5
47000	29450	29450	347000	6629450	3	214	<10	0.049	6690	<1	90	6	186	34	<100	540	36	16.1	8.3	57	42	73	<5
47000	29475	29475	347000	6629475	11	252	<10	0.2	7320	<1	40	4	504	25	<100	2470	97	39.2	27.3	31	128	220	<5
47000	29500	29500	347000	6629500	2	<1	<10	0.049	950	<1	20	8	245	37	<100	1180	45	19.5	10.7	55	54	61	<5
47000	29525	29525	347000	6629525	12	250	<10	0.4	3780	<1	50	3	442	21	<100	1640	46	17.6	14.5	31	66	153	<5
47000	29550	29550	347000	6629550	2	186	<10	0.049	3560	<1	50	4	286	37	<100	3530	131	64	23.6	59	115	83	<5
47000	29575	29575	347000	6629575	4	<1	<10	0.049	820	<1	20	6	172	58	<100	190	29	13.7	6.3	43	31	55	<5
47000	29600	29600	347000	6629600	26	83	<10	0.4	3770	<1	790	3	80	<5	<100	490	24	13	6.2	13	34	62	<5
47000	29625	29625	347000	6629625	11	167	<10	0.3	3000	<1	420	2	172	29	<100	880	78	51.8	12.6	38	72	97	<5
47000	29650	29650	347000	6629650	4	158	<10	0.049	9130	<1	1210	2	213	28	<100	160	26	15.3	7.4	27	44	124	<5
47000	29675	29675	347000	6629675	21	123	<10	0.3	1520	<1	420	8	374	66	<100	1530	183	91.4	45.8	15	251	462	<5
47000	29700	29700	347000	6629700	4	58	<10	0.1	2650	<1	820	2	45	10	<100	250	16	7.4	5.1	9	27	39	<5
47000	29725	29725	347000	6629725	32	227	<10	0.2	940	<1	90	16	386	11	<100	470	173	76.6	39.1	23	218	295	<5
47000	29750	29750	347000	6629750	61	123	<10	0.5	1340	<1	490	9	449	11	<100	1210	317	155	73	23	384	482	<5
47000	29775	29775	347000	6629775	21	64	<10	0.049	2280	<1	1230	7	55	17	<100	250	38	16.6	10.5	15	58	93	<5
47000	29800	29800	347000	6629800	10	159	<10	0.1	870	<1	260	17	222	79	<100	1010	65	36.1	11	75	62	78	<5
47000	29825	29825	347000	6629825	11	93	<10	0.1	840	<1	650	11	190	72	<100	1100	45	22.5	9.6	23	57	85	<5
47000	29850	29850	347000	6629850	13	86	<10	0.1	460	<1	590	14	89	53	<100	3340	23	12.6	5.2	15	30	35	<5
47100	29350	29350	347100	6629350	11	>300	<10	0.1	7140	<1	40	11	68	135	100	750	32	19	3.8	220	20	25	<5
47100	29375	29375	347100	6629375	3	>300	<10	0.049	9470	<1	20	23	20	96	100	1490	12	12.8	0.6	262	5	10	<5
47100	29400	29400	347100	6629400	2	>300	<10	0.049	2230	<1	<10	6	40	58	<100	940	49	27.4	4.4	77	24	12	<5
47100	29425	29425	347100	6629425	4	>300	<10	0.049	8910	<1	60	13	328	108	200	1650	126	67.1	19.7	171	106	84	<5
47100	29450	29450	347100	6629450	12	>300	20	0.3	6960	<1	120	11	765	141	1000	4830	164	75.3	34.7	248	175	296	7
47100	29475	29475	347100	6629475	6	>300	<10	0.6	1300	<1	20	2	141	34	200	25500	32	16.8	5.9	71	29	57	<5
47100	29500	29500	347100	6629500	2	247	<10	0.049	880	<1	20	1	234	27	<100	110	78	40.8	14.3	25	68	76	<5
47100	29525	29525	347100	6629525	8	>300	20	0.049	1950	1	230	12	217	301	1400	150	59	31.3	13	403	57	83	8
47100	29550	29550	347100	6629550	17	>300	20	0.3	6980	2	860	11	1810	730	700	1470	217	101	56.8	199	293	748	6
47100	29575	29575	347100	6629575	7	156	<10	0.3	3250	<1	660	4	198	5	<100	560	67	36.8	14.4	24	73	85	<5
47100	29600	29600	347100	6629600	6	129	<10	0.2	2890	<1	580	6	518	50	<100	820	47	24.2	11.4	43	61	127	<5
47100	29625	29625	347100	6629625	0.49	83	<10	0.049	1230	<1	210	13	27	35	<100	1300	17	12.4	2.4	76	13	15	<5
47100	29650	29650	347100	6629650	45	>300	<10	0.8	20800	<1	2740	17	508	46	500	360	290	150	73.2	62	398	1220	<5
47100	29675	29675	347100	6629675	10	179	<10	0.1	2890	<1	470	4	251	157	<100	680	99	47.4	23.6	34	129	244	<5
47100	29700	29700	347100	6629700	13	269	10	0.049	1090	<1	20	14	248	30	<100	230	74	34.9	17.4	75	79	99	<5
47100	29725	29725	347100	6629725	8	62	<10	0.1	2770	<1	820	4	238	8	<100	230	49	20.2	17.7	12	93	295	<5
47100	29750	29750	347100	6629750	6	132	<10	0.049	690	<1	230	10	158	15	<100	170	19	7.9	6.4	19	31	74	<5
47100	29775	29775	347100	6629775	6	224	10	0.049	1060	<1	90	6	258	19	<100	200	38	16.1	11.5	31	55	155	<5
47100	29800	29800	347100	6629800	92	>300	20	0.5	13900	<1	1950	30	2010	101	900	1280	624	309	122	460	686	1150	<5
47100	29825	29825	347100	6629825	46	>300	100	0.6	16200	4	1580	56	1350	2010	1800	1350	288	148	56.9	1290	311	642	15
47100	29850	29850	347100	6629850	189	>300	410	0.8	13800	3	12300	4850	2170	794	5100	6760	1120	669	242	1920	1340	2110	26

Line ID	G Easting	G Northing	Mg 1 PPM	Mo 5 PPB	Nb 0.5 PPB	Nd 1 PPB	Ni 5 PPB	Pb 10 PPB	Pd 1 PPB	Pr 1 PPB	Pt 1 PPB	Rb 5 PPB	Sb 1 PPB	Sc 5 PPB	Sm 1 PPB	Sn 1 PPB	Sr 10 PPB	Ta 1 PPB	Tb 1 PPB	Te 10 PPB	Th 0.5 PPB	Ti 3 PPB	Tl 0.5 PPB
47000	29350	29350	10	2.49	<0.5	159	208	130	<1	27	<1	132	<1	46	47	<1	510	<1	12	<10	14.6	179	0.9
47000	29375	29375	21	2.49	1.5	76	176	200	<1	14	<1	94	<1	20	23	<1	470	<1	5	<10	12.4	544	0.7
47000	29400	29400	7	2.49	1.4	98	246	150	<1	18	<1	145	<1	32	28	<1	140	<1	6	<10	24.4	483	0.9
47000	29425	29425	6	2.49	<0.5	228	189	170	<1	44	<1	127	<1	41	62	<1	230	<1	11	<10	18.4	184	0.8
47000	29450	29450	10	2.49	2	127	269	250	<1	26	<1	111	<1	29	34	<1	220	<1	6	<10	30.4	869	0.8
47000	29475	29475	4	2.49	1.4	430	112	330	<1	86	<1	124	<1	40	110	<1	130	<1	17	<10	30.3	646	1.3
47000	29500	29500	4	2.49	2.2	164	178	220	<1	31	<1	161	<1	21	49	<1	60	<1	8	<10	41.8	937	0.6
47000	29525	29525	3	2.49	1.4	258	87	130	<1	56	<1	126	<1	23	63	<1	130	<1	9	<10	25.4	596	1.4
47000	29550	29550	10	2.49	<0.5	303	157	110	<1	51	<1	59	<1	59	89	<1	240	<1	20	<10	20.5	190	0.7
47000	29575	29575	3	2.49	1.3	112	147	330	<1	24	<1	131	<1	22	27	<1	80	<1	5	<10	27.4	444	1.2
47000	29600	29600	25	2.49	<0.5	102	96	50	<1	20	<1	52	<1	<5	27	<1	930	<1	4	<10	7.5	9	<0.5
47000	29625	29625	30	2.49	<0.5	184	240	430	<1	35	<1	63	<1	36	51	<1	830	<1	11	<10	22.8	39	<0.5
47000	29650	29650	80	2.49	<0.5	170	208	640	<1	35	<1	21	<1	7	36	<1	1980	<1	5	<10	5.7	20	<0.5
47000	29675	29675	16	2.49	<0.5	787	662	320	<1	154	<1	187	<1	30	195	<1	530	<1	32	<10	15.6	23	0.8
47000	29700	29700	26	2.49	<0.5	86	64	80	<1	15	<1	40	<1	<5	22	<1	1240	<1	3	<10	8.6	5	<0.5
47000	29725	29725	3	2.49	<0.5	673	117	650	<1	124	<1	173	<1	35	178	<1	140	<1	29	<10	41.6	214	1.5
47000	29750	29750	14	2.49	<0.5	1030	464	330	<1	192	<1	173	<1	22	293	<1	750	<1	51	<10	17.4	21	0.7
47000	29775	29775	29	2.49	<0.5	181	156	140	<1	33	<1	26	<1	<5	45	<1	2060	<1	7	<10	3.7	11	<0.5
47000	29800	29800	5	2.49	<0.5	166	530	1700	<1	31	<1	107	<1	24	49	<1	390	<1	10	<10	53.4	82	1.5
47000	29825	29825	15	2.49	<0.5	159	797	170	<1	30	<1	93	<1	<5	44	<1	1010	<1	7	<10	7.4	4	0.8
47000	29850	29850	6	2.49	<0.5	79	784	230	<1	14	<1	113	<1	<5	22	<1	730	<1	4	<10	3.9	12	<0.5
47100	29350	29350	14	2.49	2.6	50	269	300	<1	10	<1	133	<1	40	15	<1	330	<1	4	<10	15.7	800	2.1
47100	29375	29375	7	2.49	8.3	11	178	220	<1	2	<1	63	<1	94	3	<1	190	<1	1	<10	32.8	1520	1
47100	29400	29400	4	2.49	2.9	40	143	150	<1	7	<1	56	<1	41	15	<1	90	<1	6	<10	13.4	649	0.9
47100	29425	29425	16	2.49	3.7	293	464	550	<1	50	<1	215	<1	79	83	<1	410	<1	18	<10	26.7	1300	1.5
47100	29450	29450	16	6	28.1	552	449	310	1	111	<1	453	2	221	150	1	300	2	27	<10	107	13800	2.5
47100	29475	29475	4	2.49	6.3	86	130	330	<1	19	<1	187	<1	43	24	<1	60	<1	5	<10	44.2	2420	0.7
47100	29500	29500	3	2.49	1.3	170	115	160	<1	36	<1	145	<1	60	46	<1	70	<1	12	<10	20.6	375	0.6
47100	29525	29525	102	10	26.2	157	896	490	<1	30	<1	423	1	174	44	3	390	2	9	<10	54.7	18700	0.8
47100	29550	29550	56	2.49	8	1180	974	1060	<1	247	<1	783	1	224	271	<1	900	<1	38	<10	152	3830	3.5
47100	29575	29575	44	2.49	<0.5	177	314	50	<1	32	<1	85	<1	24	53	<1	1180	<1	10	<10	6.9	24	<0.5
47100	29600	29600	12	2.49	0.6	214	299	280	<1	44	<1	205	<1	20	53	<1	610	<1	8	<10	16.9	77	1.1
47100	29625	29625	7	2.49	<0.5	26	117	170	<1	6	<1	18	<1	13	8	<1	290	<1	2	<10	4.2	79	<0.5
47100	29650	29650	129	2.49	0.6	1490	379	1720	<1	304	<1	1170	<1	225	337	<1	4300	<1	50	<10	69	69	9.6
47100	29675	29675	18	2.49	<0.5	400	184	350	<1	78	<1	142	<1	38	102	<1	840	<1	17	<10	19.8	63	0.9
47100	29700	29700	3	2.49	2.7	245	84	1180	<1	51	<1	143	<1	42	64	<1	90	<1	13	<10	52.9	638	1.4
47100	29725	29725	24	2.49	<0.5	373	102	360	<1	82	<1	54	<1	9	77	<1	1540	<1	10	<10	13.3	7	<0.5
47100	29750	29750	3	2.49	0.6	123	169	690	<1	28	<1	200	<1	16	28	<1	240	<1	4	<10	31.9	146	0.7
47100	29775	29775	2	2.49	2.3	235	68	830	<1	53	<1	209	<1	26	51	<1	110	<1	8	<10	53.7	635	1.8
47100	29800	29800	51	8	5	2240	1400	4890	1	422	<1	1230	<1	298	572	<1	3350	1	99	<10	228	1560	8.1
47100	29825	29825	66	30	29.6	1100	1500	11700	2	217	<1	3320	3	377	276	3	2580	2	46	<10	479	11900	18.1
47100	29850	29850	201	107	20.5	4160	16000	4020	6	788	1	5960	5	1240	1090	3	9580	3	179	<10	560	6860	10.9

Line ID	G Easting	G Northing	U 1 PPB	W 1 PPB	Y 5 PPB	Yb 1 PPB	Zn 20 PPB	Zr 5 PPB
47000	29350	29350	8	<1	376	29	80	16
47000	29375	29375	4	<1	141	10	60	10
47000	29400	29400	8	<1	116	9	80	52
47000	29425	29425	10	<1	273	19	20	31
47000	29450	29450	7	<1	129	11	290	33
47000	29475	29475	18	<1	334	26	20	31
47000	29500	29500	5	<1	136	13	220	26
47000	29525	29525	9	<1	151	12	20	46
47000	29550	29550	8	<1	498	42	40	25
47000	29575	29575	8	<1	107	9	50	26
47000	29600	29600	10	<1	120	10	30	6
47000	29625	29625	23	<1	482	42	150	14
47000	29650	29650	6	<1	213	12	60	<5
47000	29675	29675	425	<1	1010	61	150	15
47000	29700	29700	37	<1	76	5	70	<5
47000	29725	29725	58	<1	703	46	720	20
47000	29750	29750	168	<1	1780	83	90	12
47000	29775	29775	46	<1	200	9	80	<5
47000	29800	29800	213	<1	318	24	560	18
47000	29825	29825	114	<1	235	13	110	<5
47000	29850	29850	348	<1	136	9	9.99	5
47100	29350	29350	6	<1	134	12	170	27
47100	29375	29375	7	<1	52	13	80	49
47100	29400	29400	6	<1	208	18	120	35
47100	29425	29425	12	<1	566	44	430	36
47100	29450	29450	40	3	594	46	350	263
47100	29475	29475	14	<1	119	12	60	81
47100	29500	29500	7	<1	371	29	9.99	44
47100	29525	29525	16	2	238	20	340	139
47100	29550	29550	51	2	968	66	310	166
47100	29575	29575	18	<1	384	28	120	19
47100	29600	29600	24	<1	250	19	60	15
47100	29625	29625	9	<1	118	10	40	7
47100	29650	29650	137	1	1730	91	80	44
47100	29675	29675	52	<1	597	31	30	17
47100	29700	29700	20	<1	332	23	290	21
47100	29725	29725	24	<1	268	12	30	6
47100	29750	29750	28	<1	84	5	90	16
47100	29775	29775	17	<1	196	10	140	31
47100	29800	29800	239	3	3430	182	790	117
47100	29825	29825	127	5	1480	94	1390	363
47100	29850	29850	2020	63	7020	471	235734	1320