**Rimfire Minerals Corporation**

# 2002 TECHNICAL REPORT ON THE SIMPSON PROJECT

Located in the Watson Lake Mining District
NTS 105A/13
60° 52' North Latitude
129° 55' West Longitude

-prepared for-
**DEPARTMENT OF ENERGY MINES & RESOURCES**
**GOVERNMENT OF YUKON**
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## 2002 TECHNICAL REPORT ON THE SIMPSON PROJECT

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## 1.0 INTRODUCTION

The Simpson exploration target was defined on the basis of several anomalous government silt samples in an area underlain by prospective lithologies belonging to the Yukon Tanana Terrane Government silt samples are anomalous in Cu, Pb, Zn, Ag at levels similar to those that define the presence of massive sulphide deposits such as KZK and Wolverine deposits in the Finlayson camp 60 kilometres to the northwest Although the geology is not well known, Rimfire Minerals Corporation considered the target to be worthy of investigation A single day of silt sampling in June resulted in the identification of strongly anomalous stream silts confirming the government surveys Two days in August were spent contour soil sampling in the anomalous drainages Equity Engineering Ltd was contracted to execute the 2002 Simpson fieldwork and has been retained to report on the results

## 2 0 PROPERTY TITLE

There are currently no claims covering the Simpson Project area Subsequent to the 2002 field work, a significant block of claims was staked by other parties north of the Simpson Project area to cover ultramafic rocks for emerald potential (Figure 2)

## 3.0 LOCATION, ACCESS AND GEOGRAPHY

The Simpson Project area lies in the Simpson Range of the Pelly Mountains of south-eastern Yukon, approximately 105 km northwest of Watson Lake (Figure 1) The project area is in the Watson Lake Mining District, centred at 60° 52' north latitude and 129° 55' west longitude The Robert Campbell Highway passes the Simpson at its nearest point 35 km to the east The project area is bound to the east by Hasselberg Lake and Creek and to the south by Porcupine Creek Topography is steep to moderately mountainous with elevations that range from 900 metres in the valley bottoms to over 1500 m on the most prominent peaks and ridges

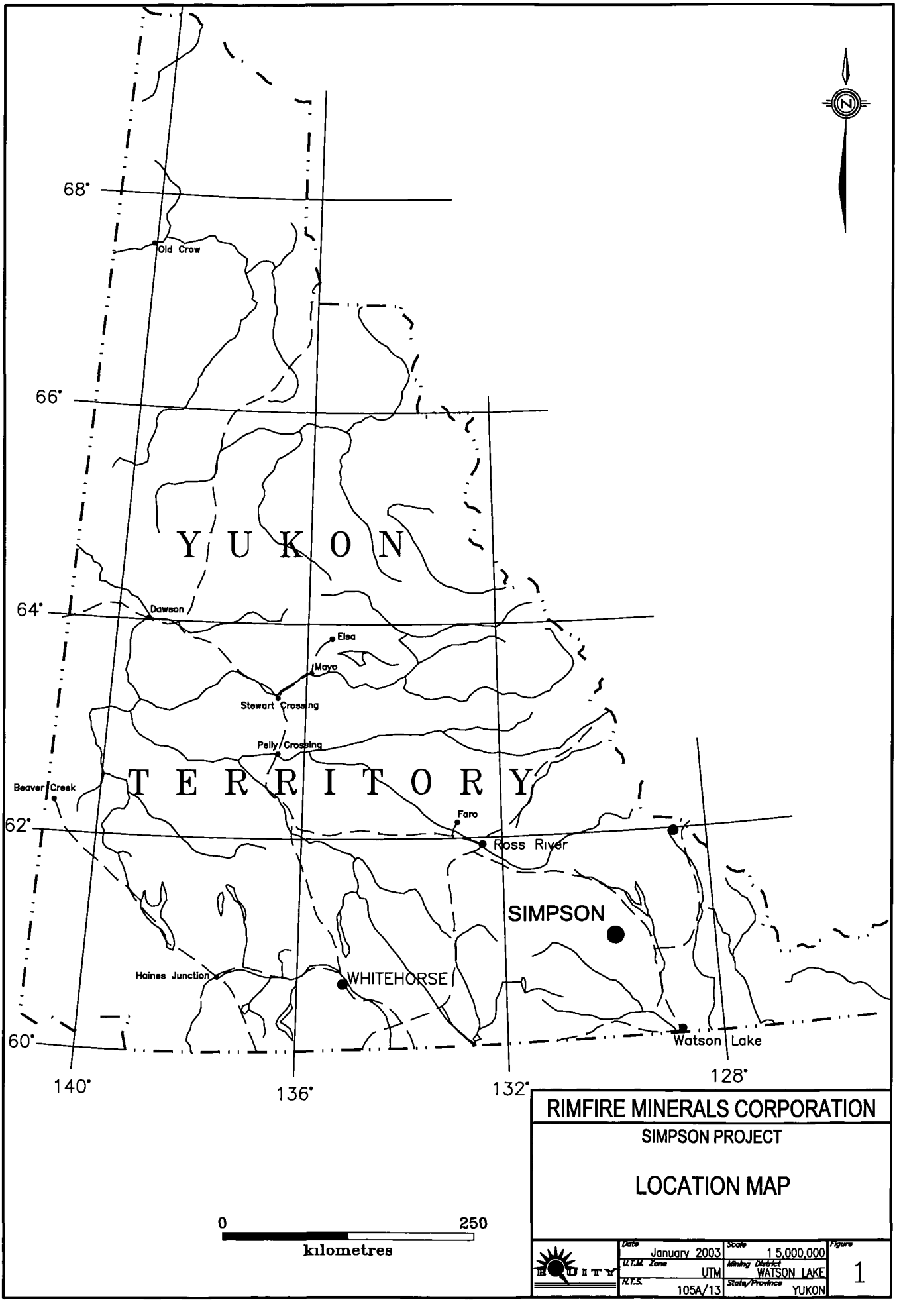
The Simpson project area is subject to a northern continental climate, with short warm summers and cold dry winters Snow fall depths range between 1 and 3 m

## 4 0 EXPLORATION HISTORY

No claims or mineral occurrences have ever been located within the Simpson area of interest The Howard mineral occurrence is situated approximately 4 kilometres to the north within mafic and ultramafic rocks of the Slide Mountain Terrane The nature of the Howard occurrence is unknown In February and July of 1996 Cominco staked 606 LJL claims partly covering the Simpson project, but extending mostly to the east These claims likely targeted airborne anomalies The Cominco work remains confidential, however the claims recently were allowed to lapse

## 5 0 EXPLORATION PROGRAM

A single day of prospecting, silt sampling and reconnaissance mapping was carried out in mid-June The silt sampling results were encouraging and the geological setting was considered permissive for volcanogenic massive sulphide (VMS) style mineralization Two more days were spent in July on the property with a three person crew to prospect and complete soil contour lines in the anomalous drainages Transportation to the area was provided by helicopter based out of Watson Lake A magnetic declination of 26° 9' E was used for all compass measurements All maps and

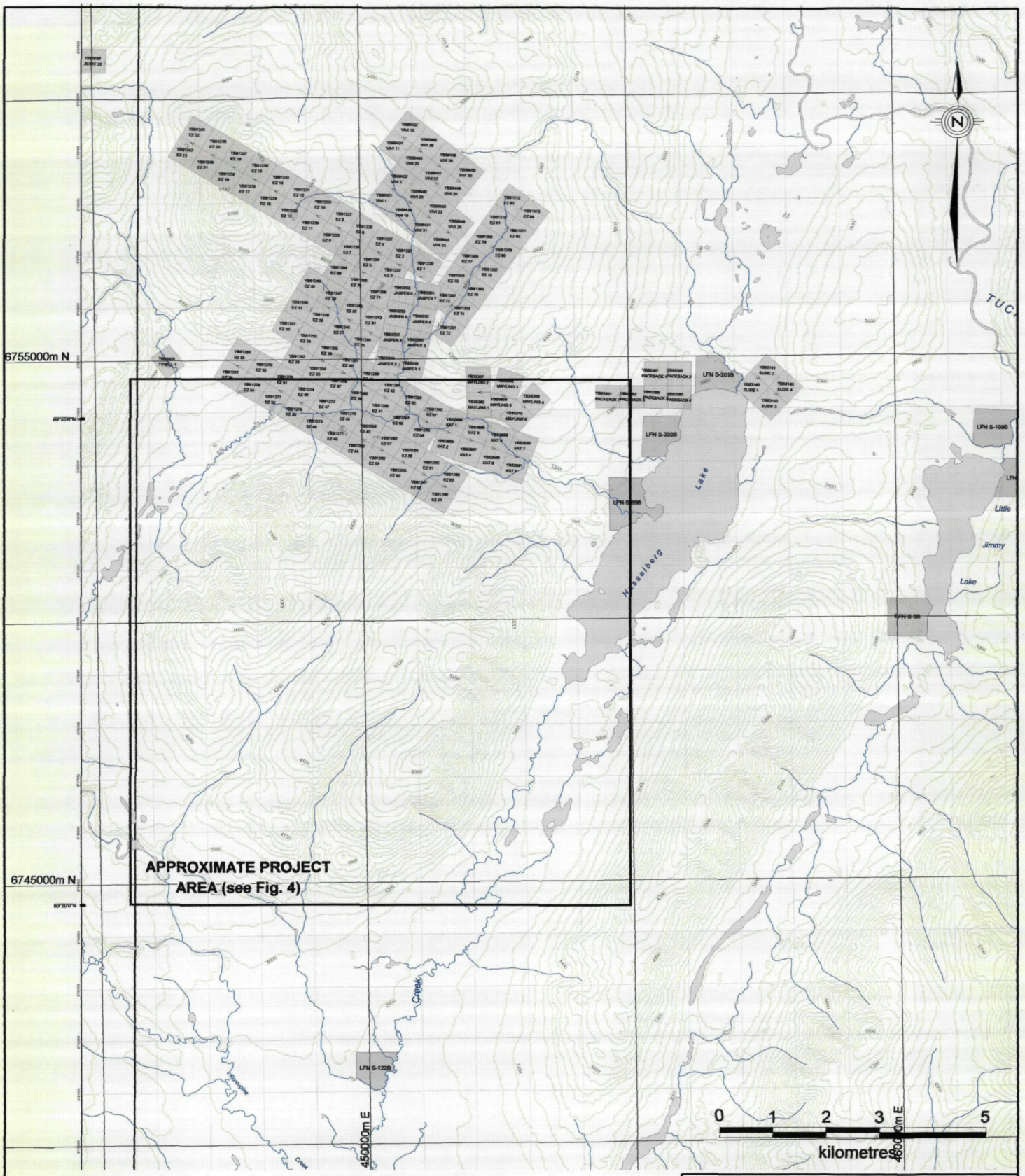



# RIMFIRE MINERALS CORPORATION

## SIMPSON PROJECT

## LOCATION MAP

| | | | |
|---|---|---|---|
| EQUITY | Date: January 2003 | Scale: 1:5,000,000 | Figure: 1 |
| | U.T.M. Zone: UTM | Mining District: WATSON LAKE | |
| | N.T.S.: 105A/13 | State/Province: YUKON | |




**RIMFIRE MINERALS CORPORATION**

**SIMPSON PROJECT**

**PROJECT AREA CLAIMS**

| | | | |
|---|---|---|---|
| EQUITY | Date: January 7, 2002 | Scale: 1:100,000 | Figure 2 |
| | U.T.M. Zone: UTM8 - NAD83 | Mining District: SKEENA | |
| | N.T.S.: 105A/13 | State/Province: YUKON | |

UTM coordinates are referenced to the 1927 North American Datum (NAD-27)

A total of 13 rock samples were taken and submitted for analysis Descriptions of the rock samples are attached in Appendix B A total of 14 silt samples were collected from the active parts of the three main streams draining the Simpson Project area Sample sites were marked by orange and blue flagging and aluminum tags All samples were analyzed by ACME Analytical Labs of Vancouver (Appendix C) Locations for all 2002 silt, soil and rock samples are plotted on Figure 4

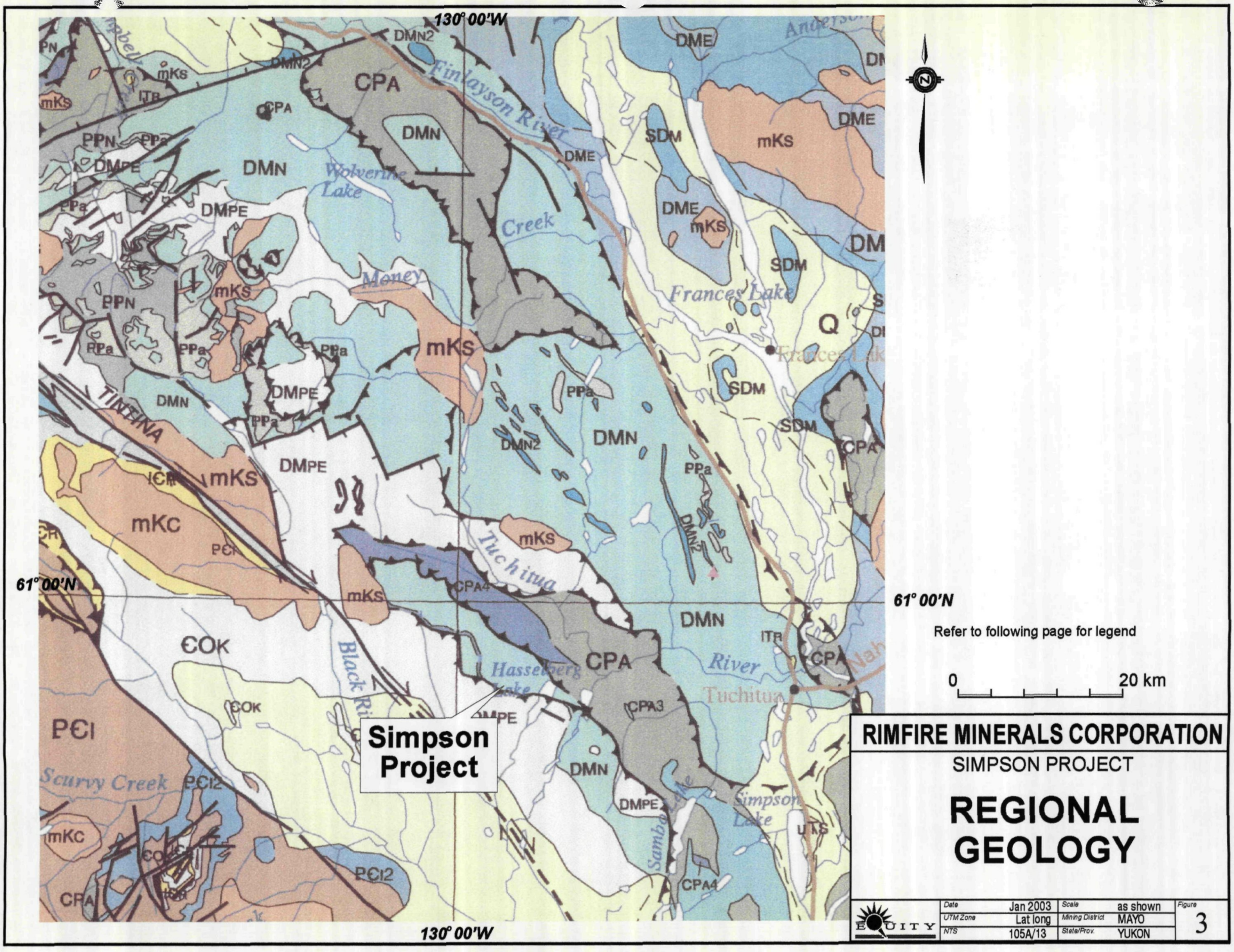
## 6 0 REGIONAL GEOLOGY

The region surrounding the Simpson has been mapped as Devono-Mississippian continental margin, arc volcanic, and plutonic rocks of the Nasina Subterrane in thrust contact with Devono-Mississippian Pelly Orthogneiss (Gordey and Makepeace, 1999, and Gabrielse, 1967)(Figure 3) The Kudz Ze Kayah and GP4F, and Wolverine deposits are hosted in the Grass Lakes and Wolverine Successions of the Nasina Subterrane (Murphy, 1999) At this early stage correlating the stratigraphy at the Simpson with units in the Finlayson district is not possible and further work will be required This year's work on the Simpson confirms that only the westernmost area is underlain by Pelly Orthogneiss whereas the areas to the east are underlain by phyllites and possibly felsic volcanics of the Nasina Subterrane It may be significant that the rocks in the area of the Simpson are juxtaposed to a large mafic package of Slide Mountain Terrane oceanic rocks to the north In the Finlayson Camp, the Wolverine deposit and Wolverine Succession rocks are also juxtaposed to Slide Mountain rocks in a similar manner Still further to the north, Slide Mountain mafic volcanics hosting the Ice deposit are bounded on the south by barite-bearing felsic volcanic rocks that may be equivalent to the Wolverine succession This association raises the likelihood that the permissive Wolverine succession persists as least as far south as the Simpson

## 7 0 PROPERTY GEOLOGY

### 7 1 Lithology

Only three significant lithologies were encountered during the Simpson program Outcrop and talus of quartz-feldspar-hornblende gneiss (GNSqfh) was noted in Stu North Creek and on the spur to the east (Figure 4) Outcrops were characteristically blocky and homogeneous with only faintly to moderately developed gneissic layering Locally the unit contained distinct quartz and feldspar augens This unit almost undoubtedly represents the regional Pelly Gneiss unit (DMPE) Scarce outcrops of quartz-chlorite-sericite phyllite (PHYqm) were noted in both Rolls and Skinny Creeks This unit was typically a dull olive green and ranged from phyllitic to schistose with a minor carbonaceous component and trace pyrite The most probable protolith for this unit would be an intermediate tuff to a muddy volcanic tuff Quartz eye or quartz augen schist (GNSqem) was found as cobbles and boulders in Rolls Creek The schist consists of 1-3 mm quartz augens to folioform lenses and rarely blue-grey quartz eyes in a feldspathic to sericitic groundmass commonly with manganese partings This unit may represent a metamorphosed felsic volcanic Both the phyllite and felsic schist units are likely part of the Nasina Subterrane




**RIMFIRE MINERALS CORPORATION**

SIMPSON PROJECT

# REGIONAL GEOLOGY

| | | | | |
|---|---|---|---|---|
| EQUITY | Date: Jan 2003 | Scale: as shown | | Figure: 3 |
| | UTM Zone: Lat long | Mining District: MAYO | | |
| | NTS: 105A/13 | State/Prov.: YUKON | | |

## LITHOLOGIC LEGEND (to accompany Figure 3)

### QUATERNARY

**Q** *QUATERNARY* unconsolidated glacial, glaciofluvial and glaciolacustrine deposits, fluviatile silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits

### PROTEROZOIC AND PALEOZOIC

**PPa** *AMPHIBOLITE* metamorphosed mafic rocks including amphibolite (1) and ultramafic rocks (2) of unknown association, i e ) may belong in part or entirely to Nisling, Nasina, and Slide Mountain assemblages and (3), mafic-ultramafic intrusions within Nasina assemblage

### MID-CRETACEOUS

**mKC** *CASSIAR SUITE* medium- to coarse-grained, equigranular to porphyritic rocks of largely felsic (q) composition, includes minor (?) amounts questionably of more intermediate composition (g)

**mKS** *SELWYN SUITE* plutonic suite of intermediate (g) to more felsic composition (q) and rarely syenitic (y) composition, equivalent felsic dykes (f), complete compositional gradation so that these designations are somewhat arbitrary

### CARBONIFEROUS TO PERMIAN

**CPA** *ANVIL* dominantly oceanic assemblages of mafic, volcanics, ultramfices, chert and pelite, limestone, and gabbroic rocks

### DEVONIAN - MISSISSIPPIAN

**DME** *EARN* complex assemblage of submarine fan and channel deposits (1), (5) within black siliceous shale and chert (2), (4) and including separated small occurrences of felsic volcanic rocks (3), common barite, and many occurrences of stratiform Pb-Zn mineralization

**DMPE** *PELLY GNEISS SUITE* variably deformed granitic rocks of predominantly felsic (q) to intermediate composition (g) northeast of Tintina Fault **(Simpson Range Suite)**

**DMN** *NASINA* graphitic quartzite and muscovite quartz-rich schist (1), (3)-(5), and(?) (6) with interspersed marble (2) and probable correlative successions (7) - (9)

### SILURIAN TO MIDDLE DEVONIAN

**SDM** *MCEVOY* buff, platy siltstone (1) overlain by carbonate and quartzite (2)

### UPPER CAMBRIAN AND LOWER ORDOVICIAN

**COK** *KECHIKA* basinal fine grained calcareous pelitic strata (1) with locally intercalated mafic volcanics (2)

### LOWER CAMBRIAN

**ICR** *ROSELLA* resistant, thick-bedded to massive, limestone and argillaceous limestone, local archaeocyathid buildups, trilobite fragments, oolites, and pisolites, pisolitic massive dolomite and limestone, marble, calc-silicate, calcareous phyllite and minor schist **(Rosella)**

### UPPER PROTEROZOIC TO LOWER CAMBRIAN

**PCI** *INGENIKA* consists upwards of coarse quartzose clastics overlain by fine clastics (1), a marble horizon (2), and fine clastic strata (3), laterally equivalent similar fine clastics (4) are mostly(?) correlative to the upper part of this succession

### LATE PROTEROZOIC AND PALEOZOIC

**PPN** *NISLING* assemblage characterized by mica quartz feldspar schist (1) and abundant locally thick limestone members (2), (3) includes possibly equivalent strata northeast of Tintina Fault

### 7 2 Alteration and Mineralization

No significant mineralization was found during prospecting although six samples returned anomalous geochemical levels in a variety of elements (Table 7 2 1)

**Table 7.2 1**
**2002 Rock Sample Results**

| Sample | Au (ppb) | Ag (ppm) | As (ppm) | Bi (ppm) | Cu (ppm) | Mo (ppm) | Pb (ppm) | Sb (ppm) | Zn (ppm) |
|---|---|---|---|---|---|---|---|---|---|
| 275901 | 25 | < 3 | 4 | < 3 | 8 | 2 | 3 | < 3 | 7 |
| 275904 | 10 | < 3 | 134 | < 3 | 41 | 1 | 5 | < 3 | 72 |
| 275930 | 16 | 3 1 | 192 | 6 | 414 | 10 | 207 | 9 | 159 |
| 275931 | 2 | < 3 | 167 | < 3 | 21 | 3 | 21 | < 3 | 38 |
| 275953 | 15 | < 3 | 39 | < 3 | 98 | 3 | 10 | < 3 | 41 |
| 275954 | 8 | 0 6 | 27 | 3 | 27 | 22 | 38 | < 3 | 63 |

Samples 275901 and 275904 were both collected on Long Creek from samples of undifferentiated gossanous schist float containing 2-3% pyrite Silts from this drainage were also anomalous in Cu, Pb, Zn and Ag (Figure 5a-e) Sample 275930 returned the most anomalous results, particularly in Pb and Cu, in a float sample of pyritic schist at the head waters of Skinny Creek Samples 275931 and 275954 were taken from float and outcrops of pyritic phyllite, while 275953 was from a float sample of possible felsic volcanic taken further down stream Skinny Creek returned the most anomalous silt sample results of the four drainages sampled

## 8 0 GEOCHEMISTRY

### 8 1 Silt Geochemistry

During the first phase of the program a total of 14 silt samples were collected from Stu South, Stu North, Rolls, Skinny and Long Creeks (Figures 5a-e) The data set is unfortunately too small for determination of statistical levels Permissive volcanic stratigraphy is known to be extensive on the Finlayson map sheet to the northwest (105G) and for this reason results from the Simpson are compared to statistical levels for that map sheet (Figures 5a-e)(Table 8 1 1) Comparison of the Simpson results shown on Figures 5a-e with the RGS statistical levels demonstrates that silt samples in Long Creek are strongly anomalous in the element suite Cu-Pb-Zn-Ag In Rolls Creek samples are also strongly anomalous in Cu-Pb-Zn-Ag and to a moderate degree in As-Mo

**Table 8 1 1**
**Silt Geochemistry Percentiles For 105G**

| Percentile Level | Au (ppb) | Ag (ppm) | As (ppm) | Cu (ppm) | Mo (ppm) | Pb (ppm) | Sb (ppm) | Zn (ppm) |
|---|---|---|---|---|---|---|---|---|
| 80th (RGS) | 2 | 0 3 | 20 | 42 | 3 | 23 | 1 8 | 241 |
| 90th (RGS) | 5 | 0 4 | 40 | 54 | 6 | 33 | 3 | 322 |
| 95th (RGS) | 9 | 0 7 | 70 | 69 | 8 | 45 | 4 | 504 |
| 98th (RGS) | 32 | 0 9 | 150 | 94 | 13 | 60 | 7 5 | 773 |

(Hornbrook, 1988)

### 8.2 Soil Geochemistry

During the second phase of the program two contour soil lines were established in an attempt to locate the source area of the anomalous silt samples Percentile levels shown in Table 8 2 1 indicate high concentrations in both base and precious metals Two distinct anomalies are defined by the results shown in Figures 5a-e The western end of the 4400' contour line is strongly anomalous in Au with a weak Pb association Another anomaly trends north-south between the two contour lines towards the eastern ends This anomaly is defined by strongly coincident Cu-Pb-Zn and slightly less coincident Mo and Ag The Au anomaly is likely underlain by unaltered and unmineralized meta-diorites (GNSqfh) of the Pelly Orthogneiss, although some float boulders of suspected felsic meta-volcanic were also noted The strong north-south trending base metal soil anomaly is associated with sparse exposures of phyllites (intermediate volcanic?) (PHYqm) and float of possible felsic metavolcanic Prospecting in Rolls Creek did not identify any mineralization likely to have produced the soil anomaly

**Table 8 2 1**
**Soil Geochemistry Percentiles**

| Percentile Level Level | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag Ppm | As ppm | Au ppb |
|---|---|---|---|---|---|---|---|
| 99th | 10 7 | 108 | 309 | 344 | 5 3 | 184 | 95 |
| 98th | 9 2 | 93 | 273 | 317 | 3 7 | 174 | 65 |
| 95th | 7 2 | 73 | 196 | 270 | 2 1 | 124 | 35 |
| 90th | 5 6 | 60 | 136 | 221 | 1 6 | 95 | 23 |
| 80th | 3 8 | 39 | 84 | 153 | 1 0 | 60 | 10 |
| 75th | 3 6 | 34 | 64 | 134 | 0 9 | 48 | 9 |
| 50th | 2 2 | 22 | 38 | 82 | 0 4 | 26 | 2 |

## 9 0 DISCUSSION AND CONCLUSIONS

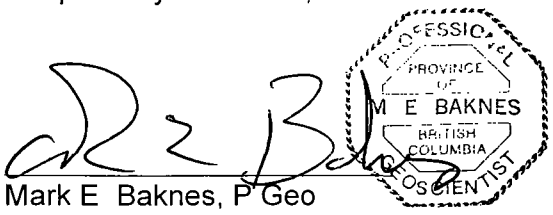
The initial work on the Simpson target area was successful in determining the presence of volcanic stratigraphy contrary to the regional mapping The information gained from this year's program is insufficient to place the Simpson stratigraphy into the newly-defined Yukon Tanana stratigraphy of the Finlayson district As mentioned earlier, however, the juxtaposition of volcanic stratigraphy adjacent to a large expanse of Slide Mountain Terrane in both the Simpson and Wolverine deposit areas may be an indication of a similar stratigraphic setting

Results of the silt and soil geochemistry indicate the existence of mineralization in the Rolls and Long Creek drainages Stratigraphy or foliation as defined by a few scattered measurements is inconsistent whereas regional units trend NW-SE Unfortunately, without knowledge of the attitude of the local units, it is not possible to define a relationship between the N-S trending soil geochemical anomaly and stratigraphy

The Simpson target was based on the occurrence of anomalous RGS silt geochemistry within a poorly-understood belt of rocks that had a reasonable probability of being equivalent to favourable units in the Finlayson VMS district Work on the Simpson has since confirmed that the geology is permissive for VMS mineralization and there is evidence of the existence of felsic volcanic units Silt and soil results are highly anomalous in a suite of elements consistent with VMS-style mineralization and they are at levels considered anomalous in the Finlayson district Unfortunately, the limited program did not identify the source of the geochemical anomalies

On the basis of these positive results it is recommended that more detailed geochemical and geological surveys be conducted to identify the source of the anomalies

Respectfully submitted,

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December 2002

# APPENDIX A

## BIBLIOGRAPHY

## BIBLIOGRAPHY

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## APPENDIX B

## ROCK SAMPLE DESCRIPTIONS

### MINERALS AND ALTERATION TYPES

| | | | | | |
|---|---|---|---|---|---|
| AK | ankerite | AL | alunite | AS | arsenopyrite |
| AU | native gold | AZ | azurite | BA | barite |
| BI | biotite | BO | bornite | BT | pyrobitumen |
| CA | calcite | CB | Fe-carbonate | CC | chalcocite |
| CD | chalcedony | CL | chlorite | CP | chalcopyrite |
| CV | covellite | CY | clay | DO | dolomite |
| EN | enargite | EP | epidote | GE | goethite |
| GL | galena | GR | graphite | HE | hematite |
| HS | specularite | HZ | hydrozincite | JA | jarosite |
| KF | potassium feldspar | MC | malachite | MG | magnetite |
| MN | Mn-oxides | MO | molybdenite | MR | mariposite/fuchsite |
| MS | sericite | MT | marcasite | MU | muscovite |
| NE | neotocite | PA | pyrargyrite | PL | pyrolusite |
| PO | pyrrhotite | PY | pyrite | QZ | quartz veining |
| RE | realgar | RN | rhodonite | SB | stibnite |
| SD | siderite | SI | silicification | SM | smithsonite |
| SP | sphalerite | SR | scorodite | TR | tremolite |
| TT | tetrahedrite | | | | |

### ALTERATION INTENSITY

| | | | | | |
|---|---|---|---|---|---|
| m | moderate | s | strong | tr | trace |
| vs | very strong | w | weak | | |

# Rock Sample Descriptions

**Project Name:** Simpson Range **Project:** RFM02-15 **NTS.** 105A/13

| Sample Number | Grid North | N | Grid East | E | Type | Float | Alteration | mMS | Au (ppb) | Ag (ppm) | As (ppm) | Bi (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 275901 Simpson | UTM 6745633 14 | N | UTM 449062 26 | E | Strike Length Exp | | Metallics | 1-2%PY | 23 | < 3 | 4 | < 3 |
| | Elevation 3494 | ft | Sample Width | | True Width | | Secondaries | sJA | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
| | | | | | Host | Quartz-sericite schist | | | 8 | 2 | 3 | 7 |
| Sampled By TB 14-Jun-02 | Float taken in main creek bed | | | | | | | | | | | |

| Sample Number | Grid North | N | Grid East | E | Type | Grab | Alteration | sQZ | Au (ppb) | Ag (ppm) | As (ppm) | Bi (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 275902 Simpson | UTM 6746857 4 | N | UTM 449514 56 | E | Strike Length Exp | | Metallics | 2-3%PY | 7 | < 3 | 2 | < 3 |
| | Elevation 1200 | m | Sample Width 25 | cm | True Width | cm | Secondaries | sGE, sJA, mMN | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
| | | | | | Host | Quartz schist | | | 8 | 4 | 31 | 23 |
| Sampled By TB 14-Jun-02 | Taken in outcrop on east side of creek 5 m wide exposure with pyrite, goethite, jarosite and manganese oxides | | | | | | | | | | | |

| Sample Number | Grid North | N | Grid East | E | Type | Grab | Alteration | sMS, sQZ | Au (ppb) | Ag (ppm) | As (ppm) | Bi (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 275903 Simpson | UTM 6748806 | N | UTM 451045 6 | E | Strike Length Exp | | Metallics | >1-1% PY | < 2 | < 3 | 20 | < 3 |
| | Elevation 4625 | ft | Sample Width 50 | cm | True Width | | Secondaries | sGE, sJA, sMN | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
| | | | | | Host | Quartz sericite schist | | | 24 | 2 | 8 | 23 |
| Sampled By TB 14-Jun-02 | Grab from 3 m exposure on east side of creek Strong sericite and quartz alteration with some pyrite | | | | | | | | | | | |

| Sample Number | Grid North | N | Grid East | E | Type | Float | Alteration | sMS, sQZ | Au (ppb) | Ag (ppm) | As (ppm) | Bi (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 275904 Simpson | UTM 6749250 78 | N | UTM 451096 32 | E | Strike Length Exp | | Metallics | 2-3% PY | 8 | < 3 | 134 | < 3 |
| | Elevation 4757 | ft | Sample Width | | True Width | | Secondaries | sGE, mJA, sMN | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
| | | | | | Host | Schist | | | 41 | 1 | 5 | 72 |
| Sampled By TB 14-Jun-02 | Taken from one angular float rock in creek bed | | | | | | | | | | | |

| Sample Number | Grid North | N | Grid East | E | Type | Float | Alteration | sQZ | Au (ppb) | Ag (ppm) | As (ppm) | Bi (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 275929 Simpson | UTM 6750218 15 | N | UTM 451620 71 | E | Strike Length Exp | | Metallics | trPY | 1 6 | < 3 | 15 | < 3 |
| | Elevation 4220 | ft | Sample Width | | True Width | | Secondaries | mGE, m JA | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
| | | | | | Host | Schist | | | 26 | 5 | 15 | 20 |
| Sampled By TB 16-Jul-02 | Taken in upper creek bed Tarnished pyrite plus some suspicious blue dots | | | | | | | | | | | |

| Sample Number | Grid North | N | Grid East | E | Type | Float | Alteration | sCL, sQZ | Au (ppb) | Ag (ppm) | As (ppm) | Bi (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 275930 Simpson | UTM 6750257 64 | N | UTM 451651 01 | E | Strike Length Exp | | Metallics | 5-7% PY | 15 7 | 3 1 | 192 | 6 |
| | Elevation 4200 | ft | Sample Width | | True Width | | Secondaries | sGE, wJA | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
| | | | | | Host | Schist | | | 414 | 10 | 207 | 159 |
| Sampled By TB 16-Jul-02 | Taken 20 metres downstream from 275929 Good pyrite Grab from three float rocks | | | | | | | | | | | |

# Rock Sample Descriptions

**Project Name:** Simpson Range **Project:** RFM02-15 **NTS:** 105A/13

| Sample Number | Grid North | N | Grid East | E | Type Float | Alteration sQZ | Au (ppb) | Ag (ppm) | As (ppm) | Bi (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|
| **275931 Simpson** | UTM 6750669 38 | N | UTM 451948 96 | E | Strike Length Exp | Metallics 1-2% PY | 2 3 | < 3 | 167 | < 3 |
| | Elevation 3980 | ft | Sample Width | | True Width | Secondaries mGE, mJA | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
| | | | | | Host Schist | | 21 | 3 | 21 | 38 |
| Sampled By TB 16-Jul-02 | Taken lower down on the same creek as 275930 | | | | | | | | | |

| Sample Number | Grid North | N | Grid East | E | Type Float | Alteration sMS, sQZ | Au (ppb) | Ag (ppm) | As (ppm) | Bi (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|
| **275932 Simpson** | UTM 6750912 94 | N | UTM 452185 43 | E | Strike Length Exp | Metallics trPY | 1 1 | < 3 | 3 | < 3 |
| | Elevation 3770 | ft | Sample Width | | True Width | Secondaries mGE, mJA | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
| | | | | | Host Schist | | 14 | 4 | 27 | 22 |
| Sampled By TB 16-Jul-02 | Taken farther down the creek from 275931 | | | | | | | | | |

| Sample Number | Grid North | N | Grid East | E | Type Float | Alteration sMS, sQZ | Au (ppb) | Ag (ppm) | As (ppm) | Bi (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|
| **275933 Simpson** | UTM 6750837 45 | N | UTM 452782 21 | E | Strike Length Exp | Metallics 2-3% PY | 1 6 | < 3 | 4 | < 3 |
| | Elevation 3620 | ft | Sample Width | | True Width | Secondaries mGE, mJA | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
| | | | | | Host Schist | | 28 | 2 | 11 | 50 |
| Sampled By TB 16-Jul-02 | Taken in next creek to the south from 275932 | | | | | | | | | |

| Sample Number | Grid North | N | Grid East | E | Type Float | Alteration mCB, wCL, wSI | Au (ppb) | Ag (ppm) | As (ppm) | Bi (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|
| **275951 Simpson** | UTM 6749958 92 | N | UTM 449717 1 | E | Strike Length Exp | Metallics | 2 | < 3 | 3 | < 3 |
| | Elevation 4360 | ft | Sample Width | | True Width | Secondaries | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
| | | | | | Host Quartz-feldspar augen gneiss | | 4 | 1 | < 3 | 18 |
| Sampled By MEB 14-Jun-02 | Large slab boulder of bleached rock, strong cataclastic fabric with 1-5 mm milky quartz fragments in a white chalky feldspar matrix Looks like sheared equivalent to gneiss No visible sulphides | | | | | | | | | |

| Sample Number | Grid North | N | Grid East | E | Type Float | Alteration wCB, wMS, sQZ | Au (ppb) | Ag (ppm) | As (ppm) | Bi (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|
| **275952 Simpson** | UTM 6750028 63 | N | UTM 449736 83 | E | Strike Length Exp | Metallics trPY | 2 | < 3 | < 2 | < 3 |
| | Elevation 4360 | ft | Sample Width | | True Width | Secondaries mGE | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
| | | | | | Host Fine-grained felsic intrusive | | 6 | 3 | 26 | 7 |
| Sampled By MEB 14-Jun-02 | 30 x 40 cm isolated boulder Fine- to medium-grained felsic rock Intrusive cut by silica and quartz veining with minor sericite alteration Gossanous Trace pyrite | | | | | | | | | |

| Sample Number | Grid North | N | Grid East | E | Type Float | Alteration wMS, wQZ | Au (ppb) | Ag (ppm) | As (ppm) | Bi (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|
| **275953 Simpson** | UTM 6751291 62 | N | UTM 452730 08 | E | Strike Length Exp | Metallics 3%PO, 1%PY | 13 | < 3 | 39 | < 3 |
| | Elevation 3540 | ft | Sample Width | | True Width | Secondaries mGE | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
| | | | | | Host Buff quartzite augen gneiss | | 98 | 3 | 10 | 41 |
| Sampled By MEB 14-Jun-02 | 30 x 10 cm sub-rounded boulder in creek Light grey-buff, rusty weathering, slabby foliation Wispy bands of quartz and feldspar with 5-7% subeuhedral quartz augens or eyes Wispy lenses of pyrrhotite with trace pyrite Could be meta-felsic volcanic | | | | | | | | | |

# Rock Sample Descriptions

**Project Name.** Simpson Range **Project:** RFM02-15 **NTS:** 105A/13

| Sample Number | Grid North | N | Grid East | E | Type | Grab | Alteration | wQZ | Au (ppb) | Ag (ppm) | As (ppm) | Bi (ppm) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 275954 Simpson | UTM 6750691 08 | N | UTM 451962 36 | E | Strike Length Exp | | Metallics | trPY | 6 | 0 6 | 27 | 3 |
| | Elevation 4000 | ft | Sample Width | | True Width | | Secondaries | mGE | Cu (ppm) | Mo (ppm) | Pb (ppm) | Zn (ppm) |
| | Foliation 025°/23° W | | | | Host | Fine-grained siliceous phyllite (rhyolite?) | | | 27 | 22 | 38 | 63 |
| Sampled By MEB 14-Jun-02 | Outcrop, well-foliated platy siliceous phyllite Could be felsic tuff or cherty tuff Minor pyrite along 15 cm band | | | | | | | | | | | |

# APPENDIX C

## CERTIFICATES OF ANALYSIS

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(IS 9002 Accredited Co.)

# GEOCHEMICAL ANALYSIS CERTIFICATE

**Equity Engineering Ltd.** PROJECT RFM02-15 File # A201781

700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: MARK BAKNES

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | AuAA ppb | Au** ppb |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-1 | 2 | 3 | 3 | 35 | <.3 | 4 | 4 | 507 | 1 80 | <2 | <8 | <2 | 4 | 76 | < 2 | <3 | <3 | 38 | 51 | 083 | 7 | 17 | .48 | 219 | 12 | <3 | 78 | 08 | .43 | 3 | <5 | 4 |
| 02MB-1 | 1 | 31 | 40 | 142 | 1 2 | 13 | 8 | 457 | 1 59 | 4 | 10 | <2 | 3 | 28 | 1 0 | <3 | <3 | 20 | 52 | 055 | 30 | 18 | 38 | 248 | 02 | <3 | 1 01 | 01 | .10 | 3 | 5 | 10 |
| 02MB-2 | 1 | 26 | 34 | 165 | .9 | 10 | 10 | 511 | 1 58 | 6 | 13 | <2 | 4 | 38 | 1 9 | <3 | <3 | 18 | 58 | 056 | 33 | 17 | 39 | 295 | 03 | <3 | 1.07 | 01 | 12 | 3 | 8 | 5 |
| 02MB-3 | 3 | 39 | 43 | 167 | 9 | 13 | 12 | 574 | 2.21 | 6 | 18 | <2 | 5 | 41 | 1 2 | <3 | <3 | 20 | 51 | 056 | 30 | 22 | 49 | 349 | .03 | <3 | 1.13 | 01 | .13 | 4 | <5 | 10 |
| 02MB-4 | 6 | 61 | 57 | 519 | 7 | 52 | 16 | 791 | 2.71 | 50 | <8 | <2 | 10 | 26 | 3 6 | <3 | <3 | 21 | 37 | 062 | 48 | 32 | 67 | 347 | .01 | <3 | 1 14 | 01 | 10 | <2 | <5 | 12 |
| 02MB-5 | 8 | 77 | 76 | 555 | 1 0 | 52 | 15 | 749 | 2 99 | 65 | <8 | <2 | 9 | 29 | 3 3 | <3 | 4 | 20 | 41 | .071 | 63 | 28 | .67 | 354 | 01 | <3 | 1 28 | 01 | .09 | <2 | <5 | 3 |
| RE 02MB-5 | 7 | 77 | 70 | 549 | 1 0 | 50 | 15 | 736 | 2 98 | 64 | <8 | <2 | 8 | 29 | 3 3 | <3 | 5 | 20 | 41 | 070 | 63 | 27 | 66 | 335 | .01 | <3 | 1 26 | 01 | 09 | <2 | - | - |
| 02MB-6 | 8 | 108 | 89 | 732 | 1 2 | 55 | 17 | 713 | 3 15 | 71 | <8 | <2 | 9 | 39 | 4 8 | <3 | 7 | 21 | 56 | 089 | 90 | 23 | 66 | 455 | <.01 | <3 | 1 35 | 01 | 09 | <2 | 7 | 5 |
| 02MB-7 | 5 | 110 | 105 | 674 | 1 6 | 48 | 17 | 843 | 3 25 | 76 | 8 | <2 | 7 | 57 | 3 7 | <3 | 5 | 17 | 53 | 081 | 92 | 22 | 58 | 514 | 01 | <3 | 1 30 | 01 | .13 | <2 | 6 | 7 |
| S1-TB | 2 | 45 | 46 | 233 | 4 | 27 | 9 | 572 | 1.70 | 14 | <8 | <2 | 6 | 23 | 1 6 | <3 | <3 | 16 | 34 | 049 | 27 | 30 | .39 | 376 | 03 | <3 | 79 | 01 | .10 | <2 | 8 | <2 |
| S2-TB | 2 | 50 | 59 | 242 | 8 | 27 | 9 | 567 | 1 60 | 16 | <8 | <2 | 7 | 24 | 1 5 | <3 | <3 | 15 | 34 | 055 | 29 | 29 | .32 | 397 | 02 | <3 | .76 | .01 | 11 | <2 | <5 | 2 |
| S3-TB | 3 | 84 | 112 | 439 | 1 4 | 10 | 7 | 638 | 1 50 | 15 | <8 | <2 | 6 | 27 | 3 3 | <3 | <3 | 10 | 34 | 060 | 42 | 10 | .19 | 447 | .02 | <3 | 79 | .01 | 16 | <2 | <5 | 5 |
| S4-TB | 6 | 200 | 93 | 391 | 2 9 | 10 | 7 | 667 | 1.52 | 19 | 15 | <2 | 3 | 25 | 4 1 | <3 | 3 | 11 | .33 | .078 | 39 | 11 | 19 | 289 | .01 | <3 | 80 | .01 | 17 | <2 | <5 | 2 |
| S5-TB | 2 | 40 | 86 | 379 | 2 0 | 17 | 11 | 838 | 2 04 | 31 | <8 | <2 | <2 | 27 | 3 8 | <3 | 13 | 16 | 30 | 078 | 29 | 14 | 24 | 391 | .02 | <3 | 98 | .01 | 14 | <2 | <5 | <2 |
| STANDARD DS3/AU-S | 11 | 116 | 36 | 143 | 4 | 35 | 12 | 806 | 3 01 | 32 | <8 | <2 | 3 | 28 | 5 2 | 4 | 3 | 71 | .52 | .086 | 16 | 178 | 57 | 148 | 09 | 3 | 1.64 | 04 | .15 | 5 | 46 | 52 |

GROUP 1D - 0 50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES
UPPER LIMITS - AG, AU, HG, W = 100 PPM, MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM, CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE SILT SS80 60C AUAA GROUP 3B - 30.00 GM SAMPLE BY AA FINISHED
AU** GROUP 3B - 30 00 GM SAMPLE BY FIRE ASSAY & ANALYSIS BY ICP-ES Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns

**DATE RECEIVED:** JUN 19 2002 **DATE REPORT MAILED:** June 27/02 **SIGNED BY** ..... D TOYE, C LEONG, J. WANG, CERTIFIED B C ASSAYERS



Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(IS 9002 Accredited Co.)

# GEOCHEMICAL AN. SIS CERTIFICATE

Equity Engineering Ltd. PROJECT RFM02-15 File # A201782

700 - 700 W. Pender St , Vancouver BC V6C 1G8 Submitted by. MARK BAKNES

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | AuAA ppb | Au** ppb |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SI | <1 | 3 | 3 | 5 | < 3 | 1 | <1 | 13 | 05 | <2 | <8 | <2 | <2 | 4 | < 2 | <3 | <3 | <1 | 15 | 001 | <1 | 7 | 01 | 4< | 01 | <3 | .01 | .61 | 01 | <2 | <5 | 3 |
| 275901 | 2 | 8 | 3 | 7 | < 3 | 3 | 1 | 82 | 48 | 4 | <8 | <2 | <2 | 3 | <.2 | <3 | <3 | 3 | 03 | 002 | 13 | 44 | .01 | 766< | 01 | <3 | 21 | 07 | 14 | 3 | 25 | 21 |
| 275902 | 4 | 8 | 31 | 23 | < 3 | 4 | 2 | 56 | 1 82 | 2 | <8 | <2 | 10 | 36 | <.2 | <3 | <3 | 17 | 23 | 034 | 12 | 39 | 08 | 260 | 15 | 4 | .27 | .08 | 17 | 3 | 10 | 4 |
| 275903 | 2 | 24 | 8 | 23 | < 3 | 3 | 7 | 176 | 1.72 | 20 | <8 | <2 | 3 | 42 | <.2 | <3 | <3 | 11 | 48 | 121 | 10 | 30 | 24 | 419 | 13 | 3 | .69 | 02 | 33 | 2 | <5 | <2 |
| 275904 | 1 | 41 | 5 | 72 | < 3 | 15 | 11 | 166 | 1 91 | 134 | <8 | <2 | 8 | 79 | 3 | <3 | <3 | 11 | 50 | 044 | 11 | 33 | 50 | 187 | 10 | 3 | 94 | 03 | .26 | 3 | 10 | 6 |
| 275951 | 1 | 4 | <3 | 18 | < 3 | 6 | 3 | 178 | .91 | 3 | <8 | <2 | 9 | 89 | <.2 | <3 | <3 | 12 | 71 | 038 | 15 | 38 | 41 | 52 | 10 | 3 | 92 | .05 | .10 | 2 | <5 | 2 |
| 275952 | 3 | 6 | 26 | 7 | < 3 | 3 | 2 | 80 | .86 | <2 | <8 | <2 | 43 | 4 | <.2 | <3 | <3 | 3 | 01 | 007 | 5 | 46 | 01 | 27 | 02 | <3 | .22 | .12 | .07 | 3 | <5 | 2 |
| 275953 | 3 | 98 | 10 | 41 | < 3 | 9 | 16 | 224 | 2 81 | 39 | <8 | <2 | 8 | 47 | < 2 | <3 | <3 | 20 | .88 | .053 | 25 | 43 | 1 07 | 211 | .15 | 5 | 1.89 | 02 | 22 | 4 | 15 | 11 |
| 275954 | 22 | 27 | 38 | 63 | 6 | 49 | 3 | 175 | 1 23 | 27 | <8 | <2 | 2 | 8 | 3 | <3 | 3 | 60 | .10 | 054 | 5 | 80 | 16 | 504< | 01 | 4 | .36< | 01 | 14 | 4 | 8 | 3 |
| STANDARD DS3/AU-R | 9 | 120 | 36 | 147 | < 3 | 37 | 13 | 848 | 3 15 | 33 | <8 | <2 | 3 | 30 | 5 4 | 6 | 5 | 74 | 55 | 090 | 18 | 181 | 58 | 152 | .10 | 3 | 1 72 | 04 | 16 | 5 | 470 | 473 |

GROUP 1D - 0 50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM, MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM, CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE ROCK R150 60C AUAA GROUP 3B - 30 00 GM SAMPLE BY AA FINISHED
AU** GROUP 3B - 30 00 GM SAMPLE BY FIRE ASSAY & ANALYSIS BY ICP-ES.

DATE RECEIVED: JUN 19 2002 DATE REPORT MAILED: June 27/02 SIGNED BY C. Leong ...D. TOYE, C LEONG, J WANG, CERTIFIED B C ASSAYERS



Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

# GEOCHEMICAL ANALYSIS CERTIFICATE

Equity Engineering Ltd. PROJECT RFM02-15 File # A202504 Page 1

700 - 700 W. Pender St , Vancouver BC V6C 1G8 Submitted by: Mark Baknes

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppb | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Hg ppm | Sc ppm | Tl ppm | S % | Ga ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-1 | 1 | 2 | 2.2 | 43 | < 1 | 4 | 0 | 3 | 8 | 516 | 1 | 87 | .9 | 2 | 9 | < 5 | 4 | 2 | 85 | < 1 | < 1 | 2 | 39 | .57 | 093 | 8 | 12 | 6 | 57 | 234 | .130 | 1 | 99 | .090 | 55 | 2 | 6 | 01 | 4.6 | 4< | 05 | 5 |
| CL40 0E | 1 | 8 | 33.4 | 40 | 0 | 85 | .6 | 20.5 | 7 | 4 | 273 | 4 | 33 | 14 | 8 | 1 | 6 | 7 | 6 | 1 | 9 | .4 | .4 | 2 | 1 | 43 | .04 | 113 | 15 | 35 | 3 | .56 | 84 | .032 | 1 | 2.01 | .005 | .10 | .3 | .05 | 2 | 3 | .2< | 05 | 6 |
| CL40 50E | 2 | 7 | 31 | 2 | 40 | 8 | 98 | .1 | 14 | 2 | 6.6 | 318 | 4 | 05 | 21 | 1 | 1 | 2 | 6 | 4 | 4 | 22 | 8 | 4 | 3.3 | 60 | 17 | 061 | 11 | 30 | 0 | 49 | 259 | 077 | 1 | 1 | 34 | 005 | 07 | 3 | .02 | 1 | 9 | 1<. | 05 | 7 |
| CL40 100E | 1.9 | 28 | 0 | 24 | 9 | 60 | 3 | 34 | 3 | 6 | 2 | 249 | 3.67 | 13 | 6 | 1.2 | 1 | 2 | 3 | 3 | 11 | 3 | 5 | 1 | 9 | 88 | 05 | 091 | 15 | 83 | 8 | .45 | 72 | 056 | <1 | 1 | 42 | .005 | .08 | 4 | .03 | 2.2 | .2<. | 05 | 10 |
| CL40 150E | 2 | 1 | 29 | 1 | 31 | 1 | 71 | .3 | 37 | 9 | 8 | 1 | 274 | 3 | 51 | 14 | 8 | 1.0 | .9 | 6.9 | 12 | 4 | 4 | 1 | 6 | 62 | 06 | 055 | 16 | 78 | 9 | .57 | 97 | .063 | <1 | 1.47 | 005 | 09 | 3 | 02 | 2 | 5 | 2< | 05 | 7 |
| CL40 200E | 1 | 4 | 19 | 7 | 28 | 9 | 77 | .9 | 19 | 7 | 7 | 0 | 247 | 2 | 67 | 9 | 5 | 1 | 2 | <.5 | 9.2 | 11 | 4 | 4 | 1 | 2 | 38 | 07 | 041 | 16 | 31 | 8 | 44 | 98 | .021 | <1 | 1.92 | .005 | .12 | 3 | 03 | 2 | 8 | 2<. | 05 | 6 |
| CL40 250E | 1.3 | 29.4 | 40 | 5 | 66 | .3 | 14 | 7 | 7 | 1 | 391 | 5 | 53 | 16.0 | 1 | 9 | .7 | 11 | 4 | 12 | .3 | 4 | 2 | 2 | 59 | 06 | .186 | 11 | 29 | 8 | 50 | 65 | .064 | 1 | 1 | 82 | .005 | .09 | 3 | 03 | 1 | 9 | .2<. | 05 | 6 |
| CL40 250ED | 1 | 2 | 26 | 0 | 34 | 2 | 63 | 2 | 12 | 0 | 6.3 | 317 | 4 | 59 | 15.6 | 1 | 8 | < 5 | 12 | 5 | 12 | .2 | 4 | 2 | 6 | 61 | 06 | .162 | 12 | 24 | 1 | 44 | 59 | .063 | 1 | 1 | 55 | .005 | .10 | 2 | 03 | 2 | 3 | .2<. | 05 | 6 |
| CL40 300E | 2 | 7 | 42 | 3 | 48.3 | 116 | .5 | 29 | 5 | 6.8 | 335 | 4 | 01 | 19.7 | 1 | 5 | 2 | 3 | 12 | 7 | 18 | .2 | 6 | 1 | 7 | 48 | 05 | .125 | 24 | 33 | 6 | 49 | 89 | 023 | <1 | 1.42 | .004 | .08 | 3 | 02 | 2.1 | .1 | .06 | 5 |
| CL40 350E | 3 | 9 | 58 | 3 | 46 | 2 | 129 | 7 | 33 | 1 | 6.0 | 235 | 3 | 15 | 29.5 | 1 | 5 | 1.5 | 7.7 | 31 | .4 | 8 | 1 | 1 | 35 | 10 | 129 | 20 | 26 | 7 | .41 | 107 | 014 | 1 | 1 | 08 | 004 | 08 | 2 | .03 | 1.9 | .1 | .11 | 3 |
| CL40 400E | 1 | 7 | 15 | 4 | 29 | 1 | 50 | 1 | 2 | 15 | 8 | 4 | 3 | 210 | 4 | 15 | 13.5 | 9 | 2.2 | 7.6 | 9 | 3 | 5 | 1 | 7 | 46 | 05 | .154 | 16 | 40 | 7 | .28 | 60 | 026 | <1 | 1.29 | .004 | .08 | 4 | 04 | 2.0 | .1< | .05 | 6 |
| CL40 450E | 1.7 | 14 | 2 | 21 | 7 | 67 | 1 | 26 | 4 | 5 | 4 | 237 | 1 | 95 | 10.5 | 8 | 3 | 3 | 1 | 9 | 13 | .4 | 3 | 1 | 7 | 28 | 10 | .030 | 16 | 39 | 8 | .45 | 159 | 021 | <1 | 1.10 | .005 | .08 | 2 | 01 | 1 | 3 | .1< | .05 | 5 |
| CL40 500E | 2.3 | 16 | 5 | 24.4 | 51 | 2 | 9 | 1 | 4 | 6 | 183 | 2 | 07 | 8.6 | 1 | 1 | < 5 | 4 | 3 | 12 | .5 | .3 | 1 | 7 | 40 | 07 | .038 | 14 | 17 | 9 | 22 | 73 | .044 | 1 | 1.02 | .004 | .07 | 3 | .02 | 1 | 5 | .1< | .05 | 6 |
| CL40 550E | 1.4 | 13 | 8 | 23 | 6 | 64 | .3 | 22 | 6 | 5 | 2 | 228 | 2 | 93 | 14 | 9 | 7 | 1 | 2 | 6 | 0 | 9 | .1 | .4 | 2 | 0 | 37 | 06 | .050 | 16 | 39 | 2 | .44 | 82 | .025 | 2 | 1 | 42 | .004 | .07 | .3 | 02 | 1 | 9 | 1<. | 05 | 5 |
| CL40 600E | 1 | 6 | 17 | 7 | 30 | 2 | 57 | .1 | 17 | 0 | 4 | 9 | 249 | 3 | 20 | 14.2 | 9 | 8 | 7 | 5 | 9 | .3 | .4 | 2 | 1 | 51 | 05 | .075 | 15 | 32 | 5 | 36 | 90 | .043 | <1 | 1 | 35 | 004 | .08 | .3 | .02 | 2 | 0 | .2<. | 05 | 6 |
| RE CL40 600E | 1 | 6 | 16 | 7 | 30 | 4 | 61 | 1 | 17 | 9 | 4 | 9 | 245 | 3 | 05 | 14 | 8 | 9 | 6 | 7 | 6 | 9 | .3 | 5 | 2.0 | 49 | 05 | 077 | 15 | 34 | 2 | .35 | 93 | 041 | <1 | 1 | 37 | 004 | 07 | .3 | .03 | 2 | 0 | 1<. | 05 | 7 |
| CL40 650E | 1 | 4 | 16 | 1 | 22.9 | 77 | 3 | 26 | 5 | 5 | 5 | 191 | 3 | 16 | 12 | 8 | .8 | 1.6 | 6.5 | 9 | .2 | 4 | 2 | 0 | 41 | 03 | 068 | 17 | 42 | 0 | .42 | 125 | 032 | <1 | 1 | 33 | 004 | 07 | 3 | .02 | 2 | 0 | 1<. | 05 | 6 |
| CL40 700E | 1 | 2 | 15 | 9 | 23 | 4 | 61 | .8 | 41 | 2 | 6 | 5 | 220 | 3 | 13 | 13 | 4 | .8 | 3.4 | 5.4 | 10 | 2 | 5 | 1 | 9 | 41 | .05 | 062 | 17 | 65 | 0 | .49 | 82 | 033 | 1 | 1 | 31 | 005 | .07 | .3 | .02 | 1 | 6 | 1<. | 05 | 5 |
| CL40 750E | 2 | 2 | 34 | 3 | 29 | 0 | 80 | .5 | 28 | 8 | 6 | 1 | 237 | 3 | 07 | 21 | 3 | 1.1 | .9 | 6.6 | 17 | 6 | 6 | 2 | 0 | 43 | 09 | 054 | 23 | 40 | 0 | 43 | 98 | 030 | 1 | 1.12 | .005 | .12 | .3 | 03 | 1 | 7 | 1 | .06 | 5 |
| CL40 800E | 1 | 1 | 18 | 1 | 14 | 3 | 44 | 3 | 8 | 2 | 4 | 3 | 144 | 1 | 63 | 8 | 7 | 1.0 | < 5 | 2.2 | 9 | 4 | .4 | 1 | 9 | 38 | .06 | .041 | 13 | 13.8 | .19 | 52 | 030 | <1 | .85 | .005 | .08 | 2 | 01 | 1 | 0 | 2<. | 05 | 6 |
| CL40 850E | 1.1 | 12 | 0 | 17 | 2 | 48 | .1 | 15 | 2 | 4 | 9 | 173 | 1.77 | 7 | 4 | 7 | .5 | 4.0 | 14 | .3 | 3 | 1 | 3 | 38 | .07 | 029 | 11 | 27.3 | 31 | 67 | 040 | 1 | 87 | 004 | .10 | 2 | 02 | 1.7 | .1< | 05 | 4 |
| CL40 900E | 2.0 | 24.3 | 24.2 | 61 | 2 | 19 | 1 | 6 | 4 | 201 | 3.05 | 17 | 8 | 9 | < 5 | 4 | 7 | 14 | .3 | 5 | 1 | 8 | 35 | .07 | 043 | 16 | 30 | 0 | 37 | 85 | 034 | 1 | 1 | 04 | .005 | 09 | .3 | .02 | 1 | 8 | 1<. | 05 | 4 |
| CL40 900ED | 2 | 1 | 24 | 8 | 26 | 1 | 63 | 2 | 21.1 | 7 | 1 | 210 | 3 | 04 | 18 | 4 | 8 | 1 | 0 | 4 | 7 | 13 | .4 | 5 | 1 | 8 | 35 | .06 | 043 | 16 | 30 | 7 | 37 | 84 | 034 | <1 | 1 | 04 | 004 | 08 | .3 | .03 | 1 | 9 | 1< | 05 | 5 |
| CL40 950E | 2 | 8 | 26 | 6 | 30 | 8 | 88 | 1 | 37 | 3 | 11 | 6 | 467 | 2 | 47 | 18 | 9 | 1 | 0 | 2 | 8 | 2 | 6 | 16 | 6 | 4 | 1.6 | 37 | 08 | 041 | 17 | 58.5 | 61 | 140 | 026 | 1 | 1 | 11 | 005 | 10 | .2 | .02 | 1 | 8 | .1< | 05 | 4 |
| CL40 1000E | 4 | 9 | 29 | 7 | 22 | 5 | 92 | 3 | 48 | 5 | 7 | 9 | 239 | 2.94 | 20 | 8 | 7 | .5 | 3.3 | 36 | 4 | 5 | 2 | 1 | 44 | 24 | 037 | 18 | 83 | 5 | .69 | 147 | 020 | <1 | 1 | 38 | 005 | 09 | .3 | 03 | 2.1 | .1 | 06 | 5 |
| CL40 1050E | 4.3 | 23 | 7 | 35.1 | 100 | 2 | 19 | 4 | 8 | 8 | 424 | 2 | 48 | 27.9 | 1 | 3 | 2 | 4 | 3 | 1 | 9 | .7 | 5 | 4 | 2 | 32 | 04 | .031 | 21 | 42 | 6 | .35 | 130 | 021 | 1 | 1 | 14 | 005 | 06 | .2 | .02 | 1.6 | 1< | 05 | 5 |
| CL40 1100E | 2 | 6 | 23 | 1 | 20 | 9 | 81 | 3 | 20 | 8 | 4 | 0 | 180 | 1 | 55 | 12.2 | 14 | 7 | 1 | 4 | 1 | 8 | 48 | 3.0 | 5 | 1 | 7 | 27 | .25 | .026 | 50 | 50 | 0 | .23 | 762 | .018 | 4 | .84 | .003 | .06 | .2 | .03 | 1 | 3 | 1<. | 05 | 5 |
| CL40 1150E | 2 | 6 | 16 | 7 | 35 | 4 | 72 | 2 | 7 | 7 | 4 | 7 | 258 | 3 | 17 | 38 | 7 | 7 | 11 | 9 | 6 | 4 | 6 | 2 | .5 | 6.9 | 15 | .03 | 022 | 15 | 15 | 1 | 33 | 116 | .007 | 2 | 1 | 29 | 004 | .05 | 1 | .02 | 1 | 4 | 1<. | 05 | 4 |
| CL40 1200E | 3 | 3 | 15.6 | 30 | 7 | 59 | 2 | 5 | 7 | 3 | 8 | 242 | 2 | 63 | 45 | 9 | .7 | 10.4 | 2.4 | 6 | 2 | 6 | 8 | 3 | 22 | 03 | 034 | 13 | 11.4 | 24 | 59 | 015 | 1 | 1 | 00 | 004 | 05 | .2 | 02 | 1.2 | .1< | 05 | 4 |
| CL40 1250E | 2.9 | 20.3 | 33.1 | 72 | .1 | 6 | 5 | 4 | 1 | 229 | 3 | 11 | 48 | 1 | 8 | 1.9 | 6 | 5 | 7 | 2 | 7 | 7 | 5 | 19 | 03 | 030 | 16 | 11 | 0 | .24 | 89 | 020 | <1 | 1 | 14 | .004 | 06 | .2 | .02 | 1.4 | 1< | 05 | 4 |
| CL40 1300E | 2 | 7 | 17.9 | 29 | 9 | 75 | .1 | 5 | 8 | 3.9 | 260 | 3 | 69 | 39 | 9 | 7 | 10.1 | 5.1 | 7 | 1 | 6 | 10 | 8 | 14 | 01 | .027 | 14 | 12 | 5 | .28 | 113 | 023 | 1 | 1 | 23 | 004 | 05 | .2 | .02 | 1 | 6 | .1<. | 05 | 4 |
| CL40 1350E | 2 | 7 | 22 | 7 | 26 | 5 | 65 | .4 | 6 | 9 | 4 | 4 | 183 | 2 | 75 | 41 | 8 | 6 | 5 | 8 | 5 | 1 | 9 | .3 | 7 | 9 | 4 | 20 | 04 | 021 | 10 | 11 | 8 | .24 | 110 | 055 | <1 | .95 | 003 | 05 | .2 | .02 | 1 | 3 | 1< | 05 | 4 |
| CL40 1400E | 4.2 | 19 | 5 | 36 | 5 | 85 | .1 | 4 | 3 | 4 | 5 | 261 | 3 | 47 | 44.4 | 1 | 0 | 11.4 | 9 | 5 | 7 | .2 | 7 | 5 | 9 | 8 | 01 | .028 | 25 | 5 | 9 | 18 | 73 | .009 | 3 | 97 | 004 | .07 | 1 | 02 | 1.2 | .1 | .06 | 3 |
| CL40 1400ED | 3.8 | 22 | 2 | 44.7 | 111 | .2 | 4 | 8 | 4.8 | 312 | 3 | 93 | 47 | 4 | 1 | 0 | 8 | 8 | 9 | 0 | 8 | .3 | 7 | 6 | 5 | 9 | 01 | .025 | 20 | 7 | 4 | 29 | 85 | .014 | <1 | 1.16 | .005 | .07 | 1 | 02 | 1 | 4 | .1<. | 05 | 3 |
| STANDARD DS3 | 8 | 9 | 120.6 | 31 | 5 | 148 | .3 | 33 | 0 | 11 | 3 | 775 | 3 | 21 | 32 | 7 | 6 | 4 | 20 | 6 | 3 | 7 | 29 | 5.8 | 5 | 3 | 5 | 7 | 75 | 61 | .084 | 18 | 183 | 9 | 62 | 143 | .089 | 2 | 1 | 85 | .034 | 17 | 3 | 9 | 21 | 4 | 1 | 1.1< | 05 | 6 |

GROUP 1DA - 30 0 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS
UPPER LIMITS - AG, AU, HG, W = 100 PPM, MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM, CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE. SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

**DATE RECEIVED:** JUL 23 2002 **DATE REPORT MAILED:** Aug 2/02 **SIGNED BY.....** D. TOYE, C LEONG, J WANG, CERTIFIED B C ASSAYERS



Data FA

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppb | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Hg ppm | Sc ppm | Tl ppm | S % | Ga ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-1 | 13 | 17 | 22 | 42 | < 1 | 41 | 38 | 540 | 1 83 | 9 | 24 | 14 | 46 | 79 | < 1 | < 1 | 2 | 39 | 52 | 088 | 7 | 12 1 | 58 | 247 | 119 | 1 | 99 | 102 | 55 | 2 6 | < 01 | 51 | 4 | < 05 | 5 |
| CL40 1450E | 47 | 18 6 | 55 7 | 79 | 1 0 | 42 | 38 | 222 | 3 16 | 25 6 | 8 | 55 | 42 | 10 | 3 | 5 | 91 | 16 | 05 | 037 | 11 | 7 1 | 26 | 87 | 022 | 1 1 | 13 | 006 | 05 | 1 | 03 | 14 | 1 | < 05 | 4 |
| CL40 1500E | 22 | 30 1 | 83 5 | 140 | | 5 17 | 7 | 5 2 | 450 | 2 33 | 60 4 | 1 5 | 63 | 28 | 8 | 2 | 7 | 81 | 18 | 08 | 047 | 25 | 22 4 | 45 | 193 | 009 | 1 1 | 31 | 006 | 08 | 1 | 03 | 14 | 1 | < 05 | 4 |
| CL40 1550E | 36 | 41 7 | 43 0 | 65 | 9 | 8 6 | 34 | 87 | 1 60 | 33 8 | 1 5 | 30 | 10 | 6 | 2 | 6 | 34 | 14 | 02 | 055 | 19 | 8 3 | 16 | 130 | 006 | 2 | 98 | 005 | 05 | 2 | 03 | 7 | 1 | < 05 | 4 |
| CL40 1600E | 43 | 54 4 | 139 3 | 62 | 4 | 8 6 | 26 | 83 | 2 91 | 33 1 | 7 | 13 | 34 | 19 | 1 | 10 | 19 | 31 | 03 | 090 | 31 | 12 6 | 13 | 159 | 005 | 1 | 90 | 012 | 14 | 1 | 01 | 9 | 1 | 28 | 6 |
| CL40 1650E | 37 | 97 7 | 122 5 | 219 | 7 | 36 6 | 15 1 | 896 | 5 70 | 39 9 | 1 3 | 22 | 79 | 8 | 6 | 14 | 29 | 46 | 04 | 085 | 19 | 51 6 | 89 | 99 | 007 | 1 2 | 12 | 005 | 05 | 1 | 02 | 42 | 2 | < 05 | 9 |
| CL40 1700E | 10 7 | 49 0 | 235 2 | 211 | 9 | 14 5 | 87 | 421 | 3 66 | 81 3 | 2 0 | 88 | 164 | 175 | 9 | 16 | 17 | 5 | 06 | 075 | 61 | 7 0 | 20 | 437 | 002 | <1 | 77 | 007 | 44 | 1 | 02 | 10 | 2 | 71 | 2 |
| CL40 1750E | 66 | 111 2 | 58 6 | 296 | 9 | 54 2 | 24 9 | 1508 | 4 51 | 52 9 | 2 1 | 11 | 310 | 2 | 16 | 1 2 | 18 | 36 | 42 | 05 | 116 | 30 | 28 3 | 56 | 216 | 006 | <1 | 1 54 | 005 | 09 | 2 | 04 | 28 | 2 | 08 | 6 |
| CL40 1800E | 10 6 | 158 3 | 97 4 | 276 | 2 1 | 20 6 | 33 | 72 | 4 82 | 63 6 | 1 4 | 111 | 92 | 166 | 4 | 7 4 | 40 | 30 | 02 | 125 | 25 | 7 6 | 02 | 458 | 002 | <1 | 35 | 009 | 31 | 2 | 05 | 19 | 3 | 60 | 2 |
| CL40 1850E | 65 | 62 6 | 54 0 | 107 | 9 | 12 1 | 50 | 223 | 4 28 | 44 2 | 7 | 47 | 57 | 20 | 3 | 17 | 27 | 67 | 02 | 135 | 24 | 15 3 | 17 | 129 | 019 | <1 | 98 | 004 | 09 | 3 | 05 | 19 | 2 | 08 | 8 |
| CL40 1900E | 68 | 68 1 | 38 6 | 120 | 8 | 39 5 | 84 | 277 | 4 57 | 80 7 | 2 1 | 20 | 10 6 | 47 | 4 | 3 1 | 14 | 86 | 11 | 214 | 23 | 45 5 | 64 | 203 | 006 | <1 | 1 67 | 004 | 12 | 3 | 03 | 30 | 1 | 14 | 5 |
| CL40 1950E | 20 | 22 5 | 27 9 | 52 | 3 | 11 4 | 39 | 159 | 2 71 | 26 9 | 7 | 20 | 59 | 12 | 1 | 8 | 41 | 45 | 03 | 085 | 14 | 18 7 | 24 | 69 | 034 | <1 | 97 | 005 | 08 | 2 | 02 | 16 | 2 | < 05 | 6 |
| CL40 2000E | 39 | 32 9 | 30 2 | 75 | 4 | 9 3 | 40 | 145 | 3 77 | 51 1 | 7 | 16 | 70 | 9 | 2 | 1 1 | 86 | 47 | 02 | 089 | 17 | 14 0 | 18 | 70 | 034 | <1 | 1 00 | 004 | 07 | 3 | 01 | 15 | 2 | < 05 | 7 |
| CL40 2000ED | 44 | 37 6 | 37 5 | 89 | 5 | 10 1 | 40 | 162 | 3 85 | 51 9 | 8 | 11 | 68 | 6 | 3 | 1 2 | 90 | 40 | 03 | 086 | 15 | 14 6 | 24 | 68 | 032 | <1 | 1 12 | 005 | 06 | 2 | 01 | 14 | 1 | < 05 | 6 |
| CL40 2050E | 13 | 9 1 | 25 7 | 72 | 4 | 3 4 | 23 | 129 | 2 05 | 44 8 | 4 | 7 | 41 | 6 | 4 | 7 | 25 | 32 | 04 | 030 | 18 | 6 6 | 15 | 124 | 010 | <1 | 1 06 | 007 | 09 | 2 | 01 | 16 | 1 | < 05 | 5 |
| CL40 2100E | 16 | 13 5 | 22 3 | 63 | 1 | 40 | 25 | 77 | 1 35 | 82 9 | 4 | < 5 | 62 | 8 | 6 | 7 | 22 | 16 | 02 | 016 | 16 | 6 0 | 06 | 105 | 017 | <1 | 58 | 005 | 11 | 1 | < 01 | 11 | 1 | < 05 | 4 |
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| CL40 2200E | 30 | 27 1 | 63 2 | 89 | 9 | 37 | 30 | 255 | 2 31 | 95 7 | 1 1 | 10 | 24 | 48 | 8 | 9 | 35 | 8 | 07 | 054 | 36 | 5 1 | 10 | 269 | 005 | <1 | 62 | 010 | 24 | 1 | 03 | 10 | 2 | 17 | 2 |
| CL40 2250E | 33 | 27 6 | 81 6 | 190 | 3 | 12 1 | 81 | 312 | 3 12 | 185 3 | 1 0 | 16 | 95 | 19 | 9 | 1 1 | 77 | 20 | 09 | 028 | 21 | 13 8 | 26 | 227 | 010 | <1 | 1 13 | 005 | 15 | 2 | 02 | 19 | 2 | < 05 | 4 |
| RE CL40 2750E | 19 | 36 | 14 5 | 19 | 1 | 17 | 8 | 36 | 43 | 67 | 4 | 48 | 20 | 9 | 1 | 2 | 25 | 12 | 08 | 008 | 15 | 7 2 | 06 | 78 | 012 | <1 | 91 | 004 | 05 | 1 | 01 | 10 | 2 | < 05 | 6 |
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| CL40 2350E | 37 | 74 7 | 303 3 | 229 | 1 9 | 18 9 | 78 | 286 | 4 83 | 76 4 | 2 2 | 15 | 84 | 77 | 9 | 1 7 | 15 4 | 14 | 10 | 076 | 47 | 10 7 | 26 | 286 | 009 | <1 | 1 09 | 013 | 25 | 1 | 03 | 16 | 2 | 32 | 4 |
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| CL40 2500E | 29 | 67 0 | 115 4 | 124 | 1 7 | 15 3 | 74 | 252 | 4 95 | 46 9 | 2 6 | 55 | 95 | 105 | 5 | 1 7 | 14 4 | 21 | 13 | 075 | 31 | 15 9 | 50 | 291 | 123 | <1 | 1 21 | 021 | 50 | 2 | 03 | 30 | 7 | 52 | 4 |
| CL40 2550E | 21 | 61 7 | 109 8 | 180 | 1 0 | 18 7 | 94 | 361 | 4 23 | 39 1 | 2 2 | 63 | 86 | 43 | 5 | 1 1 | 84 | 19 | 23 | 068 | 35 | 18 8 | 82 | 202 | 099 | 1 1 | 44 | 011 | 55 | 1 | 04 | 27 | 9 | 18 | 5 |
| CL40 2600E | 35 | 12 0 | 53 2 | 71 | 5 | 22 | 20 | 67 | 1 00 | 13 2 | 1 0 | 16 | 4 | 44 | 8 | 4 | 30 | 10 | 46 | 026 | 24 | 2 9 | 06 | 501 | 007 | <1 | 91 | 006 | 08 | 2 | 02 | 9 | 2 | < 05 | 4 |
| CL40 2650E | 71 | 25 9 | 36 9 | 194 | 3 | 87 | 46 | 277 | 2 54 | 41 9 | 2 0 | 21 | 53 | 16 | 8 | 6 | 33 | 30 | 12 | 023 | 32 | 14 9 | 25 | 213 | 016 | <1 | 1 26 | 005 | 07 | 3 | 01 | 26 | 2 | < 05 | 6 |
| CL40 2700E | 54 | 19 3 | 30 8 | 168 | 1 | 13 5 | 56 | 230 | 2 15 | 97 2 | 1 3 | 13 | 36 | 29 | 6 | 6 | 26 | 30 | 24 | 023 | 16 | 22 0 | 28 | 138 | 028 | <1 | 94 | 006 | 08 | 2 | 01 | 21 | 1 | < 05 | 4 |
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| CL40 2850E | 41 | 62 2 | 132 3 | 239 | 5 4 | 54 | 77 | 383 | 2 78 | 110 2 | 10 3 | 63 | 19 | 45 | 2 1 | 9 | 12 4 | 16 | 56 | 078 | 188 | 13 1 | 31 | 448 | 012 | <1 | 1 39 | 013 | 09 | 2 | 10 | 29 | 2 | 06 | 3 |
| CL40 2900E | 31 | 88 4 | 85 4 | 250 | 4 | 16 4 | 89 | 330 | 2 86 | 126 9 | 7 2 | 28 | 95 | 23 | 8 | 1 0 | 83 | 24 | 16 | 023 | 55 | 22 1 | 51 | 230 | 023 | <1 | 1 46 | 006 | 13 | 3 | 03 | 32 | 2 | 06 | 4 |
| CL40 2950E | 14 | 9 9 | 23 9 | 44 | 8 | 42 | 17 | 85 | 1 13 | 21 1 | 6 | 10 | 44 | 5 | 1 | 6 | 34 | 20 | 02 | 016 | 20 | 7 3 | 07 | 98 | 016 | <1 | 80 | 004 | 07 | 2 | 02 | 12 | 2 | < 05 | 4 |
| STANDARD DS3 | 91 | 117 4 | 31 8 | 150 | 3 | 32 0 | 11 0 | 791 | 3 18 | 30 9 | 6 2 | 20 | 83 | 30 | 5 9 | 5 6 | 56 | 73 | 51 | 090 | 17 | 175 1 | 61 | 145 | 081 | 1 1 | 83 | 034 | 16 | 3 8 | 22 | 40 | 1 1 | < 05 | 6 |

Sample type SOIL SS80 60C Samples beginning RE are Reruns and RRE are Reject Reruns



Data FA

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppb | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Hg ppm | Sc ppm | Tl ppm | S % | Ga ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-1 | 15 | 23 | 27 | 41 | < 1 | 45 | 39 | 566 | 1 89 | 8 | 25 | 6 | 50 | 75 | < 1 | < 1 | 1 | 41 | 58 | 086 | 8 | 120 | 58 | 228 | 124 | 3 | 99 | 084 | 50 | 22 | 01 | 30 | 4 | < 05 | 4 |
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| CL44 50E | 20 | 13 | 0 | 20 | 8 44 | 2 | 10 | 7 | 34 | 147 | 2 30 | 11 6 | 8 | 1 | 3 | 1 | 6 | 7 | 1 | 5 | 24 | 62 | 06 | 044 | 20 | 26 | 0 | 18 | 56 | 039 | <1 | 1 03 | 004 | 06 | 2 | 02 | 12 | 1 | < 05 | 7 |
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| CL44 150E | 15 | 13 | 3 | 23 | 6 46 | 3 | 10 | 0 | 38 | 189 | 2 45 | 10 0 | 8 | 16 | 2 | 2 | 7 | 7 | 2 | 5 | 15 | 51 | 05 | 041 | 24 | 17 | 9 | 21 | 64 | 035 | 1 | 1 07 | 004 | 07 | 3 | 02 | 13 | 1 | < 05 | 6 |
| CL44 200E | 19 | 30 | 8 | 57 | 8 120 | 5 | 15 | 0 | 10 | 4 329 | 3 15 | 19 7 | 1 2 | 21 | 0 | 3 | 6 | 11 | 6 | 8 | 11 | 0 24 | 08 | 050 | 25 | 19 | 1 | 36 | 86 | 016 | 1 | 1 26 | 005 | 09 | 2 | 02 | 15 | 1 | < 05 | 3 |
| CL44 250E | 19 | 21 | 5 | 52 | 9 78 | 4 | 8 | 6 | 60 | 201 | 2 90 | 18 4 | 1 0 | 62 | 3 | 3 | 7 | 8 | 3 | 8 | 7 | 4 39 | 04 | 062 | 27 | 15 | 5 | 17 | 67 | 020 | 2 | 91 | 004 | 08 | 2 | 03 | 13 | 1 | < 05 | 5 |
| CL44 300E | 24 | 29 | 3 | 50 | 5 115 | 1 2 | 15 | 9 | 69 | 390 | 5 94 | 42 3 | 1 3 | 16 | 0 | 5 | 7 | 8 | 3 | 1 2 | 9 | 3 54 | 07 | 094 | 23 | 31 | 8 | 39 | 84 | 050 | 3 | 1 64 | 006 | 11 | 4 | 05 | 22 | 2 | < 05 | 7 |
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| CL44 400E | 21 | 38 | 2 | 48 | 4 166 | 2 | 23 | 1 | 89 | 330 | 3 98 | 22 4 | 1 0 | 26 | 2 | 6 | 7 | 12 | 7 | 1 5 | 2 | 8 43 | 06 | 062 | 23 | 35 | 5 | 63 | 131 | 043 | 2 | 1 60 | 005 | 10 | 3 | 02 | 24 | 2 | < 05 | 6 |
| CL44 450E | 22 | 24 | 7 | 60 | 9 304 | 4 | 14 | 2 | 71 | 313 | 2 91 | 28 1 | 1 0 | 34 | 5 | 2 | 0 | 13 | 1 4 | 8 | 8 | 4 31 | 08 | 039 | 21 | 22 | 7 | 39 | 141 | 023 | 1 | 1 22 | 005 | 10 | 3 | 03 | 15 | 2 | < 05 | 5 |
| CL44 500E | 14 | 17 | 7 | 23 | 3 68 | 3 | 12 | 8 | 41 | 169 | 2 19 | 11 4 | 8 | 34 | 8 | 2 | 6 | 10 | 7 | 6 | 3 | 9 47 | 07 | 045 | 16 | 23 | 2 | 21 | 79 | 055 | 1 | 85 | 006 | 08 | 2 | 02 | 13 | 1 | < 05 | 6 |
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| CL44 600E | 17 | 21 | 3 | 24 | 7 104 | 2 | 19 | 0 | 53 | 193 | 2 89 | 13 3 | 9 | 26 | 4 | 4 | 0 | 9 | 7 | 7 | 2 | 6 47 | 06 | 040 | 19 | 30 | 4 | 32 | 85 | 072 | 1 | 1 01 | 005 | 10 | 3 | 01 | 17 | 1 | < 05 | 6 |
| CL44 650E | 25 | 22 | 7 | 88 | 2 86 | 4 | 16 | 7 | 47 | 170 | 2 11 | 16 6 | 1 1 | 60 | 5 | 3 | 4 | 14 | 1 1 | 5 | 3 | 4 32 | 13 | 027 | 18 | 28 | 6 | 29 | 163 | 035 | 1 | 97 | 005 | 10 | 2 | 02 | 13 | 1 | < 05 | 5 |
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| CL44 750E | 24 | 20 | 5 | 29 | 6 155 | 3 | 10 | 7 | 61 | 332 | 1 86 | 6 9 | 2 1 | 104 | 4 | 1 | 4 | 17 | 8 | 3 | 1 | 1 27 | 18 | 040 | 20 | 17 | 3 | 40 | 120 | 019 | <1 | 1 16 | 008 | 08 | 3 | 02 | 13 | 1 | < 05 | 5 |
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| RE CL44 800E | 44 | 40 | 0 | 34 | 3 149 | 1 5 | 11 | 0 | 39 | 360 | 1 55 | 19 9 | 2 7 | 14 | 8 | 5 | 47 | 1 9 | 4 | 2 | 7 | 19 1 | 01 | 066 | 30 | 15 | 0 | 25 | 331 | 010 | 2 | 1 02 | 013 | 06 | 2 | 06 | 10 | 1 | 06 | 4 |
| CL44 850E | 58 | 17 | 5 | 47 | 0 36 | 4 | 3 | 9 | 18 | 67 | 1 00 | 38 1 | 7 | 67 | 8 | 1 | 6 | 4 | 3 | 4 | 1 | 15 | 04 | 031 | 11 | 7 | 6 | 10 | 40 | 008 | <1 | 49 | 006 | 03 | 1 | 02 | 3 | 1 | < 05 | 3 |
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| CL44 950E | 72 | 20 | 6 | 23 | 0 51 | 1 | 9 | 6 | 37 | 137 | 2 46 | 46 5 | 8 | 28 | 2 | 3 | 4 | 10 | 2 | 7 | 7 | 1 46 | 12 | 029 | 14 | 16 | 7 | 17 | 90 | 044 | 1 | 79 | 004 | 05 | 3 | < 01 | 8 | 1 | < 05 | 7 |
| CL44 1000E | 77 | 12 | 2 | 18 | 0 33 | 4 | 4 | 3 | 26 | 252 | 1 79 | 11 5 | 2 2 | 1 | 6 | 1 | 4 | 32 | 7 | 4 | 2 | 9 17 | 67 | 044 | 43 | 7 | 6 | 08 | 191 | 007 | <1 | 93 | 005 | 05 | 2 | 03 | 9 | 1 | < 05 | 5 |
| CL44 1050E | 40 | 5 | 0 | 11 | 9 26 | 2 | 1 | 9 | 20 | 230 | 1 41 | 5 2 | 9 | 1 | 9 | 4 | 0 | 4 | 2 | 2 | 1 | 7 10 | 02 | 011 | 17 | 4 | 5 | 13 | 131 | 007 | <1 | 79 | 013 | 04 | 1 | 02 | 6 | 1 | < 05 | 3 |
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| CL44 1350E | 15 | 5 | 9 | 12 | 4 27 | 1 | 1 | 9 | 9 | 37 | 76 | 178 1 | 4 | 6 | 3 | 0 | 4 | 2 | 5 | 1 | 7 | 12 | 02 | 014 | 18 | 3 | 1 | 03 | 66 | 005 | <1 | 81 | 005 | 07 | 1 | 02 | 4 | 2 | < 05 | 5 |
| CL44 1400E | 75 | 55 | 1 | 63 | 2 149 | 1 0 | 6 | 6 | 35 | 360 | 1 55 | 97 1 | 41 9 | 5 | 3 | 1 | 5 | 50 | 1 9 | 4 | 2 | 3 12 | 80 | 090 | 65 | 12 | 3 | 20 | 395 | 008 | <1 | 1 40 | 015 | 05 | 1 | 14 | 1 3 | 1 | < 05 | 4 |
| CL445 1700W | 21 | 39 | 0 | 61 | 7 85 | 4 | 10 | 5 | 16 | 6 882 | 4 31 | 23 7 | 1 0 | 1 | 8 | 2 | 3 | 5 | 5 | 1 3 | 11 | 7 32 | 08 | 078 | 13 | 15 | 5 | 65 | 66 | 011 | <1 | 1 85 | 004 | 04 | 2 | 03 | 1 5 | 1 | < 05 | 6 |
| CL445 1650W | 25 | 31 | 7 | 70 | 9 85 | 1 0 | 6 | 0 | 79 | 705 | 1 63 | 93 9 | 1 1 | 3 | 4 | 1 | 4 | 12 | 8 | 7 | 19 | 9 7 | 17 | 075 | 12 | 8 | 2 | 30 | 82 | 007 | <1 | 92 | 010 | 05 | 1 | 05 | 7 | 1 | < 05 | 3 |
| STANDARD DS3 | 91 | 123 | 1 | 31 | 4 160 | 3 | 33 | 5 | 11 | 3 799 | 3 31 | 31 3 | 6 4 | 18 | 9 | 4 | 0 | 29 | 6 1 | 5 | 2 | 5 3 | 77 | 54 | 083 | 18 | 174 | 8 | 62 | 142 | 092 | 2 | 1 75 | 034 | 17 | 4 | 0 | 23 | 3 | 8 | 1 2 | < 05 | 6 |

Sample type SOIL SS80 60C Samples beginning RE are Reruns and RRE are Reject Reruns



Data FA

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppb | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Hg ppm | Sc ppm | Tl ppm | S % | Ga ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-1 | 1 3 | 2 9 | 3 2 | 40 | < 1 | 4 1 | 3 8 | 510 | 1 80 | 1 3 | 2 0 | 8 | 4 2 | 80 | < 1 | < 1 | 2 | 36 | 54 | 091 | 7 | 12 1 | 56 | 215 | 124 | 1 | 91 | 087 | 49 | 1 8 | < 01 | 3 2 | 3 | < 05 | 5 |
| CL445 1600W | 3 4 | 40 4 | 102 6 | 142 | 2 1 | 5 8 | 10 4 | 1898 | 5 04 | 56 3 | 1 3 | 12 3 | 20 6 | 7 | 8 | 7 | 26 6 | 9 | 11 | 051 | 59 | 5 6 | 44 | 179 | 004 | <1 | 1 95 | 004 | 07 | 1 | 04 | 2 5 | 1 | < 05 | 5 |
| CL445 1550W | 3 1 | 27 0 | 24 9 | 35 | 5 | 3 5 | 3 6 | 206 | 2 02 | 13 8 | 8 | 3 5 | 2 0 | 3 | 1 | 5 | 7 1 | 18 | 01 | 037 | 11 | 5 3 | 13 | 58 | 007 | <1 | 1 01 | 004 | 04 | 2 | 02 | 6 | 1 | < 05 | 5 |
| CL445 1500W | 3 2 | 24 2 | 77 2 | 151 | 1 3 | 5 8 | 7 8 | 1459 | 4 30 | 17 7 | 1 7 | 9 0 | 16 0 | 9 | 7 | 5 | 18 7 | 11 | 13 | 050 | 50 | 5 6 | 45 | 156 | 001 | <1 | 1 75 | 005 | 09 | 1 | 02 | 3 1 | 1 | < 05 | 5 |
| CL445 1450W | 2 7 | 16 2 | 29 2 | 50 | 1 | 4 2 | 3 2 | 170 | 2 08 | 56 5 | 8 | 2 8 | 1 8 | 6 | 2 | 8 | 11 4 | 20 | 02 | 034 | 18 | 6 4 | 08 | 53 | 011 | <1 | 80 | 005 | 05 | 2 | 02 | 8 | 2 | < 05 | 5 |
| CL445 1400W | 3 3 | 13 0 | 53 6 | 95 | 3 | 7 7 | 3 4 | 271 | 2 06 | 30 0 | 9 | 7 7 | 4 4 | 8 | 4 | 6 | 4 9 | 13 | 04 | 034 | 28 | 10 0 | 17 | 132 | 009 | <1 | 89 | 005 | 06 | 1 | 03 | 1 1 | 1 | < 05 | 3 |
| CL445 1350W | 1 9 | 13 3 | 58 3 | 39 | 3 | 2 8 | 2 2 | 266 | 1 54 | 96 4 | 7 | 2 2 | 2 5 | 7 | 1 | 9 | 5 5 | 8 | 01 | 043 | 22 | 6 1 | 04 | 84 | 004 | <1 | 68 | 005 | 06 | 1 | 02 | 7 | 1 | < 05 | 2 |
| CL445 1300W | 2 3 | 20 0 | 83 0 | 193 | 6 | 8 8 | 4 4 | 591 | 1 46 | 41 4 | 1 7 | 5 7 | 13 9 | 10 | 1 0 | 1 3 | 4 3 | 7 | 05 | 027 | 48 | 11 4 | 11 | 504 | 005 | <1 | 65 | 005 | 15 | 2 | 05 | 1 3 | 2 | < 05 | 1 |
| CL445 1250W | 2 1 | 13 0 | 49 0 | 47 | 4 | 3 1 | 1 5 | 49 | 1 02 | 22 8 | 7 | 9 | 1 7 | 7 | 2 | 6 | 4 6 | 9 | 01 | 030 | 20 | 6 0 | 04 | 172 | 003 | <1 | 68 | 005 | 06 | 2 | 03 | 5 | 1 | < 05 | 2 |
| CL445 1200W | 1 2 | 8 5 | 22 4 | 32 | 4 | 3 8 | 1 5 | 99 | 92 | 23 5 | 6 | 1 5 | 8 | 4 | < 1 | 4 | 3 9 | 12 | 01 | 030 | 15 | 6 5 | 06 | 126 | 007 | <1 | 72 | 006 | 10 | 2 | 03 | 4 | 2 | < 05 | 3 |
| CL445 1150W | 1 3 | 24 9 | 64 6 | 114 | 7 | 9 3 | 12 2 | 604 | 2 82 | 165 1 | 9 | 1 4 | 3 6 | 9 | 3 | 1 2 | 4 1 | 23 | 04 | 043 | 15 | 11 6 | 45 | 133 | 015 | 2 | 1 19 | 011 | 09 | 2 | 03 | 2 2 | 2 | < 05 | 4 |
| CL445 1100W | 1 4 | 17 5 | 46 3 | 60 | 5 | 8 1 | 13 3 | 552 | 2 18 | 41 6 | 7 | 2 4 | 2 6 | 10 | 1 | 9 | 4 4 | 20 | 04 | 028 | 17 | 11 4 | 36 | 109 | 020 | <1 | 1 15 | 005 | 08 | 2 | 03 | 2 0 | 2 | < 05 | 4 |
| CL445 1050W | 1 0 | 9 2 | 9 7 | 17 | 1 | 2 8 | 1 2 | 42 | 63 | 7 2 | 4 | 6 7 | 3 | 5 | 1 | 4 | 1 9 | 13 | 03 | 022 | 11 | 6 5 | 05 | 67 | 010 | <1 | 79 | 005 | 05 | 1 | 01 | 9 | 2 | < 05 | 5 |
| CL445 1000W | 6 | 9 6 | 10 1 | 18 | 5 | 2 0 | 1 1 | 76 | 75 | 5 1 | 4 | 1 3 | 2 | 6 | 1 | 2 | 1 1 | 10 | 03 | 037 | 11 | 5 7 | 08 | 93 | 009 | <1 | 89 | 012 | 04 | 1 | 01 | 5 | 1 | < 05 | 4 |
| RE CL445 1000W | 6 | 9 5 | 10 0 | 17 | 5 | 2 5 | 1 1 | 72 | 73 | 5 0 | 4 | 7 | 2 | 5 | < 1 | 2 | 1 0 | 10 | 02 | 035 | 10 | 5 0 | 08 | 90 | 009 | <1 | 89 | 012 | 04 | 1 | 02 | 4 | 1 | < 05 | 4 |
| CL445 950W | 1 2 | 30 9 | 25 6 | 101 | 5 | 5 3 | 4 2 | 264 | 2 11 | 16 6 | 6 | 1 0 | 5 | 18 | 5 | 4 | 2 4 | 23 | 12 | 056 | 16 | 15 8 | 37 | 210 | 005 | <1 | 1 26 | 006 | 05 | 1 | 02 | 9 | 2 | < 05 | 5 |
| CL445 900W | 1 1 | 16 2 | 58 4 | 81 | 6 | 2 2 | 1 8 | 272 | 1 15 | 45 7 | 1 0 | 2 3 | 1 5 | 5 | 7 | 4 | 3 6 | 7 | 02 | 051 | 27 | 3 8 | 07 | 180 | 004 | 2 | 94 | 008 | 09 | 1 | 03 | 5 | 2 | < 05 | 3 |
| CL445 850W | 3 6 | 48 6 | 199 9 | 319 | 1 6 | 8 5 | 13 7 | 768 | 3 25 | 142 3 | 4 3 | 5 7 | 9 9 | 52 | 1 4 | 1 1 | 9 3 | 8 | 37 | 059 | 36 | 11 4 | 19 | 435 | 007 | 1 | 95 | 010 | 15 | 1 | 05 | 1 8 | 2 | 17 | 2 |
| CL445 800W | 3 7 | 27 9 | 104 5 | 234 | 1 5 | 4 9 | 5 8 | 402 | 2 22 | 170 8 | 2 4 | 4 9 | 9 7 | 30 | 1 6 | 1 2 | 2 5 | 8 | 38 | 024 | 41 | 6 8 | 11 | 502 | 006 | <1 | 99 | 011 | 14 | 1 | 08 | 1 9 | 2 | < 05 | 3 |
| CL445 750W | 2 3 | 20 6 | 127 4 | 68 | 1 2 | 2 1 | 1 4 | 61 | 91 | 32 3 | 7 | 1 8 | 5 4 | 5 | 2 | 5 | 5 3 | 6 | 02 | 015 | 19 | 3 9 | 04 | 184 | 005 | 2 | 64 | 008 | 10 | 1 | 04 | 5 | 2 | < 05 | 2 |
| CL445 700W | 2 8 | 27 1 | 165 4 | 352 | 1 8 | 6 4 | 4 5 | 779 | 1 95 | 45 9 | 1 2 | 6 1 | 5 0 | 8 | 1 8 | 8 | 12 0 | 11 | 06 | 030 | 26 | 8 4 | 11 | 270 | 008 | 1 | 86 | 005 | 11 | 2 | 07 | 1 0 | 2 | < 05 | 3 |
| CL445 650W | 3 8 | 50 1 | 370 8 | 190 | 2 4 | 5 3 | 4 3 | 621 | 2 33 | 61 6 | 1 5 | 11 6 | 3 9 | 5 | 4 | 7 | 24 9 | 9 | 02 | 040 | 37 | 8 1 | 15 | 177 | 005 | 1 | 97 | 004 | 12 | 1 | 05 | 1 0 | 3 | < 05 | 3 |
| CL445 600W | 1 2 | 22 3 | 242 7 | 87 | 1 8 | 3 2 | 8 1 | 1222 | 1 05 | 16 5 | 9 | 1 0 | 5 | 12 | 1 1 | 3 | 19 7 | 7 | 08 | 065 | 12 | 4 4 | 09 | 160 | 008 | <1 | 90 | 018 | 11 | 1 | 05 | 3 | 2 | 08 | 3 |
| CL445 550W | 1 8 | 37 0 | 202 1 | 153 | 4 9 | 5 9 | 5 6 | 402 | 1 81 | 40 0 | 2 1 | 9 2 | 1 6 | 9 | 5 | 4 | 27 8 | 13 | 04 | 065 | 51 | 8 6 | 17 | 198 | 006 | 1 | 1 43 | 009 | 09 | 2 | 07 | 7 | 3 | < 05 | 3 |
| CL445 500W | 8 | 21 0 | 58 0 | 82 | 7 | 4 7 | 2 4 | 91 | 1 04 | 21 0 | 1 3 | 1 0 | 9 | 8 | 4 | 5 | 9 3 | 7 | 04 | 033 | 28 | 5 9 | 12 | 236 | 007 | 1 | 69 | 005 | 09 | 1 | 03 | 5 | 2 | < 05 | 2 |
| CL445 450W | 2 0 | 79 5 | 151 3 | 251 | 8 | 8 5 | 5 0 | 386 | 2 05 | 36 8 | 1 3 | 4 5 | 5 2 | 8 | 4 | 9 | 11 3 | 11 | 06 | 038 | 23 | 18 4 | 26 | 92 | 017 | 1 | 91 | 004 | 11 | 2 | 03 | 1 2 | 2 | < 05 | 3 |
| CL445 400W | 2 1 | 57 6 | 185 2 | 223 | 1 8 | 6 2 | 3 6 | 424 | 2 17 | 33 4 | 1 4 | 3 0 | 4 5 | 7 | 6 | 8 | 9 4 | 13 | 02 | 042 | 23 | 9 6 | 16 | 108 | 012 | <1 | 1 01 | 005 | 09 | 2 | 05 | 1 2 | 2 | < 05 | 3 |
| CL445 350W | 1 4 | 37 8 | 99 2 | 89 | 1 3 | 3 0 | 1 9 | 217 | 1 13 | 19 4 | 1 0 | 9 | 1 6 | 5 | 4 | 5 | 6 9 | 9 | 03 | 035 | 17 | 5 3 | 08 | 156 | 005 | 1 | 89 | 006 | 07 | 1 | 03 | 7 | 2 | < 05 | 3 |
| CL445 300W | 1 4 | 27 8 | 19 4 | 53 | 5 | 1 8 | 7 | 32 | 68 | 13 1 | 6 | 6 | 1 2 | 4 | 1 | 3 | 2 6 | 8 | 01 | 024 | 11 | 2 4 | 02 | 78 | 004 | 1 | 79 | 004 | 07 | 1 | 02 | 5 | 1 | < 05 | 3 |
| CL445 250W | 7 | 7 4 | 24 1 | 28 | 5 | 2 5 | 1 1 | 40 | 71 | 13 9 | 5 | < 5 | 7 | 5 | 1 | 3 | 5 1 | 12 | 02 | 019 | 10 | 4 2 | 04 | 69 | 013 | 1 | 59 | 005 | 06 | 1 | 01 | 4 | 2 | < 05 | 3 |
| CL445 200W | 7 | 9 4 | 19 1 | 32 | 3 | 3 9 | 1 8 | 107 | 1 08 | 13 3 | 6 | 7 | 5 | 6 | 1 | 5 | 10 5 | 20 | 02 | 030 | 12 | 6 0 | 07 | 91 | 017 | 1 | 78 | 005 | 07 | 2 | 01 | 6 | 2 | < 05 | 4 |
| CL445 150W | 9 | 19 0 | 52 6 | 97 | 7 | 11 1 | 4 8 | 257 | 2 41 | 35 8 | 8 | 2 3 | 7 0 | 10 | 4 | 7 | 6 3 | 20 | 07 | 035 | 17 | 15 8 | 29 | 106 | 021 | 1 | 1 38 | 005 | 09 | 3 | 05 | 1 8 | 2 | < 05 | 3 |
| CL445 100W | 1 4 | 9 8 | 31 0 | 52 | 5 | 7 6 | 2 6 | 133 | 1 78 | 16 6 | 6 | 3 5 | 4 8 | 9 | 2 | 5 | 10 2 | 20 | 05 | 034 | 18 | 12 2 | 18 | 88 | 021 | 2 | 97 | 007 | 07 | 2 | 03 | 1 1 | 1 | < 05 | 4 |
| CL445 50W | 1 2 | 9 8 | 35 2 | 60 | 5 | 7 6 | 2 6 | 121 | 1 56 | 18 6 | 5 | 2 6 | 6 5 | 7 | 2 | 5 | 8 4 | 16 | 03 | 020 | 24 | 11 3 | 17 | 107 | 015 | <1 | 82 | 005 | 08 | 2 | 02 | 1 1 | 1 | < 05 | 3 |
| CL445 0W | 1 6 | 8 7 | 27 3 | 57 | 3 | 8 4 | 2 6 | 112 | 1 41 | 17 5 | 7 | 1 6 | 6 4 | 9 | 2 | 8 | 5 4 | 15 | 03 | 018 | 22 | 11 1 | 16 | 97 | 013 | 2 | 84 | 006 | 11 | 2 | 03 | 1 1 | 1 | < 05 | 2 |
| STANDARD DS3 | 8 9 | 128 1 | 34 4 | 156 | 3 | 35 7 | 12 5 | 802 | 3 35 | 30 5 | 6 3 | 19 4 | 3 8 | 30 | 5 8 | 5 6 | 6 0 | 74 | 55 | 087 | 18 | 179 9 | 59 | 147 | 084 | 1 | 1 67 | 036 | 17 | 4 1 | 25 | 4 0 | 1 | 2 < 05 | 6 |

Sample type SOIL SS80 60C Samples beginning RE are Reruns and RRE are Reject Reruns



Data A FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

# GEOCHEMICAL ANALYSIS CERTIFICATE

**Equity Engineering Ltd.** PROJECT RFM02-15 File # A202505

700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Mark Baknes

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppb | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Hg ppm | Sc ppm | Tl ppm | S % | Ga ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-1 | 1 4 | 2 8 | 2 9 | 43 | <.1 | 4.5 | 3 8 | 493 | 1 78 | 7 | 2 0 | 1.1 | 4 1 | 72 | < 1 | < 1 | 1 | 39 | 59 | .088 | 8 | 13.6 | .56 | 220 | 120 | 2 | .97 | .078 | 48 | 1 7< | 01 | 2 6 | .3< | 05 | 4 |
| 02TB-35 | 2.1 | 92.8 | 53 | 8 | 363 | 2.0 | 29.0 | 6 9 | 294 | 1 65 | 41 7 | 29.7 | 2.4 | 3 3 | 71 | 3.6 | 5 | 1.9 | 18 | 87 | .072 | 133 | 32.3 | 41 | 446 | 016 | 2 | 1.31 | 008 | 11 | .1 | 07 | 3 0 | .2 | 14 | 3 |
| STANDARD DS3 | 9 7 | 123.2 | 31 | 5 | 160 | 3 | 37.5 | 11 5 | 747 | 3 22 | 32.6 | 6 3 | 20 | 8 3 | 6 | 27 | 6 2 | 5 3 | 5 4 | 78 | 56 | 092 | 17 | 176.3 | 61 | 145 | 087 | 3 | 1 93 | .033 | .16 | 4.0 | 23 | 4 0 | 1.2< | 05 | 6 |

GROUP 1DA - 30 0 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.
UPPER LIMITS - AG, AU, HG, W = 100 PPM, MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM, CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM
- SAMPLE TYPE. SILT SS80 60C

**DATE RECEIVED:** JUL 23 2002 **DATE REPORT MAILED:** Aug 1/02 **SIGNED BY.** C. Leong D. TOYE, C LEONG, J. WANG, CERTIFIED B.C ASSAYERS



Data___ FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(IS 9002 Accredited Co.)

# GEOCHEMICAL AN. SIS CERTIFICATE

Equity Engineering Ltd. PROJECT RFM02-15 File # A202506

700 - 700 W. Pender St., Vancouver BC V6C 1G8 Submitted by: Mark Baknes

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Au* ppb |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SI | 1 | 1 | <3 | 1 | < 3 | <1 | <1 | 6 | 05 | <2 | <8 | <2 | <2 | 4 | <.5 | <3 | <3 | <1 | 22 | .001 | <1 | 2 | .01 | 9 | < 01 | <3 | .02 | .72 | 02 | <2 | 3 2 |
| 275929 | 5 | 26 | 15 | 20 | < 3 | 1 | 1 | 99 | 1.06 | 15 | <8 | <2 | 11 | 49 | < 5 | <3 | <3 | 16 | 29 | .042 | 9 | 9 | .16 | 280 | 10 | <3 | .50 | .02 | .16 | <2 | 1 6 |
| 275930 | 10 | 414 | 207 | 159 | 3 1 | 104 | 57 | 788 | 9.92 | 192 | <8 | 2 | 5 | 43 | .9 | 9 | 6 | 69 | 1 46 | .724 | 6 | 38 | 2.36 | 34 | <.01 | <3 | 3 13 | 01 | .04 | 3 | 15 7 |
| 275931 | 3 | 21 | 21 | 38 | < 3 | 4 | 10 | 129 | 1 06 | 167 | <8 | <2 | 11 | 15 | <.5 | <3 | <3 | 3 | 17 | .025 | 19 | 7 | .14 | 271 | .04 | <3 | .37 | 03 | .17 | <2 | 2.3 |
| 275932 | 4 | 14 | 27 | 22 | < 3 | 2 | <1 | 72 | 1 34 | 3 | <8 | <2 | 13 | 57 | .5 | <3 | <3 | 15 | 21 | .033 | 9 | 8 | .08 | 192 | .14 | 5 | .33 | 03 | 16 | <2 | 1.1 |
| 275933 | 2 | 28 | 11 | 50 | < 3 | 6 | 9 | 237 | 2.49 | 4 | <8 | <2 | 6 | 15 | <.5 | <3 | <3 | 11 | .32 | .046 | 6 | 9 | .73 | 145 | 10 | <3 | 1 21 | 02 | 14 | 3 | 1.6 |
| STANDARD DS3 | 10 | 125 | 33 | 158 | 3 | 38 | 11 | 780 | 3.32 | 32 | <8 | <2 | 5 | 28 | 6.0 | 5 | 6 | 82 | 57 | .094 | 17 | 193 | .60 | 148 | 08 | <3 | 1 80 | .04 | .16 | 3 | 21.0 |

GROUP 1D - 0 50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM, MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM, CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK R150 60C AU* IGNITION BY ACID LEACHED, ANALYZE BY ICP-MS. (10 gm)

**DATE RECEIVED:** JUL 23 2002 **DATE REPORT MAILED:** Aug 6/02 **SIGNED BY** C. Leong .D TOYE, C LEONG, J WANG, CERTIFIED B C ASSAYERS



Data ✓ FA ___

# APPENDIX D

## GEOLOGIST'S CERTIFICATE

## GEOLOGIST'S CERTIFICATE

I, Mark E Baknes, of 7579 Westholme Road, Westholme, in the Province of British Columbia, DO HEREBY CERTIFY

1 THAT I am a Consulting Geologist with offices at Suite 700, 700 West Pender Street, Vancouver, British Columbia

2 THAT I am a graduate of the University of British Columbia with a Bachelor of Science degree in Geology and a graduate of McMaster University with a Master of Science degree in Geology

3 THAT I am a Professional Geoscientist registered in good standing with the Association of Professional Engineers and Geoscientists of the Province of British Columbia

4 THAT this report is based on fieldwork carried out by me or under my direction during June-and July 2002 and on publicly available reports I have examined the property in the field

DATED at Vancouver, British Columbia, this 31 day of January, 2003

PROFESSIONAL ENGINEERS PROVINCE OF BRITISH COLUMBIA M E BAKNES GEOSCIENTIST

Mark E Baknes, M Sc , P Geo

DMN

DMPE

DMN?

DMPE

DMN

DMPE

DMPE

DMPE

DMPE

Stu North

Stu South

Rolls Creek

Skinny Creek

Long Creek

GNSqfh

GNSqfh/GNSqem

GNSqem

GNSqem+PHYqm

PHYqm

02MB-1

02MB-2

02MB-3

02MB-4

02MB-5

02MB-5-beg

02MB-7

S3-TB

S4-TB

S5-TB

S2-TB

S1-TB

275901

275902

275903

275904

275905

275912

275929

275930

275952

CL40 0E

CL40 500E

CL40 1000E

CL40 1500E

CL40 2000E

CL40 2500E

CL40 3050E

CL44 0E

CL44 500E

CL44 1000E

CL44 1400E

CL44 1500E

CL44 1000W

CL44 500W

CL44 0W

CL44E 1000N

CL44E 500N

CL44E 0W

## LEGEND

### REGIONAL UNITS

**DMPE** **Devonian-Mississippian (Pelly Gneiss)**
Massive resistant, medium grey weathering, blocky dark green, metamorphosed hornblende quartz diorite and or granitic gneiss

**DMN** **Devonian-Mississippian (Nasina)**
Quartzite, micaceous quartzite, quartz-muscovite-chlorite-feldspar augen schist, minor meta-conglomerate, meta-grit, may include significant proportion of Klondike Schist

### LITHOLOGIES

**GNSqfh** Quartz-feldspar hornblende gneiss - metagranodiorite, probably equivalent to DMPE

**PHYqm** Quartz-Chlorite-sericite phyllite, green phyllite, locally carbonaceous, meta-andesite tuff?; probably equivalent to DMN

**GNSqem** Quartz-Muscovite-Quartz Augen Gneiss; pale grey-green with sericitic partings and quartz augens and quartz eyes, may be an intermediate to felsic volcanic protolith; probably equivalent to DMN

### SYMBOLS

- bedding
- foliation
- contact: inferred, approximate
- outcrop; float
- fault, defined, inferred
- rock sample
- silt sample
- soil sample

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& RESOURCES LIBRARY
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Whitehorse, Yukon Y1A 2C6

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PROVINCE OF BRITISH COLUMBIA
M. E. BARNES
GEOSCIENTIST

0 250 500
metres

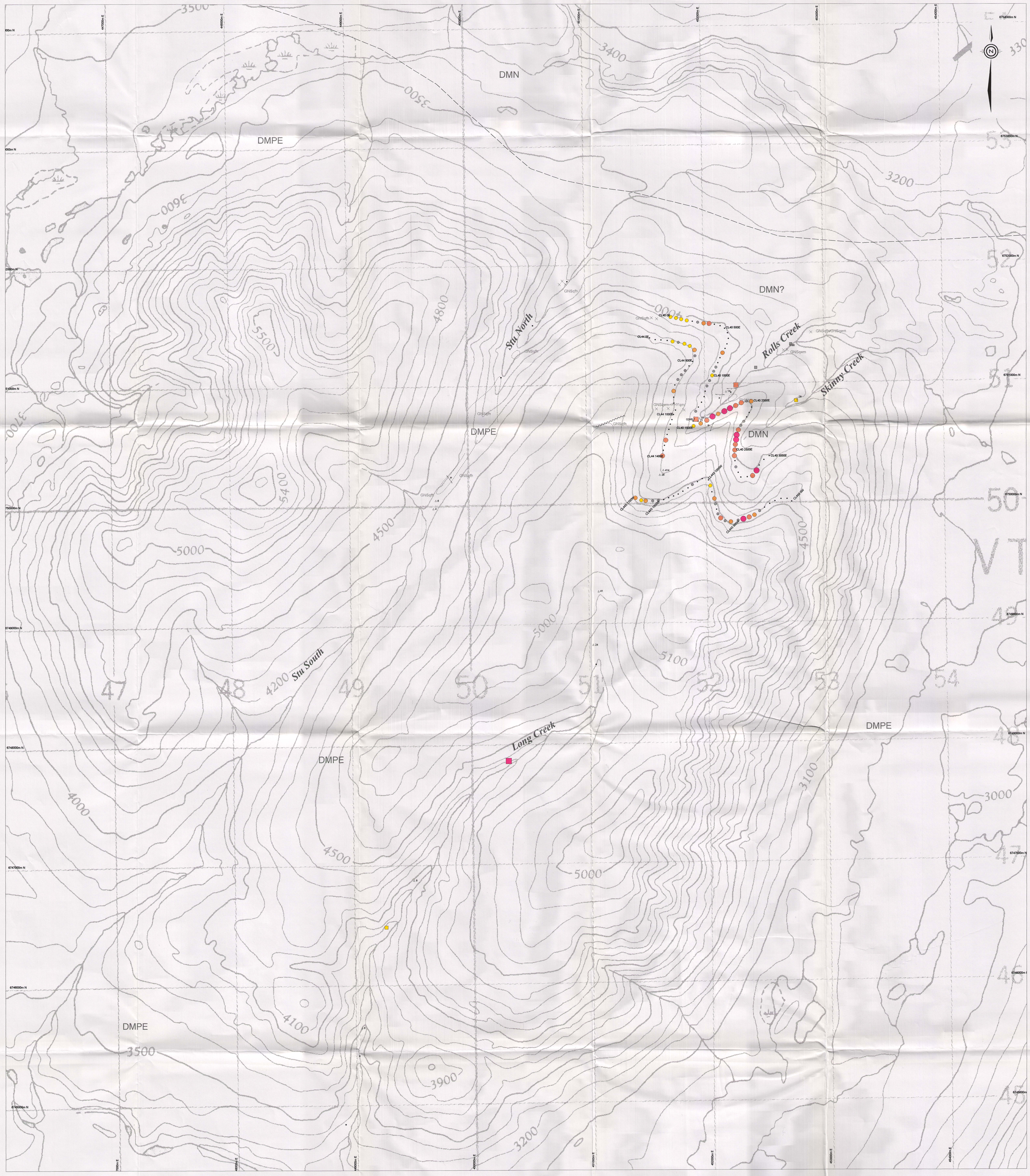
# RIMFIRE MINERALS CORPORATION

## SIMPSON PROJECT

## Project Area Geology and Sample Locations

EQUITY

| | | | |
|---|---|---|---|
| Date: January 6, 2003 | | Scale: 1:10,000 | Figure 4 |
| U.T.M. Zone | UTM9 - NAD27 | Mining District | WATSON LAKE |
| N.T.S. | 105A/13 | State/Province | YUKON |




## Geochemistry legend

Copper in soils (ppm)

| | |
|---|---|
| >72 | |
| 50 | to 72 |
| 34 | to 50 |
| 28 | to 34 |
| 21 | to 28 |
| 0 | to 21 |

Copper in silts (ppm)

| | |
|---|---|
| >146 | |
| 108 | to 146 |
| 83 | to 93 |
| 61 | to 83 |
| 0 | to 61 |

△ Copper in rocks (ppm)

## LEGEND

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PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA M. E. BAKNES 31737

YUKON ENERGY MINES & RESOURCES LTD.
P.O. Box 2703
Whitehorse, Yukon Y1A 2C6

0 250 500 metres

# RIMFIRE MINERALS CORPORATION

## SIMPSON PROJECT

## Cu (ppm) Geochemistry in Rocks, Soils, Silts

| | | | |
|---|---|---|---|
| Date | January 6, 2003 | Scale | 1:10,000 |
| U.T.M. Zone | UTM8 - NAD27 | Mining District | WATSON LAKE |
| N.T.S. | 105A/13 | State/Province | YUKON |

EQUITY

Figure 5a

DMN

DMPE

DMN?

DMPE

DMN

DMPE

DMPE

DMPE

DMPE

Stu North

Stu South

Rolls Creek

Skinny Creek

Long Creek

GNSqfh

GNSqfh/GNSqem

GNSqem

GNSqem+PHYqm

PHYqm

02MB-1

02MB-2

02MB-3

02MB-4

02MB-5

02MB-5-beg

02MB-7

S3-TB

S4-TB

S5-TB

S2-TB

S1-TB

275901

275902

275903

275904

275905

275912

275929

275930

275952

CL40 0E

CL40 500E

CL40 1000E

CL40 1500E

CL40 2000E

CL40 2500E

CL40 3050E

CL44 0E

CL44 500E

CL44 1000E

CL44 1400E

CL44 1500E

CL44 1000W

CL44 500W

CL44 0W

CL44E 1000N

CL44E 500N

CL44E 0W

## LEGEND

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0 250 500
metres

# RIMFIRE MINERALS CORPORATION

## SIMPSON PROJECT

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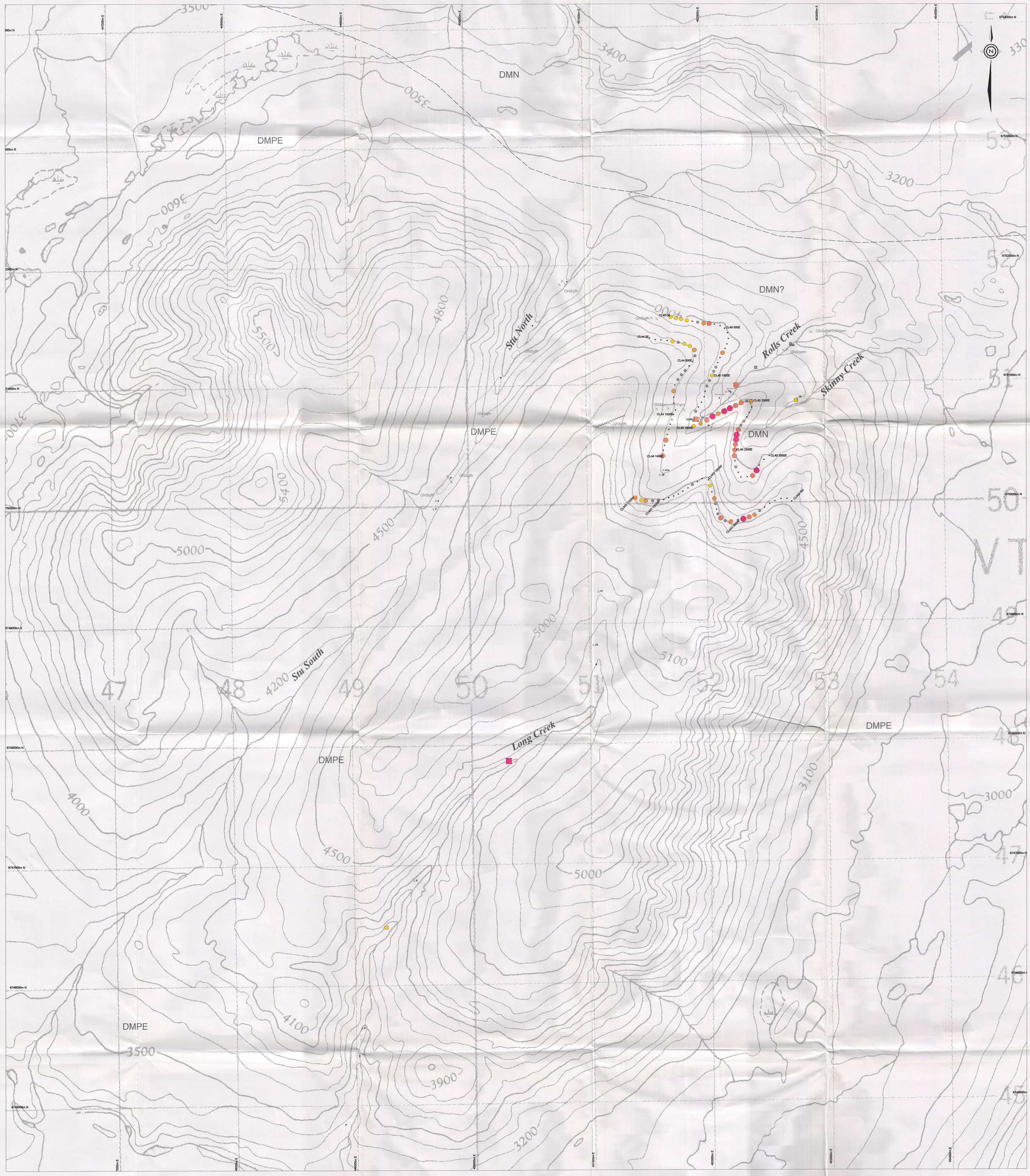
| U.T.M. Zone | UTM9 - NAD27 | Mining District | WATSON LAKE |
| N.T.S. | 105A/13 | State/Province | YUKON |




## Geochemistry legend

Copper in soils (ppm)

| | |
|---|---|
| >72 | |
| 50 | to 72 |
| 34 | to 50 |
| 28 | to 34 |
| 21 | to 28 |
| 0 | to 21 |

Copper in silts (ppm)

| | |
|---|---|
| >146 | |
| 108 | to 146 |
| 83 | to 93 |
| 61 | to 83 |
| 0 | to 61 |

△ Copper in rocks (ppm)

## LEGEND

### REGIONAL UNITS

**DMPE** **Devonian-Mississippian (Pelly Gneiss)**
Massive resistant, medium grey weathering, blocky dark green, metamorphosed hornblende quartz diorite and or granitic gneiss

**DMN** **Devonian-Mississippian (Nasina)**
Quartzite, micaceous quartzite, quartz-muscovite-chlorite-feldspar augen schist, minor meta-conglomerate, meta-grit, may include significant proportion of Klondike Schist

### LITHOLOGIES

**GNSqfh** Quartz-feldspar hornblende gneiss - metagranodiorite, probably equivalent to DMPE

**PHYqm** Quartz-Chlorite-sericite phyllite, green phyllite, locally carbonaceous, meta-andesite tuff?; probably equivalent to DMN

**GNSqem** Quartz-Muscovite-Quartz Augen Gneiss; pale grey-green with sericitic partings and quartz augens and quartz eyes, may be an intermediate to felsic volcanic protolith; probably equivalent to DMN

### SYMBOLS

- bedding
- foliation
- contact: inferred, approximate
- outcrop; float
- fault, defined, inferred
- rock sample
- silt sample
- soil sample

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA M. E. BAKNES 31737

YUKON ENERGY MINES & RESOURCES LTD.
P.O. Box 2703
Whitehorse, Yukon Y1A 2C6

0 250 500 metres

# RIMFIRE MINERALS CORPORATION

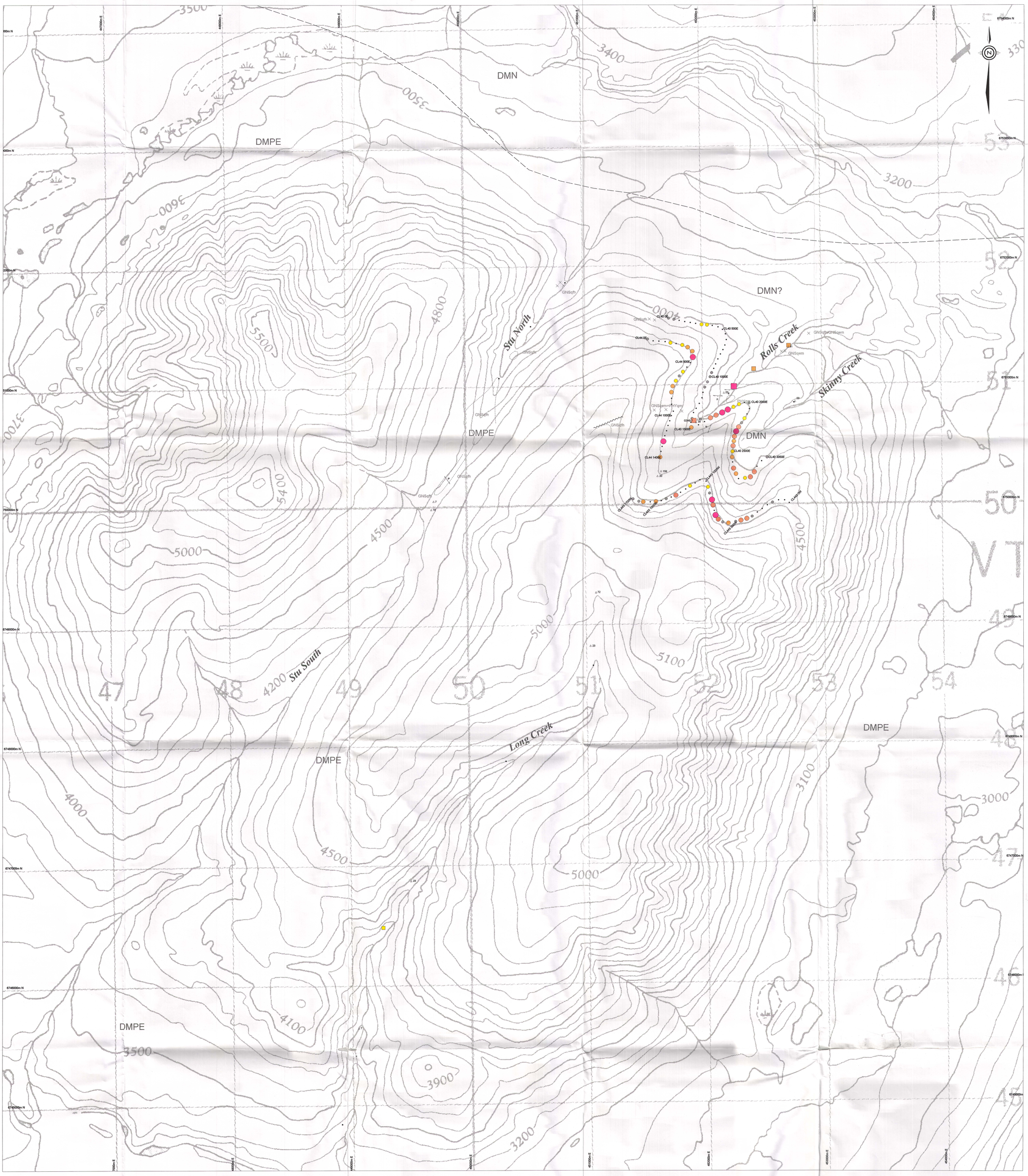
## SIMPSON PROJECT

## Cu (ppm) Geochemistry in Rocks, Soils, Silts

| | | | |
|---|---|---|---|
| Date | January 6, 2003 | Scale | 1:10,000 |
| U.T.M. Zone | UTM8 - NAD27 | Mining District | WATSON LAKE |
| N.T.S. | 105A/13 | State/Province | YUKON |

EQUITY

Figure 5a




**Geochemistry legend**

Zinc in soils (ppm)

| | |
|---|---|
| >267 | |
| 190 | to 267 |
| 131 | to 190 |
| 101 | to 131 |
| 81 | to 101 |
| 0 | to 81 |

Zinc in silts (ppm)

| | |
|---|---|
| >697 | |
| 576 | to 697 |
| 519 | to 576 |
| 429 | to 519 |
| 0 | to 429 |

Zinc in rocks (ppm)

## LEGEND

### REGIONAL UNITS

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- rock sample
- silt sample
- soil sample

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA M. E. BARNES



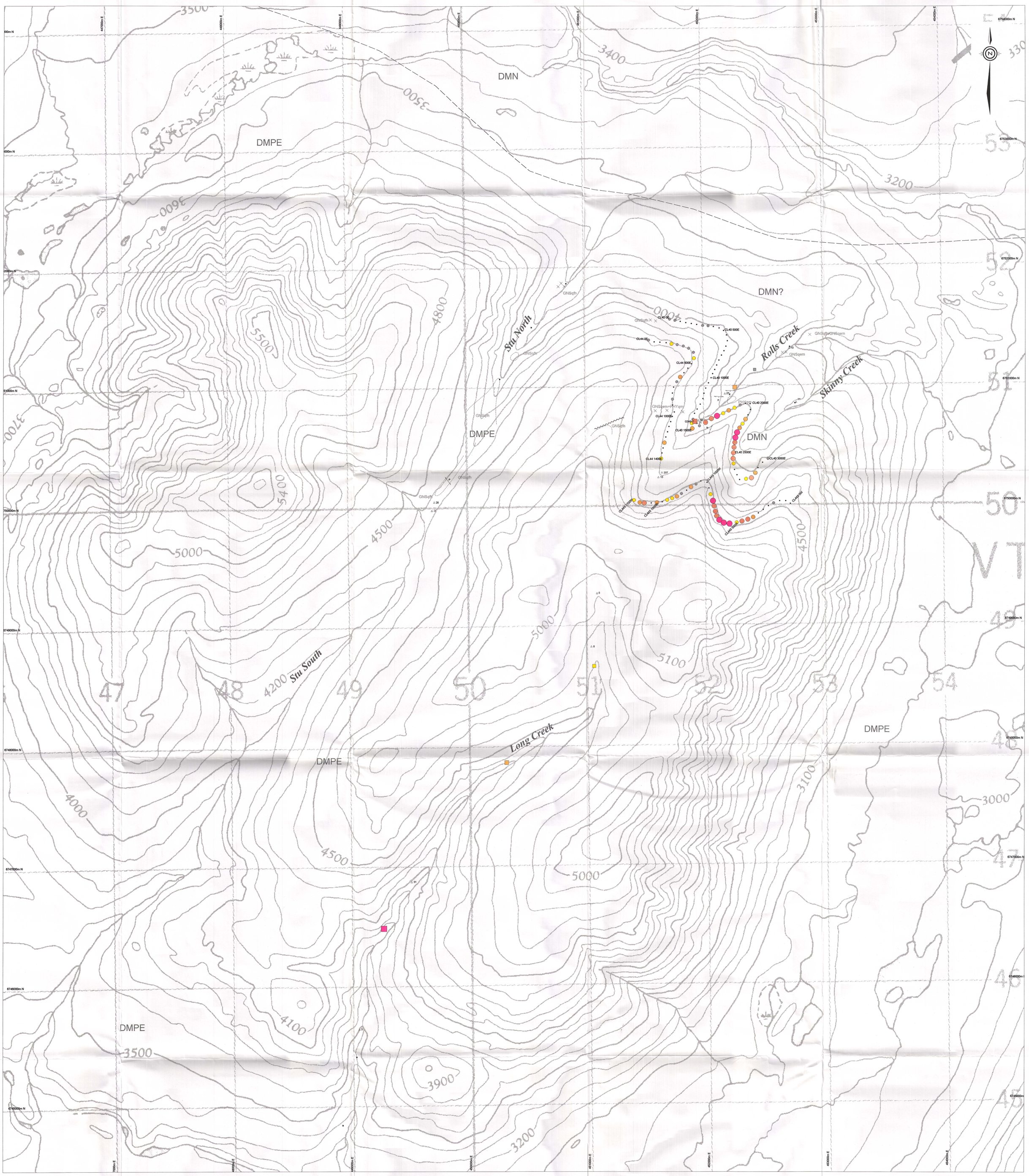
0 250 500 metres

# RIMFIRE MINERALS CORPORATION

## SIMPSON PROJECT

## Zn (ppm) Geochemistry in Rocks, Soils, Silts

| | | | |
|---|---|---|---|
| EQUITY | Date: January 6, 2003 | Scale: 1:10,000 | Figure 5c |
| | U.T.M. Zone: UTM8 - NAD27 | Mining District: WATSON LAKE | |
| | N.T.S.: 105A/13 | State/Province: YUKON | |




**Geochemistry legend**

Lead in soils (ppm)

| | |
|---|---|
| >195 | |
| 102 | to 195 |
| 64 | to 102 |
| 53 | to 64 |
| 38 | to 53 |
| 0 | to 38 |

Lead in silts (ppm)

| | |
|---|---|
| >108 | |
| 95 | to 108 |
| 89 | to 95 |
| 83 | to 89 |
| 59 | to 83 |
| 0 | to 61 |

△⁶ Lead in rocks (ppm)

## LEGEND

### REGIONAL UNITS

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### SYMBOLS

- bedding
- foliation
- contact: inferred, approximate
- outcrop; float
- fault, defined, inferred
- △ rock sample
- □ silt sample
- ○ soil sample



0 250 500
metres

# RIMFIRE MINERALS CORPORATION

## SIMPSON PROJECT

## Pb (ppm) Geochemistry in Rocks, Soils, Silts

| | | | |
|---|---|---|---|
| Date: January 6, 2003 | | Scale: 1:10,000 | Figure 5b |
| U.T.M. Zone: UTM8 - NAD27 | | Mining District: WATSON LAKE | |
| N.T.S.: 105A/13 | | State/Province: YUKON | |

DMN

DMPE

DMN?

DMPE

DMN

DMPE

DMPE

DMPE

Stu North

Stu South

Rolls Creek

Skinny Creek

Long Creek

GNSqfh

GNSqem

GNSqem+PHYqm

PHYqm

CL40 0E
CL40 500E
CL44 0E
CL44 500E
CL40 1000E
CL40 1500E
CL40 2000E
CL40 2500E
CL40 3050E
CL44 1400E
CL45 700W
CL45 100W
CL45 100N
CL45 500N
CL45 1000N
CL45 1500W

## Geochemistry legend

Silver in soils (ppm)

- >2.0
- 1.2 to 2.0
- 0.8 to 1.2
- 0.6 to 0.8
- 0.4 to 0.6
- 0 to 0.4

Silver in silts (ppm)

- >2.4
- 2.0 to 2.4
- 1.6 to 2.0
- 1.4 to 1.6
- 1.2 to 1.4
- 0 to 1.2

Silver in rocks (ppm)

## LEGEND

### REGIONAL UNITS

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- foliation
- contact: inferred, approximate
- outcrop; float
- fault, defined, inferred
- rock sample
- silt sample
- soil sample





0 250 500 metres

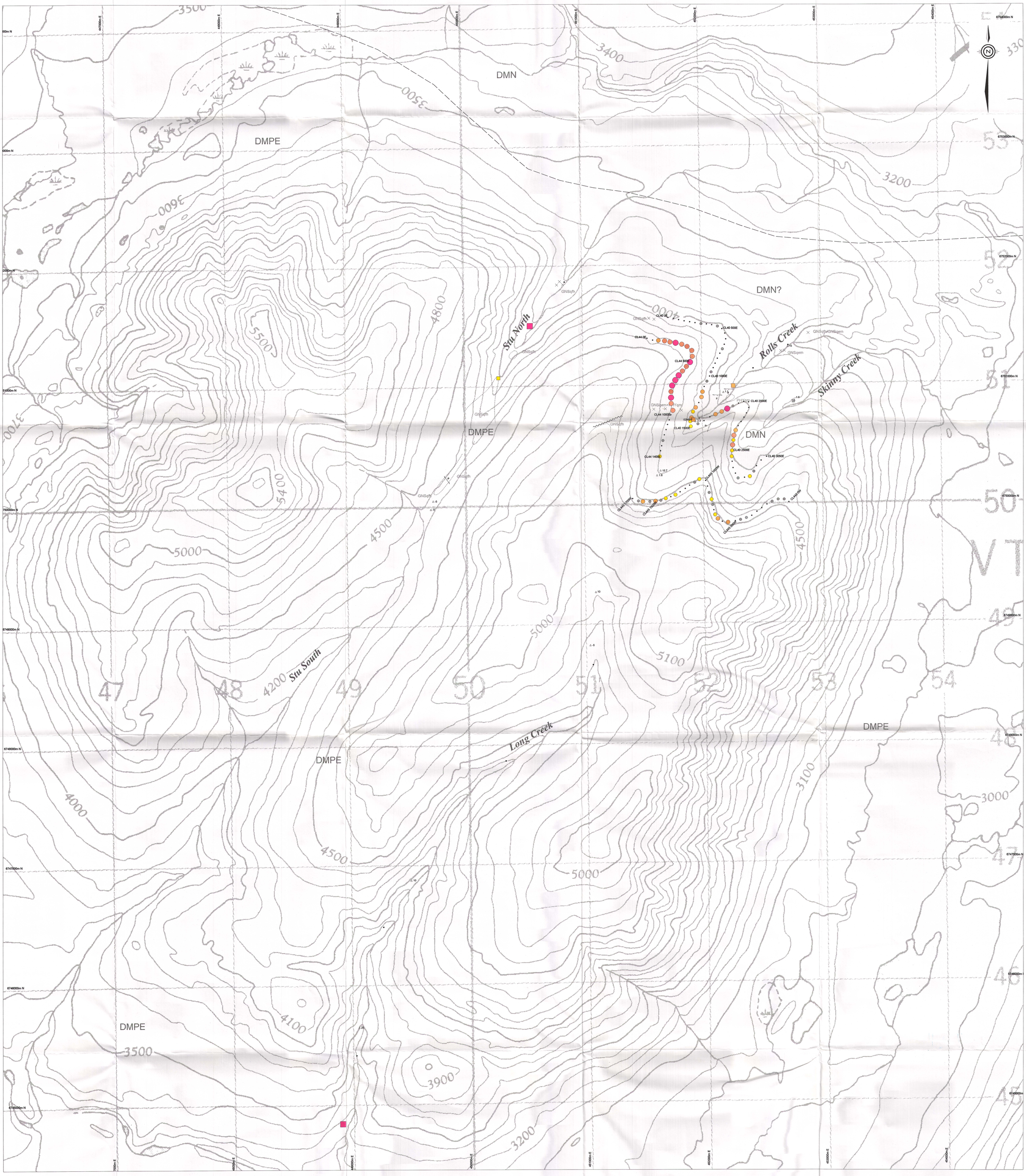
# RIMFIRE MINERALS CORPORATION

## SIMPSON PROJECT

## Ag (ppm) Geochemistry in Rocks, Soils, Silts

EQUITY

| | | | |
|---|---|---|---|
| Date: January 6, 2003 | Scale: 1:10,000 | Figure: 5d |
| U.T.M. Zone: UTM8 - NAD27 | Mining District: WATSON LAKE | |
| N.T.S.: 105A/13 | State/Province: YUKON | |




**Geochemistry legend**

Gold in soils (ppb)

| | |
|---|---|
| >34.7 | |
| 15.8 | to 34.7 |
| 8 | to 15.8 |
| 5.3 | to 8 |
| 2.3 | to 5.3 |
| 0 | to 2.3 |

Gold in silts (ppb)

| | |
|---|---|
| >8 | |
| 6 | to 7.2 |
| 4.48 | to 6 |
| 1 | to 4.48 |
| -5 | to 1 |

△⁶ Gold in rocks (ppb)

## LEGEND

**REGIONAL UNITS**

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**LITHOLOGIES**

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**GNSqem** Quartz-Muscovite-Quartz Augen Gneiss; pale grey-green with sericitic partings and quartz augens and quartz eyes, may be an intermediate to felsic volcanic protolith; probably equivalent to DMN

**SYMBOLS**

bedding
foliation
contact: inferred, approximate
outcrop; float
fault, defined, inferred
rock sample
silt sample
soil sample

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA M. E. BAKNES GEOSCIENTIST

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P.O. Box 2703
Whitehorse, Yukon Y1A 2C6

0 250 500 metres

# RIMFIRE MINERALS CORPORATION

## SIMPSON PROJECT

## Au (ppb) Geochemistry in Rocks, Soils, Silts

| | | | |
|---|---|---|---|
| Date: | January 6, 2003 | Scale: | 1:10,000 |
| U.T.M. Zone | UTM8 - NAD27 | Mining District | WATSON LAKE |
| N.T.S. | 105A/13 | State/Province | YUKON |

Figure 5e