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ACTION. *Back from  
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FILE NO: AR 21253

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Assessment Report on  
Geochem Sampling, Trenching,  
Line chaining, and Prospecting  
on the X Property

Clinton Mining Division  
British Columbia

NTS: 92P/6, and 92P/3  
Latitude: 51 deg. 16 min.  
Longitude: 121 deg. 6 min.

Submitted April 15, 1991

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NTS 92P/6, and 92P/3  
Joel Thomlinson  
Assessment Report on  
Geochem Sampling, Trenching,  
Line Chaining, and prospecting  
on the X Property

1) Summary

The X property is a porphyry copper prospect. The program described here deals with 39 days of work from April 20, 1990 to November 14, 1990, when rock and soil sampling, trenching, line chaining, and prospecting was carried out over part of the property.

Geochemical sampling has outlined a small zone of elevated copper and gold on claim X 7.

The total expenditure for work performed on the property for this 1990 program was \$16,011.91

2) Introduction

The X property is located in the Rayfield River area near the confluence of the Rayfield and Bonaparte Rivers in British Columbia.

From April 20th to November 14, 1990, field work entailing geochemical sampling, prospecting, hand trenching, and the chaining of 13.25 Km. of lines, was carried out over part of the property.

The claims worked are X 5, X 6, and X 7, which are part of a group of claims which are contiguous and will be grouped together.

3) Location and Access

The claims worked on are located in the Clinton Mining District on NTS map 92P/6, and 92P/3 and are approximately centered on Lat. 51 deg. 16 min., Lon 121 deg. 6 min.

Access to the property was from 70 mile house. Equipment was mobilized by pickup truck as road access to the area is good. Access was gained by turning off route 97 at 70 mile onto route 117 and heading east until coming to the Young Lake turnoff, then heading south to the Bonaparte River, then heading west for approx. 3.5 Km.

4) Physiography

The property is situated along the Bonaparte and Rayfield Rivers, and encompasses part of Mt. Grant. The Bonaparte River flows west across the property. The property is covered predominantly with lodgepole pines with some spruce and Douglas fir. Elevations range from 3,000- 4,100 ft.

#### 5) Property Ownership

The mineral titles to X 4 - X 8 claims are 100% owned by Joel Thomlinson. The claims that make up the property are listed below, along with their record numbers and the date staked.

| claim | units | rec.no. | date staked    |
|-------|-------|---------|----------------|
| X 4   | 20    | 3260    | April 19, 1990 |
| X 5   | 3     | 3261    | April 16, 1990 |
| X 6   | 20    | 3262    | April 18, 1990 |
| X 7   | 20    | 3263    | April 21, 1990 |
| X 8   | 4     | 3273    | April 27, 1990 |

#### 6) History and Previous Work

No information was available at the Clinton Mining District office showing previous work on the ground covered by the X claims group.

#### 7) Geology

The property is located in the area known as the Quesnel Trough, approximately 15 Km. northwest of the northern end of Vidette Lake, where discoveries of both gold and copper have been made.

The Quesnel trough is a basin of early Mesozoic eugeosynclinal deposition situated between the Omineca Geanticline in the Columbia Mountains to the east and the Pinchi Geanticline to the west. The geological map 1278A (Bonaparte Lake) shows Nicola Group rocks (11), which may be a possible roof pendant, and may have been intruded by plutonic igneous rocks of the Thuya and Takomkane Batholiths (14b).

(from GSC memoir 363, Campbell and Tipper)

Rock samples from the X claims appear to support the geology as mapped by the G.S.C. on the north side of the Bonaparte River, and west of the Rayfield River, where there is a contact between the Nicola Group greenstone and Thuya Group batholith rocks such as syenite, diorite, and feldspar porphyry. (see fig. 3)

A previously unmapped exposure of Nicola Group greenstone was discovered on the south side of the Bonaparte River (yielding assays of 2,010 ppm Cu/ 2,810 ppb Au), as well as Thuya Group batholith rocks, and rocks which appear to be metamorphic. Some samples appear to be from contact zones (see samples X067 and X069 in appendix III). These rock samples, and the samples which appear to have undergone contact metamorphism support the existence of a contact between Nicola Group and Thuya Group rocks on the south side of the Bonaparte River; as well, a possible explanation is provided for the source of copper and gold in the area.

## 9) Geochemistry

Rock and soil samples correspond to sample locations identified on plates 1, 2, and 5, or to channel sample locations identified on plates 7 and 8.

Rock samples are grab specimens which represent outcrops encountered while soil sampling and prospecting, or are channel samples taken from areas C and D on plate 1.

Soil samples are all taken from B horizon material at a depth of 25 centimeters. A grub hoe was used, and samples were collected in paper kraft bags for transporting to the lab for analysis.

Grid 1: Soil samples were taken at 100 m intervals along 3 km of grid lines. 37 soil samples and 10 rock samples were collected over grid 1. (see plate 2)

Soil geochem results over grid 1 show a fairly high background level of copper, with anomolous highs.

High Values: (from assay sheets, appendix IV)

|    |      |         |
|----|------|---------|
| Cu | rock | 331 ppm |
| Cu | soil | 220 ppm |
| Au | rock | 10 ppb  |
| Au | soil | 50 ppb  |

Traverse Line: Soil samples were taken at approximately 100 m. intervals along 1.1 km. of traverse line. 12 soil samples and 13 rock samples were collected along the west side of the Rayfield River. (see plate 2)

Soil geochem results along this traverse line show a fairly high background level of copper, with anomolous highs.

High Values: (from assay sheets, appendix IV)

|    |      |         |
|----|------|---------|
| Cu | rock | 188 ppm |
| Cu | soil | 240 ppm |
| Au | rock | 45 ppb  |
| Au | soil | <5 ppb  |

Grid 2: Base Line 25+005 was established with stations at 100 m. intervals marked with metal tags. Soil samples were taken at 100 m. intervals along 5 km. of grid lines. Soil samples were also taken at 50 m. intervals along 4.15 km. of grid lines. 139 soil samples and 55 rock samples were collected over grid 2. (see plate 3)

Soil geochem results over grid 2 show a fairly high background level of copper, with anomolous gold and copper values.

High Values: (from assay sheets, appendix IV)

|    |      |          |
|----|------|----------|
| Cu | rock | 2230 ppm |
| Cu | soil | 463 ppm  |
| Au | rock | 2810 ppb |
| Au | soil | 22 ppb   |

Mini Baseline C: (see plate 7)

High Values: (from assay sheets appendix IV)

|    |      |           |
|----|------|-----------|
| Cu | rock | 348 ppm   |
| Au | rock | .002 oz/T |

Mini Baseline D: (see plate 8)

High Values: (from assay sheets appendix IV)

|    |      |            |
|----|------|------------|
| Cu | rock | 214 ppm    |
| Au | rock | <.002 oz/T |

## 9) X Claims Channel Samples

### Mini Baseline C

(see plate 7)

Pick and shovel hand trenching was used to remove soil to the bedrock, which was then swept clean in preparation for channel sampling. An approximately continuous channel 5 cm. in depth by 5 cm. in width, and 54 m. in length was taken. The rock that comes from the trench channels is a highly fractured, sheared, and weathered component of the Nicola Group (from Bonaparte Lake Map sheet 1278A).

(see assay sheets, appendix IV)

| Sample  | channel Length | Cu ppm | Au oz/T |
|---------|----------------|--------|---------|
| C-10A   | 1.5M           | 150    | <0.002  |
| C-10B   | 2.0M           | 24     | <0.002  |
| C-5A    | 2.0M           | 348    | <0.002  |
| C-5B    | 2.0M           | 27     | <0.002  |
| C-5C    | 2.0M           | 64     | 0.002   |
| C-5D    | 1.0M           | 134    | <0.002  |
| C+5A    | 2.0M           | 54     | <0.002  |
| C+5B    | 2.0M           | 338    | <0.002  |
| C+10A   | 2.0M           | 157    | <0.002  |
| C+10B   | 2.0M           | 286    | <0.002  |
| C+10C   | 2.0M           | 230    | <0.002  |
| C+10D   | 1.0M           | 255    | <0.002  |
| C+17.5A | 2.0M           | 134    | <0.002  |
| C+17.5B | 2.0M           | 121    | <0.002  |
| C+20A   | 2.0M           | 50     | <0.002  |
| C+20B   | 2.0M           | 225    | <0.002  |
| C+25A   | 2.0M           | 43     | <0.002  |
| C+25B   | 2.0M           | 18     | <0.002  |
| C+25C   | 2.0M           | 100    | <0.002  |
| C+25D   | 2.0M           | 62     | <0.002  |
| C+25E   | 1.0M           | 28     | <0.002  |
| C+35A   | 2.0            | 11     | <0.002  |
| C+35B   | 2.0M           | 116    | <0.002  |
| C+35C   | 2.0M           | 98     | <0.002  |
| C+35D   | 2.0M           | 19     | <0.002  |
| C+35E   | 1.0M           | 180    | 0.002   |
| C+45A   | 2.0M           | 19     | <0.002  |
| C+45B   | 2.0M           | 18     | <0.002  |
| C+45C   | 2.0M           | 13     | <0.002  |

## X Claims Channel Samples

### Mini Baseline D

(see plate 8)

Pick and shovel hand trenching was used to remove soil to the bedrock, which was then swept clean in preparation for channel sampling. An approximately continuous channel 5 cm. in depth by 5 cm. in width, and 21 m. in length was taken. The rock that comes from the trench channels is a highly fractured, sheared, and weathered component of the Nicola Group (from Bonaparte Lake Map sheet 1278A)

(see assay sheets, appendix IV)

| Sample | channel Length | Cu ppm | Au oz/T |
|--------|----------------|--------|---------|
| D 0A   | 1.0M           | 132    | <0.002  |
| D 0B   | 1.0M           | 122    | <0.002  |
| D+5A   | 1.0M           | 152    | <0.002  |
| D+5B   | 1.0M           | 158    | <0.002  |
| D+10A  | 1.0M           | 108    | <0.002  |
| D+10B  | 1.0M           | 49     | <0.002  |
| D+15A  | 1.0M           | 157    | <0.002  |
| D+15B  | 1.0M           | 86     | <0.002  |
| D+15C  | 1.0M           | 176    | <0.002  |
| D+15D  | 1.0M           | 82     | <0.002  |
| D+15E  | 1.0M           | 102    | <0.002  |
| D+15F  | 1.0M           | 211    | <0.002  |
| D+20A  | 1.0M           | 214    | <0.002  |
| D+20B  | 1.0M           | 169    | <0.002  |
| D+20C  | 1.0M           | 45     | <0.002  |
| D+20D  | 1.0M           | 40     | <0.002  |
| D+20E  | 1.0M           | 114    | <0.002  |
| D+25A  | 1.0M           | 20     | <0.002  |
| D+25B  | 1.0M           | 179    | <0.002  |
| D+25C  | 1.0M           | 146    | <0.002  |
| D+25D  | 1.0M           | 187    | <0.002  |

## 10) Purpose, Conclusion, and Recommendations

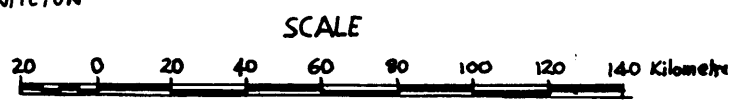
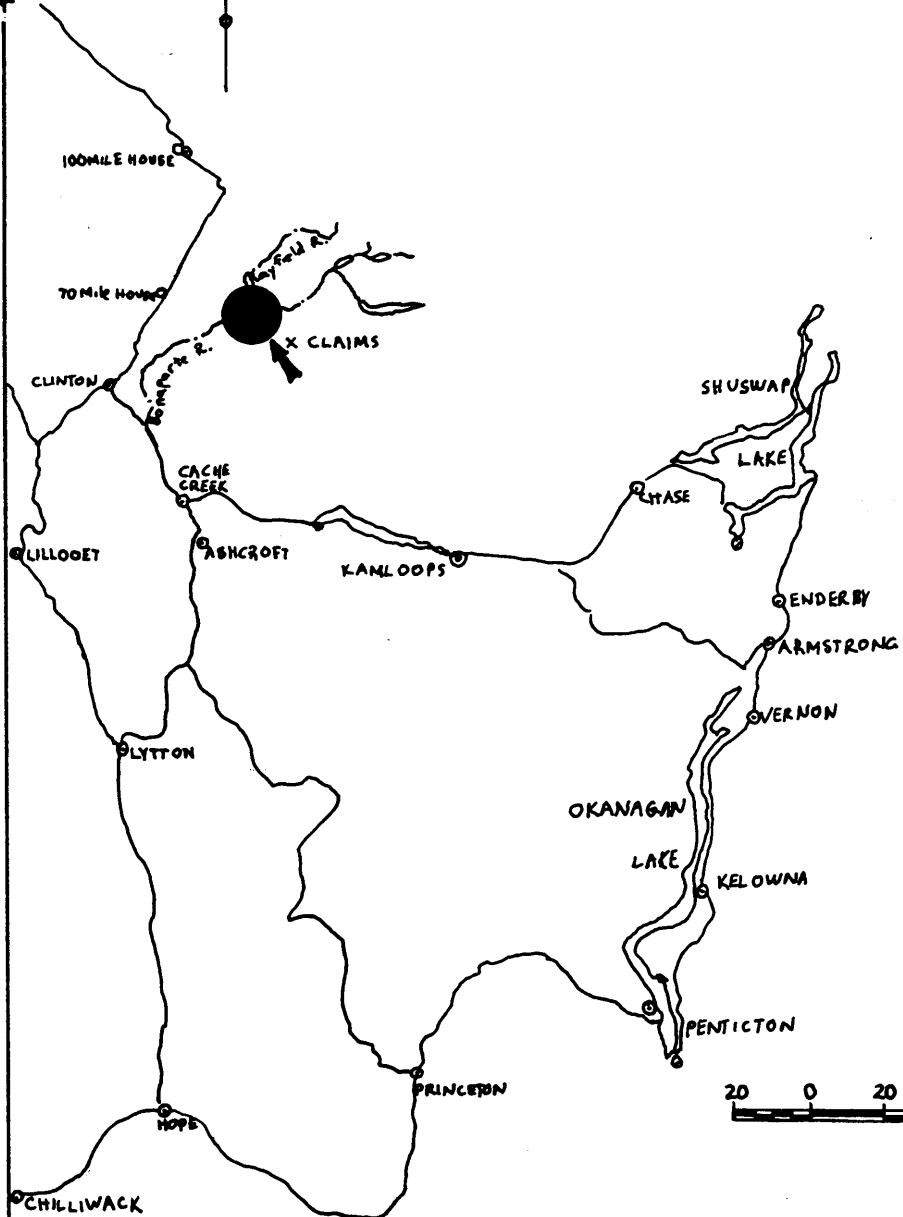
The purpose of the rock and soil geochemistry is to find the areas with highest concentrations of copper and gold; and, using this data as a guide, go back to the property and dig to bedrock if possible, and collect samples of the bedrock. Soil geochem data is plotted on plates 3 and 4, and reveals anomalous gold values which correspond to anomalous copper values at the following locations : (see plate 4)

| Line    | Station | Cu ppm | Au ppb |
|---------|---------|--------|--------|
| L10+00E | 23+00S  | 42     | 10     |
| L10+00E | 28+00S  | 43     | 7      |
| L11+00E | 30+00S  | 46     | 14     |
| L12+00E | 27+00S  | 80     | 3      |
| L12+00E | 31+00S  | 49     | 22     |
| L12+00E | 33+00S  | 95     | 17     |
| L13+00E | 26+00S  | 176    | 15     |
| L14+00E | 25+00S  | 34     | 12     |
| L14+00E | 26+50S  | 178    | 4      |
| L14+00E | 29+00S  | 463    | 19     |
| L15+00E | 27+50S  | 224    | 4      |
| L15+00E | 28+50S  | 113    | 5      |
| L15+00E | 29+00S  | 155    | 2      |
| L15+00E | 30+50S  | 363    | 6      |
| L16+00E | 28+00S  | 186    | 8      |
| L16+00E | 28+50S  | 195    | 3      |
| L16+00E | 29+00S  | 124    | 4      |
| L16+00E | 30+00S  | 56     | 8      |
| L17+00E | 28+00S  | 30     | 7      |
| L18+00E | 23+00S  | 88     | 5      |
| L18+00E | 23+50S  | 32     | 4      |
| L18+00E | 27+50S  | 112    | 2      |
| L18+00E | 28+00S  | 71     | 4      |
| L18+00E | 29+00S  | 94     | 3      |
| L20+00E | 23+00S  | 20     | 4      |
| L20+00E | 27+00S  | 44     | 5      |
| L20+00E | 29+00S  | 159    | 4      |
| L20+00E | 30+00S  | 79     | 9      |

These locations bear further investigation to determine the source of the gold and copper.



122°  
52°+



|  |  |                             |  |
|--|--|-----------------------------|--|
|  |  | Traced by:<br>J. THOMLINSON |  |
|  |  |                             |  |
|  |  |                             |  |
|  |  |                             |  |
|  |  |                             |  |
|  |  |                             |  |
|  |  |                             |  |
|  |  |                             |  |

# INDEX MAP

|                     |       |          |
|---------------------|-------|----------|
| Scale: 1: 2,000,000 | Date: | Figure 1 |
|---------------------|-------|----------|

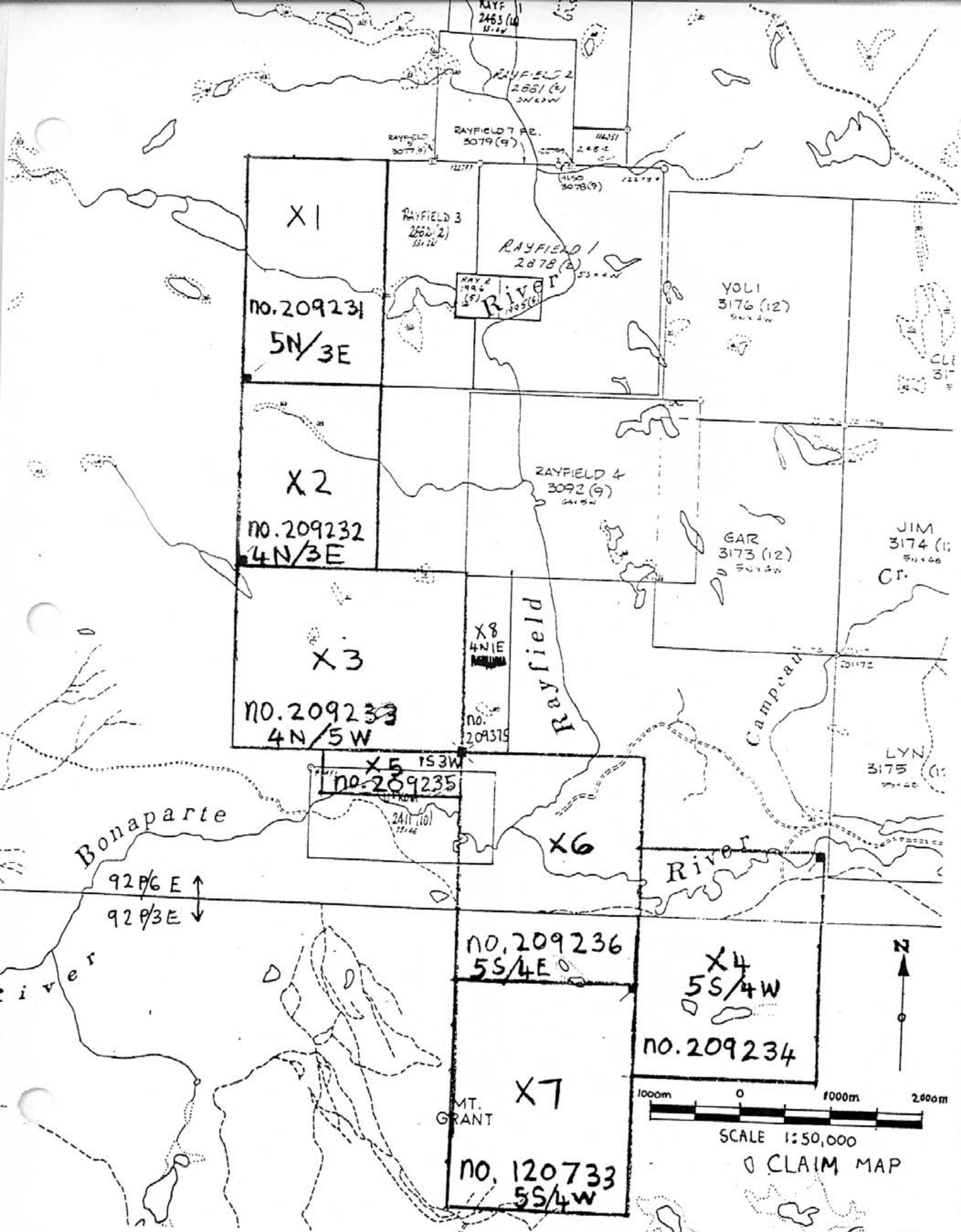


Fig. 2

## Appendix I

## Expenditures

## Transportation

|                  |                       |            |
|------------------|-----------------------|------------|
| Motorcycle rent: | 30 days @ \$20.00/day | \$600.00   |
| Truck rent:      | 37 days @ \$40.00/day | \$1,480.00 |
| Trailer rent:    | 30 days @ \$10.00/day | \$300.00   |
| Fuel:            |                       | \$553.25   |

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|                         |  |            |
|-------------------------|--|------------|
| Transportation Subtotal |  | \$2,933.25 |
|-------------------------|--|------------|

## Assaying cost

|        |                 |            |
|--------|-----------------|------------|
| Lab    | Certificate No. |            |
| Chemex | A9014586        | \$832.50   |
| Chemex | A9017639        | \$551.25   |
| Chemex | A9017640        | \$42.75    |
| Acme   | 90-6044         | \$1,195.40 |
| Chemex | A9027216        | \$1,412.50 |
| Chemex | A9027217        | \$787.50   |

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|                |  |            |
|----------------|--|------------|
| Assay Subtotal |  | \$4,821.90 |
|----------------|--|------------|

## Equipment Rental and Supplies

|                    |                       |          |
|--------------------|-----------------------|----------|
| Camp, Field Equip  | 7 days @ \$40.00/day  | \$280.00 |
| Field Equip, suppl | 30 days @ \$15.00/day | \$450.00 |

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|                    |  |          |
|--------------------|--|----------|
| Equipment Subtotal |  | \$730.00 |
|--------------------|--|----------|

## Food and Accomodation

|            |  |          |
|------------|--|----------|
| Food       |  | \$582.55 |
| Cabin rent |  | \$175.00 |
| B.C. Hydro |  | \$38.58  |

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|                                |  |          |
|--------------------------------|--|----------|
| Food and Accomodation Subtotal |  | \$796.13 |
|--------------------------------|--|----------|

|                          |  |          |
|--------------------------|--|----------|
| Report Prep, maps etc... |  | \$216.30 |
|--------------------------|--|----------|

## Radio Telephone

|                         |                            |          |
|-------------------------|----------------------------|----------|
| Fed. Lic.               | 37 days at \$0.15/day      | \$5.55   |
| B.C. Tel service + toll |                            | \$145.78 |
| Radio rental            | 37 days @ \$100.00/30 days | \$123.00 |

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|                          |  |          |
|--------------------------|--|----------|
| Radio Telephone subtotal |  | \$274.33 |
|--------------------------|--|----------|

|                 |                        |  |
|-----------------|------------------------|--|
| Joel Thomlinson | 39 days @ \$160.00/day |  |
|-----------------|------------------------|--|

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|  |  |            |
|--|--|------------|
|  |  | \$6,240.00 |
|--|--|------------|

## Total Expenditures

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|  |  |             |
|--|--|-------------|
|  |  | \$16,011.91 |
|--|--|-------------|

Appendix II

Analytical Methods (see attached copies of assay invoices)

laboratory                    invoice number

Chemex                      I9014586

I9017639

I9017640

I9027216

I9027217

Acme                         90-6044

## Appendix IIIa)

### X Claims Rock samples

Description based upon hand lens examination only (includes estimated mineral proportions in phaneritic specimens). No thin sections or other petrographic examinations have been made to date on these samples.

#### X001 SYENITE

45% cream-white, coarse (K) feldspar  
45% grey-white, coarse (K?) feldspar  
5% plagioclase  
5% mafics (rare hornblende crystals)

#### X002 SYENITE

75% cream white feldspar, (iron oxide stained)  
10% quartz, smokey grey, anhedral, very fine  
15% mafic, hornblende (chemically altered)

#### X003 SYENITE

80% grey white, fine, sugary feldspar, no visible twinning  
15% pale green translucent feldspar, subhedral  
5% green black, very fine hornblende

#### X004 HORNBLENDE DIORITE

65% grey to cream white, medium grained feldspar, some visibly striated cleavages (plagioclase)  
35% green black, coarse, subhedral hornblende, distribution is heterogeneous

#### X005 PEGMATITE or FELDSPAR PORPHYRY

80% grey, very coarse feldspar, too badly stained by iron oxide to identify  
5% quartz  
5% muscovite, irregularly distributed  
10% mafic (too weathered to identify)

#### X006 QUARTZ DIORITE

60% grey white, medium grained feldspar, probably plagioclase but obscured by iron oxide stain  
20% quartz  
20% biotite, subhedral books up to 0.5 mm thick and 1.0 cm wide

#### X007 DIORITE

80% grey to cream subhedral plagioclase  
<5% quartz  
5% epidote  
15% mafic, green black amphibole or pyroxene

#### X008 DIORITE

30% pink (potash?) feldspar, medium grained  
20% grey plagioclase  
<5% quartz

X009 QUARTZ DIORITE

35% pink, medium grained (potash?) feldspar

30% grey (plagioclase?)

15% quartz

10% mafic

deeply weathered, heavily iron oxide stained, many vuggy cavities filled by oxides

X010 SYENITE PEGMATITE or FELDSPAR PORPHYRY

65% pink, coarse K feldspar

<5% quartz

20% pale green chlorite?

5% pale purple unidentified mineral

5% hornblende

X011 SYENITE PEGMATITE or FELDSPAR PORPHYRY

70% pink (K) feldspar

20% pale green chlorite

<5% mafics

deeply stained by iron oxides, with oxide filled vugs

X012 SYENITE PEGMATITE or FELDSPAR PORPHYRY

75% pink (K) feldspar

25% pale green, very fine grained chlorite or epidote

oxide staining renders mineral identities uncertain

X013 SYENITE PEGMATITE? or FELDSPAR PORPHYRY

predominantly feldspar, deeply weathered and heavily stained by oxides. Irregular open fractures infilled by oxides and calcite

X014 SYENITE PEGMATITE or FELDSPAR PORPHYRY

predominantly feldspar, deeply weathered and heavily stained by oxides. irregular open fractures infilled by oxides and calcite

X015 QUARTZ DIORITE

60% very finely crystalline feldspar (plagioclase?)

20% quartz

10% biotite

10% hornblende

X016 DIORITE

65% very fine, grey plagioclase (minor pink coloration may be oxide stain)

<10% quartz

15% hornblende

10% biotite

X017 DIORITE

80% pale grey fine to medium grained plagioclase

<10% quartz

10% mafics, mainly hornblende

X018 DIORITE  
70% pale grey plagioclase  
<10% quartz  
20% mafics, mainly hornblende

X019 QUARTZ DIORITE  
70% pale grey plagioclase (minor pink coloration appears  
to be oxide stain)  
15% quartz  
15% hornblende

X020 GREENSTONE  
aphanitic pale green-grey, many fractures filled with  
calcite veins and coated by iron oxide, and possibly  
manganese oxide

X021 GREENSTONE  
aphanitic, green-grey with rare, fine pyrite crystals, in  
part altered to chlorite; sheared and slickensided

X022 GREENSTONE  
aphanitic to very fine grained, crudely foliated, and  
partly altered to chlorite and/ or serpentine; manganese  
dioxide on fractures

X023 GREENSTONE  
very finely crystalline, in part altered to chlorite or  
serpentine, occasional fine pyrite crystals, some  
fractures filled with calcite veins

X024 GREENSTONE  
crudely foliated and/ or sheared (some surfaces bear  
mullion-like relief); chloritized with occasional zones of  
green black very soft crystals

X025 GREENSTONE  
layered: two inch band; pale green mottled with very fine  
moss green (epidote?). one inch band dark green grey  
chloritic with minor epidote

X026 GREENSTONE  
grey-green, chloritic, one surface bears waxy slickenside  
reminicent of serpentine

X027 GREENSTONE  
fine grain crystalline, green-grey, slightly chloritized;  
one surface slickensided; few calcite veinlets and iron  
oxide staining on many fractures

X028 GREENSTONE  
very fine grained, green-grey, unfoliated

X029 GREENSTONE

alternating bands; green-grey and dark green-grey, and occasional pale green band to 3 mm thick. very faintly foliated, with rare calcite veinlets

X030 GREENSTONE

green-grey, fine grained, slightly foliated, some layers speckled by very fine green-black crystals of chlorite or biotite

X031 GREENSTONE

light grey-green, fine grained, some alteration to chlorite, many sub-parallel veinlets of calcite up to 1 cm thick

X032 GREENSTONE?

grey, very fine grained; highly fractured and stained by iron oxide

X033 GREENSTONE?

grey, banded (relic flow banding?); highly fractured and oxide stained

X034 GREENSTONE

drab grey-green, highly fractured and stained by rusty brown to orange-brown oxides. some fractures appear to be partly "healed" and infilled by calcite

X035 BASALT

aphanitic, dark grey with rusty-brown specks  
15% plagioclase phenocrysts  
10% mafic phenocrysts, (pyroxene or hornblende)

X036 ANDESITIC? GREENSTONE

grey to green-grey, very finely crystalline, fractured; clusters of very fine epidote crystals along fractures

X037 GREENSTONE

alternating light and dark green-grey layers; lighter layers are hard, very fine grained; darker bands are coarser, softer (chloritic) and less resistant

X038 SYENITE (possibly DIORITE)

15% pink, medium crystalline K feldspar, in irregular bands  
35% white, finely crystalline feldspar (no visible twinning striae) but may be plagioclase  
35% hornblende  
10% biotite



X039 SYENITE

contact between cream white to pale pink, very finely crystalline syenite (possibly aplite)

80% K feldspar

10% quartz

5% mafic

and GREENSTONE

dark green-grey, fine grained, slightly foliated, chloritized

X040 GREENSTONE

grey to green-grey, micro crystalline, very hard, may be silicified. open fractures are host to calcite veinlets and much brown to orange iron oxide

X041 GREENSTONE

iron oxide stain, fractured

X042 GREENSTONE

iron oxide stain, fractured

X043 GREENSTONE

iron oxide stain, fractured

X044 GREENSTONE

aphanitic to very fine grained; fractured and crushed (as in a fault zone) green-grey, slightly chloritic, many fractures coated by brown to rusty orange iron oxide

X045 GREENSTONE

iron oxide stain, fractured

X046 SYENITE

60% feldspar (K?)

<10% quartz

20% hornblende or pyroxene

10% epidote in thin bands and clots

highly fractured and coated by brown to rusty orange iron oxides, and patches of malachite and rare azurite (chrysocolla?)

X047 METAVOLCANICS?

alternating layers; light grey, "salt and pepper", fine grain feldspars and hornblende layers to 5 mm thick and thicker dark grey very fine grained layers. darker layers are softer and less resistant

X048 GREENSTONE?

highly fractured, heavily stained by iron oxide which obscures most of sample. few small unstained areas reveal grey to green-grey very finely crystalline soft, chloritic rock

X049 METAVOLCANICS

grey, very fine grained, vaguely layered; some layers are finely crystalline consisting of dark mafic crystals in pale grey (feldspar?) matrix

X050 METAVOLCANICS

grey, very fine grained, very hard, >1% very fine grey metallic lusted grains

X051 METAVOLCANICS?

medium to dark grey, faint green tint, finely crystalline, (could be mafic dyke rock)

X052 GREENSTONE

light green-grey to grey, hard, siliceous, no chlorite

X053 GREENSTONE

medium to dark grey, fine grained; one surface comprises 2 cm layer of subround clasts. fractured, most surfaces obscured by rusty iron oxide

X054 GREENSTONE

grey to green-grey, fine grained, faintly foliated, chloritic, fractured; calcite veinlets and infilling of vugs; patches of very finely crystalline epidote along some fractures

X055 GREENSTONE

grey to green-grey, slightly foliated, fine grained chloritic, few patches of epidote along fractures

X056 GREENSTONE

"salt and pepper" grey to green-grey, fine grained, foliated, flakey black (biotite?) crystals in some layers

X057 GREENSTONE

green-grey to grey "salt and pepper", faintly foliated, chloritized, occasional patches of epidote along some fractures

X058 FELDSPAR PORPHYRY or PEGMATITE

60% pale orange to pink K feldspar

40% pale green, waxy soft (hardness 3) mineral, possibly clay pseudomorphs after feldspars

GREENSTONE

green-grey, fine grained, chloritic

SYENITE aplite

65% white feldspar

35% mafic (mainly hornblende)

in contact with chloritic greenstone

X059 GREENSTONE

grey-green, very fine grained, chloritic, non-foliated, calcite veinlets to 1 mm thick

X060 GREENSTONE

grey-green, very fine grained, slightly schistose, very chloritic

X061 GREENSTONE

grey to green-grey, fine grained, chloritic, slightly foliated, few calcite veinlets

X062 GREENSTONE (greenschist?)(float)

banded, alternating layers; light grey-green and dark green-grey, fine grain, chloritic but not noticeably foliated

X063 SYENITE PEGMATITE in contact with SYENITE (or DIORITE)(float)

PEGMATITE

60% feldspar, grey, coarse (no visible striae)

30% feldspar, cream white to pink, K rich

5% biotite

5% hornblende

SYENITE

70% white feldspar

30% mafics

finely crystalline

X064 HORNBLLENDE or DIORITE

60% white feldspar, too fine to detect striae

40% mafics, mainly hornblende

X065 METAVOLCANICS?

light grey, hard, siliceous, fine grained, with 1% very fine silver-grey metallic lustered crystals (see also X050)

X066 GREENSTONE

green-grey, very fine grained, chloritic, non-foliated, fractured, with abundant epidote along fractures, and in one band 2 cm thick

X067 contact: GREENSTONE

grey-green, fine grained, very chloritic, slightly foliated, some slickensided fractures

DIORITE

60% white feldspar, no visible striae

35% mafic

5% epidote

X068 METAVOLCANICS?

grey, very fine grained, hard, siliceous

X069 contact: GREENSTONE

green-grey to dark grey, fine grained, schistose

SYENITE PEGMATITE

veins 1 cm thick and greater cutting the greenstone

50% pink to cream K feldspar phenocrysts to 2 cm

20% white to grey feldspar

15% pale green, finely crystalline mica

5% biotite

5% hornblende

5% epidote

X070 GREENSTONE

grey-green, fine grained, siliceous, non-foliated, several surfaces bear mullion structure

X071 GREENSTONE

drab green-grey, fine grained, foliated, some visible biotite layers

X072 GREENSTONE

green-grey to grey, fine grained, foliated, micaceous

X073 GREENSTONE

green-grey to dark grey, fine grained, slightly foliated, chloritic

X074 METAVOLCANICS or METASEDIMENT?

grey, very fine grained, siliceous, sugary, with occasional band containing many very fine grey metallic-lustered crystals; highly fractured with abundant iron oxide stain

(see also X050, X065, X068)

X075 METAVOLCANICS or METASEDIMENT

grey, very fine grained, hard, siliceous (could be metasilstone); 1% to 2% minute grey metallic crystals

(see also X074)

X076 METAVOLCANICS or METASEDIMENT

grey, very fine grained, hard, siliceous, sugary texture, 1% very fine grey metallic crystals, highly fractured and stained by iron oxide

X077 METAVOLCANICS METASEDIMENT

light to medium grey, very fine grained, hard, non-foliated, 1% very fine grey metallic crystals, large open fractures filled with coarsely crystalline calcite, minor pyrite, and possibly chalcopyrite.

## Appendix IIIb)

## X Claims Rock sample locations

| Samp.# | W/E   | N/S   |
|--------|-------|-------|
| X001   | 235W  | 000   |
| X002   | 1300E | 100S  |
| X003   | 1275E | 125S  |
| X004   | 1250E | 150S  |
| X005   | 1225E | 175S  |
| X006   | 1200E | 200S  |
| X007   | 1175E | 225S  |
| X008   | 1150E | 250S  |
| X009   | 1125E | 275S  |
| X010   | 1100E | 300S  |
| X011   | 1075E | 325S  |
| X012   | 1050E | 350S  |
| X013   | 1025E | 375S  |
| X014   | 1000E | 400S  |
| X015   | 1850E | 2450S |
| X016   | 1850E | 2425S |
| X017   | 1860E | 2420S |
| X018   | 1870E | 2410S |
| X019   | 1880E | 2400S |
| X020   | 1760E | 2950S |
| X021   | 1758E | 2945S |
| X022   | 1756E | 2940S |
| X023   | 1754E | 2935S |
| X024   | 1752E | 2930S |
| X025   | 1750E | 2925S |
| X026   | 1748E | 2920S |
| X027   | 1746E | 2915S |
| X028   | 1744E | 2910S |
| X029   | 1742E | 2905S |
| X030   | 1740E | 2900S |
| X031   | 1590E | 2730S |
| X032   | 1585E | 2725S |
| X033   | 1580E | 2720S |
| X034   | 1575E | 2715S |
| X035   | 550E  | 5000S |

## X Claims rock sample locations continued

| Samp. # | W/E   | N/S   |
|---------|-------|-------|
| X036    | 2000E | 3100S |
| X037    | 2000E | 3090S |
| X038    | 2000E | 2320S |
| X039    | 3300E | 3800S |
| X040    | 1000W | 060N  |
| X041    | 1005W | 050N  |
| X042    | 1010W | 060N  |
| X043    | 1015W | 050N  |
| X044    | 1020W | 060N  |
| X045    | 1025W | 050N  |
| X046    | 1465E | 2550S |
| X047    | 1500E | 2707S |
| X048    | 1500E | 2717S |
| X049    | 1475E | 2720S |
| X050    | 1505E | 2720S |
| X051    | 1500E | 2753S |
| X052    | 1500E | 2766S |
| X053    | 1480E | 2775S |
| X054    | 1475E | 2812S |
| X055    | 1490E | 2812S |
| X056    | 1510E | 2812S |
| X057    | 1500E | 2885S |
| X058    | 1450E | 2900S |
| X059    | 1500E | 2950S |
| X060    | 1530E | 3000S |
| X061    | 1525E | 3030S |
| X064    | 2000E | 2770S |
| X065    | 2000E | 3000S |
| X066    | 1400E | 2655S |
| X067    | 1450E | 2775S |
| X068    | 1510E | 2725S |
| X069    | 1525E | 2650S |
| X070    | 1590E | 2950S |
| X071    | 1600E | 2910S |
| X072    | 1670E | 2910S |
| X073    | 1690E | 2910S |
| X074    | 1710E | 2780S |
| X075    | 1795E | 2775S |
| X076    | 1800E | 2750S |
| X077    | 1800E | 2910S |

Appendix IV

Geochemical analysis of rock and soil samples



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
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British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: THOMLINSON, JOEL

607 E. 26TH AVE.  
VANCOUVER, BC  
V5V 2H6

INVOICE NUMBER

I 9 0 1 4 5 8 6

## BILLING INFORMATION

Date: 2-MAY-90

Project:

P.O. No.:

Account: ICV

Comments:

Billing: For analysis performed on  
Certificate I9014586

Terms: Net Payment in 30 Days  
1.5% per month (18% per annum)  
charged on overdue accounts

Please Remit Payments to:

**CHEMEX LABS LTD.**  
212 Brooksbank Ave.,  
North Vancouver, B.C.  
Canada V7J-2C1

| CHEMEX CODE                           | ANALYSIS DESCRIPTION | SAMPLES ANALYSED | UNIT PRICE | AMOUNT        |
|---------------------------------------|----------------------|------------------|------------|---------------|
| 100                                   | - Au ppb FA+AA       |                  |            |               |
| G32                                   | - G-32 32 EL. ICP    | 45               | 14.50      | 652.50        |
| Sample preparation and other charges. |                      |                  |            |               |
| 205                                   | - Geochem - RING     | 45               | 1.75       | 78.75         |
| 294                                   | - Crush and split    | 45               | 2.25       | 101.25        |
| Total Cost \$                         |                      |                  |            | 832.50        |
| <b>TOTAL PAYABLE (CDN) \$</b>         |                      |                  |            | <b>832.50</b> |





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DR. THOMLINSON, JOEL

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VANCOUVER, BC  
V5V 2H6

Comments:

A9014586

## CERTIFICATE A9014586

## ANALYTICAL PROCEDURES

THOMLINSON, JOEL

PROJECT :

P O # :

Samples submitted to our lab in Vancouver, BC.

This report was printed on 3-MAY-90.

### SAMPLE PREPARATION

| CHEMEX<br>CODE | NUMBER<br>SAMPLES | DESCRIPTION                     |
|----------------|-------------------|---------------------------------|
| 205            | 45                | Geochem ring to approx 150 mesh |
| 294            | 45                | Crush and split (0-10 pounds)   |
| 238            | 45                | NITRIC-AQUA REGIA DIGESTION     |

• NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

| CHEMEX<br>CODE | NUMBER<br>SAMPLES | DESCRIPTION                     | METHOD  | DETECTION<br>LIMIT | UPPER<br>LIMIT |
|----------------|-------------------|---------------------------------|---------|--------------------|----------------|
| 100            | 45                | Au ppb: Fuse 10 g sample        | FA-AAS  | 5                  | 10000          |
| 922            | 45                | Ag ppm: 32 element soil & rock  | ICP-AES | 0.2                | 200            |
| 921            | 45                | Al %: 32 element soil & rock    | ICP-AES | 0.01               | 15.00          |
| 923            | 45                | As ppm: 32 element soil & rock  | ICP-AES | 5                  | 10000          |
| 924            | 45                | Ba ppm: 32 element soil & rock  | ICP-AES | 10                 | 10000          |
| 925            | 45                | Be ppm: 32 element soil & rock  | ICP-AES | 0.5                | 100.0          |
| 926            | 45                | Bi ppm: 32 element soil & rock  | ICP-AES | 2                  | 10000          |
| 927            | 45                | Ca %: 32 element soil & rock    | ICP-AES | 0.01               | 15.00          |
| 928            | 45                | Cd ppm: 32 element soil & rock  | ICP-AES | 0.5                | 100.0          |
| 929            | 45                | Co ppm: 32 element soil & rock  | ICP-AES | 1                  | 10000          |
| 930            | 45                | Cr ppm: 32 element soil & rock  | ICP-AES | 1                  | 10000          |
| 931            | 45                | Cu ppm: 32 element soil & rock  | ICP-AES | 1                  | 10000          |
| 932            | 45                | Fe %: 32 element soil & rock    | ICP-AES | 0.01               | 15.00          |
| 933            | 45                | Ga ppm: 32 element soil & rock  | ICP-AES | 10                 | 10000          |
| 951            | 45                | Hg ppm: 32 element soil & rock  | ICP-AES | 1                  | 10000          |
| 934            | 45                | K %: 32 element soil & rock     | ICP-AES | 0.01               | 10.00          |
| 935            | 45                | La ppm: 32 element soil & rock  | ICP-AES | 10                 | 10000          |
| 936            | 45                | Mg %: 32 element soil & rock    | ICP-AES | 0.01               | 15.00          |
| 937            | 45                | Mn ppm: 32 element soil & rock  | ICP-AES | 5                  | 10000          |
| 938            | 45                | Mo ppm: 32 element soil & rock  | ICP-AES | 1                  | 10000          |
| 939            | 45                | Na %: 32 element soil & rock    | ICP-AES | 0.01               | 5.00           |
| 940            | 45                | Ni ppm: 32 element soil & rock  | ICP-AES | 1                  | 10000          |
| 941            | 45                | P ppm: 32 element soil & rock   | ICP-AES | 10                 | 10000          |
| 942            | 45                | Pb ppm: 32 element soil & rock  | ICP-AES | 2                  | 10000          |
| 943            | 45                | Sb ppm: 32 element soil & rock  | ICP-AES | 5                  | 10000          |
| 958            | 45                | Sc ppm: 32 elements soil & rock | ICP-AES | 1                  | 10000          |
| 944            | 45                | Sr ppm: 32 element soil & rock  | ICP-AES | 1                  | 10000          |
| 945            | 45                | Ti %: 32 element soil & rock    | ICP-AES | 0.01               | 5.00           |
| 946            | 45                | Tl ppm: 32 element soil & rock  | ICP-AES | 10                 | 10000          |
| 947            | 45                | U ppm: 32 element soil & rock   | ICP-AES | 10                 | 10000          |
| 948            | 45                | V ppm: 32 element soil & rock   | ICP-AES | 1                  | 10000          |
| 949            | 45                | W ppm: 32 element soil & rock   | ICP-AES | 10                 | 10000          |
| 950            | 45                | Zn ppm: 32 element soil & rock  | ICP-AES | 2                  | 10000          |



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Project:  
Comments:

Page 1-A  
Tot. 2  
Date 02-MAY-90  
Invoice # I-9014586  
P.O. #

## CERTIFICATE OF ANALYSIS A9014586

| SAMPLE DESCRIPTION | PREP CODE | Au ppb<br>FA+AA | Ag ppm | Al % | As ppm | Ba ppm | Be ppm | Bi ppm | Ca %  | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K %  | La ppm | Mg %   | Mn ppm |
|--------------------|-----------|-----------------|--------|------|--------|--------|--------|--------|-------|--------|--------|--------|--------|------|--------|--------|------|--------|--------|--------|
| BL 000 2+20W       | 205 294   | < 5             | < 0.2  | 1.99 | 15     | 60     | < 0.5  | < 2    | 0.54  | < 0.5  | < 1    | 15     | 81     | 0.40 | < 10   | < 1    | 0.31 | < 10   | 0.05   | 140    |
| X001 Rock Samples  | 205 294   | < 5             | < 0.2  | 0.36 | < 5    | 110    | < 0.5  | < 2    | 2.14  | < 0.5  | 3      | 10     | 68     | 1.45 | < 10   | < 1    | 0.22 | 10     | 0.04   | 995    |
| X002 Taken along   | 205 294   | < 5             | < 0.2  | 7.01 | < 5    | < 10   | < 0.5  | < 2    | 0.26  | < 0.5  | 1      | 17     | 13     | 0.36 | < 10   | < 1    | 1.77 | < 10   | 0.01   | 155    |
| X003 west side     | 205 294   | < 5             | < 0.2  | 3.38 | < 5    | 50     | < 0.5  | < 2    | 2.31  | < 0.5  | 10     | 15     | 188    | 4.26 | < 10   | < 1    | 0.62 | 30     | 0.80   | 2100   |
| X004 of Rayfield   | 205 294   | < 5             | < 0.2  | 2.87 | 15     | 10     | < 0.5  | < 2    | 0.19  | < 0.5  | 1      | 7      | 5      | 1.72 | 10     | < 1    | 0.29 | 220    | 0.05   | 460    |
| X005 River near    | 205 294   | < 5             | < 0.2  | 5.83 | 30     | 10     | < 0.5  | < 2    | 0.38  | < 0.5  | 1      | 8      | 43     | 0.97 | 10     | < 1    | 0.27 | 100    | 0.05   | 325    |
| X006 Traverse      | 205 294   | < 5             | < 0.2  | 2.22 | < 5    | 80     | < 0.5  | < 2    | 1.55  | < 0.5  | 3      | 10     | 61     | 1.70 | < 10   | < 1    | 0.24 | 20     | 0.16   | 800    |
| X007 Line          | 205 294   | 45              | < 0.2  | 6.46 | 45     | 50     | < 0.5  | < 2    | 1.76  | < 0.5  | 6      | 6      | 9      | 1.84 | < 10   | < 1    | 0.42 | 20     | 0.39   | 615    |
| X008               | 205 294   | < 5             | < 0.2  | 0.60 | < 5    | 50     | < 0.5  | < 2    | 0.19  | < 0.5  | 2      | 7      | 133    | 1.67 | < 10   | < 1    | 0.42 | 10     | 0.02   | 605    |
| X009               | 205 294   | < 5             | < 0.2  | 0.36 | < 5    | 20     | < 0.5  | < 2    | 0.07  | < 0.5  | < 1    | 5      | 11     | 0.28 | < 10   | < 1    | 0.27 | 30     | < 0.01 | 40     |
| X010               | 205 294   | 5               | < 0.2  | 0.44 | < 5    | 40     | < 0.5  | < 2    | 1.61  | < 0.5  | 2      | 3      | 27     | 1.40 | < 10   | < 1    | 0.27 | 10     | 0.04   | 280    |
| X011               | 205 294   | < 5             | < 0.2  | 0.27 | < 5    | 20     | < 0.5  | < 2    | 1.87  | < 0.5  | 6      | 3      | 46     | 1.86 | < 10   | < 1    | 0.16 | 10     | 0.02   | 1060   |
| X012               | 205 294   | < 5             | < 0.2  | 0.36 | < 5    | 20     | < 0.5  | < 2    | 0.14  | < 0.5  | 1      | 2      | 16     | 1.47 | < 10   | < 1    | 0.23 | < 10   | 0.02   | 335    |
| X013               | 205 294   | 5               | < 0.2  | 2.65 | < 5    | 40     | < 0.5  | < 2    | 2.94  | < 0.5  | 6      | 1      | 61     | 2.26 | < 10   | < 1    | 0.09 | 10     | 0.24   | 1285   |
| X014               | 205 294   | < 5             | < 0.2  | 3.75 | < 5    | 110    | < 0.5  | < 2    | 0.74  | < 0.5  | 8      | 7      | 122    | 2.62 | < 10   | < 1    | 0.94 | 20     | 0.36   | 500    |
| X015               | 205 294   | < 5             | < 0.2  | 3.78 | 10     | 30     | < 0.5  | < 2    | 0.68  | < 0.5  | 2      | 7      | 32     | 1.34 | < 10   | < 1    | 0.78 | 10     | 0.12   | 385    |
| X016               | 205 294   | < 5             | < 0.2  | 1.3  | 10     | 30     | < 0.5  | < 2    | 0.54  | < 0.5  | 2      | 10     | 36     | 1.40 | < 10   | < 1    | 0.78 | 10     | 0.09   | 335    |
| X017               | 205 294   | < 5             | < 0.2  | 4.3  | < 5    | 20     | < 0.5  | < 2    | 0.53  | < 0.5  | 2      | 8      | 18     | 1.24 | < 10   | < 1    | 0.83 | 10     | 0.11   | 355    |
| X018               | 205 294   | < 5             | < 0.2  | 4.02 | < 5    | 30     | < 0.5  | < 2    | 0.64  | < 0.5  | 3      | 11     | 27     | 1.46 | < 10   | < 1    | 0.75 | 10     | 0.11   | 410    |
| X019               | 205 294   | < 5             | < 0.2  | 3.05 | 10     | < 10   | < 0.5  | < 2    | 6.62  | < 0.5  | 5      | 15     | 15     | 0.77 | < 10   | < 1    | 0.03 | < 10   | 0.77   | 310    |
| X020               | 205 294   | 95              | < 0.2  | 2.40 | 15     | 40     | < 0.5  | < 2    | 4.53  | < 0.5  | 8      | 11     | 2010   | 1.98 | < 10   | < 1    | 0.22 | < 10   | 1.18   | 515    |
| X021               | 205 294   | < 5             | < 0.2  | 2.09 | 5      | 140    | < 0.5  | < 2    | 3.50  | < 0.5  | 15     | 5      | 99     | 4.40 | < 10   | < 1    | 0.50 | < 10   | 1.47   | 830    |
| X022               | 205 294   | < 5             | < 0.2  | 2.91 | 15     | 40     | < 0.5  | < 2    | 9.14  | < 0.5  | 14     | 6      | 20     | 3.77 | < 10   | < 1    | 0.13 | < 10   | 1.43   | 560    |
| X023               | 205 294   | < 5             | < 0.2  | 2.75 | < 5    | 380    | < 0.5  | < 2    | 1.46  | < 0.5  | 18     | 6      | 240    | 5.57 | < 10   | < 1    | 1.24 | 10     | 1.99   | 745    |
| X024               | 205 294   | < 5             | < 0.2  | 2.04 | < 5    | 20     | < 0.5  | < 2    | 3.96  | < 0.5  | 11     | 24     | 26     | 2.57 | < 10   | < 1    | 0.10 | < 10   | 1.11   | 535    |
| X025               | 205 294   | 5               | < 0.2  | 2.73 | < 5    | 50     | < 0.5  | < 2    | 4.81  | < 0.5  | 11     | 19     | 20     | 3.16 | < 10   | < 1    | 0.18 | < 10   | 1.05   | 1050   |
| X026               | 205 294   | < 5             | < 0.2  | 2.05 | 15     | 110    | < 0.5  | < 2    | 3.25  | < 0.5  | 18     | 16     | 4      | 5.03 | < 10   | < 1    | 0.29 | < 10   | 1.34   | 475    |
| X027               | 205 294   | 10              | < 0.2  | 2.23 | 10     | 390    | < 0.5  | < 2    | 1.91  | < 0.5  | 18     | 19     | 293    | 5.33 | < 10   | < 1    | 0.75 | 10     | 1.28   | 410    |
| X028               | 205 294   | < 5             | < 0.2  | 2.35 | < 5    | 280    | < 0.5  | < 2    | 2.20  | < 0.5  | 18     | 25     | 4      | 5.17 | < 10   | < 1    | 0.58 | 10     | 1.30   | 400    |
| X029               | 205 294   | < 5             | < 0.2  | 3.07 | 15     | 80     | < 0.5  | < 2    | 3.81  | < 0.5  | 10     | 21     | 9      | 2.93 | < 10   | < 1    | 0.27 | < 10   | 0.99   | 470    |
| X030               | 205 294   | 2810            | 1.8    | 3.87 | 25     | 20     | < 0.5  | < 2    | 14.25 | < 0.5  | 12     | 35     | 17     | 3.69 | < 10   | < 1    | 0.04 | < 10   | 2.00   | 340    |
| X031               | 205 294   | 35              | < 0.2  | 3.18 | 15     | 50     | < 0.5  | < 2    | 3.16  | < 0.5  | 11     | 41     | 59     | 2.85 | < 10   | < 1    | 0.22 | 10     | 1.12   | 265    |
| X032               | 205 294   | 215             | < 0.2  | 1.37 | 15     | 30     | < 0.5  | < 2    | 1.95  | < 0.5  | 17     | 21     | 172    | 3.73 | < 10   | < 1    | 0.12 | 10     | 0.49   | 165    |
| X033               | 205 294   | 5               | < 0.2  | 1.72 | 45     | 10     | < 0.5  | < 2    | 2.22  | < 0.5  | 39     | 45     | 458    | 4.96 | < 10   | < 1    | 0.08 | 20     | 0.62   | 175    |
| X034               | 205 294   | 5               | < 0.2  | 3.21 | < 5    | 30     | < 0.5  | < 2    | 1.65  | < 0.5  | 29     | 22     | 45     | 6.32 | < 10   | < 1    | 0.23 | 30     | 2.55   | 865    |
| X035               | 205 294   | < 5             | < 0.2  | 2.43 | < 5    | 100    | < 0.5  | < 2    | 2.46  | < 0.5  | 17     | 10     | 77     | 5.50 | < 10   | < 1    | 0.26 | 10     | 1.29   | 770    |
| X036               | 205 294   | 5               | < 0.2  | 2.22 | 5      | 90     | < 0.5  | < 2    | 2.30  | < 0.5  | 14     | 5      | 171    | 4.42 | < 10   | < 1    | 0.40 | 10     | 1.09   | 615    |
| X037               | 205 294   | < 5             | < 0.2  | 2.44 | 5      | 90     | < 0.5  | < 2    | 2.96  | < 0.5  | 16     | 6      | 100    | 4.41 | < 10   | < 1    | 0.57 | 10     | 1.02   | 900    |
| X038               | 205 294   | < 5             | < 0.2  | 0.94 | < 5    | 50     | < 0.5  | < 2    | 9.26  | < 0.5  | 19     | 61     | 15     | 4.72 | < 10   | < 1    | 0.38 | < 10   | 1.95   | 1175   |
| X039               | 205 294   | 10              | < 0.2  | 2.88 | 15     | 20     | < 0.5  | < 2    | 3.97  | < 0.5  | 8      | 22     | 264    | 2.42 | < 10   | < 1    | 0.07 | < 10   | 0.52   | 720    |
| X040               | 205 294   |                 |        |      |        |        |        |        |       |        |        |        |        |      |        |        |      |        |        |        |

CERTIFICATION : *B. Coughlin*

Taken near  
0100 BL on  
Grid 1



# Chemex Labs Ltd.

Analytical Chemists • Geochemists • Registered Asbestos

212 BROOKSBANK AVE NORTH VANCOUVER  
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THOMLINSON, JOEL

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VANCOUVER, BC  
V5V 2H6

Project:

Comments:

\* Page 1-B  
Total 2  
Date: 02-MAY-90  
Invoice #: I-0014586  
P.O. #

## CERTIFICATE OF ANALYSIS A9014586

| SAMPLE DESCRIPTION | PREP CODE | Mb<br>ppm | Na<br>% | Ni<br>ppm | P<br>ppm | Pb<br>ppm | Sb<br>ppm | Sc<br>ppm | Sr<br>ppm | Ti<br>% | Tl<br>ppm | U<br>ppm | V<br>ppm | W<br>ppm | Zn<br>ppm |
|--------------------|-----------|-----------|---------|-----------|----------|-----------|-----------|-----------|-----------|---------|-----------|----------|----------|----------|-----------|
| X001               | 205 294   | < 1       | 0.98    | < 1       | 70       | 4         | < 5       | < 1       | 621       | 0.01    | < 10      | < 10     | 15       | < 10     | 10        |
| X002               | 205 294   | < 1       | 0.06    | 1         | 710      | 8         | < 5       | 2         | 86        | < 0.01  | < 10      | < 10     | 33       | < 10     | 48        |
| X003               | 205 294   | < 1       | 4.31    | 1         | < 10     | 2         | < 5       | < 1       | 8         | 0.01    | < 10      | < 10     | 11       | < 10     | 10        |
| X004               | 205 294   | < 1       | 1.40    | 2         | 1720     | 86        | 10        | 4         | 384       | 0.17    | < 10      | < 10     | 145      | < 10     | 140       |
| X005               | 205 294   | < 1       | 1.81    | < 1       | < 10     | 2         | < 5       | < 1       | 95        | 0.01    | < 10      | < 10     | 31       | < 10     | 54        |
| X006               | 205 294   | < 1       | 3.52    | < 1       | < 10     | 8         | < 5       | < 1       | 266       | 0.01    | < 10      | < 10     | 13       | < 10     | 32        |
| X007               | 205 294   | < 1       | 1.33    | 1         | 580      | 4         | < 5       | 1         | 217       | 0.02    | < 10      | < 10     | 45       | < 10     | 42        |
| X008               | 205 294   | < 1       | 4.35    | 1         | 550      | 8         | < 5       | 1         | 259       | 0.03    | < 10      | < 10     | 56       | < 10     | 48        |
| X009               | 205 294   | < 1       | 0.11    | 1         | 710      | 6         | < 5       | 2         | 42        | < 0.01  | < 10      | < 10     | 41       | < 10     | 30        |
| X010               | 205 294   | < 1       | 0.08    | 1         | 10       | < 2       | < 5       | < 1       | 14        | < 0.01  | < 10      | < 10     | 5        | < 10     | 2         |
| X011               | 205 294   | < 1       | 0.07    | < 1       | 630      | 4         | < 5       | 2         | 45        | < 0.01  | < 10      | < 10     | 29       | < 10     | 44        |
| X012               | 205 294   | < 1       | 0.05    | < 1       | 190      | 4         | < 5       | 3         | 33        | < 0.01  | < 10      | < 10     | 24       | < 10     | 82        |
| X013               | 205 294   | < 1       | 0.06    | < 1       | 590      | 2         | < 5       | 1         | 19        | < 0.01  | < 10      | < 10     | 16       | < 10     | 48        |
| X014               | 205 294   | < 1       | 1.77    | 1         | 700      | < 2       | < 5       | 3         | 211       | < 0.01  | < 10      | < 10     | 21       | < 10     | 70        |
| X015               | 205 294   | < 1       | 1.93    | 2         | 1720     | < 2       | < 5       | < 1       | 134       | 0.15    | < 10      | < 10     | 131      | < 10     | 50        |
| X016               | 205 294   | < 1       | 2.11    | < 1       | 620      | < 2       | < 5       | < 1       | 181       | 0.05    | < 10      | < 10     | 44       | < 10     | 26        |
| X017               | 205 294   | < 1       | 2.99    | < 1       | 550      | < 2       | < 5       | < 1       | 175       | 0.06    | < 10      | < 10     | 50       | < 10     | 24        |
| X018               | 205 294   | < 1       | 2.52    | 1         | 570      | < 2       | < 5       | < 1       | 71        | 0.06    | < 10      | < 10     | 43       | < 10     | 22        |
| X019               | 205 294   | < 1       | 2.19    | 1         | 590      | < 2       | < 5       | < 1       | 199       | 0.06    | < 10      | < 10     | 50       | < 10     | 34        |
| X020               | 205 294   | 9         | 0.05    | 3         | 2140     | < 2       | < 5       | 4         | 282       | 0.10    | < 10      | < 10     | 99       | < 10     | 12        |
| X021               | 205 294   | < 1       | 0.04    | 6         | 2050     | < 2       | < 5       | 6         | 341       | 0.13    | < 10      | < 10     | 166      | < 10     | 36        |
| X022               | 205 294   | < 1       | 0.04    | 2         | 1420     | < 2       | < 5       | 6         | 129       | 0.19    | < 10      | < 10     | 182      | < 10     | 54        |
| X023               | 205 294   | < 1       | 0.07    | 2         | 1530     | < 2       | < 5       | 7         | 295       | 0.19    | < 10      | < 10     | 181      | < 10     | 30        |
| X024               | 205 294   | < 1       | 0.22    | 3         | 1570     | < 2       | < 5       | 5         | 118       | 0.28    | < 10      | < 10     | 245      | < 10     | 50        |
| X025               | 205 294   | < 1       | 0.04    | 5         | 1790     | < 2       | < 5       | 5         | 244       | 0.10    | < 10      | < 10     | 93       | < 10     | 30        |
| X026               | 205 294   | < 1       | 0.06    | 10        | 2280     | 2         | < 5       | 9         | 159       | 0.12    | < 10      | < 10     | 115      | < 10     | 50        |
| X027               | 205 294   | < 1       | 0.05    | 12        | 1540     | < 2       | < 5       | 4         | 72        | 0.22    | < 10      | < 10     | 217      | < 10     | 34        |
| X028               | 205 294   | < 1       | 0.10    | 12        | 1380     | < 2       | < 5       | 4         | 70        | 0.25    | < 10      | < 10     | 249      | < 10     | 42        |
| X029               | 205 294   | < 1       | 0.08    | 14        | 1610     | < 2       | < 5       | 4         | 95        | 0.28    | < 10      | < 10     | 243      | < 10     | 36        |
| X030               | 205 294   | < 1       | 0.15    | 8         | 1930     | 2         | < 5       | 8         | 117       | 0.21    | < 10      | < 10     | 165      | < 10     | 30        |
| X031               | 205 294   | 3         | 0.02    | 10        | 1230     | < 2       | < 5       | 9         | 283       | 0.13    | < 10      | < 10     | 147      | < 10     | 50        |
| X032               | 205 294   | < 1       | 0.10    | 14        | 1620     | 12        | < 5       | 4         | 45        | 0.21    | < 10      | < 10     | 154      | < 10     | 26        |
| X033               | 205 294   | 6         | 0.05    | 25        | 1810     | 8         | < 5       | 3         | 29        | 0.10    | < 10      | < 10     | 70       | < 10     | 20        |
| X034               | 205 294   | 15        | 0.04    | 58        | 1350     | < 2       | < 5       | 5         | 27        | 0.13    | < 10      | < 10     | 111      | < 10     | 22        |
| X035               | 205 294   | < 1       | 0.77    | 48        | 1810     | 2         | < 5       | 3         | 144       | 0.79    | < 10      | < 10     | 121      | < 10     | 92        |
| X036               | 205 294   | < 1       | 0.06    | 6         | 1710     | < 2       | < 5       | 4         | 162       | 0.21    | < 10      | < 10     | 219      | < 10     | 74        |
| X037               | 205 294   | < 1       | 0.07    | 3         | 1410     | < 2       | < 5       | 2         | 100       | 0.20    | < 10      | < 10     | 171      | < 10     | 58        |
| X038               | 205 294   | < 1       | 0.33    | 2         | 2090     | < 2       | < 5       | 6         | 203       | 0.20    | < 10      | < 10     | 210      | < 10     | 66        |
| X039               | 205 294   | 1         | 0.26    | 16        | 5720     | 6         | < 5       | 16        | 1400      | 0.05    | < 10      | < 10     | 97       | < 10     | 70        |
| X040               | 205 294   | 2         | 0.06    | 11        | 2000     | < 2       | < 5       | 7         | 38        | 0.12    | < 10      | < 10     | 108      | < 10     | 38        |

CERTIFICATION :

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V5V 2H6

Project:  
Comments:

\* Page # 2-A  
Tot. # 2  
Date 02-MAY-90  
Invoice # I-9014586  
P.O. #

## CERTIFICATE OF ANALYSIS A9014586

| SAMPLE DESCRIPTION | PREP CODE | Au ppb<br>FA-AA | Ag<br>ppm | Al<br>% | As<br>ppm | Ba<br>ppm | Be<br>ppm | Bi<br>ppm | Ca<br>% | Cd<br>ppm | Co<br>ppm | Cr<br>ppm | Cu<br>ppm | Fe<br>% | Ga<br>ppm | Hg<br>ppm | K<br>% | La<br>ppm | Mg<br>% | Mn<br>ppm |
|--------------------|-----------|-----------------|-----------|---------|-----------|-----------|-----------|-----------|---------|-----------|-----------|-----------|-----------|---------|-----------|-----------|--------|-----------|---------|-----------|
| X041 Rock Sample   | 205 294   | 5               | < 0.2     | 3.12    | 15        | 50        | < 0.5     | < 2       | 2.47    | < 0.5     | 18        | 48        | 173       | 4.23    | < 10      | < 1       | 0.22   | 10        | 1.28    | 675       |
| X042 from near     | 205 294   | < 5             | < 0.2     | 2.99    | 5         | 210       | < 0.5     | < 2       | 2.34    | < 0.5     | 14        | 38        | 14        | 3.54    | < 10      | < 1       | 0.73   | 10        | 1.28    | 370       |
| X043 BLOO          | 205 294   | < 5             | < 0.2     | 1.94    | < 5       | 50        | < 0.5     | < 2       | 1.86    | < 0.5     | 11        | 20        | 29        | 1.98    | < 10      | < 1       | 0.11   | 10        | 0.71    | 340       |
| X044 Grid 1        | 205 294   | 5               | < 0.2     | 2.31    | 30        | 50        | < 0.5     | < 2       | 1.87    | < 0.5     | 14        | 40        | 132       | 2.93    | < 10      | < 1       | 0.16   | 20        | 0.84    | 345       |
| X045               | 205 294   | < 5             | < 0.2     | 2.50    | 30        | 50        | < 0.5     | < 2       | 2.96    | < 0.5     | 13        | 45        | 331       | 4.50    | < 10      | < 1       | 0.14   | 10        | 0.75    | 555       |

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Project  
Comments

\* Page No. 2-B  
Total 2  
Date 02-MAY-00  
Invoice # I-0014586  
P.O. #

## CERTIFICATE OF ANALYSIS A9014586

| SAMPLE DESCRIPTION | PREP CODE | Mo<br>ppm | Na<br>% | Ni<br>ppm | P<br>ppm | Pb<br>ppm | Sb<br>ppm | Sc<br>ppm | Si<br>ppm | Ti<br>% | Tl<br>ppm | U<br>ppm | V<br>ppm | W<br>ppm | Zn<br>ppm |
|--------------------|-----------|-----------|---------|-----------|----------|-----------|-----------|-----------|-----------|---------|-----------|----------|----------|----------|-----------|
| X041               | 205 294   | < 1       | 0.15    | 24        | 1810     | < 2       | < 5       | 8         | 65        | 0.23    | < 10      | < 10     | 165      | < 10     | 42        |
| X042               | 205 294   | < 1       | 0.10    | 12        | 1270     | < 2       | 5         | 5         | 96        | 0.31    | < 10      | < 10     | 156      | < 10     | 36        |
| X043               | 205 294   | < 1       | 0.09    | 10        | 1750     | < 2       | < 5       | 3         | 49        | 0.11    | < 10      | < 10     | 75       | < 10     | 22        |
| X044               | 205 294   | 2         | 0.07    | 16        | 2270     | 10        | 5         | 6         | 43        | 0.20    | < 10      | < 10     | 147      | < 10     | 46        |
| X045               | 205 294   | 6         | 0.03    | 19        | 1510     | < 2       | 5         | 4         | 46        | 0.14    | < 10      | < 10     | 134      | < 10     | 34        |

CERTIFICATION : B. Coughlin



# Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: THOMLINSON, JOEL

607 E. 26TH AVE.  
VANCOUVER, BC  
V5V 2H6

INVOICE NUMBER

I 9 0 1 7 6 3 9

## BILLING INFORMATION

Date: 5-JUL-90  
Project: X CLAIMS  
P.O. No.:  
Account: ICV

Comments:

Billing: For analysis performed on  
Certificate I9017639

Terms: Payment due on receipt of invoice  
1.5% per month (18% per annum)  
charged on overdue accounts

Please Remit Payments to:

**CHEMEX LABS LTD.**  
212 Brooksbank Ave.,  
North Vancouver, B.C.  
Canada V7J-2C1

| CHEMEX CODE                           | ANALYSIS DESCRIPTION | SAMPLES ANALYSED | UNIT PRICE | AMOUNT                        |               |
|---------------------------------------|----------------------|------------------|------------|-------------------------------|---------------|
| 100                                   | - Au ppb FA+AA       |                  |            |                               |               |
| 2                                     | - Cu ppm             |                  |            |                               |               |
| 238                                   | - AQ digestion       | 49               | 10.25      | 502.25                        |               |
| Sample preparation and other charges. |                      |                  |            |                               |               |
| 201                                   | - -80 mesh sieve     | 49               | 1.00       | 49.00                         |               |
|                                       |                      |                  |            | Total Cost \$                 | 551.25        |
|                                       |                      |                  |            | <b>TOTAL PAYABLE (CDN) \$</b> | <b>551.25</b> |



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VANCOUVER, BC  
V5V 2H6

A9017639

Comments:

|                    |                 |
|--------------------|-----------------|
| <b>CERTIFICATE</b> | <b>A9017639</b> |
|--------------------|-----------------|

THOMLINSON, JOEL

Project: X CLAIMS  
P.O. #:

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 5-JUL-90.

| SAMPLE PREPARATION |                |                             |
|--------------------|----------------|-----------------------------|
| CHEMEX CODE        | NUMBER SAMPLES | DESCRIPTION                 |
| 201                | 49             | Dry, sieve to -80 mesh      |
| 238                | 49             | NITRIC-AQUA REGIA DIGESTION |

| ANALYTICAL PROCEDURES |                |                                |        |                 |             |
|-----------------------|----------------|--------------------------------|--------|-----------------|-------------|
| CHEMEX CODE           | NUMBER SAMPLES | DESCRIPTION                    | METHOD | DETECTION LIMIT | UPPER LIMIT |
| 100                   | 49             | Au ppb: Fuse 10 g sample       | FA-AAS | 5               | 10000       |
| 2                     | 49             | Cu ppm: HNO3-aqua regia digest | AAS    | 1               | 10000       |



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Project : X CLAIMS  
Comments:

Page 1 of 1  
Total Pages : 2  
Invoice Date: 5-JUL-90  
Invoice No. : I-9017639  
P.O. Number :

## CERTIFICATE OF ANALYSIS

### A9017639

| SAMPLE DESCRIPTION<br><small>line station</small> | PREP CODE | Au ppb<br>FA+AA | Cu ppm |  |  |  |  |  |  |  |  |  |
|---|-----------|-----------------|--------|--|--|--|--|--|--|--|--|--|
| XA-001 1+00W 2+00N                                | 201 238   | < 5             | 36     |  |  |  |  |  |  |  |  |  |
| XA-002 1+00W 1+00N                                | 201 238   | < 5             | 26     |  |  |  |  |  |  |  |  |  |
| XA-003 1+00W 0+00                                 | 201 238   | < 5             | 22     |  |  |  |  |  |  |  |  |  |
| XA-004 1+00W 1+00S                                | 201 238   | < 5             | 44     |  |  |  |  |  |  |  |  |  |
| XA-005 1+00W 2+00S                                | 201 238   | < 5             | 36     |  |  |  |  |  |  |  |  |  |
| XA-006 3+00W 2+00S                                | 201 238   | < 5             | 50     |  |  |  |  |  |  |  |  |  |
| XA-007 3+00W 1+00S                                | 201 238   | < 5             | 116    |  |  |  |  |  |  |  |  |  |
| XA-008 3+00W 0+00                                 | 201 238   | 20              | 66     |  |  |  |  |  |  |  |  |  |
| XA-009 3+00W 1+00N                                | 201 238   | 45              | 50     |  |  |  |  |  |  |  |  |  |
| XA-010 3+00W 2+00N                                | 201 238   | < 5             | 28     |  |  |  |  |  |  |  |  |  |
| XA-011 5+00W 2+00N                                | 201 238   | < 5             | 26     |  |  |  |  |  |  |  |  |  |
| XA-012 5+00W 1+00N                                | 201 238   | < 5             | 220    |  |  |  |  |  |  |  |  |  |
| XA-013 5+00W 0+00                                 | 201 238   | < 5             | 26     |  |  |  |  |  |  |  |  |  |
| XA-014 5+00W 1+00S                                | 201 238   | < 5             | 60     |  |  |  |  |  |  |  |  |  |
| XA-015 5+00W 2+00S                                | 201 238   | < 5             | 50     |  |  |  |  |  |  |  |  |  |
| XA-016 7+00W 2+00S                                | 201 238   | 50              | 22     |  |  |  |  |  |  |  |  |  |
| XA-017 7+00W 1+00S                                | 201 238   | < 5             | 68     |  |  |  |  |  |  |  |  |  |
| XA-018 7+00W 0+00                                 | 201 238   | < 5             | 22     |  |  |  |  |  |  |  |  |  |
| XA-019 7+00W 1+00N                                | 201 238   | < 5             | 172    |  |  |  |  |  |  |  |  |  |
| XA-020 7+00W 2+00N                                | 201 238   | < 5             | 18     |  |  |  |  |  |  |  |  |  |
| XA-021 9+00W 2+00N                                | 201 238   | < 5             | 22     |  |  |  |  |  |  |  |  |  |
| XA-022 9+00W 1+00N                                | 201 238   | < 5             | 40     |  |  |  |  |  |  |  |  |  |
| XA-023 9+00W 0+00                                 | 201 238   | < 5             | 32     |  |  |  |  |  |  |  |  |  |
| XA-024 9+00W 1+00S                                | 201 238   | < 5             | 26     |  |  |  |  |  |  |  |  |  |
| XA-025 9+00W 2+00S                                | 201 238   | < 5             | 21     |  |  |  |  |  |  |  |  |  |
| XA-026 11+00W 2+00S                               | 201 238   | < 5             | 19     |  |  |  |  |  |  |  |  |  |
| XA-027 11+00W 1+00S                               | 201 238   | < 5             | 36     |  |  |  |  |  |  |  |  |  |
| XA-028 11+00W 0+00                                | 201 238   | < 5             | 42     |  |  |  |  |  |  |  |  |  |
| XA-029 11+00W 1+00N                               | 201 238   | < 5             | 70     |  |  |  |  |  |  |  |  |  |
| XA-030 11+00W 2+00N                               | 201 238   | < 5             | 30     |  |  |  |  |  |  |  |  |  |
| XA-031 13+00W 2+00N                               | 201 238   | < 5             | 22     |  |  |  |  |  |  |  |  |  |
| XA-032 13+00W 1+00N                               | 201 238   | < 5             | 30     |  |  |  |  |  |  |  |  |  |
| XA-033 13+00W 0+00                                | 201 238   | < 5             | 30     |  |  |  |  |  |  |  |  |  |
| XA-034 13+00W 1+00S                               | 201 238   | < 5             | 40     |  |  |  |  |  |  |  |  |  |
| XA-035 13+00W 2+00S                               | 201 238   | < 5             | 34     |  |  |  |  |  |  |  |  |  |
| XA-036 15+00W 2+00S                               | 201 238   | < 5             | 30     |  |  |  |  |  |  |  |  |  |
| XA-037 15+00W 1+00S                               | 201 238   | < 5             | 24     |  |  |  |  |  |  |  |  |  |
| XB-0+00N Traverse                                 | 201 238   | < 5             | 48     |  |  |  |  |  |  |  |  |  |
| XB-1+00N line on                                  | 201 238   | < 5             | 52     |  |  |  |  |  |  |  |  |  |
| XB-2+00N west side<br>of Rayfield River           | 201 238   | < 5             | 36     |  |  |  |  |  |  |  |  |  |

CERTIFICATION:

*Joel Thomlinson*





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607 E. 26TH AVE.  
VANCOUVER, BC  
V5V 2H6

Project : X CLAIMS  
Comments:

Page No. : 2  
Total Pgs : 2  
Invoice Date: 5-JUL-90  
Invoice No. : 1-9017639  
P.O. Number :

## CERTIFICATE OF ANALYSIS

A9017639

| SAMPLE DESCRIPTION   | PREP CODE |     | Au ppb FA+AA | Cu ppm |  |  |  |  |  |  |  |  |
|--|-----------|-----|--------------|--------|--|--|--|--|--|--|--|--|
| XB-3+00N Traversc<br>XB-4+38N line on<br>XB-5+00N west side<br>XB-6+00N of Bayfield<br>XB-7+00N River. | 201       | 238 | < 5          | 110    |  |  |  |  |  |  |  |  |
|  | 201       | 238 | < 5          | 36     |  |  |  |  |  |  |  |  |
|  | 201       | 238 | < 5          | 40     |  |  |  |  |  |  |  |  |
|  | 201       | 238 | < 5          | 46     |  |  |  |  |  |  |  |  |
|  | 201       | 238 | < 5          | 118    |  |  |  |  |  |  |  |  |
| XB-8+00N<br>XB-9+00N<br>XB-10+00N<br>XB+11+00N   | 201       | 238 | < 5          | 112    |  |  |  |  |  |  |  |  |
|  | 201       | 238 | < 5          | 240    |  |  |  |  |  |  |  |  |
|  | 201       | 238 | < 5          | 130    |  |  |  |  |  |  |  |  |
|  | 201       | 238 | < 5          | 90     |  |  |  |  |  |  |  |  |

CERTIFICATION: *Hart Beckler*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: THOMLINSON, JOEL

607 E. 26TH AVE.  
VANCOUVER, BC  
V5V 2H6

**INVOICE NUMBER**

**I 9 0 1 7 6 4 0**

## BILLING INFORMATION

Date: 5-JUL-90  
Project: X CLAIMS  
P.O. No.:  
Account: ICV

Comments:

Billing: For analysis performed on  
Certificate I9017640

Terms: Payment due on receipt of invoice  
1.5% per month (18% per annum)  
charged on overdue accounts

Please Remit Payments to:

**CHEMEX LABS LTD.**  
212 Brooksbank Ave.,  
North Vancouver, B.C.  
Canada V7J-2C1

| CHEMEX CODE                           | ANALYSIS DESCRIPTION | SAMPLES ANALYSED | UNIT PRICE | AMOUNT       |
|---------------------------------------|----------------------|------------------|------------|--------------|
| 100                                   | - Au ppb FA+AA       |                  |            |              |
| 2                                     | - Cu ppm             |                  |            |              |
| 238                                   | - AQ digestion       | 3                | 10.25      | 30.75        |
| Sample preparation and other charges. |                      |                  |            |              |
| 205                                   | - Geochem - RING     | 3                | 1.75       | 5.25         |
| 294                                   | - Crush and split    | 3                | 2.25       | 6.75         |
| Total Cost \$                         |                      |                  |            | 42.75        |
| <b>TOTAL PAYABLE (CDN) \$</b>         |                      |                  |            | <b>42.75</b> |



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607 E. 26TH AVE.  
VANCOUVER, BC  
V5V 2H6

A9017640

Comments:

CERTIFICATE

A9017640

THOMLINSON, JOEL

Project: X CLAIMS  
P.O. #:

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 5-JUL-90.

## SAMPLE PREPARATION

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION                     |
|-------------|----------------|---------------------------------|
| 205         | 3              | Geochem ring to approx 150 mesh |
| 294         | 3              | Crush and split (0-10 pounds)   |
| 238         | 3              | NITRIC-AQUA REGIA DIGESTION     |

## ANALYTICAL PROCEDURES

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION                    | METHOD | DETECTION LIMIT | UPPER LIMIT |
|-------------|----------------|--------------------------------|--------|-----------------|-------------|
| 100         | 3              | Au ppb: Fuse 10 g sample       | FA-AAS | 5               | 10000       |
| 2           | 3              | Cu ppm: HNO3-aqua regia digest | AAS    | 1               | 10000       |



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VANCOUVER, BC  
V5V 2H6

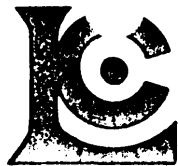
Project : X CLAIMS  
Comments:

Page : 1  
Total Pages : 1  
Invoice Date : 5-JUL-90  
Invoice No. : I-9017640  
P.O. Number :

## CERTIFICATE OF ANALYSIS A9017640

| SAMPLE DESCRIPTION   | PREP CODE |     | Au ppb FA+AA | Cu ppm |  |  |  |  |  |  |  |  |
|----------------------|-----------|-----|--------------|--------|--|--|--|--|--|--|--|--|
| XAR-001 5+00W 0+70N  | 205       | 294 | < 5          | 24     |  |  |  |  |  |  |  |  |
| XAR-002 11+10W 1+50N | 205       | 294 | < 5          | 142    |  |  |  |  |  |  |  |  |
| XAR-003 13+50W 2+75N | 205       | 294 | 10           | 74     |  |  |  |  |  |  |  |  |

CERTIFICATION: *Hart Bickler*



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PHONE: 604-984-0221

THOMLINSON, JOEL

607 E. 26TH AVE.  
VANCOUVER, BC  
V5V 2H6

INVOICE NUMBER

I 9 0 2 7 2 1 6

## BILLING INFORMATION

Date: 4-DEC-90  
Project:  
P.O. No.: NONE  
Account: ICV

Comments:

Billing: For analysis performed on  
Certificate I9027216

Terms: Payment due on receipt of invoice  
1.5% per month (18% per annum)  
charged on overdue accounts

Please Remit Payments to:

**CHEMEX LABS LTD.**  
212 Brooksbank Ave.,  
North Vancouver, B.C.  
Canada V7J-2C1

| CHEMEX CODE                           | ANALYSIS DESCRIPTION  | SAMPLES ANALYSED | UNIT PRICE | AMOUNT         |
|---------------------------------------|-----------------------|------------------|------------|----------------|
| 398                                   | - Au oz/T             |                  |            |                |
| 385                                   | - Ag oz/T             |                  |            |                |
| G31                                   | - HI GRADE 32 ICP     | 50               | 21.00      | 1050.00        |
| Sample preparation and other charges. |                       |                  |            |                |
| 207                                   | - Assay - PULV/SCREEN | 50               | 3.00       | 150.00         |
| 272                                   | - Crush and split     | 50               | 4.25       | 212.50         |
| Total Cost \$                         |                       |                  |            | 1412.50        |
| <b>TOTAL PAYABLE (CDN) \$</b>         |                       |                  |            | <b>1412.50</b> |



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To: THOMLINSON, JOEL

607 E. 26TH AVE.  
 VANCOUVER, BC  
 V5V 2H6

A9027216

Comments:

|                    |                 |
|--------------------|-----------------|
| <b>CERTIFICATE</b> | <b>A9027216</b> |
|--------------------|-----------------|

THOMLINSON, JOEL

Project:  
 P.O.#: NONE

Samples submitted to our lab in Vancouver, BC.  
 This report was printed on 4-DEC-90.

| SAMPLE PREPARATION |                |                                |
|--------------------|----------------|--------------------------------|
| CHEMEX CODE        | NUMBER SAMPLES | DESCRIPTION                    |
| 207                | 50             | Assay pulv, screen -150, roll  |
| 272                | 50             | Crush and split (11-20 pounds) |
| 233                | 50             | Assay AQ ICP digestion charge  |

\* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

| ANALYTICAL PROCEDURES |                |                                  |         |                 |             |
|-----------------------|----------------|----------------------------------|---------|-----------------|-------------|
| CHEMEX CODE           | NUMBER SAMPLES | DESCRIPTION                      | METHOD  | DETECTION LIMIT | UPPER LIMIT |
| 398                   | 50             | Au oz/T: 1/2 assay ton           | FA-AAS  | 0.002           | 20.00       |
| 385                   | 50             | Ag oz/T: Aqua regia digestion    | AAS     | 0.01            | 20.0        |
| 921                   | 50             | Al %: 32 element, soil & rock    | ICP-AES | 0.01            | 15.00       |
| 922                   | 50             | Ag ppm: 32 element, soil & rock  | ICP-AES | 0.2             | 200         |
| 923                   | 50             | As ppm: 32 element, soil & rock  | ICP-AES | 5               | 10000       |
| 924                   | 50             | Ba ppm: 32 element, soil & rock  | ICP-AES | 10              | 10000       |
| 925                   | 50             | Be ppm: 32 element, soil & rock  | ICP-AES | 0.5             | 100.0       |
| 926                   | 50             | Bi ppm: 32 element, soil & rock  | ICP-AES | 2               | 10000       |
| 927                   | 50             | Ca %: 32 element, soil & rock    | ICP-AES | 0.01            | 15.00       |
| 928                   | 50             | Cd ppm: 32 element, soil & rock  | ICP-AES | 0.5             | 100.0       |
| 929                   | 50             | Co ppm: 32 element, soil & rock  | ICP-AES | 1               | 10000       |
| 930                   | 50             | Cr ppm: 32 element, soil & rock  | ICP-AES | 1               | 10000       |
| 931                   | 50             | Cu ppm: 32 element, soil & rock  | ICP-AES | 1               | 10000       |
| 932                   | 50             | Fe %: 32 element, soil & rock    | ICP-AES | 0.01            | 15.00       |
| 933                   | 50             | Ga ppm: 32 element, soil & rock  | ICP-AES | 10              | 10000       |
| 951                   | 50             | Hg ppm: 32 element, soil & rock  | ICP-AES | 1               | 10000       |
| 934                   | 50             | K %: 32 element, soil & rock     | ICP-AES | 0.01            | 10.00       |
| 935                   | 50             | La ppm: 32 element, soil & rock  | ICP-AES | 10              | 10000       |
| 936                   | 50             | Mg %: 32 element, soil & rock    | ICP-AES | 0.01            | 15.00       |
| 937                   | 50             | Mn ppm: 32 element, soil & rock  | ICP-AES | 5               | 10000       |
| 938                   | 50             | Mo ppm: 32 element, soil & rock  | ICP-AES | 1               | 10000       |
| 939                   | 50             | Na %: 32 element, soil & rock    | ICP-AES | 0.01            | 5.00        |
| 940                   | 50             | Ni ppm: 32 element, soil & rock  | ICP-AES | 1               | 10000       |
| 941                   | 50             | P ppm: 32 element, soil & rock   | ICP-AES | 10              | 10000       |
| 942                   | 50             | Pb ppm: 32 element, soil & rock  | ICP-AES | 2               | 10000       |
| 943                   | 50             | Sb ppm: 32 element, soil & rock  | ICP-AES | 5               | 10000       |
| 958                   | 50             | Sc ppm: 32 elements, soil & rock | ICP-AES | 1               | 10000       |
| 944                   | 50             | Sr ppm: 32 element, soil & rock  | ICP-AES | 1               | 10000       |
| 945                   | 50             | Ti %: 32 element, soil & rock    | ICP-AES | 0.01            | 5.00        |
| 946                   | 50             | Tl ppm: 32 element, soil & rock  | ICP-AES | 10              | 10000       |
| 947                   | 50             | U ppm: 32 element, soil & rock   | ICP-AES | 10              | 10000       |
| 948                   | 50             | V ppm: 32 element, soil & rock   | ICP-AES | 1               | 10000       |
| 949                   | 50             | W ppm: 32 element, soil & rock   | ICP-AES | 10              | 10000       |
| 950                   | 50             | Zn ppm: 32 element, soil & rock  | ICP-AES | 2               | 10000       |



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Page Number: 1-A  
Total Pages: 2  
Invoice Date: 4-DEC-90  
Invoice No.: I-9027216  
P.O. Number: NONE

Project:  
Comments:

## CERTIFICATE OF ANALYSIS

A9027216

| SAMPLE DESCRIPTION | PREP CODE |     | Au      | Ag     | Al   | Ag    | As  | Ba  | Be    | Bi  | Ca   | Cd    | Co  | Cr  | Cu  | Fe   | Ga   | Hg  | K    | La   | Mg   |
|--------------------|-----------|-----|---------|--------|------|-------|-----|-----|-------|-----|------|-------|-----|-----|-----|------|------|-----|------|------|------|
|                    |           |     | oz/T    | oz/T   | %    | ppm   | ppm | ppm | ppm   | ppm | %    | ppm   | ppm | ppm | ppm | %    | ppm  | ppm | %    | ppm  | %    |
| C-10A              | 207       | 272 | < 0.002 | < 0.01 | 2.24 | < 0.2 | < 5 | 70  | < 0.5 | < 2 | 3.10 | < 0.5 | 17  | < 1 | 150 | 5.13 | 10   | < 1 | 0.24 | 10   | 2.09 |
| C-10B              | 207       | 272 | < 0.002 | < 0.01 | 2.88 | < 0.2 | < 5 | 40  | < 0.5 | < 2 | 4.14 | < 0.5 | 16  | 7   | 24  | 3.89 | 20   | < 1 | 0.18 | < 10 | 2.05 |
| C-5A               | 207       | 272 | < 0.002 | < 0.01 | 2.19 | < 0.2 | < 5 | 100 | < 0.5 | < 2 | 5.21 | < 0.5 | 16  | < 1 | 348 | 5.12 | < 10 | < 1 | 0.64 | < 10 | 1.75 |
| C-5B               | 207       | 272 | < 0.002 | 0.02   | 2.63 | < 0.2 | < 5 | 170 | < 0.5 | < 2 | 3.90 | < 0.5 | 18  | 5   | 27  | 5.52 | 10   | < 1 | 0.87 | 10   | 2.38 |
| C-5C               | 207       | 272 | < 0.002 | < 0.01 | 2.31 | < 0.2 | < 5 | 100 | < 0.5 | < 2 | 4.86 | < 0.5 | 16  | < 1 | 64  | 5.20 | < 10 | < 1 | 0.57 | < 10 | 1.95 |
| C-5D               | 207       | 272 | < 0.002 | < 0.01 | 2.30 | < 0.2 | < 5 | 100 | < 0.5 | < 2 | 4.72 | < 0.5 | 16  | < 1 | 134 | 5.58 | 10   | < 1 | 0.54 | < 10 | 2.09 |
| C+5A               | 207       | 272 | < 0.002 | < 0.01 | 2.08 | < 0.2 | < 5 | 30  | < 0.5 | < 2 | 5.72 | < 0.5 | 10  | 15  | 54  | 2.24 | 10   | < 1 | 0.22 | < 10 | 1.89 |
| C+5B               | 207       | 272 | < 0.002 | < 0.01 | 2.40 | < 0.2 | < 5 | 60  | < 0.5 | < 2 | 5.72 | < 0.5 | 14  | 1   | 338 | 4.34 | 10   | < 1 | 0.36 | < 10 | 1.81 |
| C+10A              | 207       | 272 | < 0.002 | < 0.01 | 2.76 | < 0.2 | < 5 | 140 | < 0.5 | < 2 | 4.03 | < 0.5 | 17  | < 1 | 157 | 5.33 | 20   | < 1 | 0.30 | < 10 | 2.04 |
| C+10B              | 207       | 272 | < 0.002 | < 0.01 | 2.79 | < 0.2 | < 5 | 160 | < 0.5 | < 2 | 3.71 | < 0.5 | 16  | < 1 | 286 | 5.58 | 20   | < 1 | 0.47 | 10   | 1.88 |
| C+10C              | 207       | 272 | < 0.002 | < 0.01 | 2.78 | < 0.2 | < 5 | 170 | < 0.5 | < 2 | 3.47 | < 0.5 | 15  | < 1 | 230 | 5.79 | 20   | < 1 | 0.61 | 10   | 2.06 |
| C+10D              | 207       | 272 | < 0.002 | < 0.01 | 3.14 | < 0.2 | < 5 | 160 | < 0.5 | < 2 | 3.79 | < 0.5 | 14  | 8   | 255 | 5.76 | 20   | < 1 | 0.43 | 10   | 1.83 |
| C+17.5A            | 207       | 272 | < 0.002 | < 0.01 | 3.40 | < 0.2 | < 5 | 120 | < 0.5 | < 2 | 3.42 | < 0.5 | 18  | < 1 | 134 | 6.13 | 20   | < 1 | 0.49 | 10   | 2.30 |
| C+17.5B            | 207       | 272 | < 0.002 | < 0.01 | 3.11 | < 0.2 | < 5 | 60  | < 0.5 | < 2 | 2.42 | < 0.5 | 17  | 2   | 121 | 6.25 | 20   | < 1 | 0.28 | 10   | 2.37 |
| C+20A              | 207       | 272 | < 0.002 | < 0.01 | 3.24 | < 0.2 | < 5 | 90  | < 0.5 | < 2 | 3.38 | < 0.5 | 18  | < 1 | 50  | 6.19 | 20   | < 1 | 0.61 | 10   | 2.40 |
| C+20B              | 207       | 272 | < 0.002 | < 0.01 | 3.12 | < 0.2 | < 5 | 120 | < 0.5 | < 2 | 2.58 | < 0.5 | 17  | 11  | 225 | 6.00 | 10   | < 1 | 0.76 | 10   | 2.38 |
| C+25A              | 207       | 272 | < 0.002 | < 0.01 | 4.07 | < 0.2 | < 5 | 50  | < 0.5 | < 2 | 4.45 | < 0.5 | 11  | 25  | 43  | 3.21 | 20   | < 1 | 0.26 | 10   | 1.54 |
| C+25B              | 207       | 272 | < 0.002 | < 0.01 | 4.59 | < 0.2 | < 5 | 70  | < 0.5 | < 2 | 5.14 | < 0.5 | 17  | 28  | 18  | 4.34 | 20   | < 1 | 0.22 | 10   | 1.81 |
| C+25C              | 207       | 272 | < 0.002 | < 0.01 | 3.85 | < 0.2 | < 5 | 180 | < 0.5 | < 2 | 3.66 | < 0.5 | 20  | 23  | 100 | 5.33 | 20   | < 1 | 0.49 | 10   | 2.23 |
| C+25D              | 207       | 272 | < 0.002 | < 0.01 | 3.70 | < 0.2 | < 5 | 220 | < 0.5 | < 2 | 5.24 | < 0.5 | 20  | 30  | 62  | 6.02 | 20   | < 1 | 0.50 | 10   | 2.43 |
| C+25E              | 207       | 272 | < 0.002 | < 0.01 | 3.78 | < 0.2 | < 5 | 320 | < 0.5 | < 2 | 3.66 | 0.5   | 19  | 36  | 28  | 5.88 | 20   | < 1 | 0.76 | 10   | 2.37 |
| C+35A              | 207       | 272 | < 0.002 | < 0.01 | 3.67 | < 0.2 | < 5 | 230 | < 0.5 | 2   | 3.11 | 1.0   | 18  | 23  | 11  | 6.40 | 20   | < 1 | 0.50 | 10   | 2.10 |
| C+35B              | 207       | 272 | < 0.002 | < 0.01 | 4.06 | < 0.2 | < 5 | 170 | < 0.5 | < 2 | 3.29 | 1.0   | 26  | 37  | 116 | 6.46 | 20   | < 1 | 0.34 | 10   | 2.53 |
| C+35C              | 207       | 272 | < 0.002 | < 0.01 | 3.94 | < 0.2 | < 5 | 160 | < 0.5 | < 2 | 3.45 | 1.5   | 20  | 34  | 98  | 6.07 | 20   | < 1 | 0.38 | 10   | 2.23 |
| C+35D              | 207       | 272 | < 0.002 | 0.01   | 4.53 | < 0.2 | < 5 | 110 | < 0.5 | < 2 | 5.46 | 1.0   | 14  | 29  | 19  | 5.13 | 20   | < 1 | 0.30 | 10   | 1.77 |
| C+35E              | 207       | 272 | < 0.002 | 0.01   | 4.75 | < 0.2 | < 5 | 90  | < 0.5 | < 2 | 6.07 | 0.5   | 8   | 20  | 180 | 4.46 | 20   | < 1 | 0.35 | < 10 | 1.54 |
| C+45A              | 207       | 272 | < 0.002 | < 0.01 | 4.01 | < 0.2 | < 5 | 110 | < 0.5 | < 2 | 4.01 | 0.5   | 18  | 18  | 19  | 5.64 | 20   | < 1 | 0.28 | 10   | 1.75 |
| C+45B              | 207       | 272 | < 0.002 | 0.01   | 3.96 | < 0.2 | < 5 | 210 | < 0.5 | < 2 | 4.15 | 0.5   | 19  | 29  | 18  | 5.73 | 20   | < 1 | 0.45 | 10   | 1.86 |
| C+45C              | 207       | 272 | < 0.002 | 0.01   | 4.15 | < 0.2 | < 5 | 210 | < 0.5 | < 2 | 3.95 | 0.5   | 22  | 29  | 13  | 5.95 | 20   | < 1 | 0.46 | 10   | 2.44 |
| D0A                | 207       | 272 | < 0.002 | 0.01   | 2.75 | < 0.2 | < 5 | 60  | < 0.5 | < 2 | 1.93 | 0.5   | 14  | 50  | 132 | 4.45 | 20   | < 1 | 0.33 | 20   | 1.68 |
| D0B                | 207       | 272 | < 0.002 | 0.01   | 3.55 | < 0.2 | < 5 | 50  | < 0.5 | 2   | 2.64 | 1.0   | 18  | 50  | 122 | 5.26 | 20   | < 1 | 0.27 | 20   | 2.38 |
| D+5A               | 207       | 272 | < 0.002 | 0.01   | 3.34 | < 0.2 | < 5 | 40  | < 0.5 | < 2 | 2.89 | 1.0   | 17  | 70  | 152 | 4.80 | 20   | < 1 | 0.21 | 20   | 1.70 |
| D+5B               | 207       | 272 | < 0.002 | 0.01   | 3.07 | < 0.2 | 20  | 40  | < 0.5 | < 2 | 2.62 | 0.5   | 19  | 62  | 158 | 4.71 | 20   | < 1 | 0.22 | 20   | 1.44 |
| D+10A              | 207       | 272 | < 0.002 | 0.01   | 3.90 | < 0.2 | < 5 | 110 | < 0.5 | < 2 | 3.11 | 1.0   | 19  | 67  | 108 | 5.26 | 20   | < 1 | 0.45 | 10   | 1.75 |
| D+10B              | 207       | 272 | < 0.002 | 0.01   | 3.58 | < 0.2 | < 5 | 140 | < 0.5 | < 2 | 3.00 | 0.5   | 11  | 62  | 49  | 5.01 | 20   | < 1 | 0.51 | 10   | 2.03 |
| D+15A              | 207       | 272 | < 0.002 | 0.01   | 2.80 | < 0.2 | 5   | 40  | < 0.5 | 2   | 3.03 | 0.5   | 17  | 43  | 157 | 4.31 | 20   | < 1 | 0.17 | 10   | 0.78 |
| D+15B              | 207       | 272 | < 0.002 | 0.01   | 3.95 | < 0.2 | 10  | 40  | < 0.5 | 2   | 4.67 | 1.0   | 14  | 93  | 86  | 3.51 | 20   | < 1 | 0.18 | 10   | 1.17 |
| D+15C              | 207       | 272 | < 0.002 | < 0.01 | 2.33 | < 0.2 | < 5 | 60  | < 0.5 | 12  | 2.49 | 0.5   | 17  | 45  | 176 | 4.19 | 20   | < 1 | 0.26 | 20   | 0.66 |
| D+15D              | 207       | 272 | < 0.002 | < 0.01 | 3.71 | < 0.2 | 55  | 70  | < 0.5 | < 2 | 3.82 | < 0.5 | 11  | 42  | 82  | 3.42 | 30   | < 1 | 0.23 | 10   | 1.28 |
| D+15E              | 207       | 272 | < 0.002 | 0.01   | 3.19 | < 0.2 | 60  | 40  | 0.5   | < 2 | 3.31 | 0.5   | 14  | 45  | 102 | 4.20 | 20   | < 1 | 0.18 | 20   | 1.72 |

CERTIFICATION:

*B. Campbell*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
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 PHONE: 604-984-0221

JO: THOMLINSON, JOEL

607 E. 26TH AVE.  
 VANCOUVER, BC  
 V5V 2H6

Page: 1-B  
 Total Pages: 2  
 Invoice Date: 4-DEC-90  
 Invoice No.: I-9027216  
 P.O. Number: NONE

Project:  
 Comments:

## CERTIFICATE OF ANALYSIS A9027216

| SAMPLE DESCRIPTION | PREP CODE | Mn ppm | Mo ppm | Na % | Ni ppm | P ppm | Pb ppm | Sb ppm | Sc ppm | Sr ppm | Ti % | Tl ppm | U ppm | V ppm | W ppm | Zn ppm |
|--------------------|-----------|--------|--------|------|--------|-------|--------|--------|--------|--------|------|--------|-------|-------|-------|--------|
| C-10A              | 207 272   | 1040   | < 1    | 0.06 | 13     | 1970  | 20     | < 5    | 9      | 240    | 0.29 | < 10   | < 10  | 197   | 10    | 76     |
| C-10B              | 207 272   | 850    | 4      | 0.10 | 12     | 1810  | 22     | < 5    | 7      | 261    | 0.33 | < 10   | < 10  | 190   | < 10  | 56     |
| C-5A               | 207 272   | 1080   | < 1    | 0.08 | < 1    | 1480  | 22     | < 5    | 12     | 172    | 0.15 | < 10   | < 10  | 185   | < 10  | 54     |
| C-5B               | 207 272   | 775    | < 1    | 0.10 | 3      | 1820  | 2      | < 5    | 12     | 114    | 0.23 | < 10   | < 10  | 231   | 10    | 44     |
| C-5C               | 207 272   | 955    | 1      | 0.07 | 1      | 1740  | 18     | 5      | 10     | 146    | 0.17 | < 10   | < 10  | 200   | 10    | 52     |
| C-5D               | 207 272   | 1160   | < 1    | 0.07 | < 1    | 1710  | 22     | < 5    | 10     | 140    | 0.16 | < 10   | < 10  | 214   | < 10  | 68     |
| C+5A               | 207 272   | 765    | < 1    | 0.07 | 14     | 1220  | 24     | 5      | 12     | 212    | 0.24 | < 10   | < 10  | 148   | < 10  | 38     |
| C+5B               | 207 272   | 900    | < 1    | 0.07 | 2      | 2020  | 2      | 10     | 10     | 214    | 0.21 | < 10   | < 10  | 190   | < 10  | 44     |
| C+10A              | 207 272   | 1270   | 1      | 0.05 | < 1    | 1920  | < 2    | < 5    | 9      | 324    | 0.32 | < 10   | < 10  | 226   | < 10  | 84     |
| C+10B              | 207 272   | 1230   | < 1    | 0.07 | 10     | 2030  | 18     | < 5    | 9      | 217    | 0.34 | < 10   | < 10  | 248   | < 10  | 72     |
| C+10C              | 207 272   | 1170   | < 1    | 0.09 | 1      | 2040  | 20     | < 5    | 10     | 157    | 0.36 | < 10   | < 10  | 255   | < 10  | 72     |
| C+10D              | 207 272   | 1140   | < 1    | 0.10 | 9      | 2000  | < 2    | < 5    | 8      | 345    | 0.39 | < 10   | < 10  | 251   | < 10  | 70     |
| C+17.5A            | 207 272   | 1085   | 2      | 0.08 | < 1    | 2110  | 2      | 5      | 9      | 369    | 0.42 | < 10   | < 10  | 280   | < 10  | 68     |
| C+17.5B            | 207 272   | 1105   | 1      | 0.07 | < 1    | 2110  | 8      | < 5    | 12     | 419    | 0.39 | < 10   | < 10  | 268   | < 10  | 78     |
| C+20A              | 207 272   | 1030   | < 1    | 0.08 | 7      | 2060  | 18     | 5      | 10     | 268    | 0.42 | < 10   | < 10  | 284   | < 10  | 60     |
| C+20B              | 207 272   | 1040   | < 1    | 0.08 | < 1    | 2090  | 6      | < 5    | 9      | 217    | 0.43 | < 10   | < 10  | 270   | < 10  | 62     |
| C+25A              | 207 272   | 670    | < 1    | 0.10 | 19     | 1900  | 2      | < 5    | 8      | 365    | 0.30 | < 10   | < 10  | 161   | < 10  | 48     |
| C+25B              | 207 272   | 845    | < 1    | 0.08 | 7      | 2080  | < 2    | < 5    | 10     | 652    | 0.39 | < 10   | < 10  | 231   | < 10  | 50     |
| C+25C              | 207 272   | 725    | < 1    | 0.10 | 15     | 1990  | 10     | < 5    | 9      | 179    | 0.42 | < 10   | < 10  | 266   | < 10  | 54     |
| C+25D              | 207 272   | 855    | < 1    | 0.09 | 18     | 1850  | 14     | < 5    | 9      | 458    | 0.42 | < 10   | < 10  | 284   | < 10  | 72     |
| C+25E              | 207 272   | 755    | 5      | 0.12 | 28     | 1930  | 26     | < 5    | 8      | 251    | 0.45 | < 10   | < 10  | 282   | < 10  | 74     |
| C+35A              | 207 272   | 695    | 5      | 0.13 | 18     | 2010  | 12     | < 5    | 8      | 265    | 0.45 | < 10   | < 10  | 303   | < 10  | 56     |
| C+35B              | 207 272   | 840    | 4      | 0.09 | 22     | 2090  | 16     | < 5    | 9      | 392    | 0.49 | < 10   | < 10  | 307   | < 10  | 72     |
| C+35C              | 207 272   | 780    | 4      | 0.10 | 19     | 2040  | < 2    | < 5    | 8      | 316    | 0.47 | < 10   | < 10  | 291   | 10    | 60     |
| C+35D              | 207 272   | 860    | 3      | 0.10 | 14     | 2370  | 6      | < 5    | 9      | 710    | 0.41 | < 10   | < 10  | 248   | < 10  | 52     |
| C+35E              | 207 272   | 980    | 6      | 0.13 | 16     | 2260  | 4      | < 5    | 9      | 629    | 0.40 | < 10   | < 10  | 229   | < 10  | 62     |
| C+45A              | 207 272   | 635    | 6      | 0.09 | 10     | 1990  | 6      | < 5    | 8      | 373    | 0.40 | < 10   | 10    | 269   | < 10  | 50     |
| C+45B              | 207 272   | 630    | 5      | 0.13 | 17     | 1990  | < 2    | < 5    | 8      | 249    | 0.41 | < 10   | < 10  | 273   | < 10  | 52     |
| C+45C              | 207 272   | 750    | 4      | 0.13 | 18     | 2020  | 12     | < 5    | 10     | 268    | 0.46 | < 10   | < 10  | 294   | < 10  | 66     |
| D0A                | 207 272   | 400    | 9      | 0.09 | 25     | 1750  | < 2    | < 5    | 5      | 51     | 0.34 | 30     | 10    | 196   | < 10  | 46     |
| D0B                | 207 272   | 505    | 52     | 0.07 | 36     | 1780  | 18     | < 5    | 8      | 45     | 0.36 | 20     | < 10  | 188   | < 10  | 50     |
| D+5A               | 207 272   | 390    | 15     | 0.08 | 50     | 2070  | 26     | < 5    | 5      | 48     | 0.34 | 20     | 20    | 222   | < 10  | 44     |
| D+5B               | 207 272   | 370    | 14     | 0.08 | 35     | 1860  | 8      | < 5    | 5      | 58     | 0.30 | 20     | < 10  | 216   | < 10  | 42     |
| D+10A              | 207 272   | 415    | 9      | 0.10 | 25     | 1700  | 6      | < 5    | 8      | 64     | 0.38 | 20     | 10    | 234   | < 10  | 48     |
| D+10B              | 207 272   | 495    | 7      | 0.09 | 22     | 1420  | 14     | < 5    | 9      | 87     | 0.42 | 10     | 20    | 233   | < 10  | 54     |
| D+15A              | 207 272   | 325    | 19     | 0.09 | 50     | 1610  | 14     | < 5    | 4      | 61     | 0.26 | < 10   | < 10  | 157   | < 10  | 28     |
| D+15B              | 207 272   | 365    | 11     | 0.09 | 53     | 1400  | < 2    | < 5    | 5      | 76     | 0.31 | < 10   | 20    | 152   | 10    | 28     |
| D+15C              | 207 272   | 305    | 20     | 0.11 | 40     | 1730  | 18     | < 5    | 4      | 62     | 0.31 | 30     | < 10  | 141   | < 10  | 28     |
| D+15D              | 207 272   | 360    | 11     | 0.09 | 23     | 1550  | 30     | < 5    | 8      | 45     | 0.32 | 50     | 20    | 186   | < 10  | 34     |
| D+15E              | 207 272   | 405    | 11     | 0.08 | 24     | 2060  | 26     | < 5    | 8      | 69     | 0.38 | 20     | < 10  | 212   | < 10  | 36     |

CERTIFICATION:

*B. Coughlin*





# Chemex Labs Ltd.

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607 E. 26TH AVE.  
VANCOUVER, BC  
V5V 2H6

Page: 2-A  
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Invoice No.: I-9027216  
P.O. Number: NONE

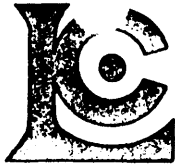
Project:  
Comments:

## CERTIFICATE OF ANALYSIS

### A9027216

| SAMPLE DESCRIPTION | PREP CODE |      | Au      | Ag     | Al   | Ag    | As  | Ba  | Be    | Bi  | Ca   | Cd  | Co  | Cr  | Cu  | Fe   | Ga  | Hg  | K    | La  | Mg   |
|--------------------|-----------|------|---------|--------|------|-------|-----|-----|-------|-----|------|-----|-----|-----|-----|------|-----|-----|------|-----|------|
|                    | oz/T      | oz/T | oz/T    | oz/T   | %    | ppm   | ppm | ppm | ppm   | ppm | %    | ppm | ppm | ppm | ppm | %    | ppm | ppm | %    | ppm | %    |
| D+15F              | 207       | 272  | < 0.002 | 0.01   | 2.39 | < 0.2 | 55  | 30  | < 0.5 | < 2 | 2.71 | 1.0 | 15  | 29  | 211 | 3.43 | 20  | < 1 | 0.14 | 20  | 1.04 |
| D+20A              | 207       | 272  | < 0.002 | 0.01   | 2.60 | < 0.2 | < 5 | 40  | < 0.5 | 6   | 2.37 | 1.0 | 18  | 86  | 214 | 4.61 | 20  | < 1 | 0.15 | 20  | 1.32 |
| D+20B              | 207       | 272  | < 0.002 | 0.01   | 2.33 | < 0.2 | 5   | 40  | < 0.5 | < 2 | 2.54 | 1.0 | 13  | 45  | 169 | 4.07 | 20  | < 1 | 0.17 | 20  | 1.07 |
| D+20C              | 207       | 272  | < 0.002 | < 0.01 | 4.04 | < 0.2 | < 5 | 40  | < 0.5 | < 2 | 4.77 | 0.5 | 9   | 83  | 45  | 2.76 | 20  | < 1 | 0.26 | 10  | 1.17 |
| D+20D              | 207       | 272  | < 0.002 | 0.01   | 3.59 | < 0.2 | < 5 | 50  | < 0.5 | < 2 | 5.05 | 0.5 | 11  | 92  | 40  | 2.56 | 20  | < 1 | 0.24 | 10  | 1.18 |
| D+20E              | 207       | 272  | < 0.002 | < 0.01 | 3.35 | < 0.2 | 15  | 40  | < 0.5 | < 2 | 3.79 | 0.5 | 13  | 53  | 114 | 3.43 | 20  | < 1 | 0.21 | 10  | 0.83 |
| D+25A              | 207       | 272  | < 0.002 | < 0.01 | 4.04 | < 0.2 | < 5 | 60  | < 0.5 | < 2 | 3.52 | 0.5 | 12  | 88  | 20  | 4.25 | 10  | < 1 | 0.25 | 10  | 2.06 |
| D+25B              | 207       | 272  | < 0.002 | < 0.01 | 3.15 | < 0.2 | < 5 | 30  | < 0.5 | < 2 | 3.00 | 0.5 | 23  | 64  | 179 | 4.66 | 10  | < 1 | 0.14 | 20  | 1.34 |
| D+25C              | 207       | 272  | < 0.002 | < 0.01 | 3.03 | < 0.2 | 10  | 50  | < 0.5 | < 2 | 2.93 | 0.5 | 14  | 71  | 146 | 4.35 | 20  | < 1 | 0.18 | 10  | 1.52 |
| D+25D              | 207       | 272  | < 0.002 | < 0.01 | 2.80 | < 0.2 | 20  | 20  | < 0.5 | < 2 | 2.87 | 0.5 | 16  | 61  | 187 | 4.67 | 10  | < 1 | 0.09 | 10  | 1.24 |

CERTIFICATION: B. Coughlin



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VANCOUVER, BC  
V5V 2H6

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Project:  
Comments:

## CERTIFICATE OF ANALYSIS

### A9027216

| SAMPLE DESCRIPTION | PREP CODE |     | Mn  | Mo  | Na   | Ni  | P    | Pb  | Sb  | Sc  | Sr  | Ti   | Tl   | U    | V   | W    | Zn  |
|--------------------|-----------|-----|-----|-----|------|-----|------|-----|-----|-----|-----|------|------|------|-----|------|-----|
|                    |           |     | ppm | ppm | %    | ppm | ppm  | ppm | ppm | ppm | ppm | %    | ppm  | ppm  | ppm | ppm  | ppm |
| D+15F              | 207       | 272 | 270 | 14  | 0.07 | 25  | 1720 | 12  | < 5 | 4   | 41  | 0.26 | 50   | 20   | 146 | < 10 | 24  |
| D+20A              | 207       | 272 | 430 | 16  | 0.07 | 46  | 1440 | 6   | < 5 | 6   | 38  | 0.31 | 30   | 20   | 194 | 20   | 30  |
| D+20B              | 207       | 272 | 360 | 16  | 0.07 | 13  | 1630 | 4   | < 5 | 6   | 50  | 0.29 | 40   | < 10 | 190 | 20   | 26  |
| D+20C              | 207       | 272 | 415 | 6   | 0.14 | 42  | 1360 | 12  | < 5 | 8   | 137 | 0.39 | < 10 | < 10 | 152 | 10   | 26  |
| D+20D              | 207       | 272 | 430 | 4   | 0.13 | 57  | 1380 | 12  | 10  | 6   | 120 | 0.35 | < 10 | < 10 | 134 | < 10 | 26  |
| D+20E              | 207       | 272 | 360 | 14  | 0.11 | 40  | 1530 | < 2 | < 5 | 4   | 80  | 0.33 | 20   | < 10 | 154 | < 10 | 30  |
| D+25A              | 207       | 272 | 565 | < 1 | 0.09 | 10  | 1350 | < 2 | < 5 | 10  | 168 | 0.40 | < 10 | < 10 | 198 | < 10 | 46  |
| D+25B              | 207       | 272 | 405 | 6   | 0.08 | 44  | 1620 | < 2 | < 5 | 6   | 47  | 0.32 | 20   | < 10 | 190 | < 10 | 28  |
| D+25C              | 207       | 272 | 480 | 8   | 0.09 | 28  | 1470 | < 2 | < 5 | 8   | 53  | 0.33 | 10   | < 10 | 198 | < 10 | 34  |
| D+25D              | 207       | 272 | 390 | 11  | 0.07 | 38  | 1560 | 8   | 5   | 6   | 37  | 0.30 | 10   | < 10 | 183 | < 10 | 30  |

CERTIFICATION:



# Chemex Labs Ltd.

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To: THOMLINSON, JOEL

607 E. 26TH AVE.  
VANCOUVER, BC  
V5V 2H6

INVOICE NUMBER

I 9 0 2 7 2 1 7

| BILLING INFORMATION  |  |
|--|--|
| Date:  | 4-DEC-90   |
| Project:   |  |
| P.O. No.:  | NONE   |
| Account:   | ICV  |
| Comments:  |  |
| Billing:   | For analysis performed on<br>Certificate I9027217  |
| Terms:   | Payment due on receipt of invoice<br>1.5% per month (18% per annum)<br>charged on overdue accounts |
| Please Remit Payments to:  |  |
| <b>CHEMEX LABS LTD.</b><br>212 Brooksbank Ave.,<br>North Vancouver, B.C.<br>Canada V7J-2C1 |  |

| CHEMEX CODE                           | ANALYSIS DESCRIPTION  | SAMPLES ANALYSED | UNIT PRICE                    | AMOUNT        |
|---------------------------------------|-----------------------|------------------|-------------------------------|---------------|
| 398                                   | - Au oz/T             |                  |                               |               |
| 385                                   | - Ag oz/T             |                  |                               |               |
| G31                                   | - HI GRADE 32 ICP     | 30               | 21.00                         | 630.00        |
| Sample preparation and other charges. |                       |                  |                               |               |
| 207                                   | - Assay - PULV/SCREEN | 30               | 3.00                          | 90.00         |
| 294                                   | - Crush and split     | 30               | 2.25                          | 67.50         |
|                                       |                       |                  | Total Cost \$                 | 787.50        |
|                                       |                       |                  | <b>TOTAL PAYABLE (CDN) \$</b> | <b>787.50</b> |



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To: THOMLINSON, JOEL

607 E. 26TH AVE.  
VANCOUVER, BC  
V5V 2H6

A9027217

Comments:

CERTIFICATE

A9027217

THOMLINSON, JOEL

Project:  
P.O.#: NONE

Samples submitted to our lab in Vancouver, BC.  
This report was printed on 4-DEC-90.

## SAMPLE PREPARATION

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION                   |
|-------------|----------------|-------------------------------|
| 207         | 30             | Assay pulv, screen -150, roll |
| 294         | 30             | Crush and split (0-10 pounds) |
| 233         | 30             | Assay AQ ICP digestion charge |

\* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

## ANALYTICAL PROCEDURES

| CHEMEX CODE | NUMBER SAMPLES | DESCRIPTION                      | METHOD  | DETECTION LIMIT | UPPER LIMIT |
|-------------|----------------|----------------------------------|---------|-----------------|-------------|
| 398         | 30             | Au oz/T: 1/2 assay ton           | FA-AAS  | 0.002           | 20.00       |
| 385         | 30             | Ag oz/T: Aqua regia digestion    | AAS     | 0.01            | 20.0        |
| 921         | 30             | Al %: 32 element, soil & rock    | ICP-AES | 0.01            | 15.00       |
| 922         | 30             | Ag ppm: 32 element, soil & rock  | ICP-AES | 0.2             | 200         |
| 923         | 30             | As ppm: 32 element, soil & rock  | ICP-AES | 5               | 10000       |
| 924         | 30             | Ba ppm: 32 element, soil & rock  | ICP-AES | 10              | 10000       |
| 925         | 30             | Be ppm: 32 element, soil & rock  | ICP-AES | 0.5             | 100.0       |
| 926         | 30             | Bi ppm: 32 element, soil & rock  | ICP-AES | 2               | 10000       |
| 927         | 30             | Ca %: 32 element, soil & rock    | ICP-AES | 0.01            | 15.00       |
| 928         | 30             | Cd ppm: 32 element, soil & rock  | ICP-AES | 0.5             | 100.0       |
| 929         | 30             | Co ppm: 32 element, soil & rock  | ICP-AES | 1               | 10000       |
| 930         | 30             | Cr ppm: 32 element, soil & rock  | ICP-AES | 1               | 10000       |
| 931         | 30             | Cu ppm: 32 element, soil & rock  | ICP-AES | 1               | 10000       |
| 932         | 30             | Fe %: 32 element, soil & rock    | ICP-AES | 0.01            | 15.00       |
| 933         | 30             | Ga ppm: 32 element, soil & rock  | ICP-AES | 10              | 10000       |
| 951         | 30             | Hg ppm: 32 element, soil & rock  | ICP-AES | 1               | 10000       |
| 934         | 30             | K %: 32 element, soil & rock     | ICP-AES | 0.01            | 10.00       |
| 935         | 30             | La ppm: 32 element, soil & rock  | ICP-AES | 10              | 10000       |
| 936         | 30             | Mg %: 32 element, soil & rock    | ICP-AES | 0.01            | 15.00       |
| 937         | 30             | Mn ppm: 32 element, soil & rock  | ICP-AES | 5               | 10000       |
| 938         | 30             | Mo ppm: 32 element, soil & rock  | ICP-AES | 1               | 10000       |
| 939         | 30             | Na %: 32 element, soil & rock    | ICP-AES | 0.01            | 5.00        |
| 940         | 30             | Ni ppm: 32 element, soil & rock  | ICP-AES | 1               | 10000       |
| 941         | 30             | P ppm: 32 element, soil & rock   | ICP-AES | 10              | 10000       |
| 942         | 30             | Pb ppm: 32 element, soil & rock  | ICP-AES | 2               | 10000       |
| 943         | 30             | Sb ppm: 32 element, soil & rock  | ICP-AES | 5               | 10000       |
| 958         | 30             | Sc ppm: 32 elements, soil & rock | ICP-AES | 1               | 10000       |
| 944         | 30             | Sr ppm: 32 element, soil & rock  | ICP-AES | 1               | 10000       |
| 945         | 30             | Ti %: 32 element, soil & rock    | ICP-AES | 0.01            | 5.00        |
| 946         | 30             | Tl ppm: 32 element, soil & rock  | ICP-AES | 10              | 10000       |
| 947         | 30             | U ppm: 32 element, soil & rock   | ICP-AES | 10              | 10000       |
| 948         | 30             | V ppm: 32 element, soil & rock   | ICP-AES | 1               | 10000       |
| 949         | 30             | W ppm: 32 element, soil & rock   | ICP-AES | 10              | 10000       |
| 950         | 30             | Zn ppm: 32 element, soil & rock  | ICP-AES | 2               | 10000       |



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Analyst: THOMLINSON, JOEL

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Page: 1 of 1  
Total Pages: 1  
Invoice Date: 4-DEC-90  
Invoice No.: I-9027217  
P.O. Number: NONE

Project:  
Comments:

## CERTIFICATE OF ANALYSIS A9027217

| SAMPLE DESCRIPTION | PREP CODE | Au oz/T | Ag oz/T | Al % | Ar ppm | As ppm | Ba ppm | Be ppm | Bi ppm | Ca % | Cd ppm | Co ppm | Cr ppm | Cu ppm | Fe % | Ga ppm | Hg ppm | K %  | La ppm | Mg % |  |
|--------------------|-----------|---------|---------|------|--------|--------|--------|--------|--------|------|--------|--------|--------|--------|------|--------|--------|------|--------|------|--|
| X-046              | 207 294   | < 0.002 | 0.01    | 1.73 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 2.22 | < 0.5  | 35     | 4      | 1640   | 6.11 | 20     | < 1    | 0.05 | 10     | 0.74 |  |
| X-047              | 207 294   | 0.003   | 0.01    | 2.79 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 2.22 | 0.5    | 10     | 56     | 95     | 3.71 | 10     | < 1    | 0.23 | 10     | 1.37 |  |
| X-048              | 207 294   | 0.002   | 0.01    | 2.19 | < 0.2  | < 5    | 60     | < 0.5  | < 2    | 2.30 | 0.5    | 13     | 18     | 199    | 3.80 | 10     | < 1    | 0.25 | 10     | 0.55 |  |
| X-049              | 207 294   | 0.002   | 0.01    | 3.02 | < 0.2  | < 5    | 250    | < 0.5  | < 2    | 1.99 | < 0.5  | 13     | 50     | 76     | 4.05 | 10     | < 1    | 0.63 | 10     | 1.42 |  |
| X-050              | 207 294   | 0.002   | < 0.01  | 0.94 | < 0.2  | < 5    | 40     | < 0.5  | < 2    | 1.28 | < 0.5  | 17     | 30     | 285    | 3.73 | 10     | < 1    | 0.12 | 20     | 0.19 |  |
| X-051              | 207 294   | 0.003   | 0.02    | 3.88 | < 0.2  | < 5    | 70     | < 0.5  | < 2    | 4.64 | < 0.5  | 9      | 37     | 2230   | 4.05 | 10     | < 1    | 0.26 | 10     | 0.95 |  |
| X-052              | 207 294   | 0.002   | < 0.01  | 4.14 | < 0.2  | < 5    | 30     | < 0.5  | < 2    | 4.47 | 0.5    | 7      | 40     | 47     | 2.66 | < 10   | < 1    | 0.34 | 10     | 0.88 |  |
| X-053              | 207 294   | 0.002   | < 0.01  | 3.48 | < 0.2  | < 5    | 260    | < 0.5  | < 2    | 2.34 | < 0.5  | 18     | 17     | 236    | 6.38 | 20     | < 1    | 0.96 | 10     | 2.30 |  |
| X-054              | 207 294   | < 0.002 | 0.01    | 3.94 | < 0.2  | < 5    | 90     | < 0.5  | < 2    | 3.23 | < 0.5  | 18     | 14     | 106    | 6.63 | 10     | < 1    | 0.47 | 10     | 2.28 |  |
| X-055              | 207 294   | < 0.002 | < 0.01  | 3.57 | < 0.2  | < 5    | 130    | < 0.5  | < 2    | 2.97 | < 0.5  | 15     | 4      | 62     | 6.31 | 20     | < 1    | 0.77 | 10     | 1.91 |  |
| X-056              | 207 294   | < 0.002 | < 0.01  | 3.39 | < 0.2  | < 5    | 180    | < 0.5  | < 2    | 2.66 | < 0.5  | 15     | 8      | 204    | 6.16 | 10     | < 1    | 0.78 | 10     | 1.88 |  |
| X-057              | 207 294   | < 0.002 | < 0.01  | 3.65 | < 0.2  | < 5    | 80     | < 0.5  | < 2    | 3.58 | 0.5    | 16     | 14     | 149    | 6.34 | 10     | < 1    | 0.33 | 10     | 1.26 |  |
| X-058              | 207 294   | < 0.002 | < 0.01  | 3.49 | < 0.2  | < 5    | 80     | < 0.5  | < 2    | 4.19 | < 0.5  | 12     | 14     | 79     | 5.88 | 10     | < 1    | 0.34 | 10     | 1.30 |  |
| X-059              | 207 294   | < 0.002 | < 0.01  | 2.96 | < 0.2  | < 5    | 70     | < 0.5  | < 2    | 2.90 | < 0.5  | 14     | 27     | 104    | 5.29 | 10     | < 1    | 0.38 | 10     | 0.90 |  |
| X-060              | 207 294   | < 0.002 | < 0.01  | 3.15 | < 0.2  | < 5    | 220    | < 0.5  | < 2    | 2.76 | < 0.5  | 14     | 10     | 184    | 5.42 | 10     | < 1    | 0.64 | 10     | 1.52 |  |
| X-061              | 207 294   | 0.002   | 0.04    | 3.52 | 1.2    | 20     | 310    | < 0.5  | < 2    | 4.95 | < 0.5  | 14     | < 1    | 1290   | 5.07 | 10     | < 1    | 0.35 | 10     | 1.66 |  |
| X-064              | 207 294   | 0.002   | 0.01    | 3.53 | < 0.2  | 20     | 200    | < 0.5  | < 2    | 3.69 | < 0.5  | 12     | 10     | 87     | 6.11 | 10     | < 1    | 0.72 | 10     | 1.40 |  |
| X-065              | 207 294   | 0.002   | < 0.01  | 1.76 | < 0.2  | 60     | 90     | < 0.5  | < 2    | 1.68 | < 0.5  | 10     | 24     | 174    | 3.81 | 20     | < 1    | 0.27 | 20     | 0.65 |  |
| X-066              | 207 294   | 0.002   | < 0.01  | 3.47 | < 0.2  | < 5    | 80     | < 0.5  | < 2    | 4.28 | < 0.5  | 15     | 34     | 10     | 5.97 | 20     | < 1    | 0.29 | 10     | 1.32 |  |
| X-067              | 207 294   | < 0.002 | < 0.01  | 3.76 | < 0.2  | 5      | 140    | < 0.5  | < 2    | 3.19 | < 0.5  | 15     | 8      | 109    | 6.46 | 20     | < 1    | 0.83 | 10     | 1.94 |  |
| X-068              | 207 294   | < 0.002 | < 0.01  | 2.36 | < 0.2  | 5      | 50     | < 0.5  | < 2    | 2.74 | < 0.5  | < 1    | 24     | 22     | 1.78 | 20     | < 1    | 0.16 | 10     | 0.74 |  |
| X-069              | 207 294   | < 0.002 | < 0.01  | 3.08 | < 0.2  | < 5    | 60     | 0.5    | < 2    | 3.12 | < 0.5  | 6      | 27     | 72     | 3.46 | 20     | < 1    | 0.30 | 10     | 0.83 |  |
| X-070              | 207 294   | < 0.002 | 0.01    | 3.09 | < 0.2  | < 5    | 80     | < 0.5  | < 2    | 3.08 | 1.0    | 12     | 4      | 742    | 5.25 | 10     | < 1    | 0.32 | 10     | 1.24 |  |
| X-071              | 207 294   | < 0.002 | 0.01    | 3.69 | < 0.2  | < 5    | 230    | < 0.5  | < 2    | 2.69 | < 0.5  | 19     | 12     | 112    | 7.20 | 10     | < 1    | 1.19 | 10     | 2.35 |  |
| X-072              | 207 294   | < 0.002 | 0.01    | 2.53 | < 0.2  | < 5    | 150    | < 0.5  | < 2    | 1.99 | < 0.5  | 14     | 10     | 132    | 6.09 | 20     | < 1    | 0.82 | 10     | 1.64 |  |
| X-073              | 207 294   | < 0.002 | < 0.01  | 3.43 | < 0.2  | < 5    | 80     | < 0.5  | < 2    | 3.02 | 0.5    | 14     | < 1    | 55     | 5.44 | 20     | < 1    | 0.49 | 10     | 1.74 |  |
| X-074              | 207 294   | < 0.002 | < 0.01  | 2.43 | < 0.2  | < 5    | 20     | < 0.5  | < 2    | 2.75 | < 0.5  | 13     | 17     | 248    | 3.34 | 10     | < 1    | 0.19 | 10     | 0.46 |  |
| X-075              | 207 294   | < 0.002 | < 0.01  | 1.37 | < 0.2  | < 5    | 10     | < 0.5  | < 2    | 1.86 | < 0.5  | 12     | 9      | 193    | 4.08 | 10     | < 1    | 0.09 | 10     | 0.33 |  |
| X-076              | 207 294   | < 0.002 | 0.01    | 2.03 | < 0.2  | < 5    | 150    | < 0.5  | < 2    | 1.64 | < 0.5  | 15     | 61     | 132    | 3.74 | 10     | < 1    | 0.64 | 10     | 1.11 |  |
| X-077              | 207 294   | < 0.002 | 0.02    | 1.74 | 0.6    | 150    | 50     | < 0.5  | < 2    | 5.98 | 0.5    | 27     | 80     | 622    | 7.14 | 10     | < 1    | 0.24 | < 10   | 0.55 |  |
| X-078              |           |         |         |      |        |        |        |        |        |      |        |        |        |        |      |        |        |      |        |      |  |

*To be assayed from D+15 interval*

CERTIFICATION:

*B. Coughlin*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221

To: THOMLINSON, JOEL

607 E. 26TH AVE.  
VANCOUVER, BC  
V5V 2H6

Page Number: 1-B  
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Invoice Date: 4-DEC-90  
Invoice No.: I-9027217  
P.O. Number: NONE

Project:  
Comments:

## CERTIFICATE OF ANALYSIS

### A9027217

| SAMPLE DESCRIPTION | PREP CODE |     | Mn   | Mo  | Na   | Ni  | P    | Pb  | Sb  | Sc  | Sr  | Ti   | Tl   | U    | V   | W    | Zn  |
|--------------------|-----------|-----|------|-----|------|-----|------|-----|-----|-----|-----|------|------|------|-----|------|-----|
|                    |           |     | ppm  | ppm | %    | ppm | ppm  | ppm | ppm | ppm | ppm | %    | ppm  | ppm  | ppm | ppm  | ppm |
| X-046              | 207       | 294 | 640  | 12  | 0.05 | 1   | 1480 | 20  | 5   | 2   | 645 | 0.19 | < 10 | < 10 | 193 | < 10 | 52  |
| X-047              | 207       | 294 | 300  | < 1 | 0.10 | 15  | 1470 | < 2 | < 5 | 4   | 81  | 0.36 | < 10 | < 10 | 144 | < 10 | 36  |
| X-048              | 207       | 294 | 275  | 12  | 0.13 | 35  | 1610 | 8   | 5   | 2   | 66  | 0.24 | < 10 | < 10 | 106 | < 10 | 38  |
| X-049              | 207       | 294 | 265  | 2   | 0.15 | 19  | 1570 | < 2 | < 5 | 3   | 83  | 0.37 | < 10 | < 10 | 197 | < 10 | 36  |
| X-050              | 207       | 294 | 105  | 8   | 0.09 | 42  | 2020 | 12  | < 5 | < 1 | 40  | 0.17 | 50   | < 10 | 54  | 10   | 16  |
| X-051              | 207       | 294 | 770  | 6   | 0.12 | 21  | 1560 | 2   | < 5 | 8   | 402 | 0.40 | < 10 | < 10 | 226 | 10   | 58  |
| X-052              | 207       | 294 | 535  | 5   | 0.21 | 12  | 1290 | < 2 | < 5 | 4   | 245 | 0.30 | 20   | < 10 | 110 | 10   | 28  |
| X-053              | 207       | 294 | 1415 | 6   | 0.13 | 4   | 2190 | 6   | < 5 | 8   | 195 | 0.45 | 20   | < 10 | 269 | < 10 | 92  |
| X-054              | 207       | 294 | 1055 | 4   | 0.09 | 2   | 1930 | < 2 | < 5 | 8   | 275 | 0.44 | < 10 | < 10 | 258 | < 10 | 78  |
| X-055              | 207       | 294 | 900  | 4   | 0.12 | 13  | 2080 | < 2 | < 5 | 5   | 180 | 0.44 | 10   | < 10 | 263 | < 10 | 68  |
| X-056              | 207       | 294 | 1035 | 4   | 0.12 | < 1 | 2190 | < 2 | < 5 | 5   | 238 | 0.40 | 10   | < 10 | 254 | < 10 | 88  |
| X-057              | 207       | 294 | 840  | 6   | 0.11 | 7   | 2020 | 18  | < 5 | 8   | 196 | 0.42 | 10   | < 10 | 274 | < 10 | 76  |
| X-058              | 207       | 294 | 895  | 4   | 0.14 | 8   | 2070 | 22  | < 5 | 6   | 295 | 0.40 | 20   | < 10 | 254 | < 10 | 80  |
| X-059              | 207       | 294 | 810  | 3   | 0.15 | 3   | 1810 | < 2 | < 5 | 6   | 156 | 0.32 | 30   | 10   | 218 | < 10 | 68  |
| X-060              | 207       | 294 | 690  | < 1 | 0.18 | 8   | 2070 | < 2 | < 5 | 8   | 129 | 0.41 | 10   | < 10 | 242 | < 10 | 52  |
| X-061              | 207       | 294 | 1040 | 1   | 0.31 | 3   | 1990 | 16  | < 5 | 12  | 352 | 0.36 | < 10 | < 10 | 232 | 10   | 54  |
| X-064              | 207       | 294 | 1285 | 3   | 0.53 | 8   | 2270 | 6   | < 5 | 8   | 244 | 0.41 | < 10 | < 10 | 291 | < 10 | 84  |
| X-065              | 207       | 294 | 235  | 4   | 0.12 | 15  | 2220 | < 2 | < 5 | 2   | 71  | 0.32 | 60   | < 10 | 128 | < 10 | 28  |
| X-066              | 207       | 294 | 780  | < 1 | 0.09 | 14  | 1830 | 4   | < 5 | 5   | 509 | 0.40 | < 10 | < 10 | 242 | 10   | 46  |
| X-067              | 207       | 294 | 1225 | 1   | 0.17 | < 1 | 2300 | < 2 | 5   | 8   | 277 | 0.45 | 20   | < 10 | 274 | < 10 | 122 |
| X-068              | 207       | 294 | 195  | 2   | 0.09 | 6   | 1800 | 12  | < 5 | 2   | 48  | 0.27 | 70   | < 10 | 97  | < 10 | 22  |
| X-069              | 207       | 294 | 655  | 2   | 0.58 | 12  | 720  | < 2 | 5   | 5   | 233 | 0.22 | 60   | < 10 | 98  | < 10 | 40  |
| X-070              | 207       | 294 | 710  | 4   | 0.16 | 9   | 2140 | 6   | < 5 | 8   | 160 | 0.39 | 30   | < 10 | 233 | < 10 | 80  |
| X-071              | 207       | 294 | 1060 | < 1 | 0.10 | 7   | 1890 | < 2 | 5   | 6   | 51  | 0.46 | < 10 | < 10 | 305 | < 10 | 102 |
| X-072              | 207       | 294 | 810  | < 1 | 0.08 | 6   | 1980 | < 2 | < 5 | 4   | 100 | 0.40 | 30   | < 10 | 257 | < 10 | 66  |
| X-073              | 207       | 294 | 795  | 3   | 0.10 | < 1 | 2020 | 18  | < 5 | 5   | 481 | 0.40 | 30   | < 10 | 237 | < 10 | 56  |
| X-074              | 207       | 294 | 210  | 4   | 0.10 | 32  | 1650 | < 2 | < 5 | 2   | 65  | 0.37 | 50   | < 10 | 102 | < 10 | 20  |
| X-075              | 207       | 294 | 185  | 7   | 0.08 | 34  | 1780 | < 2 | 5   | 2   | 45  | 0.24 | 50   | < 10 | 59  | < 10 | 16  |
| X-076              | 207       | 294 | 260  | 3   | 0.25 | 27  | 2030 | < 2 | < 5 | 4   | 92  | 0.37 | 60   | < 10 | 175 | < 10 | 32  |
| X-077              | 207       | 294 | 515  | 15  | 0.07 | 47  | 2340 | 14  | 5   | 5   | 168 | 0.14 | 20   | < 10 | 137 | 10   | 28  |

CERTIFICATION:

GEOCHEMICAL ANALYSIS CERTIFICATE

Thom Linson File # 90-6044 Page 1  
607 E. 26th Ave, Vancouver BC V5V 2H6

Total 1195.40

| SAMPLE#          | Mo  | Cu  | Pb  | Zn  | Ag  | Ni  | Co  | Mn   | Fe   | As  | U   | Au  | Th  | Sr  | Cd   | Sb  | Bi  | V   | Ca    | P    | La  | Cr  | Mg    | Ba  | Ti  | B  | Al   | Na  | K   | W   | Au* |
|------------------|-----|-----|-----|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-------|------|-----|-----|-------|-----|-----|----|------|-----|-----|-----|-----|
|                  | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm  | %    | ppm | ppm | ppm | ppm | ppm | ppm  | ppm | ppm | ppm | %     | %    | ppm | ppm | %     | ppm | %   | %  | %    | %   | %   | ppm | ppb |
| X L10+00E 23+00S | 1   | 42  | 12  | 70  | .1  | 25  | 14  | 737  | 3.98 | 5   | 5   | ND  | 1   | 65  | .5   | 2   | 2   | 86  | .62   | .102 | 12  | 45  | .60   | 145 | .22 | 10 | 2.58 | .05 | .24 | 1   | 10  |
| X L10+00E 24+00S | 1   | 34  | 2   | 50  | .1  | 12  | 11  | 440  | 3.84 | 2   | 5   | ND  | 1   | 226 | .2   | 2   | 2   | 94  | 2.57  | .037 | 6   | 26  | 1.20  | 102 | .21 | 14 | 1.89 | .07 | .33 | 1   | 4   |
| X L10+00E 25+00S | 1   | 52  | 2   | 96  | .1  | 18  | 12  | 707  | 3.53 | 2   | 5   | ND  | 1   | 96  | .2   | 2   | 2   | 82  | .84   | .176 | 5   | 30  | .80   | 179 | .19 | 12 | 2.09 | .03 | .28 | 2   | 5   |
| X L10+00E 26+00S | 1   | 59  | 2   | 50  | .1  | 19  | 12  | 503  | 3.68 | 2   | 5   | ND  | 1   | 73  | .2   | 2   | 2   | 99  | .53   | .040 | 6   | 32  | .80   | 84  | .26 | 6  | 1.52 | .05 | .22 | 1   | 1   |
| X L10+00E 27+00S | 1   | 39  | 2   | 67  | .1  | 19  | 9   | 465  | 2.95 | 2   | 5   | ND  | 1   | 87  | .2   | 2   | 3   | 61  | 1.15  | .057 | 8   | 37  | 1.15  | 103 | .17 | 10 | 1.82 | .09 | .23 | 1   | 4   |
| X L10+00E 28+00S | 1   | 43  | 3   | 62  | .2  | 18  | 10  | 517  | 2.96 | 4   | 5   | ND  | 1   | 58  | .2   | 2   | 2   | 70  | .44   | .034 | 5   | 32  | .61   | 105 | .20 | 7  | 1.75 | .04 | .13 | 1   | 7   |
| X L10+00E 29+00S | 1   | 19  | 4   | 68  | .1  | 19  | 10  | 252  | 2.84 | 2   | 5   | ND  | 1   | 48  | .2   | 2   | 3   | 56  | .37   | .197 | 3   | 29  | .47   | 128 | .16 | 7  | 2.08 | .04 | .09 | 1   | 1   |
| X L10+00E 30+00S | 1   | 28  | 9   | 157 | .1  | 38  | 11  | 330  | 3.45 | 3   | 5   | ND  | 1   | 55  | .4   | 2   | 2   | 55  | .57   | .121 | 4   | 40  | .49   | 164 | .17 | 8  | 2.53 | .04 | .13 | 1   | 2   |
| X L10+00E 31+00S | 1   | 32  | 7   | 95  | .1  | 37  | 17  | 578  | 4.13 | 3   | 5   | ND  | 1   | 59  | .3   | 2   | 2   | 68  | .50   | .086 | 9   | 50  | .70   | 127 | .20 | 5  | 2.06 | .04 | .12 | 1   | 2   |
| X L10+00E 32+00S | 1   | 31  | 9   | 122 | .1  | 61  | 17  | 403  | 4.91 | 2   | 5   | ND  | 1   | 45  | .2   | 2   | 2   | 47  | .46   | .065 | 3   | 64  | 1.14  | 76  | .19 | 5  | 2.86 | .05 | .15 | 1   | 2   |
| X L10+00E 33+00S | 1   | 39  | 22  | 110 | .2  | 72  | 23  | 491  | 6.14 | 2   | 5   | ND  | 1   | 49  | .2   | 2   | 2   | 67  | .48   | .080 | 10  | 70  | 1.09  | 115 | .24 | 5  | 4.18 | .04 | .14 | 1   | 2   |
| X L11+00E 23+00S | 1   | 53  | 2   | 41  | .1  | 15  | 10  | 454  | 2.92 | 7   | 5   | ND  | 1   | 232 | .3   | 2   | 2   | 71  | 3.15  | .106 | 6   | 24  | 3.67  | 61  | .14 | 10 | 1.13 | .11 | .15 | 1   | 2   |
| X L11+00E 24+00S | 1   | 45  | 2   | 66  | .1  | 29  | 17  | 615  | 4.60 | 7   | 5   | ND  | 1   | 77  | .2   | 2   | 2   | 102 | .69   | .088 | 8   | 44  | .98   | 119 | .25 | 5  | 2.48 | .05 | .25 | 1   | 1   |
| X L11+00E 25+00S | 1   | 30  | 8   | 52  | .1  | 16  | 15  | 610  | 4.57 | 4   | 5   | ND  | 1   | 78  | .3   | 2   | 2   | 117 | .70   | .099 | 4   | 23  | 1.42  | 93  | .26 | 8  | 2.28 | .04 | .22 | 1   | 2   |
| X L11+00E 26+00S | 1   | 30  | 3   | 51  | .1  | 14  | 14  | 632  | 4.10 | 3   | 5   | ND  | 1   | 79  | .2   | 2   | 2   | 104 | .87   | .127 | 6   | 26  | 1.95  | 82  | .20 | 10 | 2.11 | .05 | .30 | 1   | 2   |
| X L11+00E 27+00S | 1   | 24  | 5   | 54  | .1  | 19  | 10  | 432  | 3.13 | 2   | 5   | ND  | 1   | 49  | .3   | 2   | 4   | 68  | .42   | .058 | 4   | 34  | .58   | 119 | .21 | 5  | 1.75 | .05 | .24 | 1   | 1   |
| X L11+00E 28+00S | 1   | 48  | 3   | 62  | .1  | 21  | 12  | 390  | 3.87 | 2   | 5   | ND  | 1   | 92  | .3   | 2   | 2   | 88  | .66   | .122 | 8   | 35  | .77   | 119 | .23 | 7  | 2.12 | .04 | .23 | 1   | 1   |
| X L11+00E 29+00S | 1   | 31  | 3   | 45  | .1  | 18  | 11  | 322  | 3.27 | 3   | 5   | ND  | 1   | 54  | .2   | 2   | 2   | 84  | .43   | .038 | 3   | 31  | .65   | 57  | .21 | 7  | 1.57 | .04 | .15 | 1   | 2   |
| X L11+00E 30+00S | 1   | 46  | 4   | 50  | .1  | 17  | 10  | 552  | 2.89 | 2   | 5   | ND  | 1   | 74  | .2   | 2   | 2   | 71  | .81   | .056 | 4   | 28  | .71   | 78  | .18 | 6  | 1.48 | .04 | .15 | 1   | 14  |
| X L11+00E 31+00S | 1   | 35  | 10  | 69  | .3  | 49  | 27  | 373  | 7.38 | 2   | 5   | ND  | 1   | 72  | .3   | 2   | 2   | 69  | .77   | .087 | 6   | 54  | 2.75  | 51  | .18 | 4  | 3.09 | .05 | .18 | 1   | 1   |
| X L11+00E 32+00S | 1   | 33  | 13  | 76  | .1  | 35  | 13  | 316  | 3.89 | 2   | 5   | ND  | 1   | 53  | .2   | 2   | 2   | 68  | .44   | .058 | 5   | 41  | .74   | 124 | .21 | 4  | 2.65 | .04 | .09 | 1   | 1   |
| X L11+00E 33+00S | 1   | 34  | 10  | 186 | .1  | 34  | 15  | 1066 | 4.56 | 5   | 5   | ND  | 1   | 65  | .3   | 2   | 2   | 67  | .69   | .047 | 11  | 45  | .82   | 141 | .22 | 7  | 2.67 | .05 | .12 | 1   | 1   |
| X L12+00E 23+00S | 1   | 40  | 5   | 47  | .1  | 12  | 7   | 330  | 2.21 | 2   | 5   | ND  | 1   | 349 | .2   | 2   | 2   | 36  | 4.49  | .091 | 6   | 27  | 10.32 | 74  | .11 | 10 | 1.23 | .19 | .20 | 1   | 1   |
| X L12+00E 25+00S | 1   | 38  | 9   | 59  | .1  | 24  | 14  | 611  | 4.03 | 5   | 5   | ND  | 1   | 90  | .2   | 2   | 2   | 89  | .71   | .142 | 9   | 33  | 1.01  | 146 | .21 | 5  | 2.36 | .04 | .26 | 1   | 6   |
| X L12+00E 26+00S | 1   | 39  | 6   | 61  | .1  | 22  | 12  | 584  | 3.65 | 5   | 5   | ND  | 1   | 64  | .7   | 2   | 2   | 80  | .52   | .049 | 7   | 41  | .61   | 122 | .24 | 6  | 1.97 | .04 | .24 | 1   | 1   |
| X L12+00E 27+00S | 1   | 80  | 4   | 151 | .1  | 12  | 5   | 449  | 1.67 | 3   | 5   | ND  | 1   | 621 | .2   | 2   | 2   | 33  | 15.51 | .139 | 5   | 20  | 3.25  | 94  | .06 | 16 | 1.24 | .05 | .08 | 1   | 3   |
| X L12+00E 28+00S | 1   | 38  | 2   | 34  | .2  | 14  | 7   | 263  | 2.01 | 2   | 5   | ND  | 1   | 563 | .3   | 2   | 4   | 42  | 14.88 | .093 | 5   | 24  | 2.20  | 83  | .09 | 8  | .89  | .09 | .12 | 1   | 1   |
| X L12+00E 29+00S | 1   | 54  | 2   | 56  | .1  | 20  | 12  | 379  | 3.85 | 3   | 5   | ND  | 4   | 89  | .2   | 2   | 2   | 96  | .89   | .058 | 6   | 33  | .79   | 78  | .24 | 5  | 1.73 | .03 | .18 | 1   | 4   |
| X L12+00E 30+00S | 1   | 26  | 7   | 67  | .1  | 16  | 11  | 505  | 3.41 | 2   | 5   | ND  | 1   | 65  | .2   | 2   | 2   | 82  | .56   | .038 | 4   | 30  | .70   | 101 | .24 | 4  | 1.84 | .03 | .16 | 1   | 1   |
| X L12+00E 31+00S | 1   | 49  | 7   | 61  | .1  | 17  | 13  | 361  | 3.60 | 2   | 5   | ND  | 1   | 51  | .2   | 2   | 2   | 76  | .49   | .033 | 8   | 28  | .88   | 58  | .21 | 3  | 1.98 | .04 | .26 | 1   | 22  |
| X L12+00E 32+00S | 1   | 39  | 3   | 45  | .1  | 22  | 12  | 382  | 3.54 | 3   | 5   | ND  | 1   | 67  | .2   | 2   | 2   | 84  | .53   | .069 | 5   | 32  | .77   | 64  | .23 | 4  | 1.70 | .04 | .09 | 1   | 6   |
| X L12+00E 33+00S | 1   | 95  | 7   | 68  | .1  | 22  | 14  | 542  | 4.40 | 4   | 5   | ND  | 1   | 77  | .2   | 2   | 2   | 105 | .64   | .093 | 8   | 33  | 1.11  | 77  | .25 | 2  | 2.10 | .03 | .14 | 1   | 17  |
| X L13+00E 23+00S | 1   | 32  | 6   | 58  | .1  | 21  | 11  | 733  | 3.27 | 6   | 5   | ND  | 1   | 57  | .2   | 2   | 2   | 69  | .52   | .068 | 9   | 38  | .53   | 154 | .19 | 2  | 1.93 | .04 | .22 | 1   | 1   |
| X L13+00E 26+00S | 1   | 176 | 10  | 55  | .1  | 43  | 18  | 548  | 4.88 | 12  | 5   | ND  | 1   | 88  | .2   | 2   | 2   | 123 | .99   | .176 | 13  | 41  | 1.30  | 106 | .24 | 5  | 2.35 | .05 | .14 | 1   | 15  |
| X L13+00E 27+00S | 1   | 45  | 9   | 51  | .1  | 24  | 14  | 427  | 4.00 | 3   | 5   | ND  | 1   | 71  | .2   | 2   | 2   | 90  | .67   | .078 | 6   | 38  | .83   | 83  | .25 | 3  | 1.75 | .06 | .15 | 1   | 1   |
| X L13+00E 28+00S | 1   | 42  | 6   | 51  | .1  | 17  | 7   | 287  | 2.45 | 6   | 5   | ND  | 1   | 364 | .2   | 2   | 2   | 42  | 9.87  | .065 | 7   | 24  | 1.38  | 82  | .10 | 10 | 1.25 | .07 | .12 | 1   | 1   |
| STANDARD C/AU-S  | 20  | 62  | 35  | 133 | 7.3 | 72  | 32  | 1054 | 3.97 | 42  | 18  | 7   | 36  | 53  | 19.0 | 14  | 21  | 58  | .50   | .094 | 37  | 59  | .86   | 179 | .07 | 35 | 1.89 | .05 | .14 | 11  | 53  |

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM. - SAMPLE TYPE: SOIL AU\* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

DATE RECEIVED: NOV 22 1990 DATE REPORT MAILED: Nov 30/90 SIGNED BY: [Signature] D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

| SAMPLE#          | Mo<br>ppm | Cu<br>ppm | Pb<br>ppm | Zn<br>ppm | Ag<br>ppm | Ni<br>ppm | Co<br>ppm | Mn<br>ppm | Fe<br>% | As<br>ppm | U<br>ppm | Au<br>ppm | Th<br>ppm | Sr<br>ppm | Cd<br>ppm | Sb<br>ppm | Bi<br>ppm | V<br>ppm | Ca<br>% | P<br>% | La<br>ppm | Cr<br>ppm | Mg<br>% | Ba<br>ppm | Ti<br>% | B<br>ppm | Al<br>% | Na<br>% | K<br>% | W<br>ppm | Au*<br>ppb |
|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|---------|--------|-----------|-----------|---------|-----------|---------|----------|---------|---------|--------|----------|------------|
| X L13+00E 29+00S | 1         | 22        | 2         | 40        | .2        | 14        | 11        | 371       | 3.59    | 2         | 5        | ND        | 1         | 59        | .2        | 2         | 2         | 88       | .54     | .020   | 4         | 24        | .68     | 49        | .22     | 5        | 1.59    | .04     | .16    | 1        | 1          |
| X L13+00E 30+00S | 1         | 36        | 5         | 79        | .1        | 31        | 14        | 478       | 4.24    | 2         | 5        | ND        | 2         | 63        | .2        | 2         | 2         | 81       | .65     | .044   | 7         | 29        | .98     | 113       | .20     | 3        | 2.85    | .04     | .06    | 1        | 1          |
| X L13+00E 31+00S | 1         | 18        | 2         | 54        | .1        | 13        | 10        | 401       | 3.34    | 2         | 5        | ND        | 1         | 51        | .2        | 2         | 2         | 87       | .49     | .024   | 3         | 21        | .68     | 77        | .23     | 3        | 1.45    | .04     | .15    | 1        | 5          |
| X L13+00E 32+00S | 1         | 38        | 2         | 66        | .1        | 20        | 11        | 401       | 3.66    | 2         | 5        | ND        | 1         | 55        | .2        | 2         | 2         | 92       | .46     | .041   | 4         | 24        | .82     | 87        | .24     | 3        | 1.80    | .03     | .15    | 1        | 3          |
| X L13+00E 33+00S | 1         | 32        | 2         | 113       | .2        | 121       | 30        | 571       | 7.25    | 3         | 5        | ND        | 1         | 60        | .5        | 2         | 2         | 64       | .78     | .108   | 9         | 84        | 2.00    | 47        | .16     | 2        | 2.89    | .05     | .11    | 1        | 4          |
| X L14+00E 23+00S | 1         | 35        | 2         | 54        | .1        | 22        | 9         | 393       | 3.15    | 2         | 5        | ND        | 2         | 60        | .3        | 2         | 2         | 78       | .59     | .083   | 9         | 28        | .48     | 119       | .20     | 3        | 1.83    | .04     | .14    | 1        | 2          |
| X L14+00E 23+50S | 1         | 30        | 4         | 72        | .2        | 22        | 10        | 719       | 3.22    | 2         | 5        | ND        | 2         | 83        | .3        | 2         | 2         | 66       | .64     | .078   | 10        | 36        | .48     | 159       | .22     | 4        | 1.75    | .07     | .24    | 1        | 1          |
| X L14+00E 24+00S | 1         | 30        | 3         | 67        | .1        | 23        | 12        | 906       | 3.25    | 2         | 5        | ND        | 1         | 61        | .2        | 2         | 2         | 66       | .57     | .065   | 10        | 39        | .46     | 198       | .21     | 3        | 1.75    | .06     | .19    | 1        | 3          |
| X L14+00E 24+50S | 1         | 22        | 2         | 54        | .3        | 17        | 7         | 456       | 2.29    | 2         | 5        | ND        | 1         | 87        | .4        | 2         | 2         | 51       | 1.23    | .112   | 10        | 26        | 3.02    | 133       | .16     | 4        | 1.74    | .17     | .14    | 1        | 3          |
| X L14+00E 25+00S | 1         | 34        | 2         | 48        | .2        | 22        | 8         | 407       | 2.42    | 2         | 5        | ND        | 1         | 319       | .2        | 2         | 2         | 57       | 3.36    | .088   | 10        | 24        | 3.52    | 95        | .16     | 4        | 1.14    | .14     | .12    | 1        | 12         |
| X L14+00E 25+50S | 2         | 61        | 2         | 77        | .1        | 31        | 16        | 818       | 3.65    | 16        | 5        | ND        | 1         | 83        | .2        | 2         | 2         | 86       | .77     | .072   | 7         | 33        | .92     | 174       | .19     | 6        | 2.45    | .03     | .25    | 1        | 2          |
| X L14+00E 26+00S | 2         | 56        | 3         | 76        | .1        | 33        | 16        | 689       | 4.06    | 9         | 5        | ND        | 2         | 84        | .3        | 2         | 2         | 98       | .69     | .074   | 9         | 40        | .88     | 159       | .22     | 5        | 2.58    | .04     | .30    | 1        | 1          |
| X L14+00E 26+50S | 4         | 178       | 3         | 58        | .2        | 45        | 22        | 643       | 5.57    | 44        | 5        | ND        | 2         | 185       | .5        | 2         | 2         | 151      | 1.65    | .181   | 12        | 42        | 2.00    | 167       | .23     | 4        | 2.79    | .05     | .21    | 1        | 4          |
| X L14+00E 27+00S | 1         | 33        | 6         | 78        | .1        | 21        | 14        | 569       | 3.90    | 4         | 5        | ND        | 1         | 62        | .2        | 2         | 2         | 87       | .60     | .086   | 4         | 24        | 1.02    | 118       | .21     | 6        | 2.53    | .03     | .24    | 1        | 1          |
| X L14+00E 27+50S | 1         | 36        | 2         | 80        | .2        | 23        | 13        | 605       | 3.72    | 2         | 5        | ND        | 1         | 63        | .2        | 2         | 2         | 79       | .57     | .107   | 5         | 27        | .80     | 159       | .21     | 4        | 2.32    | .03     | .21    | 1        | 2          |
| X L14+00E 28+00S | 1         | 63        | 6         | 65        | .1        | 32        | 14        | 414       | 4.52    | 2         | 5        | ND        | 2         | 73        | .4        | 2         | 2         | 99       | .62     | .059   | 13        | 39        | .95     | 114       | .26     | 4        | 3.07    | .04     | .37    | 1        | 2          |
| X L14+00E 28+50S | 1         | 59        | 2         | 54        | .3        | 16        | 10        | 544       | 3.25    | 2         | 5        | ND        | 1         | 140       | .2        | 2         | 2         | 70       | 1.78    | .031   | 7         | 22        | 1.24    | 90        | .20     | 5        | 1.90    | .07     | .32    | 1        | 2          |
| X L14+00E 29+00S | 1         | 463       | 2         | 50        | .3        | 16        | 6         | 454       | 1.87    | 7         | 5        | ND        | 1         | 243       | .3        | 2         | 2         | 45       | 12.26   | .215   | 6         | 15        | 1.30    | 98        | .08     | 15       | 1.14    | .06     | .14    | 1        | 19         |
| X L14+00E 29+50S | 1         | 31        | 7         | 47        | .3        | 18        | 9         | 344       | 3.15    | 2         | 5        | ND        | 2         | 54        | .2        | 2         | 2         | 71       | .57     | .036   | 4         | 24        | .62     | 80        | .21     | 3        | 1.68    | .04     | .14    | 1        | 2          |
| X L14+00E 30+00S | 1         | 24        | 6         | 122       | .2        | 48        | 12        | 533       | 3.54    | 2         | 5        | ND        | 2         | 55        | .4        | 2         | 2         | 41       | .52     | .149   | 6         | 43        | .59     | 189       | .14     | 7        | 3.26    | .04     | .14    | 1        | 2          |
| X L15+00E 23+00S | 1         | 22        | 6         | 65        | .1        | 18        | 9         | 521       | 3.13    | 2         | 5        | ND        | 2         | 60        | .2        | 2         | 2         | 75       | .43     | .039   | 9         | 31        | .37     | 102       | .22     | 4        | 1.75    | .05     | .15    | 1        | 1          |
| X L15+00E 23+50S | 1         | 20        | 3         | 58        | .1        | 19        | 9         | 399       | 2.81    | 2         | 5        | ND        | 1         | 52        | .2        | 2         | 2         | 57       | .38     | .037   | 7         | 33        | .40     | 113       | .22     | 5        | 1.74    | .07     | .16    | 1        | 1          |
| X L15+00E 24+00S | 1         | 24        | 5         | 73        | .2        | 23        | 11        | 636       | 3.03    | 2         | 5        | ND        | 2         | 63        | .2        | 2         | 2         | 60       | .48     | .071   | 10        | 38        | .49     | 145       | .22     | 5        | 1.76    | .06     | .18    | 1        | 1          |
| X L15+00E 24+50S | 1         | 23        | 6         | 74        | .1        | 22        | 10        | 561       | 3.20    | 2         | 5        | ND        | 1         | 61        | .3        | 2         | 2         | 63       | .50     | .062   | 9         | 34        | .50     | 166       | .21     | 5        | 2.12    | .06     | .21    | 1        | 4          |
| X L15+00E 25+00S | 1         | 33        | 5         | 58        | .2        | 22        | 11        | 637       | 3.33    | 2         | 5        | ND        | 2         | 59        | .3        | 2         | 2         | 72       | .47     | .050   | 9         | 38        | .51     | 141       | .24     | 2        | 1.73    | .07     | .18    | 1        | 2          |
| X L15+00E 25+50S | 2         | 39        | 9         | 48        | .2        | 19        | 10        | 225       | 2.82    | 2         | 5        | ND        | 1         | 48        | .2        | 2         | 2         | 48       | .33     | .022   | 3         | 28        | .40     | 71        | .19     | 5        | 2.15    | .05     | .12    | 1        | 1          |
| X L15+00E 26+00S | 1         | 72        | 9         | 123       | .1        | 24        | 14        | 1152      | 3.20    | 2         | 5        | ND        | 2         | 184       | .4        | 2         | 2         | 66       | 1.10    | .143   | 11        | 28        | .76     | 203       | .17     | 6        | 2.67    | .10     | .19    | 1        | 2          |
| X L15+00E 26+50S | 1         | 28        | 9         | 66        | .1        | 25        | 10        | 526       | 3.01    | 2         | 5        | ND        | 1         | 63        | .2        | 2         | 2         | 53       | .47     | .079   | 6         | 32        | .43     | 122       | .20     | 3        | 1.88    | .05     | .16    | 1        | 1          |
| X L15+00E 27+00S | 1         | 74        | 7         | 67        | .1        | 32        | 13        | 490       | 3.72    | 6         | 5        | ND        | 3         | 74        | .2        | 2         | 2         | 77       | .60     | .049   | 12        | 41        | .60     | 143       | .24     | 3        | 2.68    | .04     | .21    | 1        | 1          |
| X L15+00E 27+50S | 1         | 224       | 10        | 161       | .1        | 26        | 12        | 883       | 3.15    | 9         | 5        | ND        | 2         | 95        | .3        | 2         | 2         | 65       | .92     | .446   | 6         | 24        | .67     | 300       | .17     | 5        | 2.74    | .03     | .12    | 1        | 4          |
| X L15+00E 28+00S | 1         | 62        | 6         | 72        | .1        | 25        | 15        | 436       | 4.48    | 3         | 5        | ND        | 2         | 66        | .4        | 2         | 2         | 100      | .61     | .101   | 6         | 34        | 1.10    | 128       | .25     | 4        | 3.03    | .03     | .22    | 1        | 2          |
| X L15+00E 28+50S | 1         | 113       | 5         | 103       | .1        | 14        | 18        | 704       | 5.17    | 7         | 5        | ND        | 1         | 82        | .5        | 2         | 2         | 139      | .87     | .061   | 6         | 14        | 1.29    | 129       | .27     | 5        | 3.12    | .02     | .46    | 1        | 5          |
| X L15+00E 29+00S | 1         | 155       | 6         | 96        | .1        | 12        | 22        | 819       | 5.83    | 2         | 5        | ND        | 2         | 101       | .6        | 2         | 2         | 155      | 1.12    | .115   | 8         | 11        | 1.50    | 100       | .29     | 3        | 2.95    | .02     | .51    | 1        | 2          |
| X L15+00E 29+50S | 1         | 101       | 4         | 89        | .1        | 11        | 16        | 956       | 4.67    | 2         | 5        | ND        | 1         | 131       | .3        | 2         | 2         | 125      | .82     | .025   | 7         | 12        | .97     | 122       | .22     | 4        | 2.17    | .03     | .41    | 1        | 1          |
| X L15+00E 30+00S | 1         | 44        | 4         | 50        | .1        | 14        | 9         | 443       | 2.99    | 2         | 5        | ND        | 1         | 138       | .4        | 2         | 2         | 68       | 4.27    | .057   | 7         | 18        | 1.33    | 83        | .16     | 7        | 1.61    | .07     | .21    | 1        | 4          |
| X L15+00E 30+50S | 1         | 363       | 5         | 98        | .5        | 40        | 16        | 484       | 4.33    | 3         | 5        | ND        | 1         | 151       | .5        | 2         | 2         | 93       | 2.83    | .192   | 10        | 34        | 2.20    | 116       | .14     | 8        | 2.19    | .06     | .19    | 1        | 6          |
| STANDARD C/AU-S  | 19        | 57        | 41        | 134       | 7.3       | 73        | 31        | 1057      | 3.97    | 42        | 20       | 7         | 39        | 50        | 19.0      | 15        | 20        | 59       | .48     | .099   | 38        | 60        | .87     | 180       | .08     | 33       | 1.90    | .06     | .14    | 12       | 50         |



| SAMPLE#          | Mo<br>ppm | Cu<br>ppm | Pb<br>ppm | Zn<br>ppm | Ag<br>ppm | Ni<br>ppm | Co<br>ppm | Mn<br>ppm | Fe<br>% | As<br>ppm | U<br>ppm | Au<br>ppm | Th<br>ppm | Sr<br>ppm | Cd<br>ppm | Sb<br>ppm | Bi<br>ppm | V<br>ppm | Ca<br>% | P<br>% | La<br>ppm | Cr<br>ppm | Mg<br>% | Ba<br>ppm | Ti<br>% | B<br>ppm | Al<br>% | Na<br>% | K<br>% | W<br>ppm | Au*<br>ppb |
|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|---------|--------|-----------|-----------|---------|-----------|---------|----------|---------|---------|--------|----------|------------|
| X L15+00E 31+00S | 1         | 69        | 2         | 76        | .2        | 13        | 17        | 982       | 3.33    | 4         | 5        | ND        | 2         | 63        | .2        | 2         | 2         | 102      | 1.48    | .110   | 11        | 11        | 2.69    | 43        | .20     | 6        | 2.23    | .03     | .08    | 1        | 1          |
| X L15+00E 31+50S | 1         | 23        | 6         | 50        | .1        | 15        | 11        | 448       | 3.54    | 5         | 5        | ND        | 1         | 50        | .2        | 2         | 2         | 84       | .56     | .034   | 4         | 23        | 1.04    | 53        | .22     | 4        | 1.87    | .05     | .12    | 1        | 2          |
| X L16+00E 23+00S | 1         | 39        | 6         | 81        | .1        | 21        | 10        | 806       | 3.21    | 2         | 5        | ND        | 2         | 79        | .2        | 2         | 2         | 66       | .44     | .030   | 10        | 35        | .52     | 140       | .22     | 6        | 2.28    | .05     | .24    | 1        | 1          |
| X L16+00E 23+50S | 1         | 39        | 3         | 71        | .1        | 21        | 11        | 613       | 3.38    | 4         | 5        | ND        | 3         | 78        | .2        | 2         | 2         | 75       | .51     | .050   | 12        | 36        | .54     | 116       | .23     | 4        | 1.98    | .09     | .24    | 1        | 2          |
| X L16+00E 24+00S | 1         | 20        | 5         | 49        | .1        | 19        | 8         | 225       | 2.51    | 5         | 5        | ND        | 2         | 50        | .2        | 2         | 2         | 38       | .38     | .017   | 9         | 31        | .58     | 132       | .19     | 4        | 2.66    | .07     | .19    | 1        | 2          |
| X L16+00E 24+50S | 1         | 26        | 6         | 62        | .1        | 23        | 10        | 426       | 3.31    | 2         | 5        | ND        | 2         | 66        | .2        | 2         | 2         | 67       | .43     | .057   | 9         | 40        | .54     | 131       | .24     | 4        | 2.00    | .10     | .19    | 1        | 1          |
| X L16+00E 25+00S | 1         | 28        | 8         | 63        | .1        | 21        | 10        | 646       | 3.22    | 2         | 5        | ND        | 2         | 75        | .2        | 2         | 2         | 66       | .53     | .050   | 10        | 38        | .47     | 155       | .21     | 5        | 1.97    | .07     | .20    | 1        | 1          |
| X L16+00E 25+50S | 1         | 16        | 7         | 40        | .1        | 15        | 8         | 306       | 2.77    | 2         | 5        | ND        | 2         | 50        | .2        | 2         | 2         | 65       | .42     | .026   | 5         | 29        | .41     | 69        | .20     | 5        | 1.23    | .07     | .13    | 1        | 1          |
| X L16+00E 26+00S | 2         | 135       | 5         | 56        | .1        | 20        | 7         | 736       | 2.12    | 2         | 6        | ND        | 1         | 453       | .2        | 2         | 2         | 41       | 7.77    | .077   | 10        | 23        | .91     | 98        | .10     | 9        | 1.45    | .09     | .15    | 1        | 4          |
| X L16+00E 26+50S | 1         | 42        | 5         | 63        | .1        | 22        | 10        | 742       | 3.00    | 2         | 5        | ND        | 1         | 77        | .2        | 2         | 2         | 66       | .77     | .059   | 9         | 32        | .52     | 115       | .20     | 5        | 1.63    | .07     | .21    | 1        | 4          |
| X L16+00E 27+00S | 1         | 64        | 2         | 59        | .1        | 36        | 13        | 475       | 3.91    | 2         | 5        | ND        | 2         | 108       | .2        | 2         | 2         | 83       | .76     | .106   | 17        | 44        | .72     | 125       | .23     | 3        | 2.07    | .08     | .15    | 1        | 2          |
| X L16+00E 27+50S | 1         | 29        | 4         | 58        | .1        | 20        | 10        | 438       | 3.05    | 2         | 5        | ND        | 1         | 54        | .2        | 2         | 2         | 61       | .43     | .039   | 7         | 34        | .50     | 97        | .22     | 5        | 1.62    | .08     | .22    | 1        | 1          |
| X L16+00E 28+00S | 1         | 186       | 3         | 77        | .1        | 17        | 17        | 681       | 5.73    | 11        | 5        | ND        | 1         | 77        | .2        | 2         | 2         | 152      | .72     | .105   | 10        | 19        | 1.53    | 92        | .27     | 3        | 3.00    | .03     | .45    | 1        | 8          |
| X L16+00E 28+50S | 1         | 195       | 2         | 92        | .1        | 8         | 20        | 989       | 6.06    | 14        | 5        | ND        | 1         | 110       | .2        | 2         | 2         | 178      | .88     | .133   | 7         | 6         | 2.02    | 128       | .31     | 2        | 2.75    | .01     | .51    | 1        | 3          |
| X L16+00E 29+00S | 1         | 124       | 5         | 140       | .1        | 17        | 14        | 778       | 4.29    | 2         | 5        | ND        | 1         | 55        | .2        | 2         | 2         | 102      | .55     | .050   | 6         | 16        | 1.10    | 207       | .26     | 4        | 3.35    | .03     | .28    | 1        | 4          |
| X L16+00E 29+50S | 1         | 174       | 9         | 116       | .3        | 20        | 15        | 1043      | 4.52    | 6         | 5        | ND        | 2         | 134       | .2        | 2         | 2         | 104      | .90     | .058   | 9         | 26        | .90     | 304       | .23     | 5        | 3.32    | .03     | .40    | 1        | 1          |
| X L16+00E 30+00S | 1         | 56        | 5         | 54        | .1        | 14        | 11        | 390       | 3.81    | 2         | 5        | ND        | 2         | 77        | .2        | 2         | 2         | 99       | .54     | .036   | 6         | 28        | .70     | 96        | .23     | 2        | 1.60    | .04     | .19    | 1        | 8          |
| X L16+00E 30+50S | 1         | 43        | 5         | 56        | .1        | 14        | 11        | 934       | 4.06    | 4         | 5        | ND        | 1         | 73        | .2        | 2         | 2         | 101      | .65     | .022   | 7         | 24        | .63     | 122       | .20     | 4        | 1.49    | .03     | .26    | 1        | 1          |
| X L16+00E 31+00S | 1         | 117       | 4         | 81        | .1        | 43        | 16        | 1026      | 4.13    | 5         | 5        | ND        | 1         | 34        | .2        | 2         | 2         | 72       | .49     | .031   | 9         | 36        | 1.31    | 62        | .19     | 4        | 1.98    | .06     | .11    | 1        | 1          |
| X L16+00E 31+50S | 1         | 93        | 4         | 69        | .1        | 39        | 16        | 513       | 4.35    | 2         | 5        | ND        | 1         | 32        | .2        | 2         | 2         | 68       | .45     | .021   | 9         | 33        | 1.58    | 62        | .19     | 5        | 2.95    | .05     | .13    | 1        | 1          |
| X L16+00E 32+00S | 1         | 32        | 4         | 59        | .1        | 16        | 12        | 456       | 3.68    | 2         | 5        | ND        | 1         | 59        | .2        | 2         | 2         | 90       | .52     | .049   | 4         | 21        | .95     | 79        | .22     | 5        | 1.96    | .04     | .19    | 1        | 2          |
| X L17+00E 23+00S | 1         | 48        | 3         | 63        | .1        | 23        | 11        | 426       | 3.28    | 3         | 5        | ND        | 2         | 77        | .2        | 2         | 2         | 76       | .48     | .048   | 12        | 35        | .53     | 101       | .23     | 4        | 2.11    | .09     | .20    | 1        | 1          |
| X L17+00E 23+50S | 1         | 19        | 3         | 69        | .1        | 14        | 7         | 647       | 2.09    | 2         | 5        | ND        | 1         | 58        | .2        | 2         | 2         | 40       | .36     | .044   | 5         | 21        | .30     | 123       | .14     | 6        | 1.47    | .05     | .19    | 1        | 3          |
| X L17+00E 24+00S | 1         | 46        | 7         | 94        | .1        | 24        | 11        | 641       | 3.41    | 2         | 5        | ND        | 3         | 88        | .2        | 2         | 2         | 67       | .45     | .061   | 11        | 37        | .45     | 144       | .21     | 5        | 2.99    | .05     | .19    | 1        | 1          |
| X L17+00E 24+50S | 1         | 19        | 7         | 61        | .1        | 18        | 8         | 335       | 2.71    | 2         | 5        | ND        | 1         | 59        | .2        | 2         | 2         | 55       | .35     | .031   | 6         | 31        | .36     | 89        | .21     | 4        | 1.76    | .05     | .16    | 1        | 1          |
| X L17+00E 25+00S | 1         | 27        | 7         | 69        | .1        | 19        | 9         | 443       | 3.11    | 2         | 5        | ND        | 2         | 69        | .2        | 2         | 2         | 62       | .47     | .040   | 10        | 34        | .43     | 123       | .21     | 4        | 2.04    | .06     | .20    | 1        | 2          |
| X L17+00E 25+50S | 1         | 42        | 4         | 62        | .1        | 23        | 10        | 565       | 3.04    | 3         | 5        | ND        | 2         | 81        | .2        | 2         | 2         | 59       | .49     | .076   | 12        | 36        | .46     | 128       | .19     | 4        | 2.30    | .06     | .23    | 1        | 2          |
| X L17+00E 26+00S | 1         | 34        | 5         | 54        | .2        | 16        | 8         | 439       | 2.70    | 2         | 5        | ND        | 2         | 108       | .2        | 2         | 2         | 63       | .65     | .042   | 7         | 28        | .74     | 96        | .19     | 8        | 1.96    | .18     | .24    | 1        | 1          |
| X L17+00E 26+50S | 3         | 18        | 5         | 45        | .1        | 17        | 9         | 403       | 3.09    | 4         | 5        | ND        | 1         | 60        | .2        | 2         | 2         | 66       | .43     | .014   | 5         | 34        | .43     | 67        | .25     | 4        | 1.74    | .09     | .14    | 1        | 1          |
| X L17+00E 27+00S | 1         | 23        | 8         | 68        | .1        | 28        | 9         | 274       | 3.05    | 3         | 5        | ND        | 1         | 66        | .2        | 2         | 2         | 49       | .42     | .104   | 5         | 31        | .44     | 192       | .18     | 6        | 2.71    | .05     | .17    | 1        | 1          |
| X L17+00E 27+50S | 1         | 26        | 5         | 74        | .1        | 23        | 10        | 536       | 3.15    | 2         | 5        | ND        | 1         | 60        | .2        | 2         | 2         | 60       | .42     | .045   | 6         | 34        | .49     | 120       | .21     | 4        | 2.13    | .05     | .19    | 1        | 1          |
| X L17+00E 28+00S | 1         | 30        | 6         | 62        | .1        | 24        | 11        | 336       | 3.41    | 3         | 5        | ND        | 1         | 57        | .2        | 2         | 2         | 71       | .48     | .045   | 7         | 37        | .56     | 118       | .23     | 4        | 2.00    | .05     | .20    | 1        | 7          |
| X L17+00E 28+50S | 1         | 64        | 5         | 63        | .1        | 29        | 12        | 484       | 3.52    | 7         | 5        | ND        | 1         | 112       | .2        | 2         | 2         | 82       | .89     | .085   | 13        | 42        | .71     | 146       | .23     | 4        | 2.10    | .10     | .21    | 1        | 2          |
| X L17+00E 29+00S | 1         | 53        | 5         | 84        | .1        | 27        | 13        | 666       | 3.62    | 4         | 5        | ND        | 1         | 61        | .2        | 2         | 2         | 73       | .47     | .109   | 7         | 31        | .76     | 196       | .22     | 4        | 2.93    | .04     | .21    | 1        | 2          |
| X L17+00E 29+50S | 1         | 26        | 5         | 65        | .1        | 19        | 9         | 325       | 2.98    | 3         | 5        | ND        | 1         | 50        | .2        | 2         | 2         | 59       | .41     | .040   | 5         | 31        | .47     | 109       | .22     | 4        | 1.94    | .05     | .17    | 1        | 1          |
| X L17+00E 30+00S | 1         | 13        | 6         | 74        | .1        | 15        | 8         | 357       | 2.55    | 4         | 5        | ND        | 1         | 39        | .2        | 2         | 2         | 52       | .34     | .040   | 4         | 25        | .36     | 122       | .19     | 4        | 1.55    | .04     | .12    | 1        | 1          |
| STANDARD C/AU-S  | 20        | 58        | 39        | 133       | 7.2       | 72        | 31        | 1056      | 3.97    | 43        | 20       | 7         | 38        | 52        | 18.9      | 15        | 19        | 59       | .47     | .094   | 38        | 61        | .87     | 180       | .08     | 33       | 1.90    | .06     | .14    | 13       | 55         |

| SAMPLE#          | Mo<br>ppm | Cu<br>ppm | Pb<br>ppm | Zn<br>ppm | Ag<br>ppm | Ni<br>ppm | Co<br>ppm | Mn<br>ppm | Fe<br>% | As<br>ppm | U<br>ppm | Au<br>ppm | Th<br>ppm | Sr<br>ppm | Cd<br>ppm | Sb<br>ppm | Bi<br>ppm | V<br>ppm | Ca<br>% | P<br>% | La<br>ppm | Cr<br>ppm | Mg<br>% | Ba<br>ppm | Ti<br>% | B<br>ppm | Al<br>% | Na<br>% | K<br>% | W<br>ppm | Au*<br>ppb |
|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|-----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|---------|--------|-----------|-----------|---------|-----------|---------|----------|---------|---------|--------|----------|------------|
| X L17+00E 30+50S | 1         | 31        | 2         | 59        | .1        | 17        | 11        | 595       | 2.86    | 2         | 5        | ND        | 1         | 55        | .3        | 2         | 2         | 74       | .50     | .037   | 7         | 36        | .51     | 113       | .21     | 4        | 1.58    | .03     | .13    | 1        | 1          |
| X L17+00E 31+00S | 1         | 53        | 4         | 61        | .1        | 17        | 14        | 430       | 3.95    | 4         | 5        | ND        | 1         | 65        | .2        | 2         | 2         | 92       | .59     | .035   | 4         | 36        | .78     | 99        | .26     | 3        | 2.09    | .04     | .22    | 1        | 4          |
| X L17+00E 31+50S | 1         | 27        | 5         | 53        | .1        | 15        | 11        | 341       | 2.98    | 2         | 5        | ND        | 1         | 42        | .2        | 2         | 2         | 70       | .49     | .054   | 2         | 31        | .55     | 74        | .18     | 5        | 1.65    | .04     | .15    | 1        | 5          |
| X L17+00E 32+00S | 1         | 35        | 2         | 55        | .1        | 15        | 13        | 449       | 4.14    | 4         | 5        | ND        | 1         | 68        | .2        | 3         | 2         | 97       | .63     | .036   | 2         | 29        | .79     | 82        | .20     | 4        | 1.89    | .03     | .17    | 1        | 1          |
| X L18+00E 23+00S | 1         | 88        | 6         | 100       | .1        | 32        | 13        | 496       | 2.56    | 2         | 5        | ND        | 1         | 113       | .2        | 2         | 2         | 54       | .89     | .092   | 10        | 41        | .89     | 212       | .14     | 8        | 1.74    | .11     | .34    | 1        | 5          |
| X L18+00E 23+50S | 1         | 32        | 3         | 57        | .1        | 21        | 11        | 323       | 2.97    | 2         | 5        | ND        | 1         | 62        | .3        | 2         | 2         | 61       | .43     | .033   | 7         | 40        | .52     | 99        | .22     | 4        | 1.70    | .07     | .13    | 1        | 4          |
| X L18+00E 24+00S | 1         | 34        | 2         | 121       | .1        | 27        | 10        | 570       | 2.68    | 2         | 5        | ND        | 1         | 109       | .2        | 2         | 2         | 39       | .43     | .359   | 9         | 36        | .34     | 205       | .13     | 7        | 1.93    | .05     | .24    | 1        | 3          |
| X L18+00E 24+50S | 1         | 16        | 3         | 78        | .1        | 14        | 8         | 400       | 2.01    | 2         | 5        | ND        | 1         | 45        | .2        | 2         | 2         | 42       | .26     | .050   | 3         | 30        | .26     | 107       | .15     | 4        | 1.41    | .04     | .13    | 1        | 2          |
| X L18+00E 25+00S | 1         | 18        | 2         | 87        | .1        | 14        | 7         | 814       | 1.96    | 2         | 5        | ND        | 1         | 55        | .4        | 2         | 2         | 39       | .34     | .038   | 4         | 27        | .31     | 161       | .14     | 6        | 1.38    | .04     | .17    | 1        | 3          |
| X L18+00E 25+50S | 1         | 51        | 2         | 67        | .1        | 22        | 11        | 501       | 3.11    | 2         | 5        | ND        | 1         | 66        | .3        | 3         | 2         | 57       | .42     | .036   | 12        | 39        | .46     | 110       | .19     | 7        | 2.23    | .05     | .28    | 1        | 3          |
| X L18+00E 26+00S | 1         | 42        | 2         | 59        | .1        | 25        | 13        | 494       | 3.32    | 2         | 5        | ND        | 1         | 64        | .2        | 2         | 2         | 65       | .48     | .067   | 11        | 45        | .55     | 125       | .20     | 5        | 2.09    | .07     | .25    | 1        | 2          |
| X L18+00E 26+50S | 1         | 37        | 3         | 59        | .3        | 16        | 8         | 604       | 1.98    | 2         | 5        | ND        | 1         | 405       | .5        | 3         | 2         | 25       | 13.20   | .132   | 6         | 26        | 2.30    | 117       | .08     | 12       | 1.29    | .10     | .15    | 2        | 1          |
| X L18+00E 27+00S | 1         | 24        | 7         | 43        | .1        | 18        | 10        | 504       | 2.48    | 2         | 5        | ND        | 1         | 51        | .2        | 2         | 2         | 46       | .36     | .039   | 3         | 30        | .40     | 95        | .16     | 8        | 2.13    | .04     | .23    | 2        | 2          |
| X L18+00E 27+50S | 1         | 112       | 6         | 87        | .1        | 46        | 23        | 480       | 4.72    | 2         | 5        | ND        | 1         | 85        | .5        | 4         | 2         | 140      | .61     | .132   | 7         | 71        | 1.07    | 205       | .33     | 6        | 3.21    | .03     | .50    | 1        | 2          |
| X L18+00E 28+00S | 1         | 71        | 2         | 93        | .1        | 58        | 24        | 846       | 4.43    | 10        | 5        | ND        | 1         | 142       | .2        | 4         | 2         | 89       | .50     | .063   | 5         | 60        | .76     | 198       | .24     | 7        | 3.37    | .03     | .23    | 1        | 4          |
| X L18+00E 28+50S | 1         | 27        | 9         | 58        | .1        | 26        | 11        | 297       | 3.00    | 3         | 5        | ND        | 1         | 48        | .2        | 2         | 2         | 59       | .48     | .041   | 3         | 48        | .58     | 69        | .19     | 10       | 2.38    | .04     | .29    | 1        | 3          |
| X L18+00E 29+00S | 28        | 94        | 2         | 81        | .1        | 43        | 21        | 628       | 5.60    | 86        | 5        | ND        | 1         | 76        | .2        | 2         | 2         | 148      | 1.09    | .042   | 4         | 79        | 1.05    | 160       | .30     | 8        | 3.79    | .02     | .47    | 1        | 3          |
| X L18+00E 29+50S | 2         | 36        | 2         | 68        | .1        | 22        | 13        | 610       | 3.37    | 3         | 5        | ND        | 1         | 62        | .2        | 3         | 2         | 67       | .48     | .037   | 7         | 42        | .57     | 117       | .21     | 5        | 2.01    | .05     | .29    | 1        | 1          |
| X L18+00E 30+00S | 1         | 76        | 2         | 56        | .1        | 36        | 17        | 472       | 4.35    | 3         | 5        | ND        | 1         | 91        | .2        | 4         | 2         | 88       | .65     | .088   | 19        | 55        | .86     | 144       | .23     | 4        | 2.93    | .08     | .24    | 1        | 1          |
| X L18+00E 30+50S | 1         | 30        | 2         | 50        | .1        | 21        | 12        | 342       | 3.37    | 2         | 5        | ND        | 1         | 80        | .2        | 2         | 2         | 76       | .59     | .057   | 7         | 39        | 1.01    | 89        | .22     | 6        | 1.72    | .10     | .12    | 1        | 1          |
| X L20+00E 23+00S | 1         | 20        | 2         | 57        | .1        | 15        | 9         | 444       | 2.46    | 2         | 5        | ND        | 1         | 41        | .2        | 2         | 2         | 49       | .32     | .059   | 4         | 37        | .32     | 114       | .17     | 7        | 1.69    | .04     | .13    | 1        | 4          |
| X L20+00E 24+00S | 1         | 29        | 4         | 68        | .1        | 17        | 9         | 471       | 2.59    | 2         | 5        | ND        | 1         | 67        | .2        | 2         | 2         | 51       | .40     | .068   | 5         | 36        | .33     | 117       | .17     | 7        | 1.96    | .04     | .21    | 1        | 1          |
| X L20+00E 25+00S | 1         | 36        | 5         | 61        | .1        | 20        | 9         | 272       | 2.85    | 2         | 5        | ND        | 1         | 75        | .2        | 4         | 2         | 50       | .45     | .102   | 5         | 36        | .40     | 119       | .18     | 8        | 2.29    | .04     | .19    | 1        | 1          |
| X L20+00E 26+00S | 1         | 22        | 2         | 61        | .1        | 14        | 8         | 489       | 2.17    | 2         | 5        | ND        | 1         | 55        | .4        | 3         | 2         | 46       | .33     | .037   | 4         | 31        | .29     | 95        | .16     | 7        | 1.70    | .03     | .13    | 1        | 1          |
| X L20+00E 27+00S | 1         | 44        | 9         | 62        | .1        | 26        | 12        | 473       | 3.31    | 2         | 5        | ND        | 1         | 83        | .2        | 3         | 2         | 62       | .54     | .068   | 11        | 46        | .52     | 108       | .21     | 7        | 2.48    | .06     | .20    | 1        | 5          |
| X L20+00E 28+00S | 1         | 51        | 4         | 57        | .1        | 42        | 17        | 509       | 4.49    | 2         | 5        | ND        | 2         | 90        | .2        | 3         | 2         | 75       | .59     | .060   | 16        | 60        | .79     | 115       | .21     | 5        | 2.82    | .05     | .27    | 1        | 1          |
| X L20+00E 29+00S | 1         | 159       | 2         | 72        | .2        | 36        | 18        | 744       | 5.08    | 3         | 5        | ND        | 1         | 312       | .2        | 3         | 2         | 106      | 6.61    | .166   | 18        | 38        | 1.15    | 138       | .18     | 8        | 2.70    | .09     | .27    | 1        | 4          |
| X L20+00E 30+00S | 4         | 79        | 9         | 151       | .1        | 43        | 22        | 1215      | 4.51    | 46        | 5        | ND        | 1         | 95        | .2        | 3         | 2         | 89       | .96     | .110   | 10        | 48        | .66     | 251       | .19     | 6        | 3.15    | .02     | .24    | 3        | 9          |
| X L20+00E 31+00S | 1         | 68        | 9         | 139       | .1        | 20        | 17        | 1131      | 4.04    | 2         | 5        | ND        | 1         | 62        | .2        | 2         | 2         | 95       | .71     | .114   | 6         | 29        | 1.02    | 250       | .25     | 9        | 2.81    | .02     | .29    | 1        | 3          |
| X L20+00E 32+00S | 1         | 31        | 7         | 37        | .2        | 11        | 8         | 355       | 2.11    | 2         | 5        | ND        | 1         | 39        | .2        | 2         | 2         | 53       | .37     | .025   | 4         | 29        | .47     | 65        | .15     | 7        | 1.80    | .04     | .10    | 1        | 1          |
| X L20+00E 33+00S | 1         | 28        | 2         | 50        | .1        | 16        | 8         | 521       | 2.29    | 2         | 5        | ND        | 1         | 55        | .2        | 3         | 2         | 55       | .46     | .052   | 5         | 33        | .42     | 89        | .16     | 8        | 1.48    | .04     | .12    | 1        | 1          |
| STANDARD C/AU-S  | 19        | 62        | 45        | 135       | 7.1       | 72        | 32        | 1046      | 3.99    | 40        | 17       | 7         | 36        | 53        | 19.0      | 14        | 22        | 56       | .47     | .095   | 36        | 59        | .86     | 179       | .07     | 36       | 1.90    | .06     | .14    | 11       | 52         |

Appendix V

Statement of Qualifications

I, Joel J Thomlinson, of 607 E. 26th Ave. Vancouver, B.C., Canada declare that:

- 1) I am a prospector, whose mailing address is the same as above.
- 2) I have been conducting geochemical surveys, and prospecting since 1979, with the exception of the 1985 field season.
- 3) I attended the B.C. and Yukon Chamber of Mines Prospecting School in 1988.
- 4) At the time this report was submitted I was the holder of F.M.C. no. 126793.
- 5) This report is based upon my personal field examination of the X property.

I, Arnold G. Thomlinson BA.MSc., of 4520 Todd St., Vancouver, B.C., declare that:

- 1) I am a geologist, whose mailing address is the same as above.
- 2) I attended U.B.C. and graduated with a Bachelor's Degree in Geology, 1951, and earned a Master's Degree in Science, 1953.
- 3) I have examined hand specimens from the X property
- 4) Appendix IIIa) of this report contains my descriptions and identifications.

Signed

Joel J. Thomlinson



Signed

Arnold G. Thomlinson

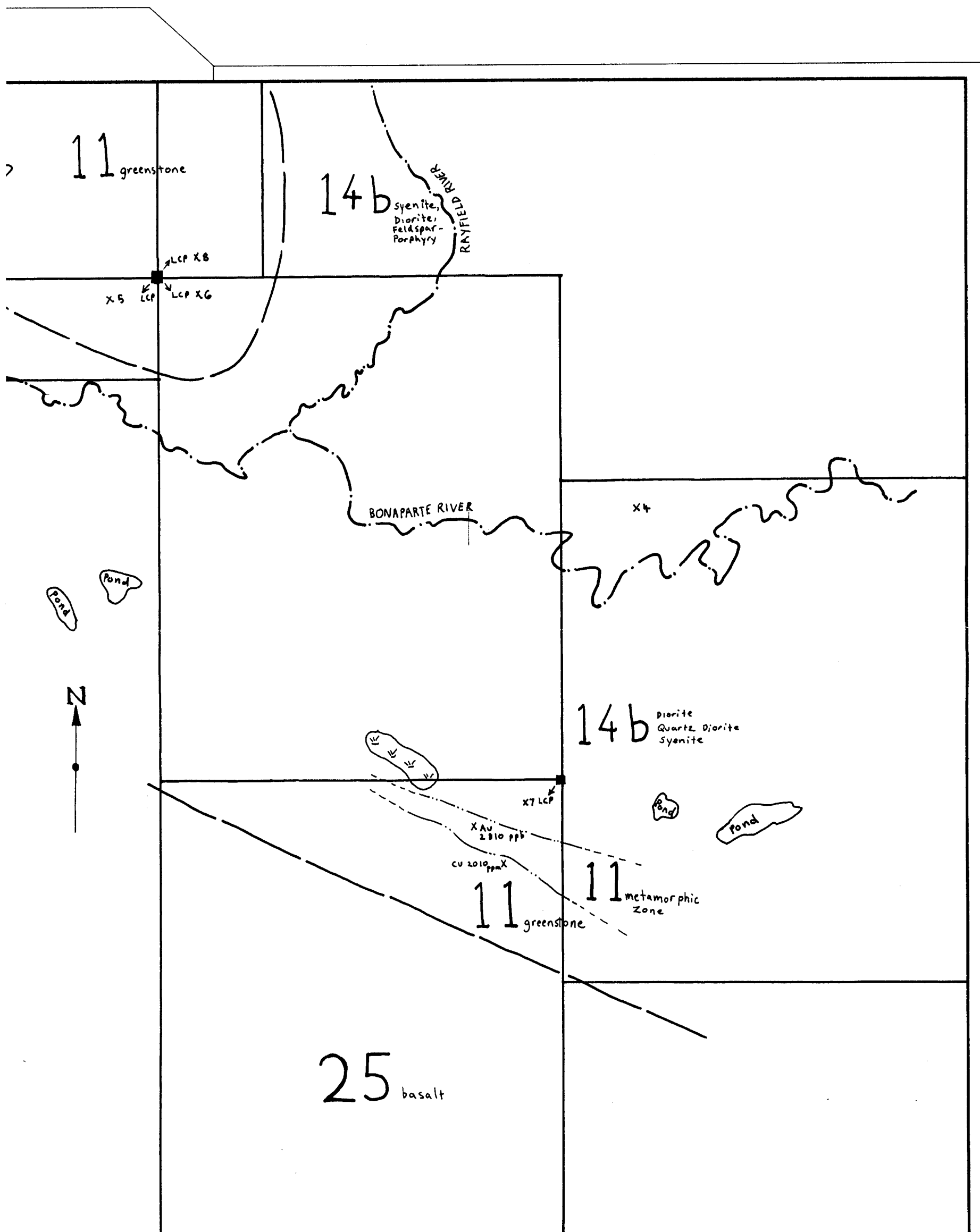


Dated at Vancouver, B.C. this 13th day of October, 1992.

Appendix VI

References

- Campbell R.B. and Tipper H.W. 1972  
Geology of the Bonaparte Lake Map Area B.C.  
Geological Survey of Canada Memoir 363.



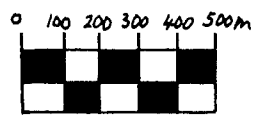
**X CLAIM GROUP**

Geological Contact as defined by GSC MAP 1278A  
 Geological Contact as indicated by out crops on x claims

|                  |                  |
|------------------|------------------|
| Drawn by: A.G.T. | TRACED BY J.J.T. |
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**GEOLOGY**

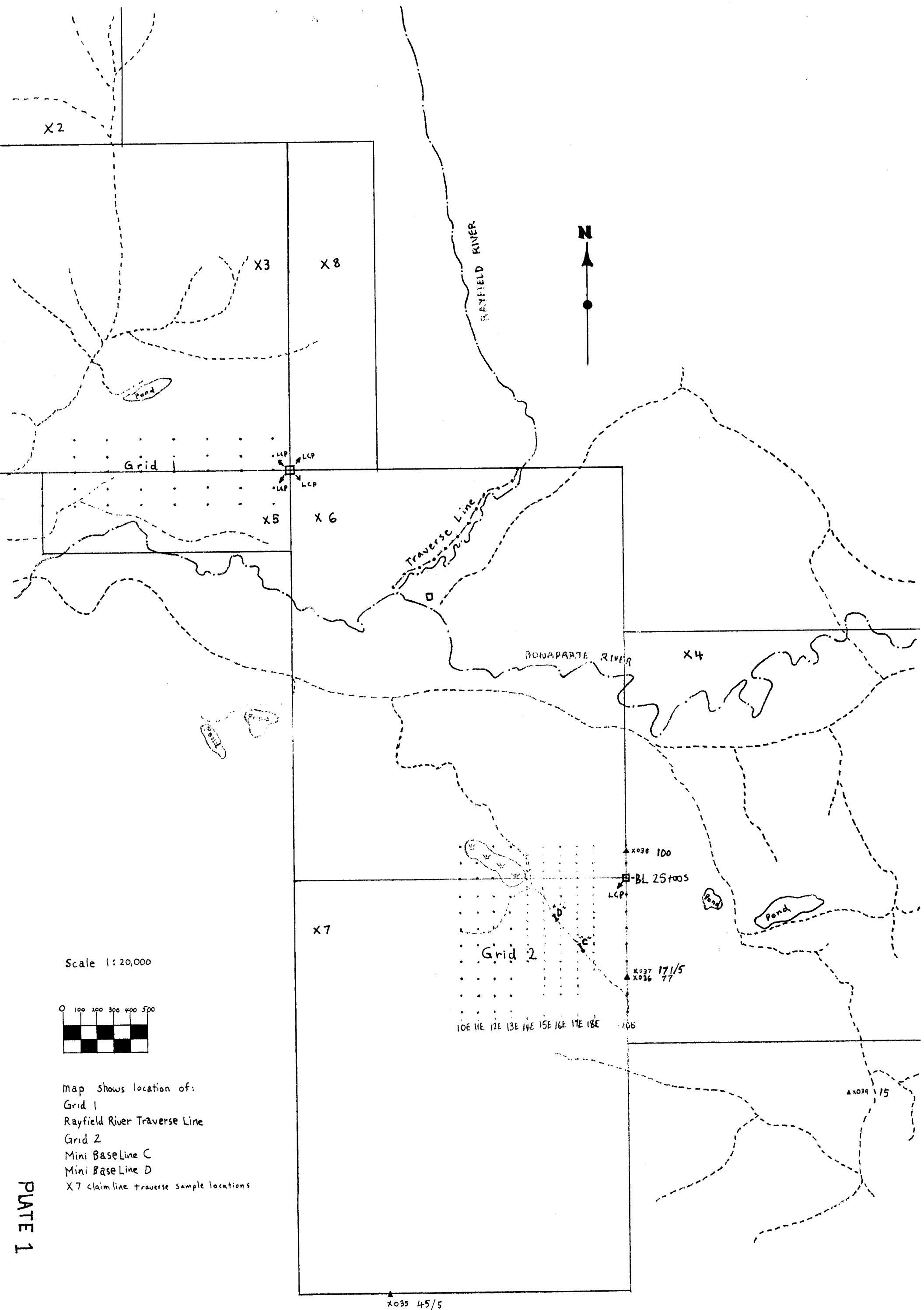
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- 14b THUYA BATHOLITH
- 25 PLATEAU LAVA



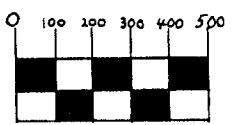
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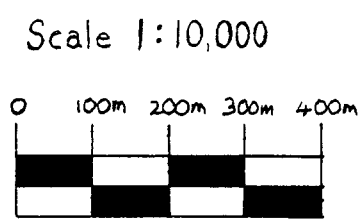
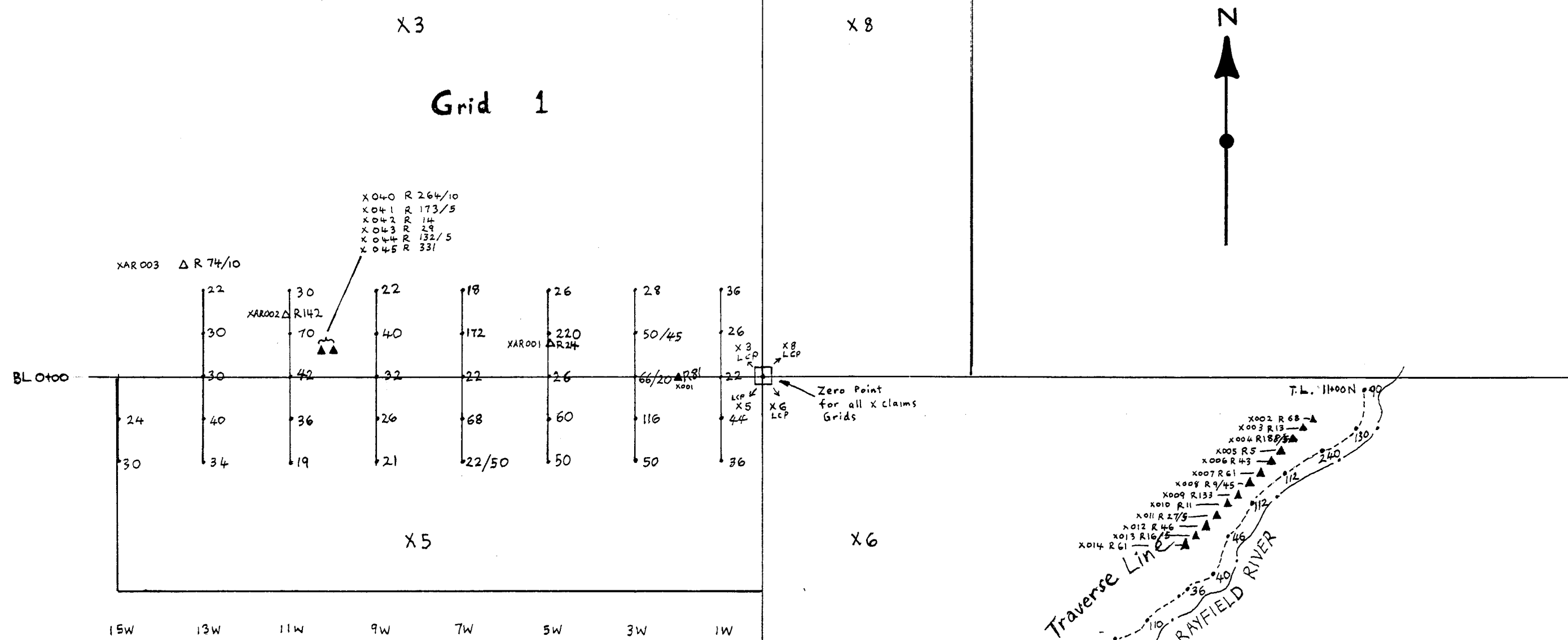
fig. 3



Scale 1:20,000



Map shows location of:  
 Grid 1  
 Rayfield River Traverse Line  
 Grid 2  
 Mini BaseLine C  
 Mini BaseLine D  
 X7 claimline traverse sample locations

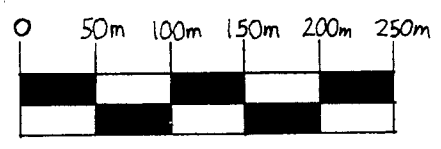


| Symbol | Description      |
|--------|------------------|
| ○      | Cuppm /Auppb     |
| ●      | Soil eg: 50/45   |
| ▲      | Rock eg: R264/10 |



X 6

X 7

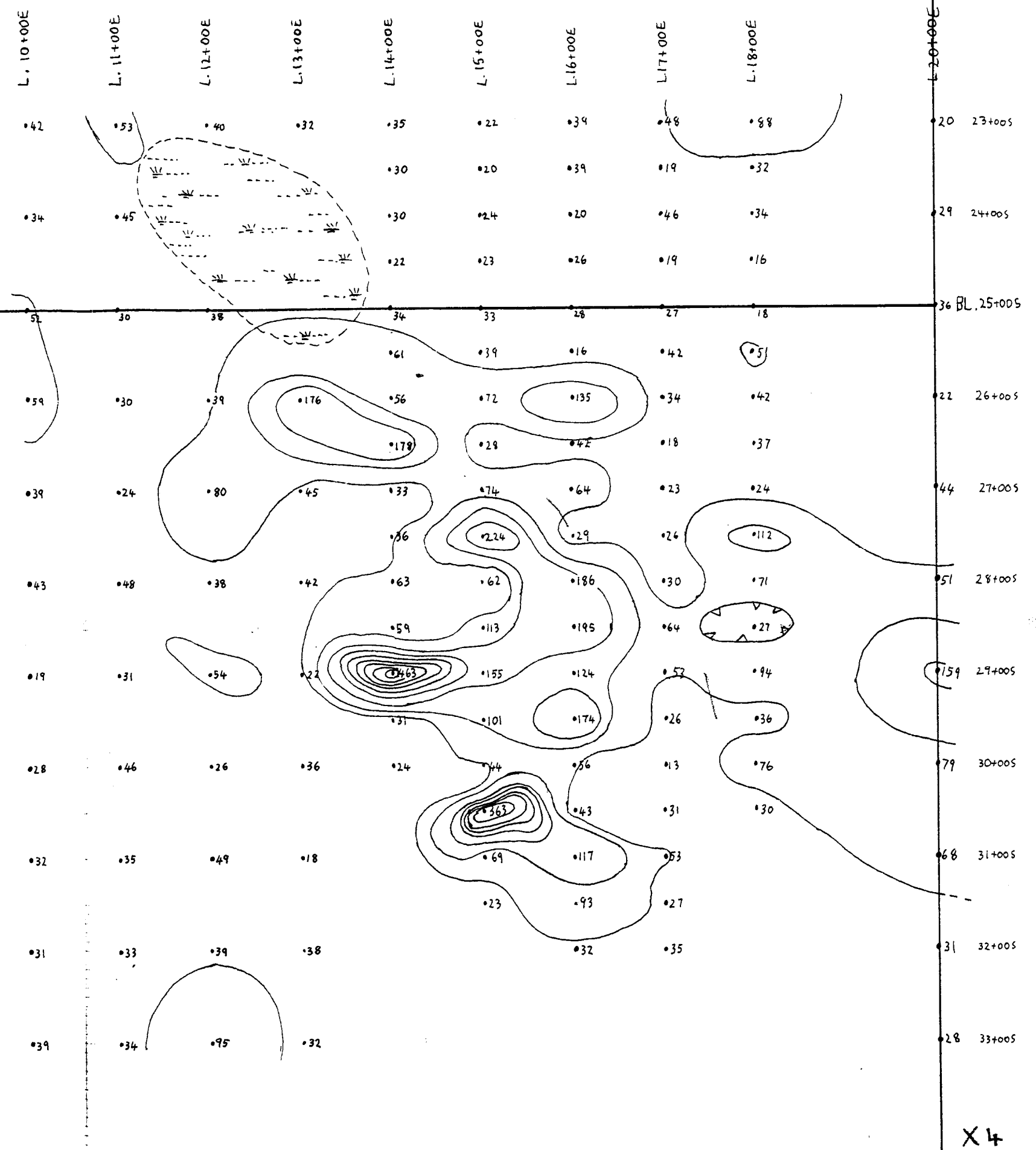


Soil Geochem

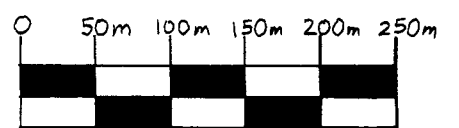
X claims

Scale 1:5,000

Cu ppm iso lines at 50 ppm contour intervals



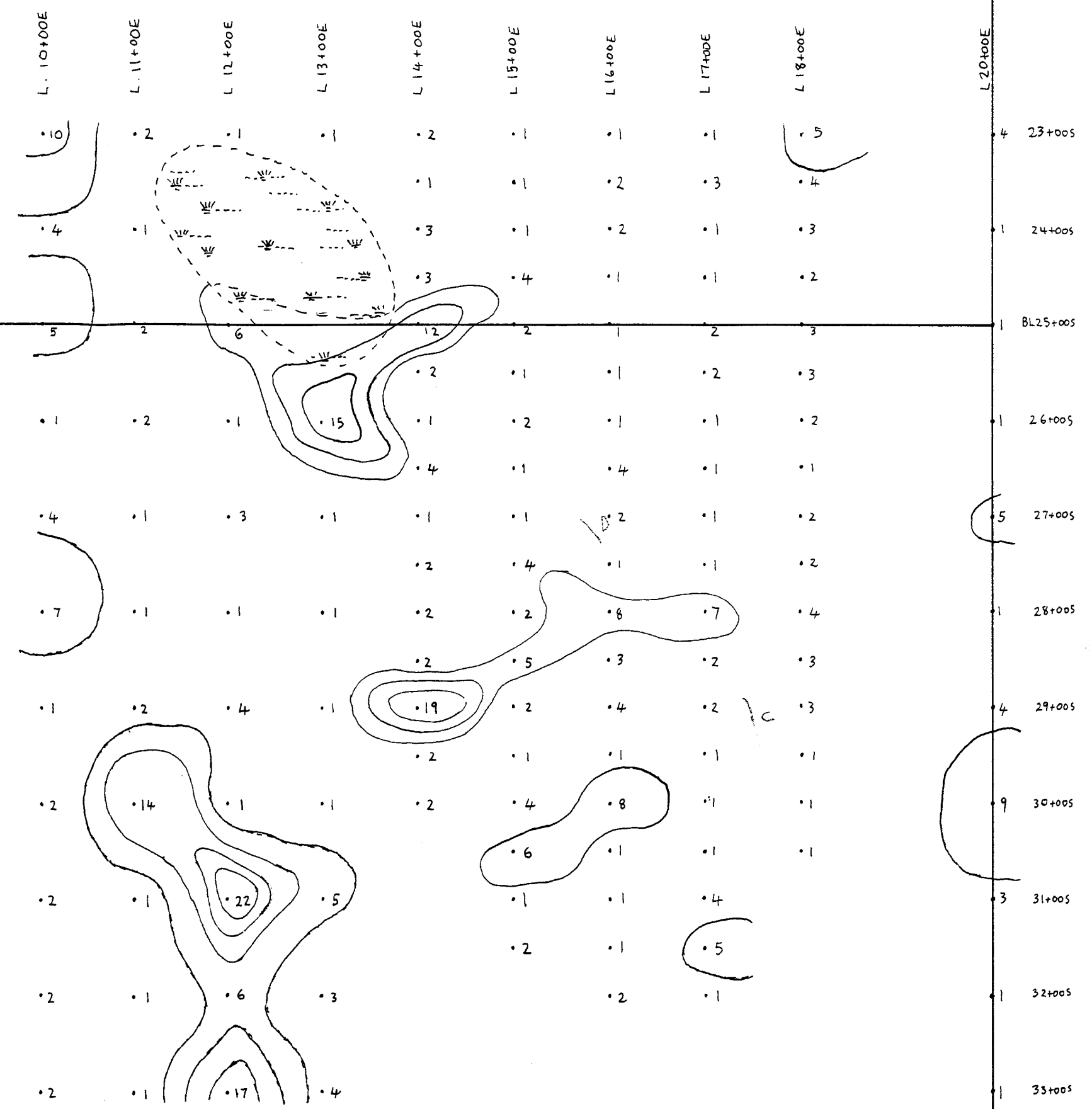




Soil Geochem  
X claims  
Scale 1:5,000

Aupp iso lines at 5 ppb contour intervals

X 6  
X 7

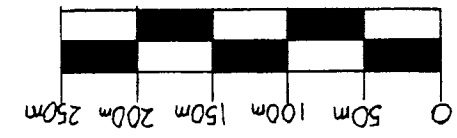


Cu ppm } Au ppb } see next map

Scale 1:5,000

X Claims

Rock Geochem Locations



X 7

X 6

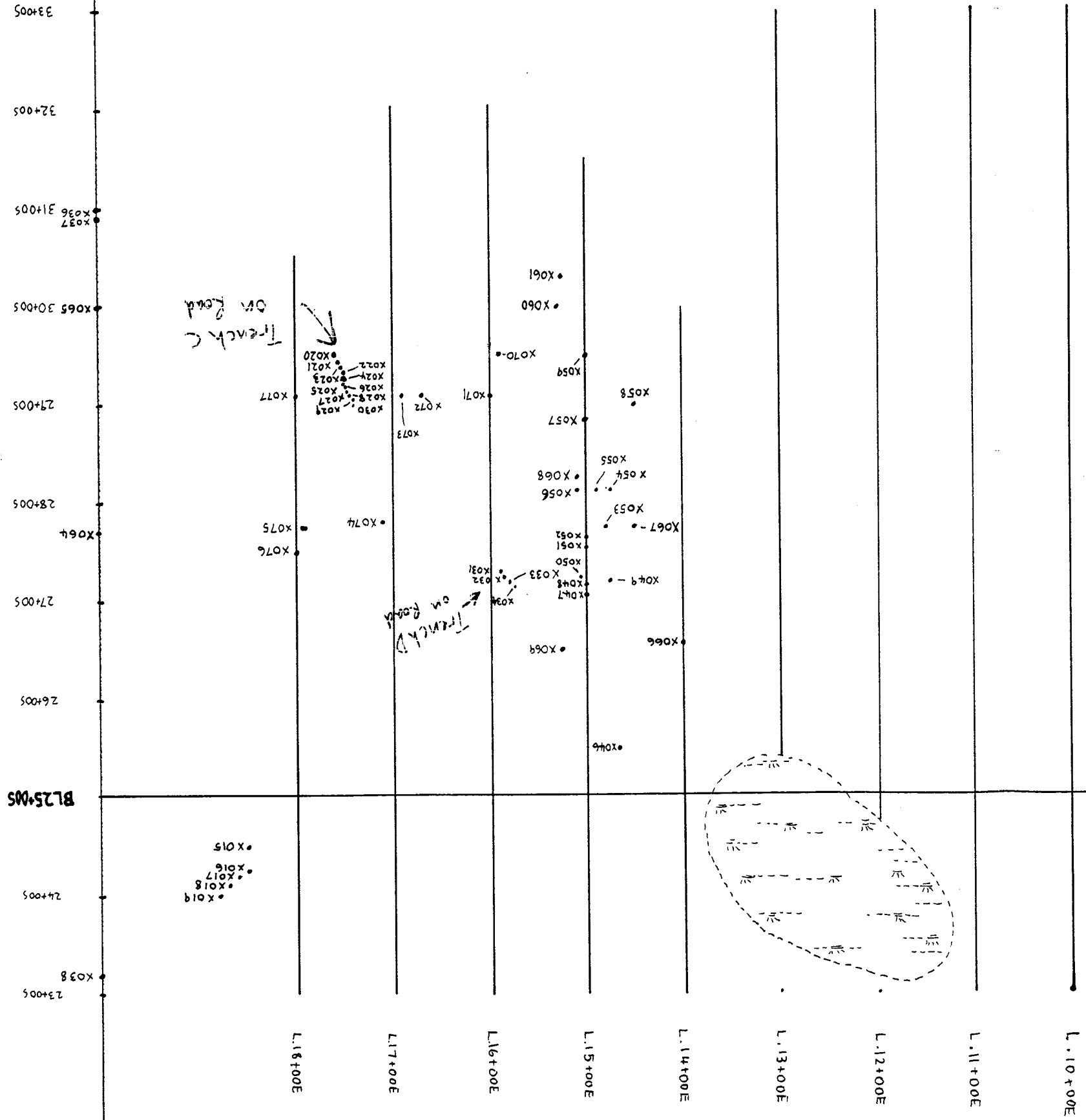


PLATE 5

X 4

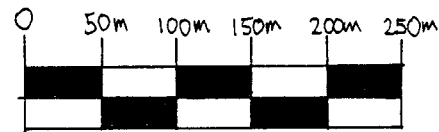


Rock Geochem

X claims

Scale 1:5,000

Cu ppm / Au ppb



X 6

X 7

L 10+00E  
L 11+00E  
L 12+00E  
L 13+00E  
L 14+00E  
L 15+00E  
L 16+00E  
L 17+00E  
L 18+00E

L 20+00E

23+00S  
100  
24+00S  
25+00S  
BL 25+00S  
26+00S  
27+00S  
87/60  
28+00S  
29+00S  
30+00S  
174/50  
31+00S  
77  
171/5  
32+00S  
33+00S

27  
18  
36  
32  
122

1640

10/60

72

95/90  
199/60  
245/60  
76  
22

458/5  
172/215  
57/35  
17/2810

2230/90  
47/60  
236/60  
109  
106  
62  
204

248  
132  
193

79  
149  
112  
104  
742

9-1/2 93/10  
4  
20/5  
26  
240  
20  
99  
2010/95  
15  
622

184  
1290/60

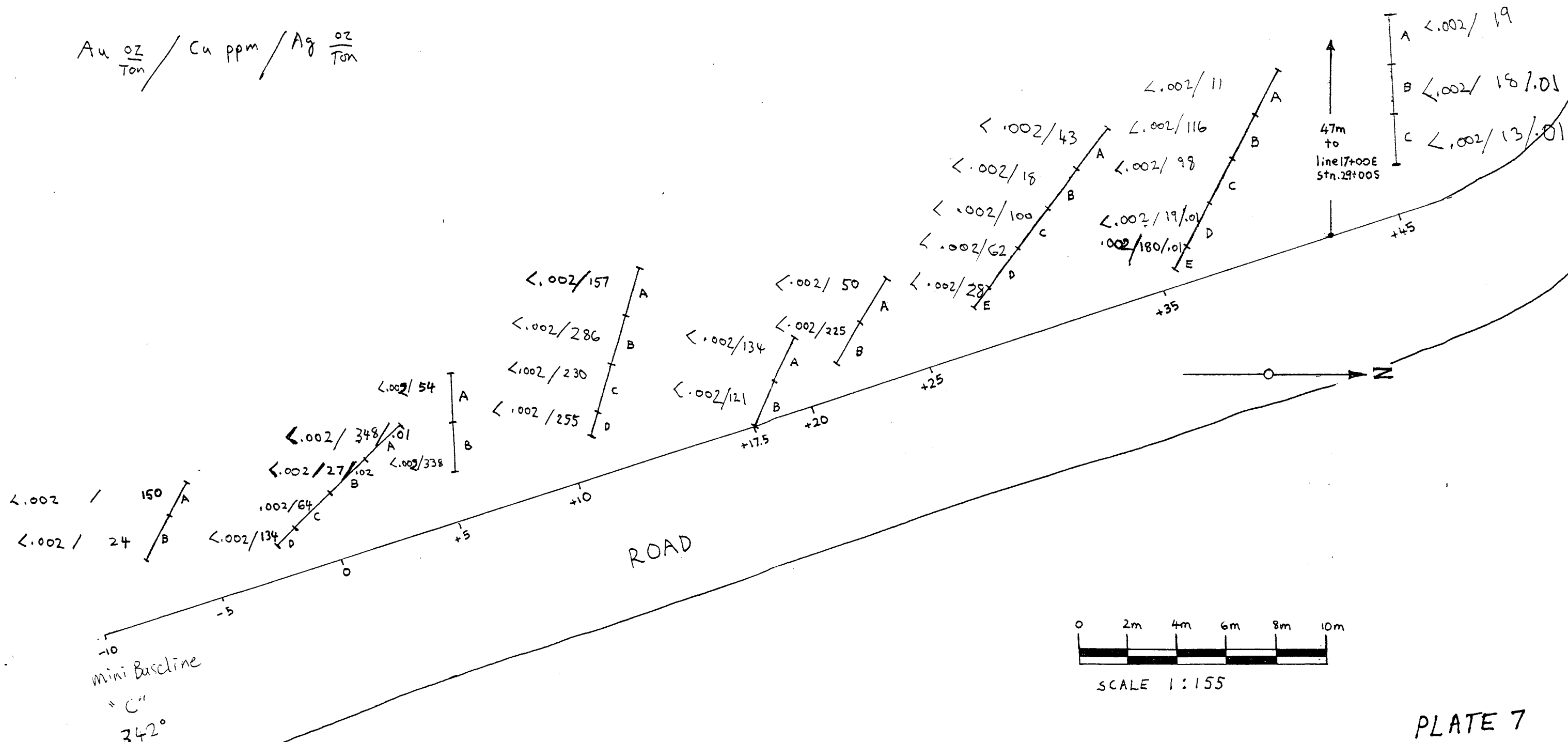
174/50

X 4

PLATE 6

# Mini Baseline "C" and Channel Samples C-10A to C+45C

Au  $\frac{oz}{Ton}$  / Cu ppm / Ag  $\frac{oz}{Ton}$



Mini Baseline "D" and channel samples DOA to D+25D

Au  $\frac{oz}{Ton}$  / Cu PPM / Ag  $\frac{oz}{Ton}$  / AS PPM

