1999 GEOLOGICAL and GEOCHEMICAL ASSESSMENT

# REPORT ON THE GLACIER PROPERTY

(Glacier 1-18 YC07626-7643)
(Glacier 19-26 YC12170-2177)

094036

NTS: 116C/2

Latitude 64°05'N

Longitude 140°48'W

Dawson Mining Division

Work performed between July 5 and July 11, 1999



**Owner:** Teck Corporation,
600 - 200 Burrard Street,
Vancouver, B.C.
V6C 3L9

**Operator:** Teck Exploration Ltd.
350 - 272 Victoria Street,
Kamloops, B.C.
V2C 2A2

**Jean Pautler**
**Mike Papageorge**
**November, 1999**

This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 5200.00.

M. B

for Regional Manager, Exploration and Geological Services for Commissioner of Yukon Territory.

**SUMMARY:**

The Glacier property, comprising 28 claims (1300 ha), was staked by Teck in April, 1998. The property is located 65 km west of Dawson City, Y.T.

Despite the very limited exposure on the Glacier property, it appears to be underlain by Proterozoic and/or Paleozoic Nasina Series metasedimentary basement rocks locally overlain by Cretaceous volcanic rocks. Several fault zones are evident on the property that trend roughly north-northeast.

Mineralization appears to be confined to small quartz, galena, chalcopyrite veinlets and stockwork zones with rare pyrite and malachite, although larger blocks of barren quartz have been observed on the claim group.

Property scale prospecting and sampling in 1999 resulted in the detection of two new multi-site and multi-element soil anomalies that may be an extension of the fault structures observed in Trenches 4 and 5. No new stream sediment anomalies were detected. Rock samples of note include grab samples 07014 and 07016, quartz veinlets with rusty blebs, chalcopyrite, galena, trace pyrite, and malachite with rusty iron oxide and manganese altered fracture surfaces, which returned gold values of 800 and 355 ppb, respectively.

It is recommended that future work on the claims focus on extending the two new soil anomalies. Soil profile samples should be collected in Trenches 4 and 5, above the fault zones, for comparison, in order to determine the significance or possible source of the new soil anomalies. Further prospecting of the ground is encouraged, along with categorisation of the styles of mineralization in association with anomalous Au, As and base metals, to gain a better understanding of the mineralizing system.

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# APPENDICES

## 1. LOCATION AND ACCESS (Figure 1)

The Glacier property, NTS map sheet 116C/2, is located 65 km west of Dawson City, Y.T. in the Dawson Mining Division. It is situated between Glacier and Miller Creeks, both tributaries of the Sixty Mile River. Latitude and longitude of the property are 64°05'N, 140°48'W. Access is via the Top of the World Hwy and the Sixty Mile road from Dawson City. A rough four wheel drive road accesses the trench area on the property.

## 2. LEGAL DESCRIPTION (Figure 2)

The Glacier Claim Group consists of 26 contiguous Glacier claims covering an area of approximately 1300 hectares. The property is owned by Teck Corporation, Vancouver, B.C. and Teck Exploration Ltd., of Kamloops, B.C., was the operator. A table showing pertinent claim data follows:

| Claim Name | Record No. | Expiry Date | Years to be Applied | New Expiry Date |
|---|---|---|---|---|
| Glacier 1-18 | YC07626-7643 | July 22, 1999 | 2 | July 22, 2001* |
| Glacier 19-26 | YC12170-2177 | July 22, 1999 | 2 | July 22,2001* |

* Note: New expiry date based on acceptance of this report.

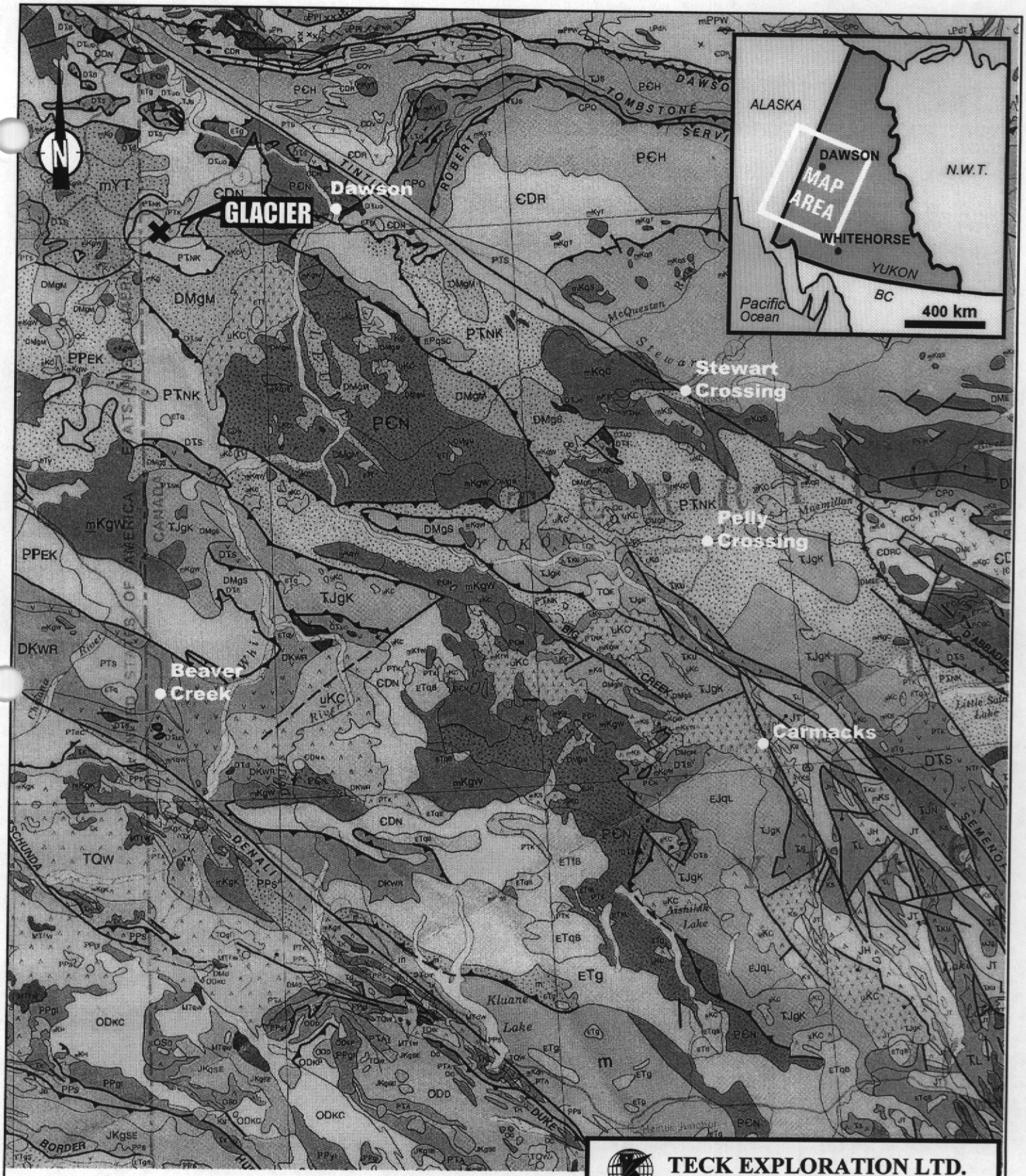
## 3. PHYSIOGRAPHY

The claims cover an area of rolling, tree covered hills in the Yukon Plateau. Exposure is extremely poor but does exist along some of the slopes as talus boulders. Elevations on the property range from 2500' to 3700'. Vegetation includes trees, buckbrush and moss.

## 4. HISTORY

The Glacier property was previously staked as the Falcon claims that were later surrounded by the Gla Claims between 1986 and 1989. Mapping and soil sampling was completed on the Gla claims, and both properties were trenched.

Teck staked the property in 1998 based on an anomalous heavy mineral and silt anomaly from two adjacent tributaries of Glacier Creek.

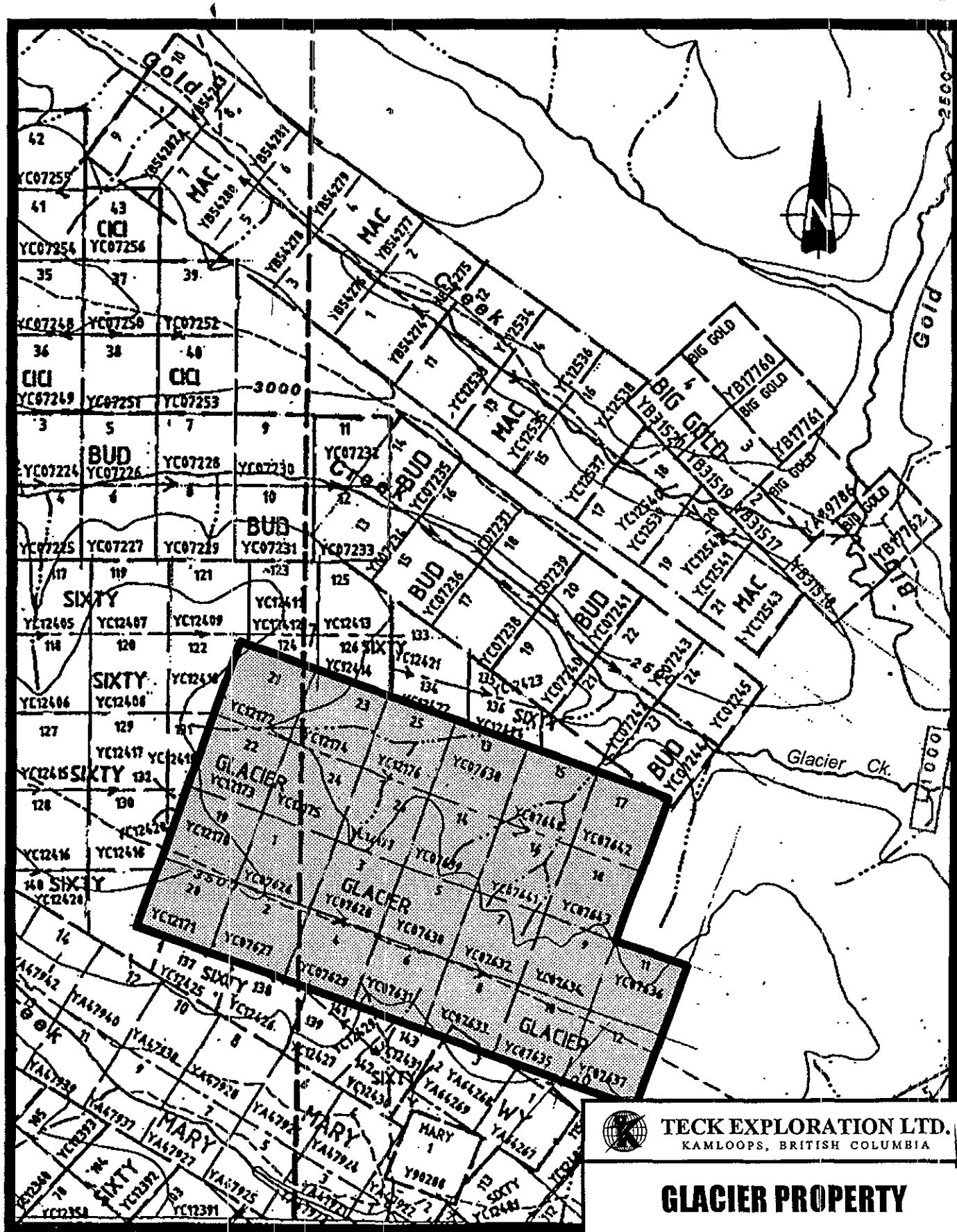



TECK EXPLORATION LTD.
KAMLOOPS, BRITISH COLUMBIA

**GLACIER PROPERTY**

# LOCATION and REGIONAL GEOLOGY

**FIGURE 1**




TECK EXPLORATION LTD.
KAMLOOPS, BRITISH COLUMBIA

# GLACIER PROPERTY

# Claim Map

| SCALE: 1:30,000 | DATE: 02-16-99 | NTS No: 116C/2S | FIGURE 2 |
|---|---|---|---|

## 5. 1999 WORK

Fourteen man-days were spent on the Glacier property between July 5 and 11, 1999. Work consisted of initial prospecting, stream sediment, soil and rock sampling, and property scale mapping. Control was provided by 1:50,000 based topographic maps, hipchain and compass.

## 6. GEOLOGY

### a) Regional (Figure 1)

The regional geology of the Glacier occurrence is represented on the Dawson Map Sheet (116 B,C) Green and Roddick, 1961. The Glacier claims are shown to be underlain by Proterozoic and/or Paleozoic Nasina Series metamorphic rocks (Nisutlin Terrane), overlain by Tertiary volcanic and minor related sedimentary rocks (Kamloops arc volcanics). The latter unit has since been redated as late Cretaceous.

### b) Property (Figure 3)

Despite the limited exposure on the Glacier property, it appears to be primarily underlain by the Proterozoic and/or Paleozoic Nasina Series metasedimentary basement rocks, which are overlain by Cretaceous volcanic rocks in the eastern property area.

Individual lithologies of the Proterozoic and/or Paleozoic metasedimentary basement rocks (Unit 1) include brown weathering quartz-muscovite-chlortite schist, micaceous quartzite, black, graphitic quartzite and phyllite and minor marble. The overlying Cretaceous volcanic rocks (Unit 2) which cover the property are composed primarily of feldspar porphyry and a minor fragmental subunit. They commonly display a clay alteration, likely due to weathering. A minor conglomerate unit has been observed on the property and is thought to be a cemented regolith composed of the both main units seen on the property.

Structurally, the previous trenching has exposed several graphitic and brecciated fault zones that trend roughly NNE. On the south end of the claims, there appears to be a fault zone containing abundant listwanite.

### c) Mineralization (Figure 3)

Mineralization was generally observed as small centimetre scale quartz veins and veinlets that contained small amounts of galena, chalcopyrite and trace malachite and pyrite. This style of mineralization was commonly seen in quartz veins hosted in the metasedimentary units that were exposed in the trenches. Larger blocks of quartz measuring up to 75cm x 15cm x 50cm were found in float but did not return significant gold values. No other sulphide mineralization was observed on the property, however listwanite was observed in proximity to a fault zone, and iron oxide altered fractures and partings were common in most fractured rocks.

## 7. GEOCHEMISTRY (Figure 3)

### a) Procedure

A total of 45 rock, 96 soil and 2 stream sediment samples were collected from the property. The samples were sent to Eco-Tech Labs, Kamloops, B.C. and analyzed for Al, Sb, As, Ba, Bi, Cd, Ca, Cr, Co, Cu, Fe, La, Pb, Mg, Mn, Hg, Mo, Na, Ni, P, Ag, Sr, Ti, Sn, W, U, V and Zn using a 32 element ICP package which involves a nitric - aqua regia digestion. Au was analyzed by fire assay with an atomic absorption finish. Lab procedures and results are outlined in Appendix II.

The rock samples consisted primarily of veins, stockworks, stringers and alteration, exposed as float or limited subcrop. Chip samples were collected across local quartz boulders. Rock sample locations and results are plotted on Figure 4 with the geology.

The stream sediment samples consisted of two moss mat samples. Complete sample results are listed in Appendix II and selected results are shown on Figure 4.

Six soil lines, located within the drainage basins of anomalous stream sediment samples, were completed across the property. The soil samples were collected at 100m intervals along reconnaissance lines and at 25m intervals from lines on strike of favourable targets mapped in the trenches. The soil was taken from the B horizon with a shovel and sent to the lab in kraft bags. Complete soil sample results are listed in Appendix II and Au, Ag and As results are plotted on Figure 4.

## b) Results and Interpretation

### i) Rocks: (Figure 3)

Grab samples 07014 and 07016 from Trench 4 returned gold values of 800 and 355 ppb, respectively. These samples, hosted in quartz-muscovite schist, consisted of quartz veinlets with rusty blebs, chalcopyrite, galena, trace pyrite, and malachite with rusty iron oxide and manganese altered fracture surfaces. The samples also contained elevated silver (235.2 g/t and 445.4 g/t respectively), lead (4200 ppm and 9436 ppm respectively), antimony (245 ppm and 445 ppm respectively) and copper values (3566 ppm and 1416 ppm respectively). Sample 06923 was anomalous in As, Cu, and Zn (190, 500, 1163 ppm) and three other samples, 06915, 06921, and 07012 , returned values of 4790 ppm, 190 ppm, and 112 ppm Cu respectively.

The rock samples that returned elevated gold values are predominately composed of smaller scale stringer and stockwork veins. It is of interest that samples 06915, 06921, and 06923 were described as subrounded quartz boulders and unmineralized subcrop with rusty fractures, and although their gold values were weak the elevated base metal and arsenic values are encouraging.

### ii) Stream sediment: (Figure 3)

Two moss samples,. GL-M216 and M217, were taken downstream of 1998 samples LSM-24 (35 ppb Au) and LSM-25 (<5 ppb Au) and returned 10ppb Au. The main source of the Au in the stream sediments appears to originate from the drainage basin of LSM-24, which drains the trench area.

### iii) Soils: (Figure 3)

The ninety-six soil samples did not delineate any high level multi-element anomalies, however it was not uncommon to find discreet multi-site zones with elevated gold and arsenic values, occasionally supported with elevated base metal values. It was noted that arsenic was anomalous for samples that returned values above 10ppm Au (in all but GL-S803). However, anomalous arsenic values did not signify elevated gold values.

The northwestern-most soil line (GL-S613-627) sampled the head of the LSM-24 (moss sample, 1998) drainage, that returned a Au value of 35 ppb, and targeted several structures delineated in trenches four and five. The assay values outlined two zones of four samples (GL-S617-620, and GL-S624–627) that were weakly elevated in Au (between 10 and 25 ppb) and may reflect the fault structures observed in trenches four and five. These samples were also anomalous in As, and weakly so in Zn. Two nearby recce soil samples, GL-S601 and S-807, expand the anomalous zone, returning Au values of 15 ppb and As values of 140 ppm and 170 ppm, respectively.

Sample GL-S803 was a lone anomaly on the westernmost recce line, assaying 30ppb Au and 40ppm As.

## 8. CONCLUSIONS AND RECOMMENDATIONS

The 1999 program on the Glacier property outlined several structures in the existing trenches and preliminary observations suggest that the mineralization may be confined to narrow quartz veins and stockworks associated with these features. Two stream sediment samples taken failed to detect any new anomalies, however the soil sample data uncovered new anomalies which remain open and require further work to determine the magnitude of the anomaly in terms of both size and geochemistry.

Future work recommendations include more prospecting and sampling of any float, subcrop, or outcrop, with careful attention given to the style of mineralization present, so as to perhaps better understand the arsenic/gold/base metal relationship and the different styles of mineralization present. Follow up work is recommended for the two soil anomalies north of trenches four and five. It is also recommended that soil samples be taken proximal to and to the south of the two trenches. This to determine if in fact such an anomaly as seen to the north could be due to the structures in the trenches, and if the anomaly continues to the south. Further work should also be completed on the lone soil anomaly at station GL-S803.

## APPENDIX I

### Selected References

Green, L.H. and Rodldick, J.A. (1961): Geology of Dawson Y.T.; Geological Survey of Canada Map 1284A, scale 1:250,000.

Pautler, J. (1997): Yukon regional report; In house report.

Tempelman-Kluit, D. (1974): Geology of the Stewart River map area, Y.T. ; Geological Survey of Canada, Map 18-1973, scale 1:250,000.

Yukon Minfile (1996): Yukon Geology Program, IMS Ltd., NTS 115 N, 115 O.

# APPENDIX II

## Geochemical Procedure and Results

ECO-TECH LABORATORIES LTD.
ASSAYING - ENVIRONMENTAL TESTING
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 5J3 (604) 573-5700 Fax 573-4557

SAMPLE PREPARATION: ROCK/CORE

The samples are dryed (if wet), crushed in two stages, blended and mechanically split to give a 250 to 300 gram subsample.

The subsample is pulverized in a " Ring and Puck" pulverizer to approximately -150 mesh (80% < -180 mesh).

The subsample is blended by rolling the sample 60 times on glazed paper.

ANALYSIS:

GOLD ANALYSIS:

Gold is analyzed by conventional fire assay, Atomic Absorption finish.

Samples showing gold content greater than one gram per tonne are automatically re-assayed to verify the first set of results and to determine a nugget effect exists.

Samples having gold values exceeding five grams per tonne are normally assayed for "Metallics". The procedure involves taking a re-cut from the rejects and screening the new pulp to -140 mesh. The entire +140 mesh fraction is assayed separately. Two individual assays are performed on the -140 fraction and all the results are pro-rated to give the reported value.

Each set of forty samples assayed have one ore standard and one random duplicate sample included in the set.

GEOCHEMICAL ANALYSES: AU, CU, PB, ZN

We use a 0.500 gram sample which is digested in aqua regia for 2 hours at 95°C.

Elements are analyzed by atomic absorption using background correction for Ag and Pb.

Each set of forty samples will include one ore standard and one random duplicate sample. Samples giving silver values greater than 30 ppm are normally assayed. Assays for Cu, Pb, Zn are normally performed on samples having values greater than 1000 ppm.

ECO-TECH LABORATORIES LTD.
ASSAYING - ENVIRONMENTAL TESTING
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

# GEOCHEMICAL LABORATORY METHODS

## Multi Element ICP Analyses

**Digestion:** 1 gram sample is digested with 6 ml dilute aqua regia in a waterbath at 90°C for 90 minutes and diluted to 20 ml.

**Analysis:** Inductively coupled Plasma.

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# GEOCHEMICAL LABORATORY METHODS

## SAMPLE PREPARATION (STANDARD)

1. Soil or Sediment: Samples are dried and then sieved through 80 mesh nylon sieves.

2. Rock, Core: Samples dried (if necessary), crushed, riffled to pulp size and pulverized to approximately -140 mesh.

## METHODS OF ANALYSIS

All methods have either known or in-house standards carried through entire procedure to ensure validity of results.

1. Multi-Element Cd, Cr, Co, Cu, Fe (acid soluble), Pb, Mn, Ni, Ag, Zn, Mo

| Digestion | Finish |
|---|---|
| Hot aqua-regia | Atomic Absorption, background correction applied where appropriate |

A) Multi-Element ICP

| Digestion | Finish |
|---|---|
| Hot aqua-regia | ICP |

2. Antimony

| Digestion | Finish |
|---|---|
| Hot aqua regia | Hydride generation - A.A.S. |

3. Arsenic

| Digestion | Finish |
|---|---|
| Hot aqua regia | Hydride generation - A.A.S. |

4. Barium

| Digestion | Finish |
|---|---|
| Lithium Metaborate Fusion | Atomic Absorption |

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5. Beryllium

| Digestion | Finish |
|---|---|
| Hot aqua regia | Atomic Absorption |

6. Bismuth

| Digestion | Finish |
|---|---|
| Hot aqua regia | Atomic Absorption |

7. Chromium

| Digestion | Finish |
|---|---|
| Sodium Peroxide Fusion | Atomic Absorption |

8. Fluorine

| Digestion | Finish |
|---|---|
| Lithium Metaborate Fusion | Ion Selective Electrode |

9. Mercury

| Digestion | Finish |
|---|---|
| Hot aqua regia | Cold vapor generation - A.A.S. |

10. Phosphorus

| Digestion | Finish |
|---|---|
| Lithium Metaborate Fusion | I.C.P. finish |

11. Selenium

| Digestion | Finish |
|---|---|
| Hot aqua regia | Hydride generation - A.A.S. |

12. Tellurium

| Digestion | Finish |
|---|---|
| Hot aqua regia | Hydride generation - A.A.S. |
| Potassium Bisulphate Fusion | Colorimetric or I.C.P. |

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13. Tin

| Digestion | Finish |
|---|---|
| Ammonium Iodide Fusion | Hydride generation - A.A.S. |

14. Tungsten

| Digestion | Finish |
|---|---|
| Potassium Bisulphate Fusion | Colorimetric or I.C.P. |

15. Gold

| Digestion | Finish |
|---|---|
| Fire Assay Preconcentration followed by Aqua Regia | Atomic Absorption |

16. Platinum, Palladium, Rhodium

| Digestion | Finish |
|---|---|
| Fire Assay Preconcentration followed by Aqua Regia | Graphite Furnace - A.A.S. |

17. Uranium

| Digestion | Finish |
|---|---|
| Hot HCl | Fluorometric |

18. Thorium

| Digestion | Finish |
|---|---|
| Hot Aqua Regia | I C P |

JJ3/1

# 1999 Yukon - Glacier Rock Samples

| Sample # | Au_PPB | Ag | Al_% | As | Ba | Bi | Ca_% | Cd | Co | Cr | Cu | Fe_% | La | Mg_% | Mn | Mo | Na_% | Ni_ | P | Pb | Sb | Sn | Sr | Ti_% | U | V | W | Y | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6917 | 5 | 0.2 | 0.12 | <5 | 75 | <5 | <0.01 | <1 | 6 | 195 | 48 | 1.74 | <10 | <0.01 | 115 | 6 | <0.01 | 37 | 280 | 4 | <5 | <20 | <1 | <0.01 | <10 | 5 | <10 | <1 | 27 |
| 6918 | 10 | <0.2 | 0.02 | 5 | 20 | <5 | <0.01 | <1 | 1 | 182 | 21 | 0.59 | <10 | <0.01 | 66 | 4 | <0.01 | 10 | 50 | 10 | <5 | <20 | <1 | <0.01 | <10 | 2 | <10 | <1 | 11 |
| 6919 | 5 | 0.4 | 0.06 | <5 | 35 | <5 | <0.01 | <1 | 1 | 200 | 6 | 0.53 | <10 | <0.01 | 73 | 4 | <0.01 | 7 | 70 | 44 | <5 | <20 | 1 | <0.01 | <10 | 2 | <10 | <1 | 14 |
| 6920 | 5 | <0.2 | 0.04 | <5 | 25 | <5 | <0.01 | <1 | <1 | 195 | 6 | 0.45 | <10 | <0.01 | 53 | 5 | <0.01 | 6 | 40 | 10 | <5 | <20 | <1 | <0.01 | <10 | 2 | <10 | <1 | 5 |
| 6921 | 5 | 0.6 | 0.03 | 10 | 60 | 10 | <0.01 | 1 | 4 | 220 | 49 | 1.00 | <10 | <0.01 | 739 | 8 | <0.01 | 25 | 140 | 190 | <5 | <20 | <1 | <0.01 | <10 | 5 | <10 | <1 | 73 |
| 6922 | 5 | <0.2 | 0.05 | <5 | 30 | <5 | <0.01 | <1 | <1 | 138 | 6 | 0.27 | <10 | 0.01 | 83 | 3 | <0.01 | 5 | 70 | <2 | <5 | <20 | 2 | <0.01 | <10 | 2 | <10 | <1 | <1 |
| 6923 | 30 | 1.4 | 0.37 | 190 | 340 | <5 | 0.02 | 7 | 49 | 151 | 500 | 9.49 | <10 | <0.01 | 2958 | 23 | <0.01 | 322 | 1930 | 30 | <5 | <20 | 18 | <0.01 | <10 | 54 | <10 | 61 | 1163 |
| 6924 | <5 | <0.2 | 0.06 | 15 | 35 | <5 | <0.01 | <1 | <1 | 214 | 9 | 0.50 | <10 | <0.01 | 79 | 5 | <0.01 | 7 | 100 | 10 | <5 | <20 | 2 | <0.01 | <10 | 2 | <10 | <1 | 3 |
| 6925 | <5 | <0.2 | 0.11 | 10 | 40 | <5 | 3.97 | <1 | 3 | 118 | 21 | 0.73 | <10 | 0.07 | 56 | 4 | <0.01 | 11 | 290 | 2 | <5 | <20 | 42 | <0.01 | <10 | 7 | <10 | 5 | 13 |
| 6961 | <5 | 0.4 | 0.09 | 55 | 75 | <5 | 0.01 | <1 | 4 | 213 | 10 | 1.82 | <10 | <0.01 | 825 | 7 | <0.01 | 19 | 140 | 10 | <5 | <20 | <1 | <0.01 | <10 | 3 | <10 | <1 | 11 |
| 6965 | 5 | <0.2 | <0.01 | 55 | <5 | <5 | <0.01 | <1 | <1 | 204 | 4 | 0.40 | <10 | <0.01 | 97 | 4 | <0.01 | 6 | <10 | <2 | <5 | <20 | <1 | <0.01 | <10 | <1 | <10 | <1 | <1 |
| 6966 | 10 | <0.2 | 0.07 | 5 | 60 | <5 | 0.03 | <1 | 4 | 148 | 11 | 0.37 | <10 | <0.01 | 210 | 4 | <0.01 | 9 | 170 | <2 | <5 | <20 | 5 | <0.01 | <10 | 4 | <10 | 4 | 2 |
| 6967 | 10 | <0.2 | 0.09 | <5 | 50 | <5 | <0.01 | <1 | <1 | 178 | 5 | 0.25 | <10 | <0.01 | 34 | 3 | <0.01 | 6 | 40 | <2 | <5 | <20 | 16 | <0.01 | <10 | 2 | <10 | <1 | <1 |
| 6968 | 10 | <0.2 | 0.08 | 10 | 50 | <5 | 0.05 | <1 | 2 | 118 | 11 | 0.64 | <10 | <0.01 | 101 | 5 | <0.01 | 10 | 360 | 2 | <5 | <20 | 7 | <0.01 | <10 | 7 | <10 | 5 | 17 |
| 6969 | 20 | <0.2 | 0.05 | 40 | 15 | <5 | <0.01 | <1 | <1 | 176 | 19 | 0.54 | <10 | <0.01 | 42 | 5 | <0.01 | 5 | 30 | 4 | <5 | <20 | 1 | <0.01 | <10 | 1 | <10 | <1 | <1 |
| 6970 | 10 | <0.2 | 0.07 | 10 | 25 | <5 | <0.01 | <1 | <1 | 195 | 7 | 0.36 | <10 | <0.01 | 53 | 5 | <0.01 | 5 | 20 | <2 | <5 | <20 | <1 | <0.01 | <10 | 2 | <10 | <1 | <1 |
| 6971 | 10 | <0.2 | 0.06 | 25 | 30 | <5 | <0.01 | <1 | 1 | 190 | 8 | 0.44 | <10 | <0.01 | 57 | 4 | <0.01 | 6 | 20 | 4 | <5 | <20 | <1 | <0.01 | <10 | 2 | <10 | <1 | <1 |
| 7006 | 10 | 0.2 | 0.13 | 10 | 135 | <5 | <0.01 | <1 | 1 | 211 | 20 | 0.45 | <10 | <0.01 | 51 | 6 | <0.01 | 8 | 40 | 8 | <5 | <20 | 11 | <0.01 | <10 | 5 | <10 | <1 | <1 |
| 7007 | <5 | <0.2 | 0.14 | 20 | 125 | <5 | <0.01 | <1 | 2 | 182 | 30 | 0.45 | <10 | <0.01 | 49 | 4 | <0.01 | 10 | 80 | 4 | <5 | <20 | 16 | <0.01 | <10 | 5 | <10 | <1 | <1 |
| 7008 | 10 | <0.2 | 0.09 | 25 | 45 | <5 | <0.01 | <1 | 2 | 225 | 9 | 0.71 | <10 | <0.01 | 76 | 12 | <0.01 | 7 | 90 | 8 | <5 | <20 | 3 | <0.01 | <10 | 3 | <10 | <1 | <1 |
| 7009 | <5 | <0.2 | 0.02 | 5 | 40 | <5 | <0.01 | <1 | <1 | 180 | 8 | 0.43 | <10 | <0.01 | 47 | <1 | <0.01 | 5 | 10 | <2 | <5 | <20 | <1 | <0.01 | <10 | <1 | <10 | <1 | <1 |
| 7010 | 5 | <0.2 | 0.20 | 15 | 85 | <5 | 0.02 | <1 | 4 | 180 | 12 | 0.82 | <10 | <0.01 | 338 | 9 | 0.01 | 9 | 160 | 4 | <5 | <20 | 3 | <0.01 | <10 | 5 | <10 | <1 | 2 |
| 7011 | 5 | <0.2 | 0.02 | <5 | 25 | <5 | <0.01 | <1 | <1 | 194 | 13 | 0.35 | <10 | <0.01 | 74 | <1 | <0.01 | 6 | 10 | <2 | <5 | <20 | <1 | <0.01 | <10 | 1 | <10 | <1 | 3 |
| 7012 | 15 | <0.2 | 0.03 | 10 | 55 | <5 | >10 | <1 | 2 | 50 | 15 | 1.35 | <10 | 9.78 | 637 | 2 | 0.01 | 2 | 190 | 112 | 50 | <20 | 754 | <0.01 | <10 | 16 | <10 | 5 | 23 |
| 7013 | 20 | 0.2 | 0.04 | 5 | 60 | <5 | 1.29 | <1 | 3 | 243 | 13 | 0.70 | <10 | 0.06 | 807 | <1 | <0.01 | 20 | 40 | 36 | <5 | <20 | 7 | <0.01 | <10 | 2 | <10 | <1 | 21 |
| 7014 | 800 | >30 | 0.04 | 75 | 75 | <5 | 1.12 | 2 | 4 | 203 | 3566 | 0.97 | <10 | 0.10 | 516 | 10 | <0.01 | 16 | <10 | 4200 | 245 | <20 | 19 | <0.01 | <10 | 2 | <10 | <1 | 625 |
| 7015 | 10 | 2.8 | 0.16 | 30 | 90 | <5 | 3.95 | <1 | 11 | 135 | 84 | 2.41 | <10 | 0.53 | 1838 | 8 | <0.01 | 21 | 100 | 60 | 10 | <20 | 71 | <0.01 | <10 | 12 | <10 | 10 | 84 |
| 7016 | 355 | >30 | 0.07 | 130 | 55 | <5 | 1.91 | 5 | 6 | 212 | 1416 | 1.03 | <10 | 0.69 | 475 | <1 | <0.01 | 46 | 20 | 9436 | 445 | <20 | 46 | <0.01 | <10 | 6 | <10 | <1 | 180 |
| 7017 | 5 | 1.6 | 0.19 | 365 | 445 | <5 | 1.39 | <1 | 7 | 207 | 25 | 2.67 | <10 | 0.04 | 1089 | 11 | <0.01 | 47 | 650 | 26 | <5 | <20 | 41 | <0.01 | <10 | 6 | <10 | 10 | 47 |
| 7018 | 5 | 0.8 | 0.03 | 25 | 15 | <5 | 0.01 | <1 | 2 | 175 | 11 | 0.56 | <10 | <0.01 | 193 | 1 | <0.01 | 10 | <10 | 16 | <5 | <20 | <1 | <0.01 | <10 | 2 | <10 | <1 | <1 |
| 7019 | 25 | <0.2 | 0.03 | 40 | 30 | <5 | 0.08 | <1 | 1 | 168 | 11 | 0.55 | <10 | 0.01 | 238 | 8 | <0.01 | 8 | 20 | <2 | <5 | <20 | <1 | <0.01 | <10 | 1 | <10 | <1 | 1 |
| 7020 | 15 | 1.0 | 0.11 | 30 | 95 | <5 | 1.08 | <1 | 8 | 162 | 16 | 1.59 | <10 | <0.01 | 1082 | 4 | <0.01 | 46 | 110 | 30 | <5 | <20 | <1 | <0.01 | <10 | 6 | <10 | 2 | 20 |
| 7021 | 15 | 0.4 | 0.03 | 15 | 30 | <5 | <0.01 | <1 | <1 | 203 | 6 | 0.47 | <10 | <0.01 | 67 | <1 | <0.01 | 6 | 100 | 42 | <5 | <20 | <1 | <0.01 | <10 | 2 | <10 | <1 | <1 |
| 7022 | 20 | 0.4 | 0.04 | 5 | 50 | <5 | <0.01 | <1 | <1 | 144 | 9 | 0.76 | <10 | <0.01 | 79 | 7 | <0.01 | 3 | 100 | 4 | 5 | <20 | <1 | <0.01 | <10 | 2 | <10 | <1 | <1 |



Values in ppm unless otherwise indicated

| Sample # | Au_PPB | Ag | Al_% | As | Ba | Bi | Ca_% | Cd | Co | Cr | Cu | Fe_% | La | Mg_% | Mn | Mo | Na_% | Ni | P | Pb | Sb | Sn | Sr | Ti_% | U | V | W | Y | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06910 | 5 | <0.2 | 0.08 | 15 | 35 | <5 | <0.01 | <1 | 1 | 156 | 16 | 0.68 | <10 | <0.01 | 57 | 8 | <0.01 | 6 | 60 | <2 | <5 | <20 | 3 | <0.01 | <10 | 5 | <10 | <1 | <1 |
| 06911 | 5 | 0.4 | 0.13 | 25 | 70 | <5 | <0.01 | <1 | 3 | 215 | 43 | 1.78 | <10 | <0.01 | 179 | 7 | <0.01 | 23 | 380 | 18 | <5 | <20 | 1 | <0.01 | <10 | 11 | <10 | <1 | 130 |
| 06912 | <5 | 0.4 | 0.06 | 5 | 85 | <5 | <0.01 | <1 | 7 | 181 | 32 | 1.25 | <10 | <0.01 | 1317 | 8 | <0.01 | 17 | 150 | <2 | <5 | <20 | <1 | <0.01 | <10 | 8 | <10 | <1 | 61 |
| 06913 | 5 | <0.2 | 0.20 | <5 | 1140 | <5 | 1.99 | <1 | <1 | 104 | 5 | 1.08 | <10 | 0.76 | 542 | 3 | 0.04 | 7 | 90 | 4 | 15 | <20 | 59 | <0.01 | <10 | 12 | <10 | 24 | 12 |
| 06914 | 5 | <0.2 | 0.03 | 5 | 35 | <5 | 0.19 | <1 | 4 | 179 | 27 | 1.51 | <10 | 0.03 | 326 | 7 | <0.01 | 27 | 300 | <2 | <5 | <20 | 4 | <0.01 | <10 | 4 | <10 | 7 | 60 |
| 06915 | 30 | 24.0 | <0.01 | 20 | 15 | <5 | <0.01 | 2 | <1 | 273 | 53 | 0.40 | <10 | <0.01 | 53 | 6 | <0.01 | 7 | <10 | 4790 | 10 | <20 | <1 | <0.01 | <10 | <1 | <10 | <1 | 24 |
| 06916 | 10 | <0.2 | 0.02 | <5 | 15 | <5 | <0.01 | <1 | <1 | 222 | 3 | 0.38 | <10 | <0.01 | 59 | 5 | <0.01 | 7 | 30 | 24 | <5 | <20 | <1 | <0.01 | <10 | <1 | <10 | <1 | <1 |
| 06926 | <5 | <0.2 | <0.01 | <5 | <5 | <5 | <0.01 | <1 | <1 | 175 | 3 | 0.23 | <10 | <0.01 | 42 | 4 | <0.01 | 3 | <10 | <2 | <5 | <20 | <1 | <0.01 | <10 | <1 | <10 | <1 | <1 |
| 06927 | 20 | <0.2 | 0.27 | <5 | 15 | <5 | 0.09 | <1 | 4 | 117 | 12 | 0.88 | <10 | 0.17 | 136 | 6 | <0.01 | 5 | 160 | 2 | <5 | <20 | 3 | 0.02 | <10 | 21 | <10 | <1 | 2 |
| 06928 | 15 | 3.2 | 2.93 | 15 | 75 | <5 | 0.19 | 1 | 26 | 65 | 871 | >10 | <10 | 2.36 | 638 | 8 | <0.01 | 33 | 190 | 166 | <5 | <20 | 17 | 0.14 | <10 | 152 | <10 | <1 | 291 |

# 1999 Yukon - Glacier Property Soils and Sediment Samples

| Sample # | Au_PPB | Ag | Al_% | As | Ba | Bi | Ca_% | Cd | Co | Cr | Cu | Fe_% | La | Mg_% | Mn | Mo | Na_% | Ni_ | P | Pb | Sb | Sn | Sr | Ti_% | U | V | W | Y | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-L.-S-200 | 5 | <0.2 | 1.71 | <5 | 230 | <5 | 0.10 | <1 | 7 | 22 | 13 | 2.60 | 10 | 0.31 | 177 | 3 | 0.01 | 13 | 120 | 10 | <5 | <20 | 12 | 0.01 | <10 | 40 | <10 | 4 | 32 |
| G-L.-S-201 | <5 | <0.2 | 1.61 | <5 | 220 | 10 | 0.12 | <1 | 15 | 43 | 34 | 4.20 | 40 | 0.67 | 318 | <1 | 0.01 | 20 | 460 | 8 | <5 | <20 | 6 | 0.11 | <10 | 51 | <10 | 24 | 30 |
| G-L.-S-202 | <5 | <0.2 | 1.82 | <5 | 290 | 10 | 0.16 | <1 | 11 | 37 | 15 | 3.34 | 30 | 0.61 | 355 | <1 | 0.01 | 19 | 480 | 12 | <5 | <20 | 11 | 0.08 | <10 | 63 | <10 | 19 | 46 |
| G-L.-S-203 | <5 | <0.2 | 1.45 | <5 | 380 | <5 | 0.28 | <1 | 12 | 23 | 18 | 3.60 | 30 | 0.56 | 480 | <1 | 0.01 | 16 | 540 | 12 | <5 | <20 | 17 | 0.08 | <10 | 64 | <10 | 53 | 54 |
| G-L.-S-204 | <5 | <0.2 | 1.17 | <5 | 190 | <5 | 0.30 | <1 | 9 | 15 | 11 | 3.31 | 20 | 0.46 | 380 | 1 | 0.01 | 9 | 280 | 8 | <5 | <20 | 10 | 0.08 | <10 | 69 | <10 | 14 | 56 |
| G-L.-S-205 | <5 | <0.2 | 0.56 | <5 | 210 | 5 | 0.40 | <1 | 6 | 11 | 8 | 1.48 | 30 | 0.18 | 361 | <1 | 0.02 | 5 | 340 | 2 | <5 | <20 | 28 | 0.04 | <10 | 17 | <10 | 25 | 10 |
| G-L.-S-206 | <5 | 0.4 | 1.21 | 10 | 390 | <5 | 0.28 | <1 | 11 | 26 | 34 | 3.31 | 20 | 0.31 | 309 | 7 | 0.01 | 22 | 340 | 16 | <5 | <20 | 26 | 0.03 | <10 | 48 | <10 | 50 | 69 |
| G-L.-S-207 | <5 | <0.2 | 2.10 | <5 | 290 | <5 | 0.21 | <1 | 14 | 34 | 21 | 3.48 | 20 | 0.53 | 403 | 2 | 0.01 | 24 | 200 | 20 | <5 | <20 | 19 | 0.06 | <10 | 59 | <10 | 14 | 59 |
| G-L.-S-208 | <5 | 0.4 | 1.07 | <5 | 440 | 10 | 0.32 | <1 | 13 | 47 | 24 | 4.04 | 30 | 0.36 | 1111 | 3 | 0.01 | 33 | 310 | 12 | <5 | <20 | 15 | 0.03 | <10 | 57 | <10 | 63 | 64 |
| G-L.-S-209 | <5 | <0.2 | 1.21 | 15 | 270 | 5 | 0.40 | <1 | 10 | 20 | 16 | 2.87 | 20 | 0.36 | 344 | 2 | 0.01 | 15 | 330 | 12 | <5 | <20 | 18 | 0.04 | <10 | 38 | <10 | 25 | 40 |
| G-L.-S-210 | <5 | <0.2 | 1.92 | 20 | 610 | 5 | 0.23 | <1 | 16 | 46 | 20 | 3.77 | 20 | 0.57 | 511 | 2 | 0.01 | 24 | 250 | 10 | <5 | <20 | 19 | 0.04 | <10 | 74 | <10 | 14 | 56 |
| G-L.-S-211 | <5 | <0.2 | 1.58 | 5 | 410 | 10 | 0.51 | <1 | 12 | 41 | 23 | 3.31 | 20 | 0.56 | 415 | 1 | 0.02 | 24 | 470 | 10 | <5 | <20 | 21 | 0.06 | <10 | 67 | <10 | 38 | 57 |
| G-L.-S-212 | <5 | <0.2 | 1.14 | <5 | 150 | <5 | 0.13 | <1 | 13 | 22 | 22 | 3.25 | 20 | 0.35 | 392 | 2 | 0.01 | 19 | 400 | 16 | <5 | <20 | 8 | 0.05 | <10 | 38 | <10 | 17 | 59 |
| G-L.-S-213 | <5 | <0.2 | 1.18 | <5 | 690 | <5 | 0.21 | <1 | 16 | 23 | 24 | 3.70 | 40 | 0.44 | 998 | 2 | 0.01 | 23 | 440 | 14 | <5 | <20 | 13 | 0.06 | <10 | 40 | <10 | 42 | 52 |
| G-L.-S-214 | <5 | <0.2 | 1.66 | <5 | 235 | 5 | 0.18 | <1 | 10 | 25 | 20 | 2.67 | 20 | 0.53 | 225 | <1 | 0.01 | 16 | 420 | 14 | <5 | <20 | 10 | 0.09 | <10 | 43 | <10 | 18 | 51 |
| G-L.-S-215 | <5 | <0.2 | 1.44 | <5 | 265 | 5 | 0.21 | <1 | 12 | 23 | 20 | 2.92 | 20 | 0.46 | 358 | <1 | 0.01 | 18 | 460 | 12 | <5 | <20 | 15 | 0.07 | <10 | 43 | <10 | 22 | 53 |
| G-L.-S-600 | <5 | <0.2 | 0.71 | 35 | 65 | 10 | 0.03 | <1 | 9 | 10 | 20 | 2.96 | 20 | 0.08 | 198 | 3 | <0.01 | 19 | 210 | 12 | <5 | <20 | 2 | 0.02 | <10 | 38 | <10 | 1 | 45 |
| G-L.-S-601 | 15 | 0.6 | 1.36 | 140 | 220 | 5 | 0.35 | <1 | 9 | 25 | 36 | 2.67 | <10 | 0.27 | 387 | 3 | 0.01 | 41 | 340 | 14 | <5 | <20 | 22 | 0.02 | <10 | 43 | <10 | 9 | 56 |
| G-L.-S-602 | 10 | 0.8 | 1.36 | 75 | 240 | <5 | 0.50 | <1 | 18 | 44 | 45 | 3.46 | 10 | 0.48 | 839 | 3 | 0.02 | 86 | 400 | 18 | <5 | <20 | 26 | 0.03 | <10 | 48 | <10 | 26 | 79 |
| G-L.-S-603 | <5 | 0.4 | 1.21 | 55 | 245 | 5 | 0.72 | <1 | 13 | 37 | 25 | 2.82 | 10 | 0.52 | 609 | 2 | 0.02 | 42 | 550 | 12 | 5 | <20 | 36 | 0.03 | <10 | 47 | <10 | 14 | 71 |
| G-L.-S-604 | 5 | 0.8 | 1.17 | 615 | 400 | 15 | 0.72 | <1 | 27 | 26 | 28 | 8.03 | 10 | 0.34 | 1348 | 10 | 0.02 | 35 | 660 | 12 | <5 | <20 | 49 | 0.02 | <10 | 52 | <10 | <1 | 79 |
| G-L.-S-605 | <5 | <0.2 | 1.25 | 30 | 185 | <5 | 0.16 | <1 | 8 | 19 | 16 | 2.44 | <10 | 0.33 | 277 | 2 | 0.01 | 14 | 470 | 10 | <5 | <20 | 13 | 0.02 | <10 | 48 | <10 | 1 | 42 |
| G-L.-S-606 | <5 | <0.2 | 1.13 | 15 | 180 | <5 | 0.24 | <1 | 6 | 19 | 15 | 2.10 | <10 | 0.35 | 183 | 1 | 0.01 | 14 | 510 | 10 | <5 | <20 | 18 | 0.03 | <10 | 44 | <10 | 6 | 43 |
| G-L.-S-607 | <5 | <0.2 | 1.38 | 10 | 215 | 10 | 0.20 | <1 | 11 | 21 | 16 | 2.55 | 10 | 0.39 | 451 | 2 | 0.01 | 17 | 560 | 10 | <5 | <20 | 16 | 0.03 | <10 | 48 | <10 | 4 | 53 |
| G-L.-S-608 | <5 | <0.2 | 1.41 | 30 | 250 | <5 | 0.18 | <1 | 11 | 21 | 15 | 2.83 | 10 | 0.37 | 469 | 2 | 0.01 | 16 | 500 | 14 | <5 | <20 | 15 | 0.02 | <10 | 53 | <10 | 5 | 54 |
| G-L.-S-609 | <5 | 0.4 | 1.34 | 10 | 245 | <5 | 0.20 | <1 | 7 | 19 | 17 | 1.98 | 10 | 0.36 | 203 | 1 | 0.01 | 13 | 500 | 10 | <5 | <20 | 16 | 0.02 | <10 | 41 | <10 | 7 | 43 |
| G-L.-S-610 A | <5 | 0.4 | 1.52 | 25 | 225 | <5 | 0.18 | <1 | 8 | 22 | 20 | 2.66 | 10 | 0.36 | 169 | 2 | 0.01 | 16 | 590 | 12 | <5 | <20 | 14 | 0.03 | <10 | 52 | <10 | 11 | 48 |
| G-L.-S-610 B | <5 | <0.2 | 2.40 | <5 | 220 | 10 | 0.10 | <1 | 19 | 107 | 27 | 4.90 | 10 | 1.22 | 440 | <1 | 0.01 | 39 | 250 | 8 | <5 | <20 | 11 | 0.14 | <10 | 76 | <10 | 23 | 53 |
| G-L.-S-611 | <5 | <0.2 | 2.01 | <5 | 530 | <5 | 0.67 | <1 | 16 | 39 | 26 | 4.46 | 30 | 0.82 | 648 | 3 | 0.01 | 19 | 460 | 8 | 5 | <20 | 44 | 0.08 | <10 | 60 | <10 | 29 | 38 |
| G-L.-S-612 | <5 | <0.2 | 1.24 | <5 | 260 | <5 | 0.27 | <1 | 7 | 20 | 11 | 2.04 | 10 | 0.30 | 243 | 2 | 0.01 | 11 | 380 | 12 | <5 | <20 | 19 | 0.02 | <10 | 39 | <10 | 15 | 36 |
| G-L.-S-613 | <5 | <0.2 | 1.79 | 25 | 200 | <5 | 0.12 | <1 | 13 | 30 | 25 | 3.21 | 10 | 0.43 | 436 | 3 | 0.01 | 21 | 370 | 16 | <5 | <20 | 12 | 0.04 | <10 | 57 | <10 | 6 | 57 |
| G-L.-S-614 | <5 | 0.4 | 1.15 | 20 | 195 | 5 | 0.16 | <1 | 8 | 21 | 23 | 2.36 | 10 | 0.34 | 324 | 2 | 0.01 | 17 | 410 | 12 | <5 | <20 | 15 | 0.03 | <10 | 41 | <10 | 13 | 46 |
| G-L.-S-615 | 5 | 0.4 | 1.28 | 70 | 265 | <5 | 0.16 | <1 | 14 | 21 | 25 | 2.74 | <10 | 0.24 | 863 | 4 | 0.01 | 14 | 620 | 12 | <5 | <20 | 15 | 0.01 | <10 | 44 | <10 | 5 | 49 |
| G-L.-S-616 | 5 | 0.4 | 1.16 | 90 | 240 | <5 | 0.36 | <1 | 6 | 21 | 33 | 2.26 | 20 | 0.27 | 138 | 2 | 0.01 | 15 | 320 | 16 | <5 | <20 | 18 | 0.02 | <10 | 44 | <10 | 24 | 53 |
| G-L.-S-617 | 25 | 0.4 | 1.72 | 165 | 410 | <5 | 0.42 | <1 | 11 | 32 | 30 | 3.84 | 20 | 0.39 | 446 | 4 | 0.01 | 26 | 600 | 20 | <5 | <20 | 22 | 0.01 | <10 | 57 | <10 | 22 | 61 |



Values in ppm unless otherwise indicated

| Sample # | Au_PPB | Ag | Al_% | As | Ba | Bi | Ca_% | Cd | Co | Cr | Cu | Fe_% | La | Mg_% | Mn | Mo | Na_% | Ni_ | P | Pb | Sb | Sn | Sr | Ti_% | U | V | W | Y | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G-L-S-618 | 10 | <0.2 | 1.35 | 70 | 230 | 10 | 0.21 | <1 | 12 | 26 | 23 | 2.97 | 20 | 0.36 | 339 | 3 | 0.01 | 28 | 490 | 12 | <5 | <20 | 14 | 0.01 | <10 | 47 | <10 | 6 | 55 |
| G-L-S-619 | 10 | 0.4 | 1.29 | 115 | 235 | <5 | 0.16 | <1 | 12 | 21 | 28 | 3.00 | 20 | 0.26 | 492 | 3 | 0.01 | 22 | 360 | 12 | <5 | <20 | 12 | 0.01 | <10 | 42 | <10 | 8 | 52 |
| G-L-S-620 | 20 | 0.6 | 1.28 | 230 | 375 | <5 | 0.79 | <1 | 23 | 23 | 43 | 4.22 | 30 | 0.43 | 1213 | 4 | 0.01 | 43 | 780 | 18 | <5 | <20 | 22 | 0.02 | <10 | 43 | <10 | 39 | 72 |
| G-L-S-621 | <5 | 0.4 | 1.46 | 35 | 335 | <5 | 0.53 | <1 | 13 | 27 | 34 | 3.48 | 20 | 0.42 | 297 | 3 | 0.01 | 27 | 520 | 16 | <5 | <20 | 26 | 0.02 | <10 | 48 | <10 | 23 | 59 |
| G-L-S-622 | <5 | <0.2 | 1.39 | 30 | 195 | <5 | 0.15 | <1 | 10 | 25 | 19 | 2.72 | 20 | 0.40 | 331 | 3 | 0.01 | 21 | 320 | 12 | <5 | <20 | 13 | 0.02 | <10 | 45 | <10 | 6 | 48 |
| G-L-S-623 | 5 | 0.2 | 1.18 | 60 | 165 | <5 | 0.19 | <1 | 16 | 25 | 33 | 3.55 | 20 | 0.33 | 521 | 4 | 0.01 | 31 | 510 | 22 | <5 | <20 | 14 | 0.02 | <10 | 43 | <10 | 9 | 75 |
| G-L-S-624 | 20 | 0.4 | 1.13 | 115 | 185 | 10 | 0.19 | <1 | 12 | 26 | 22 | 2.81 | 20 | 0.34 | 442 | 3 | 0.01 | 25 | 340 | 14 | <5 | <20 | 12 | 0.02 | <10 | 40 | <10 | 6 | 49 |
| G-L-S-625 | 15 | 0.4 | 1.47 | 255 | 290 | <5 | 0.27 | <1 | 23 | 38 | 40 | 3.83 | 20 | 0.38 | 657 | 4 | 0.01 | 81 | 360 | 26 | <5 | <20 | 18 | 0.01 | <10 | 48 | <10 | 8 | 89 |
| G-L-S-626 | 15 | 1.0 | 1.71 | 160 | 435 | <5 | 0.62 | <1 | 17 | 41 | 32 | 3.57 | 10 | 0.48 | 933 | 3 | 0.01 | 47 | 700 | 10 | <5 | <20 | 30 | 0.02 | <10 | 54 | <10 | 9 | 69 |
| G-L-S-627 | 20 | 1.8 | 1.30 | 325 | 450 | 10 | 1.00 | 2 | 25 | 62 | 52 | 4.25 | 10 | 0.44 | 1079 | 6 | 0.01 | 162 | 690 | 20 | <5 | <20 | 51 | 0.01 | <10 | 45 | <10 | 24 | 106 |
| G-L-S-801 | 5 | <0.2 | 1.36 | 35 | 200 | <5 | 0.19 | <1 | 9 | 27 | 26 | 2.55 | 10 | 0.40 | 311 | 2 | 0.01 | 24 | 600 | 12 | <5 | <20 | 12 | 0.04 | <10 | 46 | <10 | 13 | 57 |
| G-L-S-802 | <5 | 0.2 | 1.40 | 40 | 195 | <5 | 0.17 | <1 | 9 | 26 | 29 | 2.62 | 10 | 0.39 | 259 | 2 | 0.01 | 20 | 490 | 14 | <5 | <20 | 13 | 0.04 | <10 | 46 | <10 | 13 | 57 |
| G-L-S-803 | 30 | <0.2 | 1.92 | 40 | 140 | 10 | 0.06 | <1 | 8 | 26 | 14 | 3.04 | <10 | 0.31 | 230 | 3 | 0.01 | 15 | 190 | 18 | <5 | <20 | 7 | 0.03 | <10 | 63 | <10 | <1 | 40 |
| G-L-S-804 | <5 | <0.2 | 0.96 | 40 | 60 | 5 | 0.03 | <1 | 8 | 13 | 25 | 3.15 | <10 | 0.09 | 217 | 4 | <0.01 | 19 | 480 | 18 | <5 | <20 | 5 | 0.03 | <10 | 58 | <10 | <1 | 52 |
| G-L-S-805 | <5 | 0.4 | 1.22 | 65 | 245 | <5 | 0.09 | <1 | 14 | 23 | 38 | 3.42 | 30 | 0.30 | 680 | 3 | 0.01 | 34 | 220 | 20 | <5 | <20 | 12 | 0.03 | <10 | 41 | <10 | 32 | 108 |
| G-L-S-806 | <5 | <0.2 | 0.71 | 45 | 60 | <5 | 0.03 | <1 | 6 | 13 | 20 | 2.31 | <10 | 0.11 | 189 | 2 | <0.01 | 16 | 290 | 10 | <5 | <20 | 5 | 0.05 | <10 | 68 | <10 | 3 | 38 |
| G-L-S-807 | 15 | 1.2 | 2.11 | 170 | 245 | <5 | 0.07 | <1 | 14 | 27 | 31 | 3.48 | <10 | 0.26 | 514 | 4 | 0.01 | 45 | 270 | 20 | <5 | <20 | 7 | 0.02 | <10 | 66 | <10 | <1 | 59 |
| G-L-S-808 | 5 | 0.8 | 1.55 | 85 | 255 | <5 | 0.03 | <1 | 24 | 32 | 93 | 3.75 | 10 | 0.10 | 994 | 7 | <0.01 | 155 | 250 | 16 | <5 | <20 | 9 | <0.01 | <10 | 49 | <10 | <1 | 163 |
| G-L-S-809 | <5 | 1.2 | 2.40 | 20 | 195 | 10 | 0.07 | <1 | 9 | 28 | 18 | 3.43 | 10 | 0.28 | 273 | 3 | 0.01 | 20 | 300 | 18 | <5 | <20 | 5 | 0.02 | <10 | 72 | <10 | <1 | 34 |
| G-L-S-810 | <5 | 0.2 | 0.84 | 375 | 115 | <5 | 0.02 | <1 | 10 | 8 | 27 | 3.62 | 30 | 0.04 | 200 | 4 | <0.01 | 22 | 170 | 12 | <5 | <20 | 3 | <0.01 | <10 | 31 | <10 | <1 | 56 |
| G-L-S-811 | <5 | 0.4 | 1.35 | 205 | 135 | 10 | 0.04 | <1 | 13 | 15 | 30 | 3.36 | 10 | 0.16 | 360 | 4 | <0.01 | 27 | 310 | 20 | <5 | <20 | 6 | <0.01 | <10 | 36 | <10 | <1 | 67 |
| GL-M216 | 10 | 0.4 | 1.27 | 50 | 380 | 10 | 0.56 | <1 | 31 | 25 | 19 | 3.89 | 20 | 0.45 | 3827 | 2 | 0.02 | 24 | 860 | 8 | <5 | <20 | 36 | 0.06 | <10 | 53 | <10 | 21 | 83 |
| GL-M217 | 10 | <0.2 | 1.20 | 105 | 420 | 5 | 0.65 | 1 | 31 | 19 | 22 | 5.70 | 20 | 0.36 | 3090 | 4 | 0.02 | 24 | 870 | 8 | <5 | <20 | 45 | 0.05 | <10 | 59 | <10 | 18 | 85 |
| GL-M812 | 35 | 0.4 | 1.20 | 10 | 340 | <5 | 0.43 | 2 | 18 | 24 | 23 | 2.44 | 10 | 0.43 | 3009 | 1 | 0.02 | 23 | 940 | 6 | <5 | <20 | 37 | 0.03 | <10 | 45 | <10 | 17 | 78 |
| GL-S-218 | <5 | 0.6 | 0.94 | <5 | 135 | <5 | 0.15 | <1 | 2 | 6 | 43 | 1.03 | <10 | 0.06 | 209 | <1 | 0.03 | 5 | 290 | 4 | <5 | <20 | 10 | 0.02 | <10 | 19 | <10 | 16 | 39 |
| GL-S-219 | <5 | 0.2 | 0.80 | <5 | 230 | <5 | 0.10 | <1 | 6 | 11 | 30 | 1.45 | 10 | 0.10 | 314 | 1 | 0.02 | 9 | 530 | 8 | <5 | <20 | 10 | 0.02 | <10 | 28 | <10 | 7 | 29 |
| GL-S-220 | <5 | <0.2 | 1.92 | 15 | 355 | <5 | 0.33 | <1 | 14 | 31 | 33 | 3.77 | 20 | 0.39 | 652 | 4 | 0.01 | 31 | 590 | 10 | <5 | <20 | 14 | 0.01 | <10 | 55 | <10 | 6 | 58 |
| GL-S-221 | <5 | <0.2 | 2.51 | 20 | 250 | <5 | 0.13 | <1 | 14 | 38 | 37 | 3.78 | 20 | 0.50 | 409 | 3 | 0.01 | 26 | 270 | 16 | <5 | <20 | 12 | 0.03 | <10 | 68 | <10 | 12 | 56 |
| GL-S-222 | <5 | <0.2 | 1.33 | <5 | 125 | <5 | 0.04 | <1 | 8 | 16 | 23 | 3.17 | 20 | 0.15 | 219 | 3 | 0.01 | 16 | 350 | 10 | <5 | <20 | 5 | 0.02 | <10 | 50 | <10 | 2 | 62 |
| GL-S-223 | <5 | <0.2 | 2.02 | 55 | 315 | <5 | 0.12 | <1 | 10 | 25 | 27 | 4.05 | 10 | 0.38 | 377 | 4 | 0.01 | 18 | 280 | 12 | <5 | <20 | 12 | 0.02 | <10 | 65 | <10 | 6 | 67 |
| GL-S-224 | <5 | <0.2 | 1.35 | <5 | 170 | <5 | 0.03 | <1 | 12 | 22 | 25 | 5.64 | 10 | 0.19 | 585 | 5 | <0.01 | 10 | 270 | 8 | <5 | <20 | 4 | <0.01 | <10 | 52 | <10 | 2 | 108 |
| GL-S-225 | <5 | <0.2 | 1.41 | 40 | 130 | <5 | 0.06 | <1 | 8 | 15 | 15 | 3.15 | 10 | 0.24 | 226 | 4 | 0.01 | 10 | 210 | 10 | <5 | <20 | 3 | <0.01 | <10 | 44 | <10 | <1 | 47 |
| GL-S-226 | 5 | <0.2 | 2.64 | 10 | 665 | <5 | 0.21 | <1 | 10 | 31 | 36 | 3.58 | 10 | 0.47 | 412 | 3 | 0.01 | 23 | 360 | 12 | <5 | <20 | 16 | 0.03 | <10 | 77 | <10 | 4 | 53 |
| GL-S-227 | 5 | <0.2 | 1.70 | <5 | 440 | <5 | 0.15 | <1 | 6 | 17 | 13 | 3.12 | 10 | 0.26 | 380 | 3 | 0.01 | 10 | 510 | 8 | <5 | <20 | 10 | 0.02 | <10 | 68 | <10 | 2 | 39 |
| GL-S-228 | <5 | <0.2 | 1.25 | <5 | 270 | <5 | 0.23 | <1 | 5 | 11 | 12 | 1.95 | <10 | 0.20 | 201 | <1 | 0.02 | 7 | 350 | 8 | <5 | <20 | 18 | 0.03 | <10 | 41 | <10 | 3 | 18 |
| GL-S-229 | 5 | <0.2 | 1.48 | 5 | 250 | <5 | 0.22 | <1 | 8 | 20 | 19 | 2.69 | <10 | 0.34 | 316 | 2 | 0.02 | 11 | 270 | 8 | <5 | <20 | 15 | 0.04 | <10 | 67 | <10 | <1 | 36 |
| GL-S-230 | <5 | <0.2 | 1.74 | 30 | 580 | <5 | 0.57 | <1 | 7 | 20 | 38 | 2.55 | 10 | 0.39 | 380 | 2 | 0.02 | 17 | 680 | 6 | <5 | <20 | 50 | 0.02 | <10 | 54 | <10 | 17 | 39 |

| Sample # | Au_PPB | Ag | Al_% | As | Ba | Bi | Ca_% | Cd | Co | Cr | Cu | Fe_% | La | Mg_% | Mn | Mo | Na_% | Ni_ | P | Pb | Sb | Sn | Sr | Ti_% | U | V | W | Y | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GL-S-231 | 10 | <0.2 | 0.66 | 90 | 250 | <5 | 0.19 | <1 | 11 | 12 | 31 | 3.16 | 10 | 0.11 | 392 | 4 | 0.01 | 24 | 470 | 10 | <5 | <20 | 29 | <0.01 | <10 | 35 | <10 | 11 | 59 |
| GL-S-232 | 5 | 0.2 | 1.20 | 20 | 455 | <5 | 0.78 | <1 | 7 | 15 | 32 | 2.07 | 10 | 0.21 | 430 | 2 | 0.02 | 18 | 610 | 8 | <5 | <20 | 41 | 0.02 | <10 | 37 | <10 | 17 | 30 |
| GL-S-233 | 5 | <0.2 | 1.70 | 20 | 410 | <5 | 0.75 | <1 | 8 | 27 | 34 | 2.92 | 10 | 0.46 | 388 | 3 | 0.02 | 22 | 360 | 10 | <5 | <20 | 31 | 0.02 | <10 | 53 | <10 | 25 | 43 |
| GL-S-234 | <5 | <0.2 | 1.49 | 10 | 445 | <5 | 1.01 | <1 | 13 | 28 | 47 | 3.28 | 20 | 0.38 | 1101 | 3 | 0.02 | 27 | 480 | 12 | <5 | <20 | 40 | 0.02 | <10 | 51 | <10 | 35 | 48 |
| GL-S-235 | 10 | 0.4 | 1.95 | 10 | 635 | <5 | 0.73 | <1 | 3 | 16 | 20 | 2.35 | 70 | 0.40 | 523 | 3 | 0.01 | 12 | 680 | 16 | <5 | <20 | 44 | <0.01 | <10 | 33 | <10 | 136 | 36 |
| GL-S-236 | <5 | <0.2 | 0.97 | 5 | 260 | <5 | 0.15 | <1 | 5 | 15 | 9 | 1.99 | <10 | 0.34 | 198 | 2 | 0.01 | 10 | 130 | 8 | <5 | <20 | 12 | 0.03 | <10 | 41 | <10 | 7 | 29 |
| GL-S-237 | 5 | <0.2 | 1.33 | <5 | 700 | <5 | 1.26 | <1 | 9 | 16 | 24 | 3.60 | 20 | 0.33 | 528 | 3 | 0.02 | 10 | 1230 | 6 | <5 | <20 | 68 | 0.02 | <10 | 91 | <10 | 42 | 43 |
| GL-S-238 | 5 | <0.2 | 2.40 | <5 | 610 | 10 | 0.82 | <1 | 14 | 21 | 18 | 4.80 | 10 | 0.69 | 721 | 3 | 0.03 | 8 | 770 | 6 | <5 | <20 | 76 | 0.03 | <10 | 130 | <10 | 28 | 51 |
| GL-S-239 | 5 | <0.2 | 0.95 | 15 | 270 | <5 | 0.68 | <1 | 9 | 18 | 19 | 2.67 | 20 | 0.29 | 335 | 3 | 0.02 | 13 | 610 | 10 | <5 | <20 | 30 | 0.02 | <10 | 42 | <10 | 27 | 46 |
| GL-S-240 | 5 | <0.2 | 1.16 | 10 | 275 | <5 | 1.00 | <1 | 11 | 18 | 16 | 2.55 | <10 | 0.37 | 664 | 2 | 0.02 | 12 | 600 | 8 | <5 | <20 | 49 | 0.03 | <10 | 54 | <10 | 7 | 47 |
| GL-S-241 | 5 | <0.2 | 1.38 | 20 | 310 | <5 | 0.73 | <1 | 13 | 27 | 31 | 3.47 | 10 | 0.44 | 457 | 2 | 0.02 | 22 | 750 | 12 | <5 | <20 | 38 | 0.04 | <10 | 63 | <10 | 27 | 62 |
| GL-S-242 | <5 | <0.2 | 0.74 | 20 | 245 | <5 | 0.51 | <1 | 17 | 29 | 45 | 4.36 | 40 | 0.18 | 533 | 4 | 0.01 | 51 | 530 | 10 | <5 | <20 | 20 | <0.01 | <10 | 36 | <10 | 44 | 72 |
| GL-S-243 | 5 | 0.2 | 1.16 | 70 | 350 | <5 | 0.37 | <1 | 19 | 30 | 58 | 4.25 | 30 | 0.22 | 614 | 4 | 0.01 | 45 | 430 | 20 | <5 | <20 | 29 | 0.01 | <10 | 44 | <10 | 54 | 75 |
| GL-S-244 | 15 | <0.2 | 0.59 | 220 | 205 | <5 | 0.27 | <1 | 11 | 15 | 63 | 3.51 | 20 | 0.13 | 232 | 6 | 0.01 | 26 | 670 | 16 | <5 | <20 | 41 | <0.01 | <10 | 38 | <10 | 35 | 86 |
| GL-S-245 | <5 | 0.6 | 1.39 | 30 | 255 | <5 | 0.51 | <1 | 5 | 10 | 27 | 1.79 | <10 | 0.16 | 226 | 3 | 0.02 | 13 | 350 | 12 | <5 | <20 | 26 | 0.01 | <10 | 32 | <10 | 8 | 27 |
| GL-S-246 | 5 | <0.2 | 1.22 | 15 | 345 | <5 | 0.30 | <1 | 8 | 19 | 24 | 2.77 | 10 | 0.28 | 308 | 2 | 0.01 | 16 | 460 | 12 | <5 | <20 | 26 | 0.02 | <10 | 57 | <10 | 10 | 43 |
| GL-S-247 | <5 | <0.2 | 0.67 | 20 | 95 | <5 | 0.03 | <1 | 3 | 6 | 13 | 1.40 | <10 | 0.06 | 78 | 2 | 0.01 | 4 | 150 | 6 | <5 | <20 | 7 | 0.02 | <10 | 28 | <10 | <1 | 13 |
| GL-S-248 | <5 | 0.4 | 0.87 | 30 | 315 | <5 | 0.11 | <1 | 4 | 10 | 19 | 1.52 | <10 | 0.08 | 322 | 3 | 0.01 | 7 | 560 | 8 | <5 | <20 | 24 | <0.01 | <10 | 32 | <10 | 8 | 19 |
| GL-S-249 | <5 | <0.2 | 1.24 | 15 | 205 | <5 | 0.14 | <1 | 7 | 19 | 18 | 2.46 | 10 | 0.36 | 242 | 3 | 0.01 | 13 | 200 | 12 | <5 | <20 | 10 | 0.02 | <10 | 45 | <10 | 7 | 38 |
| GL-S-250 | <5 | <0.2 | 2.18 | 40 | 250 | 5 | 0.15 | <1 | 12 | 28 | 27 | 3.34 | <10 | 0.41 | 303 | 3 | 0.01 | 20 | 310 | 14 | <5 | <20 | 12 | 0.02 | <10 | 54 | <10 | <1 | 48 |
| GL-S-251 | 10 | <0.2 | 1.70 | 40 | 145 | <5 | 0.08 | <1 | 8 | 20 | 19 | 3.66 | 10 | 0.31 | 216 | 4 | 0.01 | 12 | 290 | 16 | <5 | <20 | 6 | 0.01 | <10 | 59 | <10 | <1 | 46 |
| GL-S-252 | <5 | <0.2 | 1.07 | 10 | 200 | <5 | 0.11 | <1 | 10 | 18 | 30 | 3.37 | 10 | 0.28 | 385 | 4 | 0.01 | 15 | 180 | 10 | <5 | <20 | 8 | 0.02 | <10 | 43 | <10 | 12 | 64 |
| GL-S-253 | 5 | 0.4 | 1.25 | 5 | 580 | <5 | 0.56 | <1 | 8 | 18 | 36 | 3.23 | 20 | 0.23 | 490 | 4 | 0.01 | 24 | 770 | 10 | <5 | <20 | 28 | <0.01 | <10 | 38 | <10 | 44 | 61 |
| GL-S-254 | 10 | <0.2 | 1.55 | 80 | 485 | <5 | 0.46 | <1 | 12 | 27 | 28 | 3.20 | 20 | 0.38 | 648 | 3 | 0.01 | 25 | 700 | 10 | <5 | <20 | 29 | 0.02 | <10 | 47 | <10 | 17 | 40 |
| GL-S-255 | <5 | 0.2 | 1.15 | 65 | 530 | <5 | 1.01 | <1 | 17 | 35 | 57 | 4.12 | 20 | 0.32 | 796 | 5 | 0.02 | 55 | 1250 | 12 | <5 | <20 | 56 | 0.01 | <10 | 52 | <10 | 15 | 77 |
| GL-S-256 | 5 | <0.2 | 0.77 | 130 | 235 | <5 | 0.14 | <1 | 13 | 12 | 40 | 3.45 | 40 | 0.13 | 357 | 4 | <0.01 | 29 | 210 | 10 | <5 | <20 | 11 | <0.01 | <10 | 21 | <10 | 6 | 63 |
| GL-S-257 | 10 | 0.4 | 1.37 | 45 | 780 | <5 | 0.61 | <1 | 7 | 12 | 24 | 2.63 | 20 | 0.16 | 720 | 3 | 0.02 | 19 | 480 | 10 | <5 | <20 | 33 | <0.01 | <10 | 29 | <10 | 20 | 36 |



Values in ppm unless otherwise indicated

## APPENDIX III - Statement of Expenditures

| | | | | |
|---|---|---|---|---|
| **Wages:** | J. Pautler | 4 days @ 300.00/day | $ 1,200.00 | |
| | E. A. Archibald | 5 days @ 200.00/day | 1,000.00 | |
| | M.L. Papageorge | 5 days @ 240.00/day | 1,200.00 | |
| | | **Total: 14 man-days** | | **$ 3,400.00** |
| **Groceries:** | 14 man-days @ $ 25.00/md | | | **350.00** |
| **Meals, Accommodation:** | 6 man-days @ $75.00/ea. | | | **300.00** |
| **Field Supplies:** | (flagging tape, thread, sample bags) 14 man-days @ $15.00/md | | | **$ 180.00** |
| **Camp Supplies:** | (Propane, tents, hardware, etc.) 14 days @ $10.00/md | | | **$ 140.00** |
| **Truck/Gas:** | 7 days @ $50/day + $200. fuel | | | **550.00** |
| **Equipment Rental:** | Satellite Phone @ $250/mo. for 8 days | | 67.00 | |
| | Handheld radios @ $375/mo. for 8 days | | 100.00 | |
| | | | **Total:** | **167.00** |
| **Geochemistry:** | 96 soils @ 17.00 ea. | Au, ICP | 1632.00 | |
| | 45 rocks @ 20.00 ea. | Au, ICP | 900.00 | |
| | 2 stream seds @ 17.00 ea. | Au, ICP | 34.00 | |
| | Shipping: | | 250.00 | |
| | | | **Total:** | **2,816.00** |
| **Maps & Prints:** | | | | **200.00** |
| **Report & Drafting:** | | | | **$ 700.00** |
| | | **GRAND TOTAL:** | | **$ 8,803.00** |
| **Total Amount Applied for Assessment** | | | | **$ 5,200.00** |

PROFESSIONAL
PROVINCE OF
J. M. PAUTLER
BRITISH COLUMBIA
GEOSCIENTIST

## APPENDIX VI

## STATEMENT OF QUALIFICATION

I, Jean Marie Pautler, do hereby certify that:

1) I am a geologist with more than twenty years of experience.

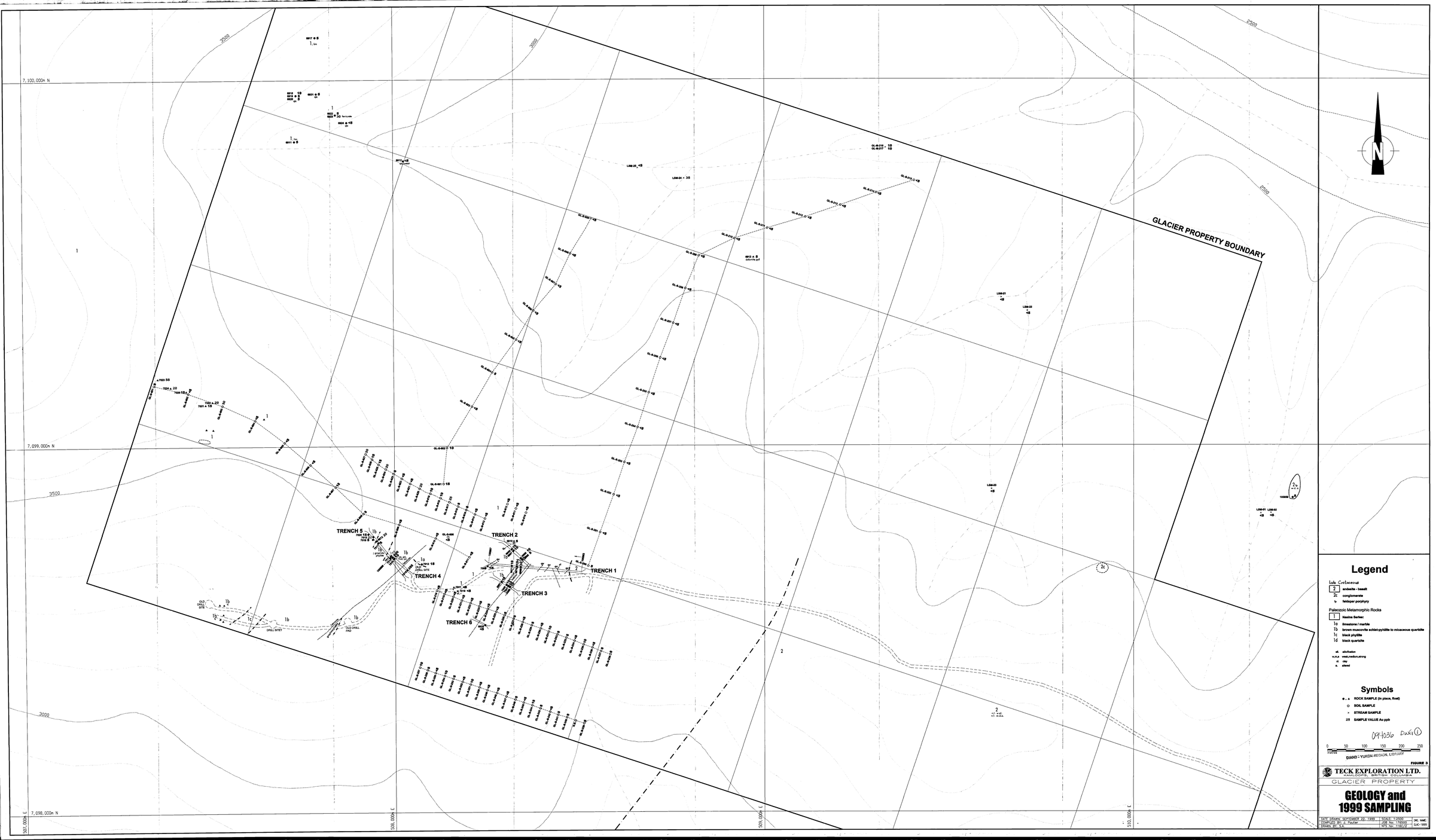
2) I am a graduate of Laurentian University, Sudbury, Ontario with an Honours B.Sc. degree in geology (May, 1980).

3) I am a Professional Geoscientist, registered in the province of British Columbia.

4) I supervised and conducted exploration on the Glacier Claim Group between July 5 and July 11, 1999.

Jean Pautler
Senior Project Geologist.

PROFESSIONAL
PROVINCE OF
J. M. PAUTLER
BRITISH COLUMBIA
GEOSCIENTIST




## Legend

Late Cretaceous

| | |
|---|---|
| 2 | andesite - basalt |
| 2c | conglomerate |
| 2p | feldspar porphyry |

Paleozoic Metamorphic Rocks

| | |
|---|---|
| 1 | Nasina Series: |
| 1a | limestone / marble |
| 1b | brown muscovite schist-pyhillite to micaceous quartzite |
| 1c | black phyllite |
| 1d | black quartzite |

sil. silicification
w,m,s weak,medium,strong
cl. clay
a. altered

## Symbols

- ● , ▲ ROCK SAMPLE (in place, float)
- ○ SOIL SAMPLE
- ▸ STREAM SAMPLE
- 25 SAMPLE VALUE Au ppb

094-036 DWG ①

0 50 100 150 200 250
METRES

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FIGURE 3

**TECK EXPLORATION LTD.**
KAMLOOPS, BRITISH COLUMBIA

GLACIER PROPERTY

# GEOLOGY and 1999 SAMPLING

| | | |
|---|---|---|
| DATE DRAWN: SEPTEMBER 22, 1999 | SCALE: 1:2500 | DR. NME |
| COMPILED BY: J. Routier | JOB No.: 176000 | |
| DRAWN BY: E.A. | NTS No.: 115-J-2 | SJC-1999 |