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**GEOLOGICAL, TRENCHING**

**AND**

**REVERSE CIRCULATION DRILLING REPORT**

on the

**S 1 to 48 CLAIMS**

Logan Lake Area  
Kamloops Mining Division

92I-7E  
(50° 26' North Latitude, 120° 37' West Longitude)

for

**GOLDCLIFF RESOURCE CORPORATION**  
6976 Laburnum Street  
Vancouver, BC  
V6P 5M9  
(Owner and Operator)

by

**GRANT F. CROOKER, P.Geo.,  
CONSULTING GEOLOGIST**

December 1997

**25,405**

**GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT**

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## 1.0 SUMMARY

The Plug project consists of 48 two-post mineral claims (S Claims) located in the Kamloops Mining Division. It is located approximately 14 kilometres east of Logan Lake in southern British Columbia and is owned and operated by Goldcliff Resource Corporation of Vancouver BC.

The general area of Kamloops-Merritt has been the scene of intense exploration and mining activity for more than 100 years. The exploration culminated with the discovery and development of the bulk tonnage copper-molybdenum deposits at Craigmont, Afton and Highland Valley.

Exploration has been carried out in the vicinity of the Plug project since the late 1880's with six mineral occurrences (Figure 3.0) having been documented. These include Bertha/Molly, Chatrandts, JHC, Rhyolite, Pom Pom and Plug. Shaft sinking, trenching, drilling, prospecting and geological, geochemical and geophysical surveys have been carried out over the showings.

The S claims cover the area of the Plug and Meadow showings. Upper Triassic Nicola volcanic and sedimentary rocks with minor intrusive rocks underlie the claims. Percussion drilling was carried out over coincidental geological, geochemical and geophysical targets in 1972 to test for copper and silver mineralization. The results are unknown but are assumed to be uneconomic. This drilling did show that in excess of 80 feet of overburden covers some areas of the S claims.

During the period 1986 through 1988 Western Resource Technologies Inc. carried out geological mapping, prospecting, soil geochemical sampling and magnetic and VLF-EM surveying over the Meadow Creek grid (Figure 4.0). These programs outlined a number of weak to moderate gold soil geochemical anomalies with values up to 700 ppb gold. Several silver and copper soil geochemical anomalies were also outlined.

Prospecting and sampling of the old trenches at the Plug showing revealed weak to strong carbonate-quartz alteration with minor mariposite over several hundred metres. A grab sample of the mineralization yielded gold and silver values of 7500 ppb (0.282 oz/ton) and 67.5 ppm respectively, and two soil samples taken from the same trench yielded 70 and 150 ppb gold. Two grab samples of quartz-carbonate-mariposite schist with galena and sphalerite from the Meadow showing yielded 605 and 482 ppb gold and 165.1 and 258.4 ppm silver.

Goldcliff Resource Corporation acquired the property in the fall of 1995, and during 1996 established grid lines over most of the property. Soil and silt geochemical sampling, magnetic and VLF-EM geophysical surveying and prospecting were also carried out. The silt sampling program yielded anomalous gold values from Meadow Creek below the Plug and Meadow showings, Hay Brook and the northwesterly flowing drainages in the southeastern portion of the property. A number of gold, copper and mercury soil geochemical anomalies were also delineated, along with magnetic features and VLF-EM conductors.

The 1997 program consisted of cursory prospecting of gold and copper soil geochemical anomalies and trenching and reverse circulation drilling on the Plug and Meadow showings.

The following conclusions can be drawn from the 1997 work program:


- 1.1 Reconnaissance prospecting of the gold and copper soil geochemical anomalies delineated in the 1996 program did not reveal the cause of any of the anomalies. Scattered sampling of outcrop and sub-outcrop of rusty, fractured Nicola volcanic rocks from the anomalies did not yield anomalous values in any elements.

- 1.2 Geological mapping of the trenches at the Plug showing revealed a large area of carbonate-quartz-mariposite (C-Q-M) alteration. Sampling of the C-Q-M alteration revealed that the moderately to strongly anomalous gold and silver values are restricted to trench 02, with trenches 01 and 03 not yielding any anomalous values in gold and silver.
- 1.3 The economically significant gold and silver values in trench 03 are related to a one to two metre wide, east-west striking, moderately south dipping shear zone exposed for 10 metres along strike. The shear zone yielded gold values ranging from 1.005 grams/tonne across 100 centimetres to 4.560 grams/tonne across 200 centimetres, and silver values ranging from 36.8 grams/tonne across 100 centimetres to 113 grams/tonne across 200 centimetres. The C-Q-M alteration adjacent to the shear zone also yielded moderately to strongly anomalous gold and silver values. Gold values range from 0.20 grams/tonne across 100 centimetres to 20.78 grams/tonne across 65 centimetres, and silver values range from 6.2 grams/tonne across 50 centimetres to 84.8 grams/tonne across 150 centimetres.
- 1.4 Reverse circulation drilling on the Plug showing tested the C-Q-M alteration exposed in the trenches. The drilling revealed a significant vertical extent to the C-Q-M alteration, but anomalous gold and silver values were restricted to the drill holes adjacent to trench 02 (PL02, PL03 and PL04).
- 1.5 Drill hole PL02 was drilled adjacent to trench 02 and intersected C-Q-M alteration with strongly anomalous gold and silver values. The section from 10 to 40 feet (five foot sample intervals) yielded anomalous gold values ranging from 0.700 to 2.850 grams/tonne, including 2.800 grams/tonne from 30 to 40 feet. The section also yielded anomalous silver values ranging from 4.8 to 40.2 grams/tonne, including 37.5 grams/tonne from 30 to 40 feet. Drill hole PL03 was an angle hole drilled to intersect the gold and silver mineralization at greater depth. This drill hole intersected C-Q-M alteration and yielded a five-foot section from 55 to 60 feet with weakly anomalous gold and silver values of 0.825 and 11.0 grams/tonne respectively.
- 1.6 The section A-A" through trench 02 and drill holes PL02 and PL03 indicate a moderately south dipping zone of gold and silver mineralization. The extent of the zone is unknown at this time.
- 1.7 Geological mapping of trench 03 at the Meadow showing revealed a 30-metre strike length of chlorite-mica-mariposite schist up to two metres wide containing quartz veinlets. Along most of the trench the quartz veinlets vary from two millimetres to two centimetres in width, but near the central portion of the trench the quartz vein widens to 35 centimetres. Traces of pyrite and galena occur with the quartz vein material. Gold (50 to 250 ppb) and silver (3.0 to 69.0) values were weakly anomalous in most samples across widths varying from 60 to 150 centimetres. Gold (4.420 to 6.140 grams/tonne) and silver (161 to 1715 grams/tonne) values were strongly anomalous in three samples of galena and sphalerite bearing quartz vein across 35 centimetres.
- 1.8 Drill hole PL01 on the Meadow showing was a vertical hole at trench 03 drilled down the zone to test the weakly anomalous gold and silver values. Minor to rare quartz veining was noted from 5 to 80 feet. Two sections, from 5 to 20 and 60 to 80 feet gave weakly anomalous gold (0.200 to 0.350 grams/tonne) and silver (2.6 to 168.0 grams/tonne) values.

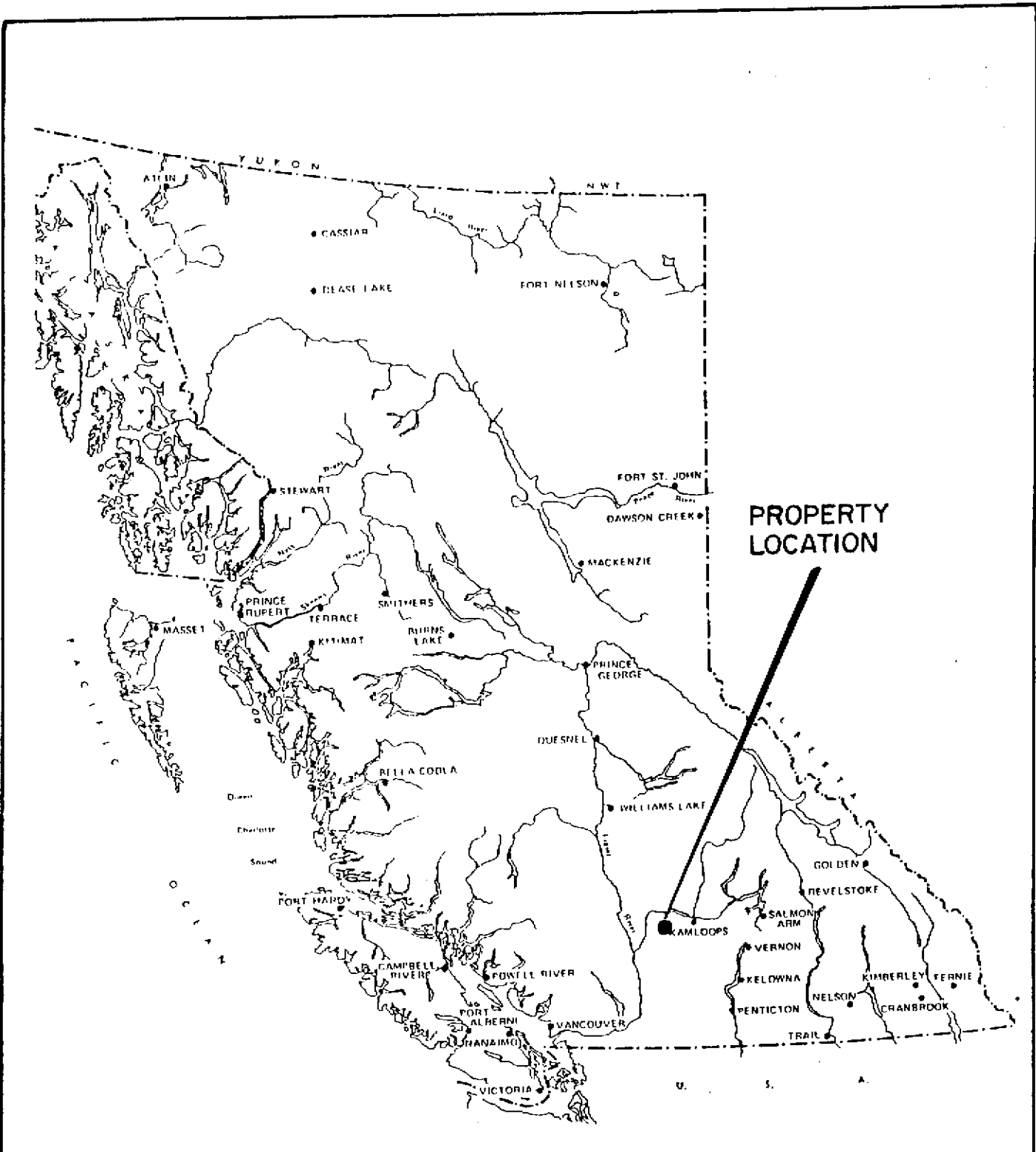
Recommendations are as follows:

- 1.1 The gold and copper soil geochemical anomalies delineated in 1996 should be investigated by more thorough prospecting and geological mapping to ascertain their causes.
- 1.2 The gold and silver mineralization at the Plug showing (exposed in trench 02 and intersected in drill holes PL02 and PL03) should be investigated by a minimum of eight, short NQ diamond drill holes to determine the grade, and vertical and lateral extent of the mineralization.
- 1.3 The gold and silver mineralization at the Meadow showing (exposed in trench 03 and intersected in drill hole PL01) should be investigated by a minimum of three, short NQ diamond drill holes to determine the grade and extent of the mineralization.

Respectfully Submitted,

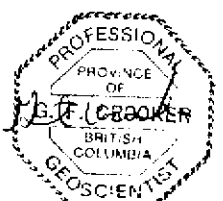


Grant Crooker, P. Geo.,  
Consulting Geologist



**PROPERTY  
LOCATION**

GEOTEC CONSULTANTS LTD.		
GOLDCLIFF RESOURCE CORPORATION		
PLUG PROJECT, S CLAIMS LOCATION MAP		
KAMLOOPS M.D., B.C.		
DATE: NOV. 1987	SCALE: AS SHOWN	FIGURE: I.O
DRAWN BY: G.F.C.	N.T.S.: 921-7E	



## 2.0 INTRODUCTION

### 2.1 GENERAL

Field work was carried out on the Plug project by Goldcliff Resource Corporation personnel during the summer and fall of 1997 and was under the direction of Leonard W. Saleken, P. Geo., of Geotec Consultants Ltd. Grant F. Crooker, P. Geo., of GFC Consultants Inc. provided the field supervision. William G. Botel, P. Eng., conducted a prospecting program over portions of the property and Rodney Arnold, P. Geo., supervised the drilling program.

Field assistants included Mike Harris, Keith Crow and Will Schneider.

The work program consisted of prospecting a number of areas on the property, trenching and reverse circulation drilling.

### 2.2 LOCATION AND ACCESS

The property (Figure 1.0) is located approximately 14 kilometres east of Logan Lake in southern British Columbia. It lies between 50°25'40" and 50°27'40" north latitude and 120°34'30" and 120°39'50" west longitude (NTS 92I-7E).

A network of paved, gravel and dirt roads (Figure 2.0) give excellent access to all areas of the claims. The Logan Lake-Kamloops highway passes through the northern portion of the claims. The Surrey Lake Forest Access road turns off this highway 14 kilometres east of Logan Lake and cuts through the centre of the claims. Four wheel drive roads access the Plug and Meadow showings, as well as other areas from the Surrey Lake road.

The Coquihalla highway and the Ridge Mountain Forest Access road give access to the southeastern and eastern portions of the claims.

### 2.3 PHYSIOGRAPHY

The property is located in the Interior Plateau of southern British Columbia. Topography is gentle to steep and elevation varies from 1180 to 1646 metres above sea level. Meadow Creek drains through the claims and numerous swamps and meadows are found along the creek. Snowfall is not excessive and water is usually available from the creek and swamps.

Vegetation consists of swamps, open grassy meadows and forest-covered areas. The forested areas vary from aspen and spruce to jack pine and fir.

### 2.4 PROPERTY AND CLAIM STATUS

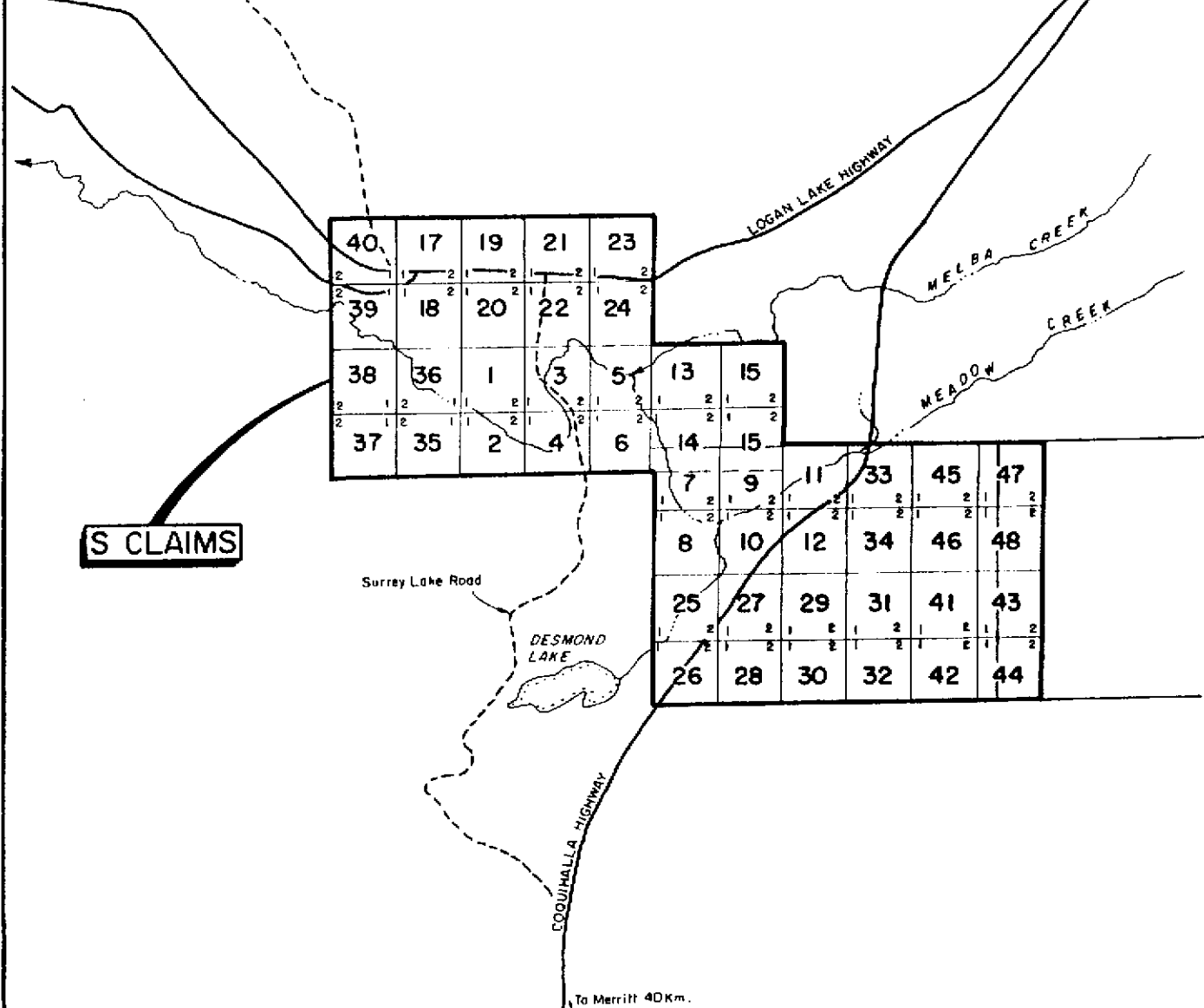
The S mineral claims (Figure 2.0) are owned by Goldcliff Resource Corporation, 6976 Laburnum Street Vancouver BC, V6P 5M9.

The property consists of forty-eight two-post claims and is located in the Kamloops Mining Division.



To Logon Lake 11 Km.

To Kamloops 35 Km.



**S CLAIMS**

Surrey Lake Road

DESMOND LAKE

COQUIHALLA HIGHWAY

To Merritt 40 Km.



3 - S-3 Claim  
 1 - Initial post  
 2 - Final post



GEOTEC CONSULTANTS LTD.  
**GOLDCLIFF RESOURCE CORPORATION**  
**PLUG PROJECT, S CLAIMS**  
**CLAIM MAP**  
 KAMLOOPS M.D., B.C.

0 1 2 3 KM

DATE: NOV 1997      SCALE: 1:50,000  
 DRAWN BY: G.F.C.      N.T.S.: 921-7E

**FIGURE: 2.0**

TABLE 1.0 - CLAIM DATA					
Claim	Units	Mining Division	Tenure No.	Record Date m/d/y	New Expiry Date m/d/y
S-1	1	Kamloops	341654	11/01/95	11/01/07*
S-2	1	Kamloops	341655	11/01/95	11/01/07*
S-3	1	Kamloops	341656	11/01/95	11/01/07*
S-4	1	Kamloops	341657	11/01/95	11/01/07*
S-5	1	Kamloops	341658	11/01/95	11/01/07*
S-6	1	Kamloops	341659	11/01/95	11/01/07*
S-7	1	Kamloops	341660	11/01/95	11/01/07*
S-8	1	Kamloops	341661	11/01/95	11/01/07*
S-9	1	Kamloops	341662	11/01/95	11/01/07*
S-10	1	Kamloops	341663	11/01/95	11/01/07*
S-11	1	Kamloops	341664	11/01/95	11/01/07*
S-12	1	Kamloops	341665	11/01/95	11/01/07*
S-13	1	Kamloops	341666	11/04/95	11/04/07*
S-14	1	Kamloops	341667	11/04/95	11/04/07*
S-15	1	Kamloops	341668	11/04/95	11/04/07*
S-16	1	Kamloops	341669	11/04/95	11/04/07*
S-17	1	Kamloops	344644	03/25/96	03/25/07*
S-18	1	Kamloops	344645	03/25/96	03/25/07*
S-19	1	Kamloops	344646	03/25/96	03/25/07*
S-20	1	Kamloops	344648	03/29/96	03/29/07*
S-21	1	Kamloops	344648	03/29/96	03/29/07*
S-22	1	Kamloops	344649	03/29/96	03/29/07*
S-23	1	Kamloops	344650	03/29/96	03/29/07*
S-24	1	Kamloops	344651	03/29/96	03/29/07*
S-25	1	Kamloops	344652	03/26/96	03/26/07*
S-26	1	Kamloops	344653	03/26/96	03/26/07*
S-27	1	Kamloops	344654	03/26/96	03/26/07*
S-28	1	Kamloops	344655	03/26/96	03/26/07*
S-29	1	Kamloops	344655	03/26/96	03/26/07*
S-30	1	Kamloops	344657	03/26/96	03/26/07*
S-31	1	Kamloops	344658	03/26/96	03/26/07*
S-32	1	Kamloops	344659	03/26/96	03/26/07*
S-33	1	Kamloops	344660	03/29/96	03/29/07*
S-34	1	Kamloops	344661	03/29/96	03/29/07*
S-35	1	Kamloops	346479	05/29/96	05/29/07*
S-36	1	Kamloops	346480	05/29/96	05/29/07*
S-37	1	Kamloops	346481	05/29/96	05/29/07*
S-38	1	Kamloops	346482	05/29/96	05/29/07*
S-39	1	Kamloops	346483	05/29/96	05/29/07*
S-40	1	Kamloops	346484	05/29/96	05/29/07*
S-41	1	Kamloops	346485	06/03/96	06/03/07*
S-42	1	Kamloops	346486	06/03/96	06/03/07*
S-43	1	Kamloops	346487	06/03/96	06/03/07*
S-44	1	Kamloops	346488	06/03/96	06/03/07*
S-45	1	Kamloops	346489	06/04/96	06/04/07*
S-46	1	Kamloops	346490	06/04/96	06/04/07*
S-47	1	Kamloops	346492	06/04/96	06/04/07*
S-48	1	Kamloops	346491	06/04/96	06/04/07*

\* Upon acceptance of this report.

## 2.5 AREA AND PROPERTY HISTORY

The Kamloops-Merritt-Logan Lake area has been the scene of intense exploration activity over the past 100 years. This activity culminated with the discovery and development of the porphyry copper-molybdenum mines in the Highland Valley, the Craigmont mine near Merritt and the Afton mine near Kamloops, beginning in the 1960's. Small mines with good copper-gold values were worked south of Kamloops Lake in earlier days.

Prospecting and development has been carried out in the vicinity of the S claims for almost 100 years. The documented showings near the property (Figure 3.0) are Bertha/Molly, JHC, Pom Pom, Chatrandts and Rhyolite. The S claims cover the former Plug property, now referred to as the Plug and Meadow showings (Meadow Creek grid).

Shaft sinking, trenching, drilling, prospecting, and geophysical and geochemical surveys have been carried out on the properties near the S claims. A brief summary of the showings is given below.

### Bertha/Molly Showing

This showing was first staked in 1888 by Wright and Fletcher. A shaft was sunk on the main showing (No. 1 Showing) and lodes 3 feet to 4.5 feet in thickness were discovered. In 1928 Meadow Creek Mines worked the Number 1 Showing and a few tons of high grade copper ore were sorted for shipment. Dunmore Mines Ltd. carried out road building, trenching and diamond drilling in 1954. A small mill was erected but the supergene copper minerals were not amenable to gravity concentration. Dunmore Mines drilled 17 diamond drill holes in 1957 and Hensworth reported that the holes encountered only sparse mineralization.

Highhawk Mines Ltd. and Consolidated Standard mines Ltd. acquired ground in the vicinity in 1972. Approximately 17 line miles of grid were established northwest of Dupont Lake to encompass Number 2 and 4 Showings. Soil geochemical and Induced Polarization surveys were conducted and two diamond drill holes totalling 750 feet were drilled to test IP anomalies flanking copper soil geochemical responses. Both holes encountered fracture related copper mineralization but the holes were not assayed and the claims were allowed to lapse.

### JHC SHOWING

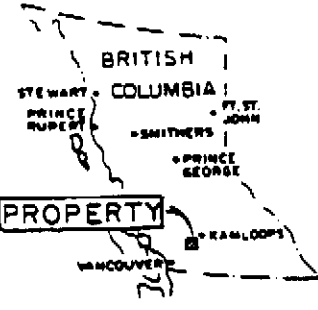
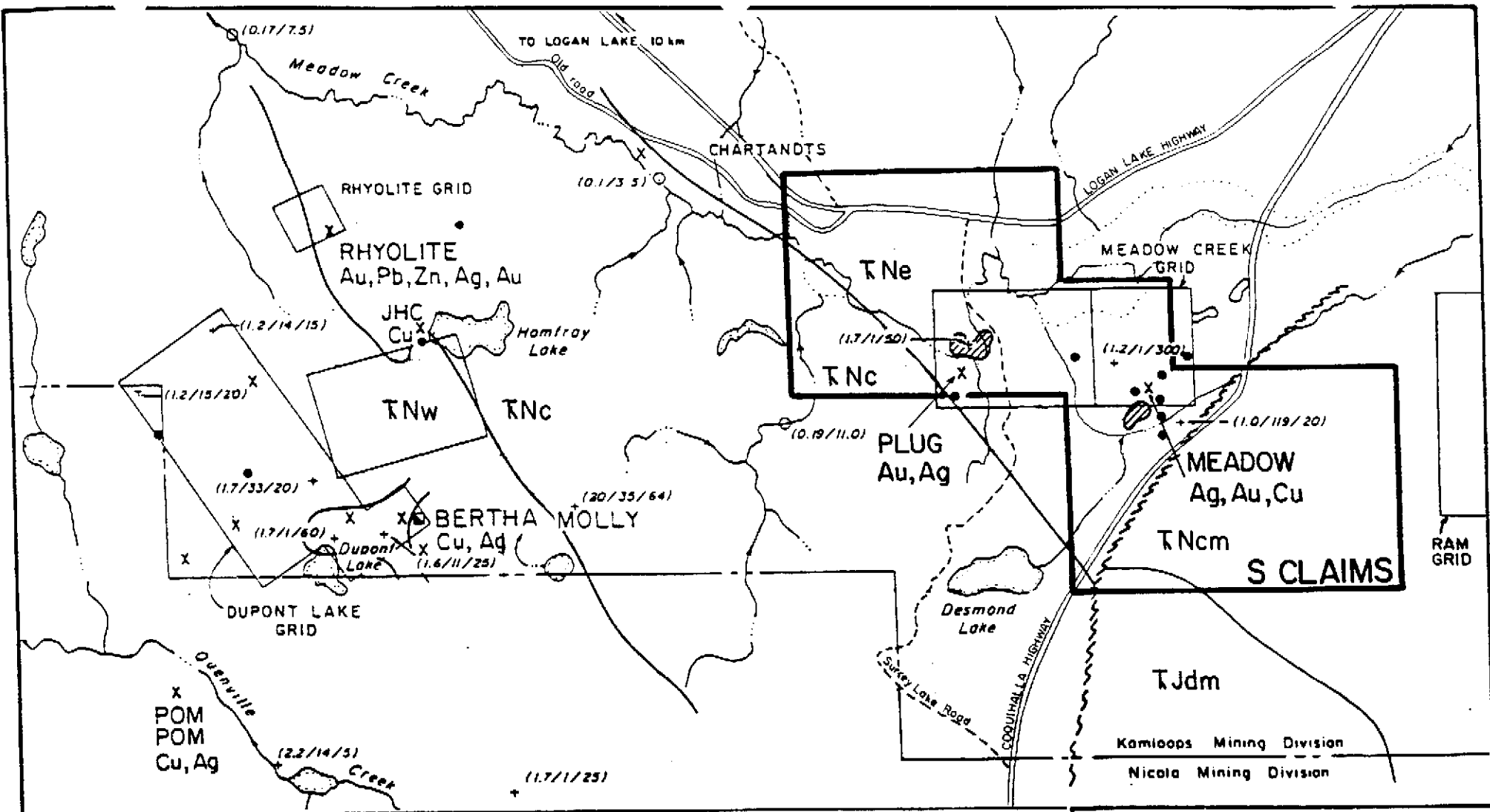
Vanex Minerals Ltd. acquired claims covering the JHC showing in 1958. They conducted magnetic surveys and physical work under the direction of Hill, Stark and Associates, consulting Engineers. In 1959 Vanex drilled two holes in the JHC area:

#### Hole No. 1

This hole was located approximately 3000 feet north of Homfray Lake and was drilled vertically to a depth of 358 feet to test a magnetic high. The lower portion of the hole encountered a siliceous, altered grey-green rock with considerable pyrite. No assays were reported but the recommendation was made to extend the hole to 1000 feet.

#### Hole No. 2

This hole was located on the west shore of Homfray Lake and was drilled at minus 45 degrees to a depth of at least to 293 feet. Altered volcanic rocks were noted but no mineralization was reported and no reason given for drilling the hole.

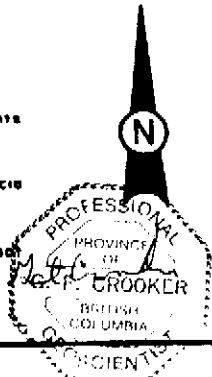


**LEGEND**

- Anomalous Regional Silts (Ag/As)
- X Mineralized Showings
- Adit
- Drill Holes
- + Anomalous Geochem (Ag/As/Au)
- ▭ Survey Grids
- ▨ Alteration Zones

**GEOLOGY**

- NICOLA GROUP**
- TNw Tuffs & Sediments
  - TNc Basic Flows
  - TNe Porphyry & Breccia
  - TJdm Diorite
- Geological Contact  
 - - - Fault



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GOLDCLIFF RESOURCE CORPORATION

**PLUG PROJECT, S CLAIMS  
 COMPILATION MAP**

KAMLOOPS M.D., B.C.



DATE: NOV. 1997	SCALE: 1:50,000	FIGURE: 3.0
DRAWN BY: G.F.C.	N.T.S.: 921-7E	

Craigmont Mines Limited staked claims in the area of the JHC showing in 1970. A small survey consisting of geological mapping, geochemical sampling and magnetic and IP surveying was conducted. Two holes totalling 800 feet were drilled but the location and results of the drilling are unknown.

### **Pom Pom Showing**

Newmont Mining Corporation of Canada staked the Pom Pom claims in 1973 after copper mineralization grading 0.17% copper was discovered. A small grid was established and mapping, soil geochemical sampling, magnetic and IP surveying (one line mile) were conducted. Follow up investigations were not conducted.

### **Chatrandts Showing**

The Minister of Mines Report for 1916 describes the showing as consisting of several deep open cuts and a 40-foot long adit. The location is not well documented and no further information is available on the showing.

### **Plug Showing**

The S claims cover the old Plug showings, (Meadow Creek grid) now referred to as the Plug showing (west showing) and Meadow showing (east showing). A description of the historical information available on the area is given below.

In 1972 Texada Mines Ltd. conducted geological mapping, magnetic and IP surveying and soil geochemical sampling (copper, zinc and silver) on 14 line miles of grid. The coincidental targets were percussion drilled with eight holes totalling 1400 feet. This work identified and concentrated on two zones of interest that are now referred to as the Plug and Meadow showings.

The Plug showing is described as underlain by altered lapilli tuff, minor lenses of limey sediments and chloritic schist. Narrow hornblende and andesite sills cut the sedimentary and volcanic rocks. Carbonate-quartz-mariposite schist with a N20°W strike and a steep easterly dip is in contact with the chloritic schist. One percussion drill hole tested the zone and encountered altered volcanic rocks with no visible mineralization.

The Meadow showing is underlain by chlorite-mica-feldspar schist and a highly pyritic quartz feldspar porphyry. Narrow hornblende and andesite sills cut the other rock types.

A five to ten-foot wide zone of quartz-mariposite schist (east-west strike, dip 75°south) occurs within the chlorite-mica-feldspar schist and contains minor silver bearing galena, sphalerite and chalcopryrite. During 1959 several AX diamond drill holes tested this zone, but the results are unknown.

A highly pyritized quartz feldspar porphyry with minor chalcopryrite outcrops along Meadow Creek. This zone was tested by seven percussion drill holes that did not yield economic copper mineralization. An irregular, steeply south and east plunging pyritized quartz feldspar porphyry sill with a maximum thickness of 100 feet was encountered in the holes. One of the percussion drill holes encountered more than 80 feet of overburden.

From 1985 to 1988 Western Resource Technologies Inc. carried out work programs on the Rhyolite, Dupont Lake and Meadow Creek grids (Figure 3.0). A silt sampling program was carried out over all drainages covered by the WRT claims. Soil and rock geochemical sampling, prospecting and magnetic and VLF-EM surveys were carried out over the grids. Anomalous copper, lead, zinc, gold, silver and arsenic values were found in silt and soil samples. As well, a number of VLF-EM conductors and magnetic trends were found.

The program on the Meadow Creek grid (Figure 4.0) outlined a number of weak to moderate gold geochemical anomalies with values of up to 700 ppb gold. Several silver and copper geochemical anomalies were also outlined. Prospecting and sampling of the old trenches at the Plug showing revealed weak to moderate carbonate-quartz-mariposite alteration over several hundred metres, with a grab sample yielding gold and silver values of 7500 ppb (0.282 oz/ton) and 67.5 ppm respectively. Several soil samples taken from the same trench as the anomalous rock sample gave 70 and 150 ppb gold.

Five rock samples taken from the Plug showing by Goldcliff Resource Corporation personnel in the fall of 1995 gave gold values ranging from 0.060 to 2.620 grams/tonne and silver values ranging from 1.8 to 114.5 grams/tonne.

Very little rock sampling has been carried out on the Meadow showing. However two grab samples of quartz-carbonate-mariposite schist with galena and sphalerite from this showing yielded 605 and 482 ppb gold and 165.1 and 258.4 ppm silver.

During 1972, a soil geochemical survey was carried out over the Ram claims that are now partially covered by the eastern portions of the S claims. A number of small copper geochemical anomalies were outlined by the survey, but no follow up work was carried out.

Soil geochemical sampling carried out on the Genesis claims (east of the S claims) during 1994 confirmed the presence of the copper geochemical anomalies with weaker gold values. No cause was found for the copper/gold soil geochemical anomalies.

During 1996 Goldcliff established a grid over most of the property and conducted soil geochemical sampling and VLF-EM and magnetic surveying over the grid. Silt geochemical sampling was also carried out on the major drainages on the property.

The silt sampling program was very successful with 11 of 25 samples giving anomalous gold values. Anomalous gold values came from Meadow Creek below the Plug and Meadow showings, Hay Brook and the northwesterly flowing drainages in the southeastern portion of the property. Four of the samples from the northwesterly flowing drainages were also anomalous in copper.

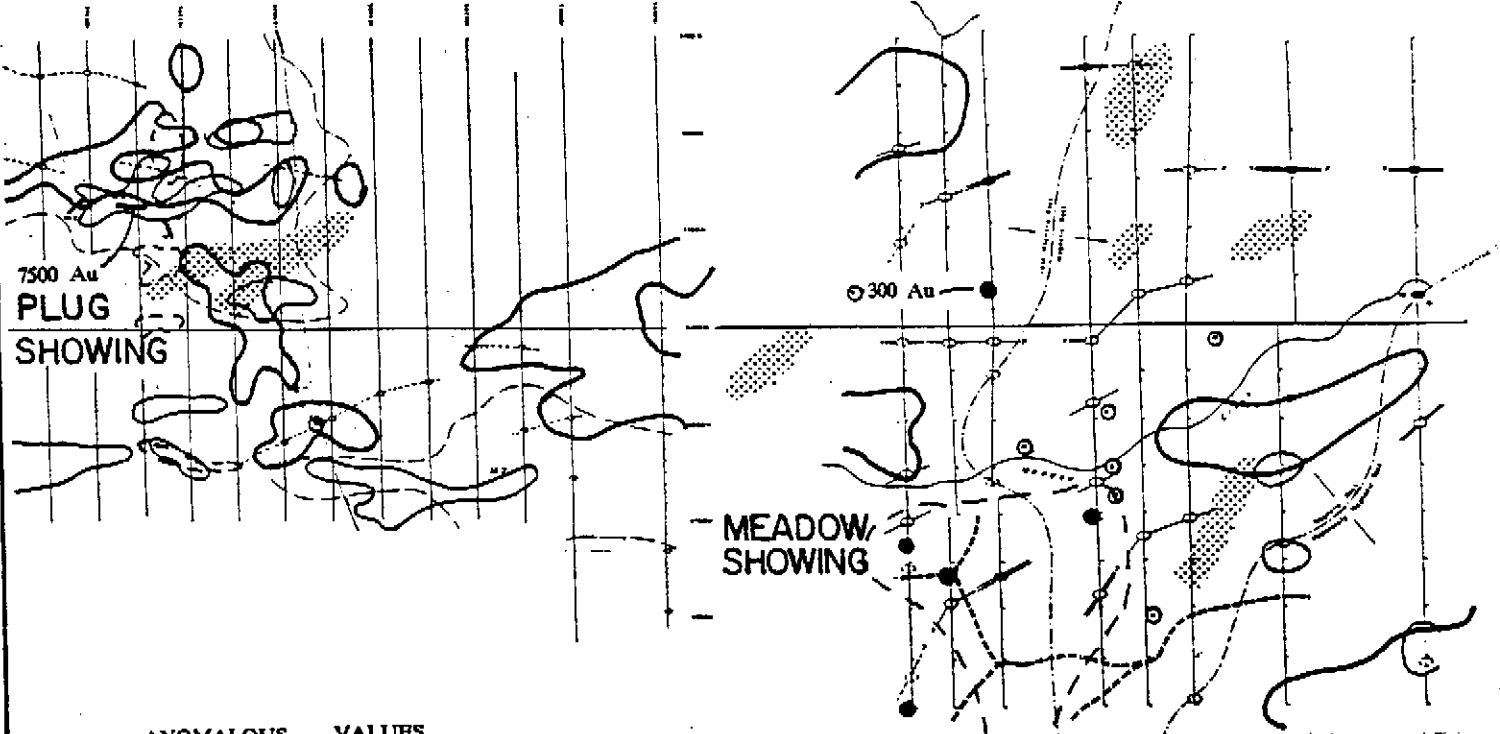
Gold soil geochemical values were generally low, with no broad anomalies outlined. However, four areas do show clustering of values and these areas have been indicated as gold geochemical anomalies. The gold anomalies do not occur coincidentally with the mercury and copper anomalies.

Two weak to moderate mercury soil geochemical anomalies were outlined. These two anomalies are made up of clusters of small, contiguous mercury anomalies. Mercury appears to have moderate correlation with copper. Copper was the most strongly anomalous of all elements, and three weak to strong anomalies were outlined. Copper appears to have little correlation with gold, but moderate to strong correlation with mercury. The strongest copper and mercury anomalies occur in the southeastern portion of the property.

The geophysical survey indicated a number of significant magnetic and electromagnetic features. The Plug showing occurs within interpreted intrusive or volcanic rock and appears to be associated with a weak magnetic high, VLF-EM conductivity and an interpreted fault intersection in the centre of the detail grid area. VLF-EM conductors in the detail grid area vary from strong to weak, are of short strike length and are near surface, possibly reflecting the mineralization within the detail grid.

The Meadow showing appears to be in a more complex structural, conductive and alteration environment. The mineralization may be related to conductivity within a northeast trending fault.

300+90  
300+80  
300+70  
300+60  
300+50  
300+40  
300+30  
300+20  
300+10



**LEGEND**

- STATION
- ROAD
- - - TRENCH
- ~ ~ ~ STREAM
- ~ SWAMP
- FLOAT SAMPLE
- △ BERRICK
- 45 1:40 000 Co ANOMALOUS
- 10 1:10 000 Au ANOMALOUS
- 14 1:10 000 Au
- ⊙ Drill Hole
- VLP-ED ANOMALY - WEAK STRONG
- - - - - INTERPRETED VLP-ED CONDUCTION ANOMALY - WEAK STRONG
- - - - - INTERPRETED POSITIVE ANOMALY - WEAK STRONG & LESS MAGNETIC FIELD
- M2 MAGNETIC HIGH ZONE LABEL
- Mag High

**ANOMALOUS VALUES**

- Copper ○
- Gold ○ ●
- Silver ○

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**GOLDCLIFF RESOURCE CORPORATION**  
 PLUG PROJECT, S CLAIMS  
**INTERPRETATION MAP**  
 KAMLOOPS M.D., B.C.

0 300 600 900 Metres

DATE: NOV. 1997	SCALE AS SHOWN	FIGURE: 4.0
DRAWN BY: G.F.C.	N.T.S.: 921-7E	



### 3.0 EXPLORATION PROCEDURE

The summer and fall 1997 exploration program consisted of a limited amount of prospecting on the entire claim group, and trenching and reverse circulation drilling on the Plug and Meadow showings.

#### 3.1 TRENCHING PARAMETERS

- 200 square metres trenching
- average depth 1 to 2 metres
- 3 trenches excavated
- excavator - Hitachi 200

The locations of the trenches are shown on Figures 7.0 and 8.0, and detailed information on each trench on Figures 9.1 through 9.5.

#### 3.2 DRILLING PARAMETERS

- reverse circulation drilling
- survey total    -8 drill holes
- 545.61 metres (1790 feet)

The locations of the drill holes are shown on Figures 7.0 and 8.0, and the drill logs listed in Appendix III.

#### 3.3 GEOCHEMICAL SURVEY PARAMETERS

- survey total    -179 rock samples
- 278 drill cutting samples
- rock and drill cutting analysed by 32 element ICP and for gold (30 gram pulp)

All samples were sent to Chemex Labs Ltd., 212 Brooksbank Avenue, North Vancouver BC, V7J 2C1 for analysis. *Rock and drill cutting samples were crushed and split, with one split ring ground to minus 150 mesh. A 32 element ICP and 30 gram gold (fire assay, atomic adsorption finish) analysis were then carried out on all samples.*

The rock geochemistry was plotted on Figure 7.0 and the certificates of analysis listed in Appendix I.



## 4.0 GEOLOGY AND MINERALIZATION

### 4.1 REGIONAL GEOLOGY

The area of the property lies within the Intermontane Belt of the Canadian Cordillera and is part of Quesnellia. Late Triassic arc-volcanic rocks (Figure 5.0) and volcanogenic sedimentary rocks of the Nicola Group underlie the western portions of the property. The eastern portions of the property are underlain by Triassic Nicola Group volcanic rocks typically metamorphosed to low greenschist facies. The western and eastern portions are separated by the northerly striking, steeply dipping Tertiary Clapperton fault system.

The metamorphosed Nicola Group rocks are part of the Nicola Horst that is a northerly trending block 40 kilometres long, entirely separated from the surrounding Nicola Group volcanic rocks by Tertiary normal faults. It is a complex of Nicola strata, quartzite, metaconglomerate and black schist of unknown age, and tonalite and tonalite porphyries that are penetratively deformed and metamorphosed to amphibolite facies. A variety of plutonic rocks ranging from metagabbro and tonalite to gabbro cut the older rocks. These plutonic rocks range in age from at least Early Jurassic to Paleocene.

There are two main sets of major faults. Northwesterly striking, at least partly contractional features that are probably Mesozoic in age, and northerly striking Tertiary extensional faults.

### 4.2 CLAIM GEOLOGY

The S claims are underlain by Late Triassic arc-volcanic rocks and sedimentary facies of the Nicola Group (Figure 6.0) that have been divided into three belts on the basis of distinct facies and assemblages. These three belts have been named the western (TNw), central (TNc) and eastern (TNe) belts.

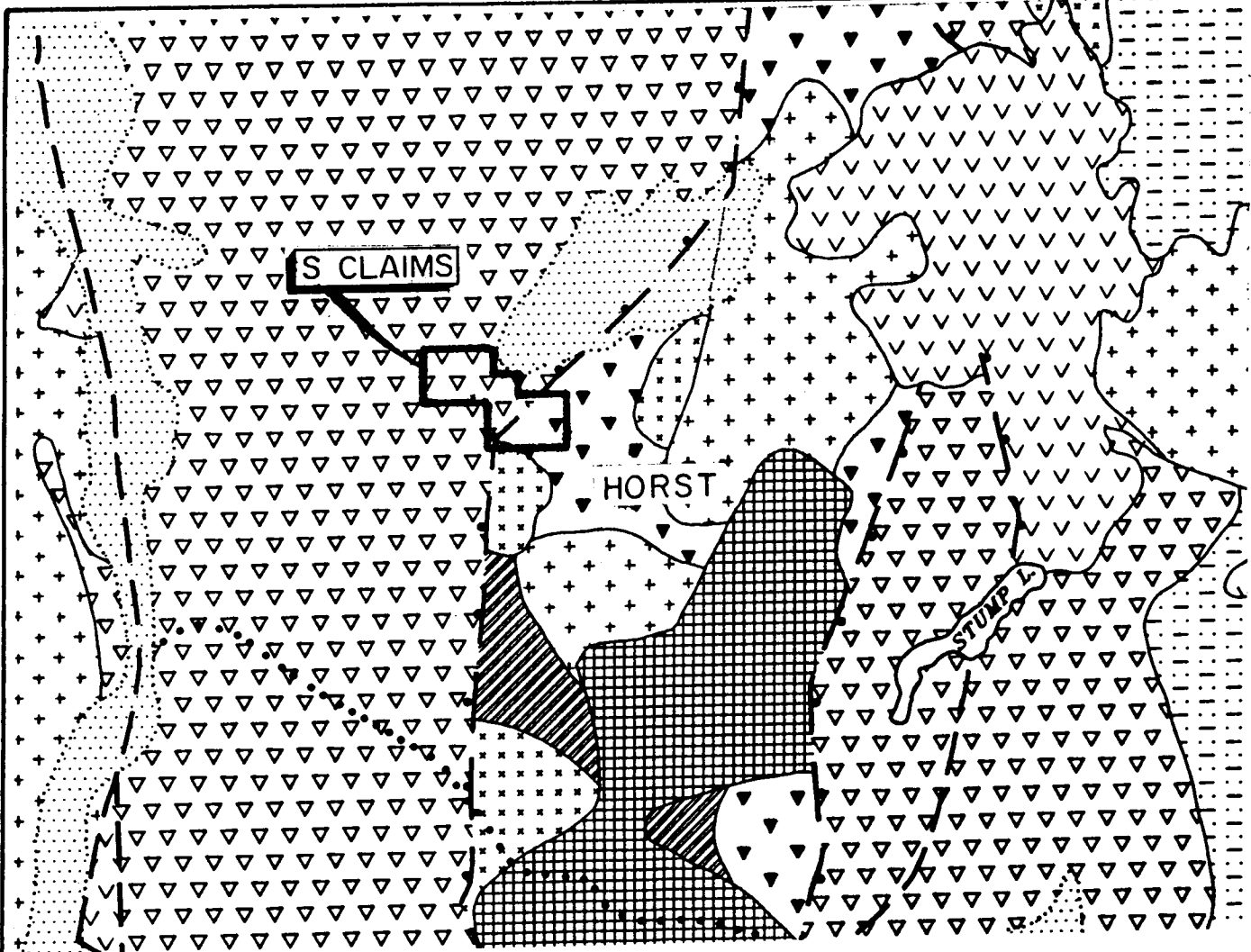
Most of the property is underlain by the eastern belt facies that consists almost entirely of mafic augite-phyric volcanoclastic rocks, ranging from coarse breccias to fine wacke and siltstone. Central belt facies rocks underlie the southwest part of the property. These rocks are mainly augite and plagioclase-phyric basalt flows and associated breccias. Sub-volcanic intrusions of diorite and gabbro are also abundant. Western belt facies rocks outcrop southwest of the property and are a succession of calcalkaline, mainly plagioclase-phyric andesite flows and breccias, with lenticular interlayers of limestone and bedded volcanoclastic rocks.

The portion of the property lying east of the Clapperton fault within the Nicola Horst is underlain by sub-greenschist and greenschist grade metamorphic rocks (TNcm) of the central volcanic belt.

### 4.3 MINERALIZATION

Mineralization is found at both the Plug and Meadow showings (Figure 7.0) on the S claims. Polished thin section examination of rocks from the Plug showing showed strong carbonate alteration with lesser silicification and quartz. The carbonate and quartz occur as fragments and veins, with two or more generations of carbonate veining occurring in several samples. Mariposite was noted in one sample. Based on their textures and mineral assemblages these rocks are believed to be alteration of mafic rocks. The presence of magnesite, mariposite and extensive veining suggests profound alteration of a magnesium and chromium rich source.

Opaque content of the samples varied from 1 to 3% in the four samples. Pyrite is the dominant opaque mineral, usually making up 75 to 99% of the opaques. Pyrite occurs as crystals, crystal fragments and ragged grains in seams and veins as well as disseminations throughout the rock. Grain size is usually in the 0.1 to 0.3 millimetre range. Magnetite was observed to make up 30% of the opaques in one sample and occurs as fine grains in the 0.05 to 0.1 millimetre range. Rare 5 to 60 micron size grains of chalcopyrite also occur in three of the samples.

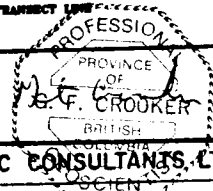


**LITHOLOGIC UNITS**

<b>QUATERNARY</b>	
	Glacial and fluvial deposits
<b>TERTIARY</b>	
	Granitic rocks
	Volcanic rocks
<b>Eocene</b>	
	"Coldwater beds"
<b>CRETACEOUS</b>	
	SPENCES BRIDGE Group
<b>JURASSIC</b>	
	ASHCROFT Formation
<b>MESOZOIC</b>	
	Granitic intrusive rocks
	Mafic and ultramafic intrusive rocks
<b>LATE TRIASSIC</b>	
	NICOLA Group (metamorphosed rocks in Nicola horst)
	NICOLA Group (predom. volcanic and coarse volcanoclastic)
	NICOLA Group (predom. sedimentary)
<b>MESOZOIC (or older?)</b>	
	Metaconglomerate, schist; metatonalite
<b>MID TO LATE PALEOZOIC and TRIASSIC</b>	
	HARPER RANCH Group, associated rocks (includes some Nicola Group)
<b>EARLY TO LATE PALEOZOIC</b>	
	SILVER CREEK Formation, CRAPPERON Group and associated rocks
<b>PALEOZOIC (and older?)</b>	
	OKANAGAN COMPLEX: gneiss and migmatite

**SYMBOLS**

	UNIT CONTACT
	UNIT CONTACT (INFERRED UNDER QUATERNARY)
	QUATERNARY BOUNDARY
	LAKE BOUNDARY
	FAULT
	DIP-SLIP FAULT (DOTS ON DOWN-THROWN SIDE)
	THRUST FAULT
	LITHOPROBE TRANSECT LINE



**GEOTEC CONSULTANTS, LTD.**

**GOLDCLIFF RESOURCE CORPORATION**

**PLUG PROJECT, S CLAIMS**

**REGIONAL GEOLOGY**

KAMLOOPS M.D., B.C.

0 5 10 15 KM

DATE: NOV. 1997	SCALE: 1:250,000	<b>FIGURE: 5.0</b>
DRAWN BY: G.F.C.	N.T.S.: 921-7E	

Two types of mineralization occur at the Meadow showing. The first is a five foot wide zone of chloritic schist with minor mariposite containing quartz veins. The quartz veining varies from narrow quartz stringers less than one centimetre in width to quartz veins up to 35 centimetres in width. Minor silver bearing galena, sphalerite and chalcopyrite occur within the quartz vein. The second type of mineralization is a highly pyritized quartz feldspar porphyry with minor chalcopyrite. The dimensions of this quartz feldspar porphyry are unknown at this time.

Reconnaissance prospecting and limited rock sampling (Figure 7.0) were carried out over a number of areas of the property including the Meadow showing and several gold and copper soil geochemical anomalies prior to the trenching and drilling programs.

Prospecting was carried out around the Meadow showing and five samples (WGB 1 to 5) taken. Two samples (WGB 3 and 4) of quartz-mica schist float with mariposite yielded weakly anomalous gold (60 and 20 ppb), silver (5.6 and 13.2 ppm), arsenic (462 and 382 ppm), lead (154 and 324) and zinc (2490 and 240 ppm) values. Float was found over a wide area with no indication of the mineralization in place, and the showing was thought to be under the narrow road between a steep cliff and a swamp. Trenching of the area proved this to be correct.

During the 1996 program AX drill core and several old trenches were found near 19250E and 7825N. Five samples (WGB 14 to 18) of quartz-carbonate-mariposite altered rock were taken from this area during the 1997 program. Four samples (WGB 14 to 16, 18) gave weakly anomalous gold values ranging from 10 to 35 ppb. No other elements were anomalous.

Four samples (samples 19350E and 7750N, A, B, C and D) of carbonate-quartz alteration with Nicola volcanic rocks were also taken in the same area near an old trench at 19350E and 7750N. One sample (19350E and 7750N, B) gave weakly anomalous silver (12.8 ppm), arsenic (20 ppm), copper (377 ppm) and antimony (194 ppm) values. The four samples were all anomalous for antimony.

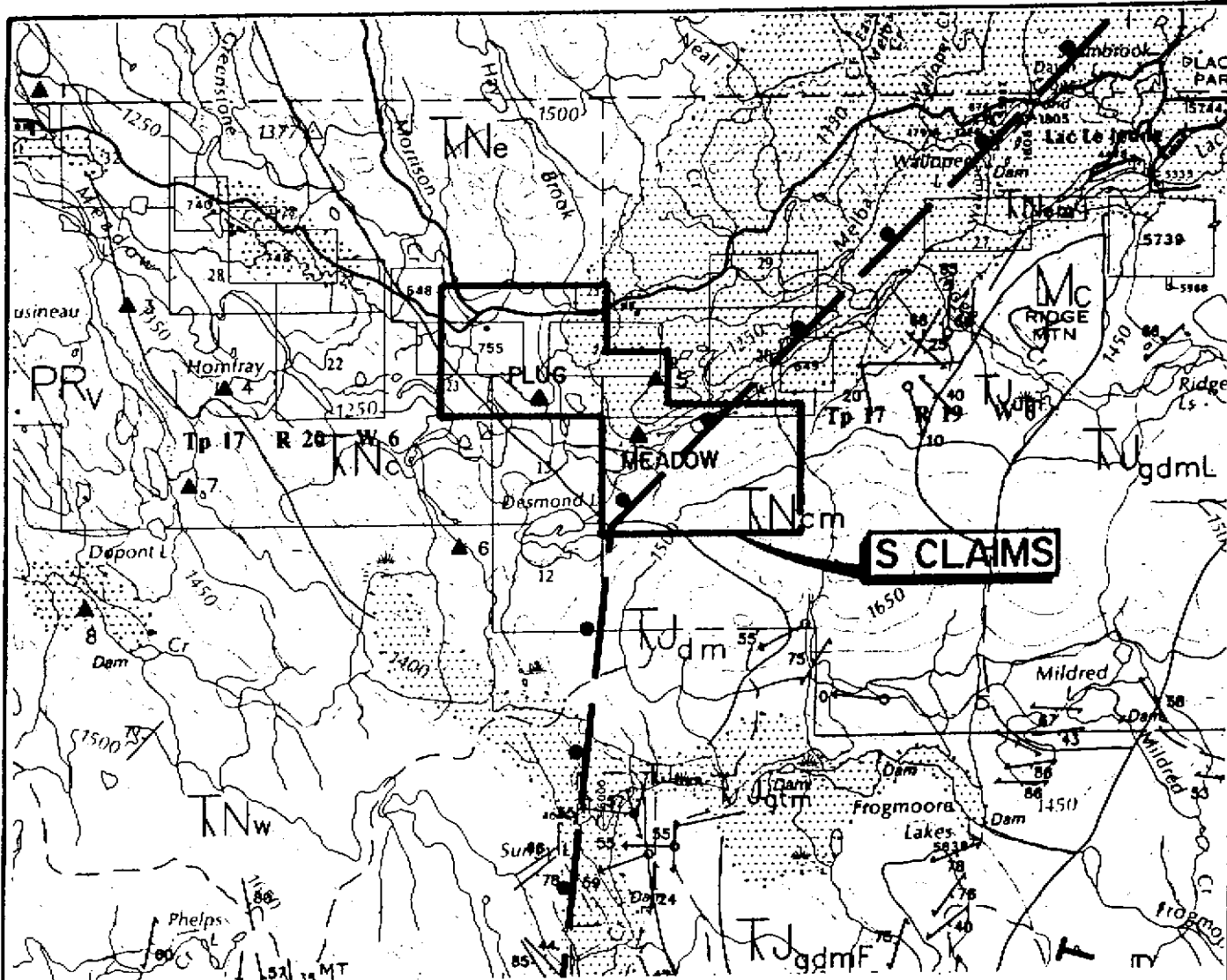
Cursory prospecting was carried out over a number of gold and copper soil geochemical anomalies. Anomaly Au-1 occurs on a gravel covered area with little outcrop or float. A small outcrop of fractured volcanic breccia with no magnetite was sampled at 18650E and 11165N and volcanic float sampled at 18350E and 11050N and 18650E and 11100N. None of the samples were anomalous for any elements.

Anomaly Au-2 is located in an area with thick accumulations of gravels. Sub-outcrop of Nicola volcanic rocks with fine-grained pyrite along fractures was sampled at 21150E and 8825N but did not give anomalous values in any elements.

Anomaly Au-3 is located on a steep slope with minor outcrop of fractured, rusty Nicola volcanic rocks. Four grab samples (20450E and 7810N, 20350E and 7800N, 20300E and 7800N, 20290E and 7800N) of the volcanic rocks were not anomalous in any elements.

Anomaly Cu-1 is located on a steep slope with minor outcrop of fractured, rusty, pyritic Nicola volcanic rocks. Three grab samples (20950E and, 7875N, 20950E and 8000N, 21250E and 8100N) of the volcanic rocks were not anomalous in any elements.

Anomalies Cu-2 and Au-4 are located on a steep slope with minor outcrop and sub-outcrop of fractured, rusty, pyritic Nicola volcanic rocks. Five grab samples (21552E and 8285N, 21650E and 8350N, 2155E and 8440N, 21050E and 8040N, 20950E and 8375N) of the volcanic rocks were not anomalous in any elements.



**LITHOLOGIC UNITS**

**QUATERNARY**

- Glacial, fluvioglacial, fluvial and lacustrine deposits; estuarium, landslide deposits
- Oolitic basalt, typically vesicular ("Valley basalt")

**TERTIARY**

**PALEOGENE**

- Granodiorite, tonalite and granite with K-feldspar megacrysts, of ROCKY GULCH batholith and possibly REY LAKE pluton

**MIOCENE**

- Oolitic basalt ("Columbia basalt")

**LATE TRIASSIC and/or OLDER**

- Hornblende-biella and biella granodiorite and quartz diorite (qd) of GURCHON CREEK, WILD HORSE and PENHASE batholiths, JESSE CREEK and DOUGLAS LAKE stocks and unnamed bodies

- Metamorphosed hornblende-biella and biella quartz diorite, granodiorite and granite (gl) of Nicola horst

- Augite, hornblende diorite, quartz diorite; includes subvolcanic intrusions into NICOLA GROUP, biella-hornblende meta-diorite of Nicola horst

- Metaperidotite (Nicola horst)

**LATE TRIASSIC**

**NICOLA GROUP**

- Mafic and intermediate volcanic and volcanoclastic rocks, undivided; miugger greenachist-low amphibolite facies meta-volcanic rocks, mainly in Nicola horst; hornblende and biella-hornblende schist, amphibolite

- Western volcanic facies: mafic to felsic, picroclase-phyric flows, pyroclastic and picroclastic breccias, tuff, wacke, minor limestone and limestone conglomerate; f: predominantly felsic flows, tuff, welded tuff

- Central volcanic facies: mafic and intermediate picroclase-augite-phyric flows, locally pillowed, and breccia; subordinate tuff, limestone, wacke and siltstone

- Eastern volcanic facies: mafic hornblende- and augite-phyric, predominantly spiculate breccia, turbidite wacke, local siltstone

**SYMBOLS**

- Lithologic contact (broken where speculative)
- Boundary of unconsolidated deposits
- Fault; solid strikes on downthrown side
- Base and/or precious metal occurrence (Table 1)
- LITHOPROBE transect route
- Bedding (inclined, vertical)
- Cleavage / schistosity (inclined vertical)
- Lineation (mineral aggregates, deformed cleats)
- Uranium-lead zircon date locality
- Potassium-argon date locality
- Fossil locality

FROM OPEN FILE 1990-29



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GOLDCLIFF RESOURCE CORPORATION

PLUG PROJECT, S CLAIMS  
CLAIM GEOLOGY

KAMLOOPS M.D. BC.

0 2 4 6 KM

DATE: NOV. 1997	SCALE: 1:100,000	FIGURE: 6.0
DRAWN BY: G.F.C.	N.T.S.: 921-7E	

## 5.0 TRENCHING

Trenching was carried out over the Plug and Meadow showings and results are documented with a brief description of the geology and analytical results for each trench. Certificates of analysis are listed in Appendix I and trench locations shown on Figures 7.0 and 8.0. Assay plans and sample locations are given for each trench on Figures 9.1 through 9.5.

### 5.1 CLIFF SHOWING

#### 5.1.1 TRENCH - TR01 (FIGURE 9.1)

##### 5.1.1.1 TRENCH STATUS - TR01

TARGET:	Plug Showing
GRID LOCATION:	9330 North, 18215 East
ELEVATION:	1221 Metres
LENGTH:	32 Metres

##### 5.1.1.2 GEOLOGY SUMMARY - TR01

Trench 01 exposed approximately 11 metres of strong carbonate-quartz-mariposite alteration (C-Q-M alteration) in the central portion of the trench, with 11 metres of chloritic schist exposed in the southern portion. A significant portion of the trench filled with water immediately after it was excavated. The C-Q-M alteration varies in intensity, but consists of 1 to 10 millimetre wide carbonate and quartz veinlets, and subangular to subrounded carbonate and quartz fragments in a finer quartz- carbonate-sericite matrix. The amount of mariposite varies from sample to sample. Magnetite concentrations vary up to 2%, with minor amounts of pyrite.

##### 5.1.1.3 ANALYTICAL RESULTS - TR01

Sampling of the C-Q-M alteration yielded only one weakly anomalous gold value of 50 ppb (TR01-117) across two metres. None of the samples gave anomalous silver, arsenic, copper, lead or zinc values.

#### 5.1.2 TRENCH - TR02 (FIGURE 9.2)

##### 5.1.2.1 TRENCH STATUS - TR02

TARGET:	Plug Showing
GRID LOCATION:	9350 North, 18130 East
ELEVATION:	1220 Metres
LENGTH:	35 Metres

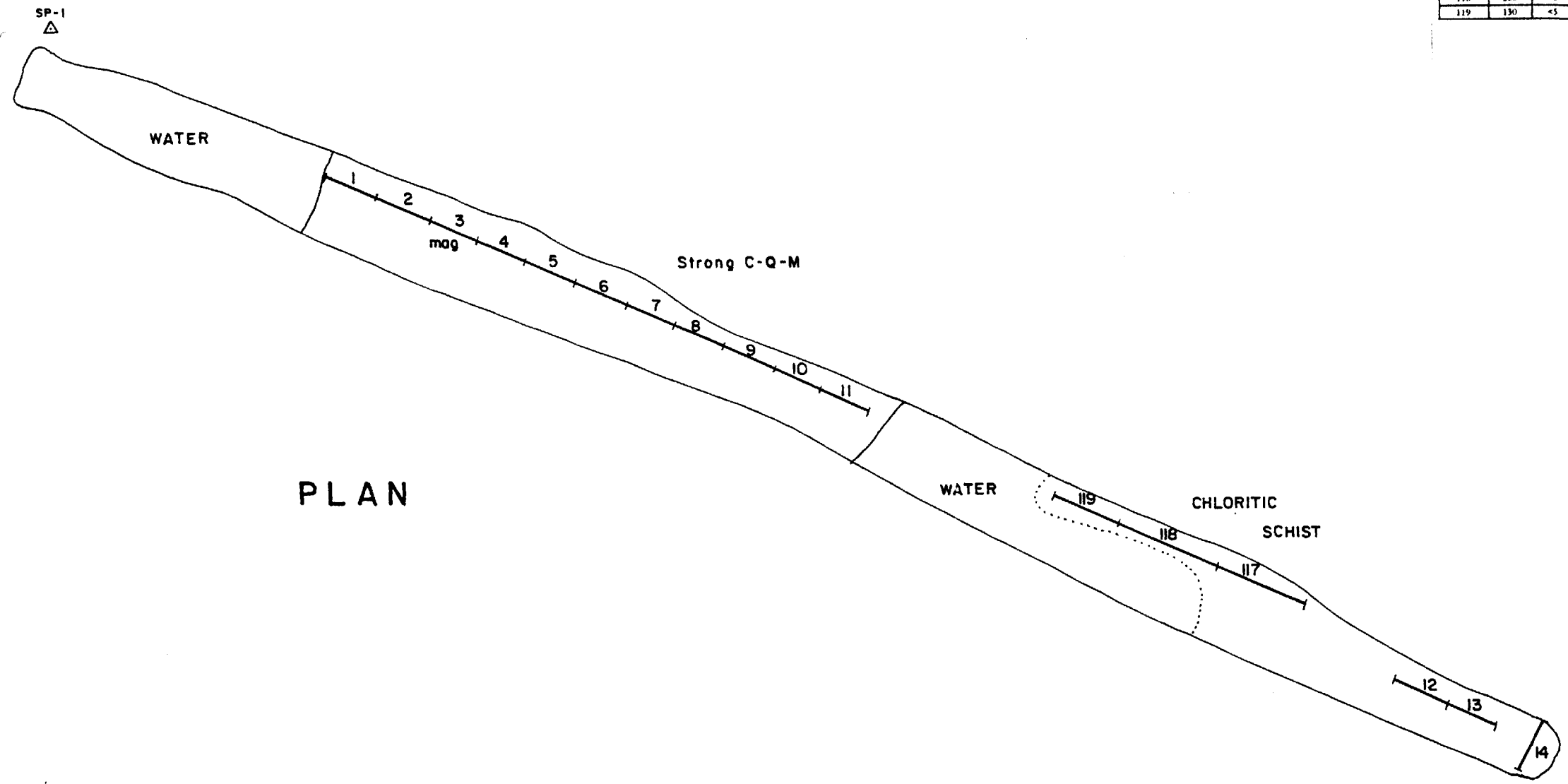
##### 5.1.2.2 GEOLOGY SUMMARY - TR02

Trench 02 exposed approximately 35 metres of weak to strong C-Q-M alteration. The alteration is weakest in the eastern portion of the trench, and moderate to strong in the remainder of the trench. A one to two metre wide east-west striking, moderately south dipping shear zone is exposed in the central portion of the trench for about 10 metres. The shear zone is composed of grey and grey-white fault gouge and sub-angular clasts of quartz. The gouge is often stained a rusty colour.

PLUG ASSAY PLAN - TRENCH 1

Sample No	Width cm	As ppm	Ag ppm	Au ppm	Cu ppm	Description
001	100	<3	<0.2	2	21	moderate C-Q alteration, trace M
002	100	<5	<0.2	4	33	moderate C-Q alteration, trace M
003	100	<5	<0.2	6	33	moderate C-Q alteration, trace M, 2% mag
004	100	<5	<0.2	6	52	moderate C-Q alteration, trace M
005	100	<5	<0.2	<2	61	moderate C-Q alteration, trace M
006	100	<5	<0.2	4	36	strong C-Q-M alteration
007	100	<5	0.2	6	60	strong C-Q-M alteration
008	100	<5	<0.2	8	14	strong C-Q-M alteration
009	100	<5	<0.2	8	80	strong C-Q-M alteration
010	100	<5	<0.2	<2	30	strong C-Q-M alteration
011	100	<5	<0.2	2	11	strong C-Q-M alteration, rounded siliceous breccia fragments
012	100	<5	<0.2	8	28	moderate C-Q alteration
013	100	<5	<0.2	4	30	moderate C-Q alteration
014	100	<5	<0.2	6	48	moderate C-Q alteration, trace mag
117	200	50	<0.2	2	35	chl schist, rhyt, <5% C-Q veins
118	200	<5	<0.2	<2	35	chl schist, rhyt
119	130	<5	<0.2	8	41	fresh, green chl schist

C carbonate  
 Q quartz  
 M mariposite  
 chl chlorite  
 mi mica  
 py pyrite  
 mag magnetite  
 ga galena  
 lim limonite  
 cm centimetre  
 mm millimetre

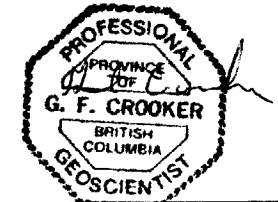


PLAN

- OB Overburden
- V Volcanics
- C Carbonate
- Q Quartz
- M Mariposite

- L E G E N D**
- Trench or road
  - Survey point
  - Sample N°. & width
  - Drill hole N°.
  - Geological contact
  - Outcrop
  - Shear & attitude
  - Quartz vein, attitude

- py Pyrite
- cpy Chalcopyrite
- mag Magnetite
- ga Galena
- mal Malachite
- lim Limonite
- sp Sphalerite



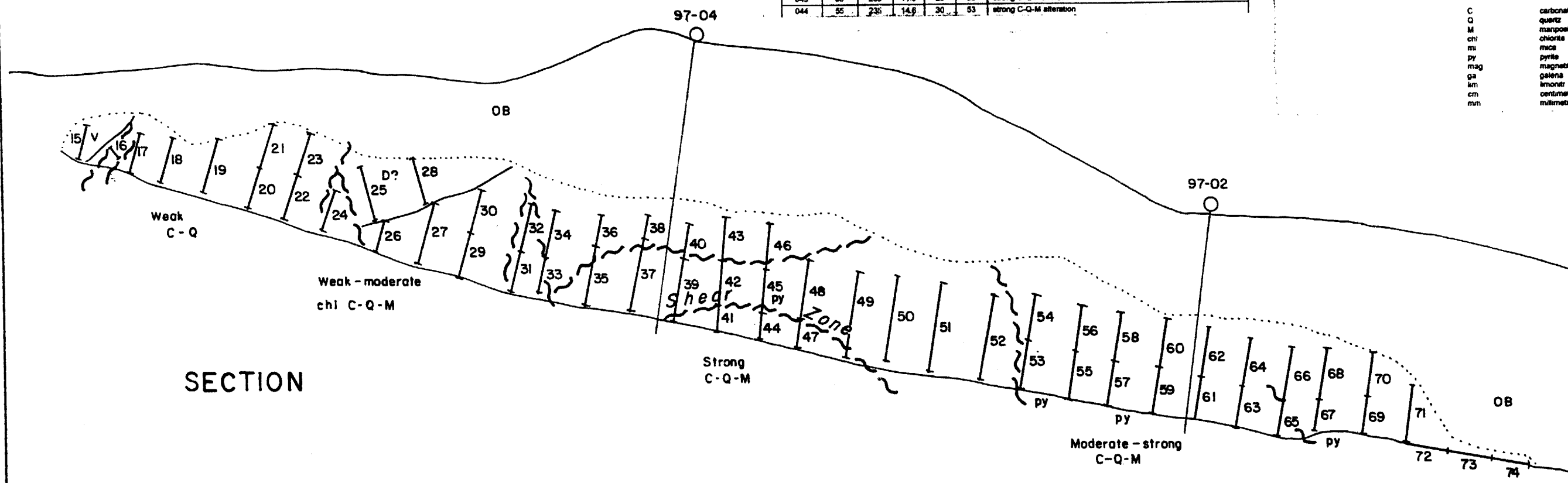
GEOTEC CONSULTANTS LTD.  
 GOLDCLIFF RESOURCE CORPORATION  
**PLUG PROJECT, S CLAIMS  
 TRENCH 01  
 SAMPLE LOCATIONS & GEOLOGY**  
 N.T.S. 92 I - 7 E KAMLOOPS M.D., B.C.  
 0 2 4 6 Metres  
 DATE: NOV. 1997 SCALE AS SHOWN  
 DRAWN BY: G.F.C. FIGURE: 9.1

**PLUG ASSAY PLAN - TRENCH 2**

Sample No	Width cm	Au g/g	Ag ppm	As ppm	Cu ppm	Description
016	85	<5	<0.2	30	29	fresh, dark grey-green volcanic, rusty fractures
016	30	<5	<0.2	8	30	shear zone, dark green fault gouge, chlorite, talc
017	100	<5	<0.2	4	54	green, chloritized, volcanic, soft, 25% C-Q veinlets (<1 cm), trace py
018	100	<5	<0.2	6	29	chloritized volcanic, schistose, 10% C-Q veinlets (<2 mm)
019	140	<5	<0.2	8	28	chloritized volcanic, schistose, 10% C-Q veinlets (<2 mm)
020	100	<5	<0.2	4	32	moderate C-Q-M alteration, rusty
021	100	<5	<0.2	8	26	bleached volcanic, minor C-Q-M alteration
022	100	<5	<0.2	10	20	moderate C-Q-M alteration
023	100	<5	<0.2	2	44	moderate C-Q-M alteration
024	120	<5	<0.2	8	29	moderate C-Q-M alteration, minor fine grained siliceous dyke
025	130	<5	<0.2	6	72	grey, rusty, fractured, siliceous dyke bounded by faults
026	100	<5	0.2	<2	34	weak C-Q-M alteration, siliceous dyke
027	140	<5	<0.2	2	41	moderate C-Q-M alteration
028	110	15	<0.2	8	77	grey, rusty, fractured, siliceous dyke
029	100	<5	<0.2	14	41	chloritized volcanic, weak C-Q-M alteration
030	100	<5	<0.2	6	37	chloritized volcanic, weak C-Q-M alteration
031	100	200	14.2	24	103	chloritized volcanic, weak C-Q-M alteration
032	100	370	26.2	36	176	chloritized volcanic, moderate C-Q-M alteration
033	100	310	27.6	28	144	strong C-Q-M alteration
034	100	240	17.8	30	127	strong C-Q-M alteration
035	140	1540	45.0	174	126	shear, grey-white gouge, 20% Q fragments
036	70	205	13.4	38	42	strong C-Q-M alteration
037	170	1140	68.8	156	139	shear, grey-white gouge, 20% Q fragments
038	80	720	24.6	46	79	strong C-Q-M alteration
039	150	2080	84.8	144	204	shear, grey-white gouge, 20% Q fragments
040	85	246	12.4	28	93	moderate C-Q-M alteration
041	85	20780	39.8	34	58	strong C-Q-M alteration
042	100	1005	36.8	124	137	shear, grey-white gouge, 20% Q fragments
043	80	205	11.6	28	86	strong C-Q-M alteration
044	55	235	14.6	30	53	strong C-Q-M alteration

046	100	1210	26.8	128	83	shear, grey-white gouge, 20% Q fragments, 1% py
046	100	565	19.4	80	82	strong C-Q-M alteration, trace mag
047	80	220	6.2	24	35	strong C-Q-M alteration
048	150	1880	78.8	130	188	shear, grey-white gouge, 20% Q fragments, reddish stain
049	180	1540	65.6	128	189	shear, grey-white gouge, 20% Q fragments, reddish stain, 1% py
050	200	3680	113	122	195	shear, grey-white gouge, 20% Q fragments, reddish stain
051	200	2720	37.6	108	113	shear, grey-white gouge, 20% Q fragments, 1-2% py
052	200	4560	38.6	142	95	shear, grey-white gouge, 20% Q fragments, 1-2% py
053	100	2220	34.0	40	73	strong C-Q-M alteration
054	120	275	16.2	34	61	strong C-Q-M alteration
055	100	6820	56.6	26	69	strong C-Q-M alteration, 1% py, trace mag
056	110	10480	79.0	30	101	strong C-Q-M alteration, 1% py
057	100	7500	49.4	26	88	strong C-Q-M alteration, 1% py
058	110	3400	31.0	20	58	strong C-Q-M alteration, 1% py
059	100	1600	13.2	40	72	strong C-Q-M alteration, 1% py
060	110	3680	30.0	22	64	strong C-Q-M alteration, 1% py
061	100	980	17.8	36	73	strong C-Q-M alteration, 2-5% py, mag
062	110	705	10.2	22	54	strong C-Q-M alteration, 1% py
063	100	310	7.6	22	41	strong C-Q-M alteration, 1% py
064	110	80	4.0	10	61	strong C-Q-M alteration, 1% py
065	100	590	24.6	34	66	strong C-Q-M alteration, 1% py
066	110	105	5.6	16	82	strong C-Q-M alteration, 1% py
067	100	840	16.2	36	40	strong C-Q-M alteration, 1% py
068	120	415	12.4	38	53	strong C-Q-M alteration, 1% py
069	100	35	0.6	6	33	strong C-Q-M alteration, 1% py, mag
070	100	385	8.6	30	65	strong C-Q-M alteration
071	140	270	3.2	18	52	strong C-Q-M alteration
072	100	170	5.6	22	50	strong C-Q-M alteration
073	100	50	1.4	12	47	strong C-Q-M alteration
074	100	60	2.8	16	44	strong C-Q-M alteration

C carbonate  
 Q quartz  
 M mariposite  
 chl chlorite  
 nu mica  
 py pyrite  
 mag magnetite  
 ga galena  
 lim limonite  
 chm cerussite  
 mn malachite

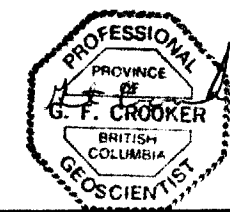


SECTION

- OB Overburden
- V Volcanics
- C Carbonate
- Q Quartz
- M Mariposite
- D Dyke

- L E G E N D**
- Trench or road
  - Survey point
  - Sample No. & width
  - Drill hole & No.
  - Geological contact
  - Outcrop
  - Shear & attitude
  - Quartz vein, attitude

- py Pyrite
- cpy Chalcopyrite
- mag Magnetite
- ga Galena
- mal Malachite
- lim Limonite
- sp Sphalerite
- chl Chlorite



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**GOLDCLIFF RESOURCE CORPORATION**

**PLUG PROJECT, S CLAIMS**  
**TRENCH 02**  
**SAMPLE LOCATIONS & GEOLOGY**

N.T.S. 92I-7E      KAMLOOPS M.D., B.C.

0      2      4      6 Metres

DATE: NOV. 1997	SCALE AS SHOWN	FIGURE: 9.2
DRAWN BY: G.F.C.		

### 5.1.2.3 ANALYTICAL RESULTS - TR02

TR02 yielded the most strongly anomalous gold values of the trenching program. The shear zone yielded moderately anomalous gold values for 10 metres of strike length varying from 1.005 grams/tonne (TR02-042) across 100 centimetres to 4.560 grams/tonne (TR02-052) across 200 centimetres. Silver values were also moderately anomalous, varying from 36.8 grams/tonne (TR02-0420) across 100 centimetres to 113 grams/tonne (TR02-050) across 200 centimetres. Arsenic (108 to 174 ppm), copper (95 to 204 ppm) and antimony (2 to 10 ppm) were moderately anomalous, and lead weakly anomalous (10 to 22 ppm).

The C-Q-M alteration in the vicinity of the auriferous shear zone gave moderate to strong gold values, while the remainder of the C-Q-M alteration gave gold values less than five ppb. The C-Q-M alteration near the shear zone gave gold values varying from 0.20 grams/tonne (TR02-031) across 100 centimetres to 20.78 grams/tonne (TR02-041) across 65 centimetres. Silver values were also moderately anomalous, varying from 6.2 grams/tonne (TR02-047) across 50 centimetres to 84.8 grams/tonne (TR02-039) across 150 centimetres. Arsenic (22 to 40 ppm), copper (90 to 160 ppm), antimony (4 to 10 ppm) and lead (10 to 22 ppm) were weakly anomalous.

### 5.1.3 TRENCH - TR04 (FIGURE 9.4)

#### 5.1.3.1 TRENCH STATUS - TR04

TARGET:	Plug Showing
GRID LOCATION:	9410 North, 18100 East
ELEVATION:	1230 Metres
LENGTH:	10 Metres

#### 5.1.3.2 GEOLOGY SUMMARY - TR04

Trench 04 (hand trench) exposed approximately eight metres of strong C-Q-M alteration, with two narrow dykes cutting the altered zone at the west end of the trench. Weak concentrations of magnetite were noted in the trench.

#### 5.1.3.3 ANALYTICAL RESULTS - TR04

All of the samples yielded gold values less than 5 ppb. Several samples were weakly anomalous in silver (0.6 to 1.0 ppm), arsenic (10 to 30 ppm) and antimony (4 to 6 ppm).

## 5.2 MEADOW SHOWING

### 5.2.1 TRENCH - TR03 (FIGURE 9.3)

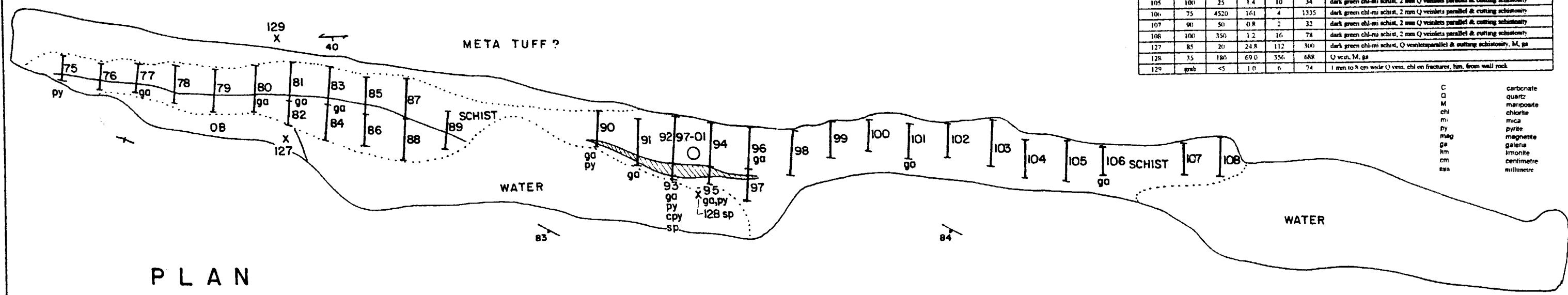
#### 5.2.1.1 TRENCH STATUS - TR03

TARGET:	Meadow Showing
GRID LOCATION:	8730 North, 19800 East
ELEVATION:	1225 Metres
LENGTH:	40 Metres



PLUG - ASSAY PLAN - TRENCH 3						
Sample No	Width cm	Au g/t	Ag g/t	As g/t	Pb g/t	Description
075	60	105	7.4	22	106	dark green chi-m schist, trace py
076	65	110	9.8	34	130	dark green chi-m schist, 2 cm qtz veinlet, M
077	75	130	4.0	4	34	dark green chi-m schist, 5-8 cm Q veinlet, trace ga
078	95	55	3.6	12	146	dark green chi-m schist, 1 cm Q veinlet, parallel to schistosity
079	100	95	29.8	116	448	dark green chi-m schist
080	120	50	9.0	68	188	dark green chi-m schist, 2 cm Q veinlet, trace ga
081	100	25	26.8	212	194	dark green chi-m schist, 2-4 cm Q veinlet, M, trace ga
082	60	55	62.2	194	650	dark green chi-m schist, 5 cm Q veinlet, M, 1/2% ga
083	100	55	26.0	92	262	dark green chi-m schist, 5-8 cm Q veinlet, M, 1/2% ga
084	85	35	16.6	84	350	dark green chi-m schist
085	100	115	19.6	86	270	dark green chi-m schist, 2-6 cm Q veinlet, M, 1/2% ga
086	75	15	15.2	112	304	dark green chi-m schist, M
087	100	85	36.6	128	292	dark green chi-m schist, 5 mm Q veinlets over 5 cm, M
088	110	120	54.0	94	596	dark green chi-m schist, rusty
089	140	75	30.4	80	206	dark green chi-m schist, rusty
090	100	240	175	184	1080	dark green chi-m schist, 50% Q vein, M, 1/2% ga
091	140	270	100	270	1025	dark green chi-m schist, 50% Q vein, M, 1% ga
092	130	40	13.4	314	202	dark green chi-m schist, 50% Q vein, M, 1/2% ga, py
093	33	6140	1715	380	16300	dark green chi-m schist, 90% Q vein, M, 2% ga, 1% cpy, py
094	135	115	12.0	388	152	dark green chi-m schist, 20% Q vein, M, trace ga
095	36	4420	412	236	6560	dark green chi-m schist, 90% Q vein, M, 1% ga, py
096	110	30	6.4	160	100	dark green chi-m schist, 2 mm Q veinlets, M, trace ga
097	80	65	13.2	156	240	dark green chi-m schist, 2-3 cm Q veinlet, M
098	150	30	8.0	92	138	dark green chi-m schist, M
099	100	10	2.8	26	84	dark green chi-m schist, 5% Q vein
100	85	50	0.8	12	16	dark green chi-m schist, 2 mm Q veinlets parallel & cutting schistosity
101	90	145	0.8	8	20	dark green chi-m schist, 2 mm Q veinlets parallel & cutting schistosity, ga
102	75	70	0.8	16	16	dark green chi-m schist, 2 mm Q veinlets parallel & cutting schistosity
103	95	150	8.6	12	298	dark green chi-m schist, 2 mm Q veinlets parallel & cutting schistosity
104	90	15	0.8	<2	44	dark green chi-m schist, 2 mm Q veinlets parallel & cutting schistosity
105	100	25	1.4	10	34	dark green chi-m schist, 2 mm Q veinlets parallel & cutting schistosity
106	75	4520	161	4	1335	dark green chi-m schist, 2 mm Q veinlets parallel & cutting schistosity
107	90	50	0.8	2	32	dark green chi-m schist, 2 mm Q veinlets parallel & cutting schistosity
108	100	350	1.2	16	78	dark green chi-m schist, 2 mm Q veinlets parallel & cutting schistosity
127	85	20	24.8	112	300	dark green chi-m schist, Q veinlets parallel & cutting schistosity, M, ga
128	35	180	69.0	356	688	Q vein, M, ga
129	grab	<5	1.0	6	74	1 mm to 8 cm wide Q vein, chi on fractures, lim, from wall rock

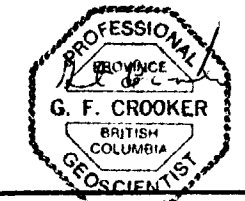
C carbonate  
 Q quartz  
 M mariposite  
 chi chlorite  
 mi mica  
 py pyrite  
 mag magnetite  
 ga galena  
 lim limonite  
 cm centimetre  
 mm millimetre



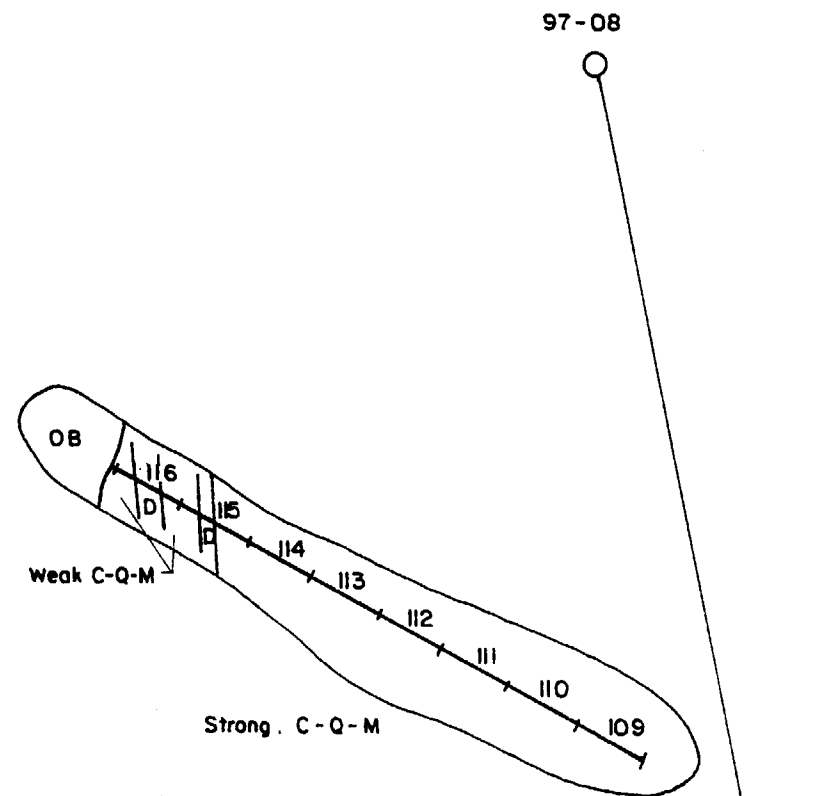
PLAN

LEGEND

- |    |            |  |                       |     |              |
|----|------------|--|-----------------------|-----|--------------|
| OB | Overburden |  | Trench or road        | py  | Pyrite       |
| V  | Volcanics  |  | Survey point          | cpy | Chalcopyrite |
| C  | Carbonate  |  | Sample No. & width    | mag | Magnetite    |
| Q  | Quartz     |  | Drill hole & No.      | ga  | Galena       |
| M  | Mariposite |  | Geological contact    | mal | Malachite    |
|    |            |  | Outcrop               | lim | Limonite     |
|    |            |  | Shear & attitude      | sp  | Sphalerite   |
|    |            |  | Quartz vein, attitude |     |              |



GEOTEC CONSULTANTS LTD.  
 GOLDCLIFF RESOURCE CORPORATION  
 PLUG PROJECT, S CLAIMS  
 TRENCH 03  
 SAMPLE LOCATIONS & GEOLOGY  
 N.T.S. 92 I - 7 E KAMLOOPS M.D., B.C.  
 0 2 4 6 Metres  
 DATE: NOV. 1997 SCALE AS SHOWN  
 DRAWN BY: G.F.C. FIGURE: 9.3



PLAN

PLUG ASSAY PLAN - TRENCH 4						
Sample No	Width cm	Au ppb	Ag ppm	As ppm	Cu ppm	Description
109	100	<5	<0.2	26	23	strong C-Q-M alteration, 1-2% mag
110	100	<5	0.6	24	28	strong C-Q-M alteration
111	100	<5	0.2	28	24	strong C-Q-M alteration
112	100	<5	<0.2	30	20	strong C-Q-M alteration
113	100	<5	<0.2	20	62	strong C-Q-M alteration
114	100	<5	<0.2	12	16	strong C-Q-M alteration, low M, 1% mag
115	100	<5	<0.2	12	22	strong C-Q-M alteration
116	100	<5	0.2	10	27	strong C-Q-M alteration, 40% dark grey dyke, strongly magnetic

C	carbonate
Q	quartz
M	mariposite
chl	chlorite
mu	mica
py	pyrite
mag	magnetite
ga	galena
lim	limonite
cm	centimetre
mm	millimetre

- OB Overburden
- V Volcanics
- C Carbonate
- Q Quartz
- M Mariposite
- D Dyke

L E G E N D

- Trench or road
- Survey point
- Sample No. & width
- Drill hole & No.
- Geological contact
- Outcrop
- Shear & attitude
- Quartz vein, attitude

- py Pyrite
- cpy Chalcopyrite
- mag Magnetite
- ga Galena
- mal Malachite
- lim Limonite
- sp Sphalerite



GEOTEC CONSULTANTS LTD.  
 GOLDCLIFF RESOURCE CORPORATION  
 PLUG PROJECT, S CLAIMS  
 TRENCH 04  
 SAMPLE LOCATIONS & GEOLOGY  
 N.T.S. 921-7E KAMLOOPS M.D., B.C.

0 2 4 6 Metres

DATE: NOV. 1997	SCALE AS SHOWN	FIGURE: 9.4
DRAWN BY: G.F.C.		

### 5.2.1.2 GEOLOGY SUMMARY - TR03

Trench 03 exposed a 30-metre strike length of chlorite-mica-mariposite schist up to two metres wide containing quartz veinlets. Throughout most of the chlorite-mica schist the quartz veinlets vary from two millimetres to two centimetres in width and parallel the schistosity. However in the central portion of the trench (samples TR03-090 to 096) the quartz vein widens to 35 centimetres in width. Traces of pyrite and galena occur with the quartz veinlets in many samples. Galena concentrations range up to 2% in the widest portions of the quartz vein, along with lesser concentrations of sphalerite and chalcopyrite.

### 5.2.1.3 ANALYTICAL RESULTS - TR03

Gold (50 to 350 ppb) and silver (3.0 to 69.0 ppm) values were weakly anomalous in most samples across widths varying from 60 to 150 centimetres. Arsenic (22 to 338 ppm) was weakly to strongly anomalous and lead (100 to 600 ppm) and zinc (100 to 1100 ppm) were weakly anomalous in most samples.

Gold (4.420 to 6.140 grams/tonne) was moderately anomalous and silver (161 to 1715 grams/tonne) moderately to strongly anomalous in three samples of quartz vein material (TR03-093, 095 and 106), across 35 centimetres) containing up to 2% galena, 2% sphalerite and 1% chalcopyrite. Arsenic (236 to 380 ppm) and antimony (212 to 1890) were moderately anomalous.

## 5.2.2 TRENCH - TR05 (FIGURE 9.5)

### 5.2.2.1 TRENCH STATUS - TR05

TARGET:	Meadow Zone
GRID LOCATION:	8800 North, 19950 East
ELEVATION:	125 metres
LENGTH:	7 Metres

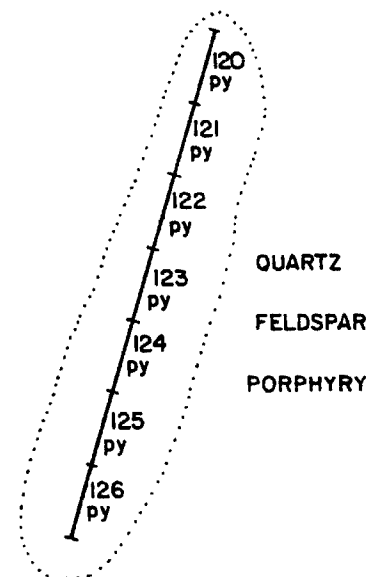
### 5.2.2.2 GEOLOGY SUMMARY - TR05

Trench 05 (hand trench) exposed seven metres of feldspar porphyry containing 1 to 2 millimetre wide quartz veinlets and 1 to 2% pyrite.

### 5.2.2.3 ANALYTICAL RESULTS - TR05

Sampling of the feldspar porphyry yielded weakly anomalous gold (10 to 30 ppb) and silver (0.2 to 2.0 ppm) values across one metre widths. No other elements were anomalous.

PLAN



PLUG ASSAY PLAN - TRENCH 5							Description
Sample No	Width cm	Au gpb	Ag gpb	As ppm	Cu ppm		
120	100	<5	1.0	4	9	feldspar porphyry, 1-2 mm Q veinlets, 1-2% disseminated py	
121	100	10	1.6	4	9	feldspar porphyry, 1-2 mm Q veinlets, 1-2% disseminated py	
122	100	30	2.0	<2	30	feldspar porphyry, 1-2 mm Q veinlets, 2-4% disseminated py	
123	100	20	1.6	2	13	feldspar porphyry, 1-2 mm Q veinlets, 1-2% disseminated py	
124	100	10	0.6	2	23	feldspar porphyry, 1-2 mm Q veinlets, 1-2% disseminated py	
125	100	10	0.2	<2	16	feldspar porphyry, 1-2 mm Q veinlets, 2-4% disseminated py	
126	100	15	0.6	4	12	feldspar porphyry, Q eyes, 1-2 mm Q veinlets, 1-2% disseminated py	

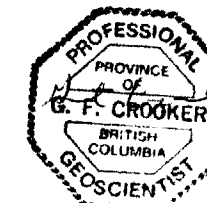
- C carbonate
- Q quartz
- M mariposite
- chl chlorite
- mi mica
- py pyrite
- mag magnetite
- ga galena
- lim limonite
- cm centimetre
- mm millimetre

- OB Overburden
- V Volcanics
- C Carbonate
- Q Quartz
- M Mariposite

L E G E N D

- Trench or road
- Survey point
- Sample N° & width
- Drill hole & N°
- Geological contact
- Outcrop
- Shear & attitude
- Quartz vein, attitude

- py Pyrite
- cpy Chalcopyrite
- mag Magnetite
- ga Galena
- mal Malachite
- lim Limonite
- sp Sphalerite



**GEOTEC CONSULTANTS LTD.**  
**GOLDCLIFF RESOURCE CORPORATION**  
**PLUG PROJECT, S CLAIMS**  
**TRENCH 05**  
**SAMPLE LOCATIONS & GEOLOGY**  
 N.T.S. 92I-7E KAMLOOPS M.D., B.C.  
 0 2 4 6 Metres  
 DATE: NOV. 1997 SCALE AS SHOWN  
 DRAWN BY: G.F.C. FIGURE: 9.5

## 6.0 DRILLING

The drilling results are documented in summary format with certificates of analysis and detailed drill logs listed in Appendix I and III respectively. The drill hole locations are shown on Figures 7.0 and 8.0.

### 6.1 PLUG SHOWING

#### 6.1.1 DRILL HOLE - PL02

##### 6.1.1.1 DRILL HOLE STATUS - PL02

TARGET:	Plug Showing
PERIOD:	Started November 18, completed November 18, 1997
LENGTH:	76.20 Metres (250 feet)
AZIMUTH:	N/A
INCLINATION:	-90°
GRID LOCATION:	9355 North, 18132 East
ELEVATION:	1225 Metres

##### 6.1.1.2 SUMMARY LOG - PL02

METRES (FEET)	GEOLOGY
0 (0) - 3.05 (10)	Overburden and rock rubble
3.05 (10) - 7.62 (25)	C-Q-M, quartz, carbonate rich, some ultramafic, limonite
7.62 (25) - 13.72 (45)	C-Q-M, mariposite, quartz, carbonate, minor ultramafic, hematite, limonite, minor pyrite
13.72 (45) - 15.24 (50)	C-Q-M, quartz, carbonate rich, some ultramafic, limonite, minor pyrite
15.24 (50) - 18.29 (60)	C-Q-M, some ultramafic, minor hematite, limonite
18.29 (60) - 19.81 (65)	C-Q-M, mariposite, some quartz, carbonate, some ultramafic, minor hematite, limonite
19.81 (65) - 25.91 (85)	Ultramafic, minor C-Q-M, quartz, carbonate rich, some mariposite, minor hematite, some pyrite
25.91 (85) - 28.96 (95)	C-Q-M, quartz, ultramafic intervals, some pyrite
28.96 (95) - 33.53 (110)	Ultramafic, some C-Q-M, trace pyrite
33.53 (110) - 41.15 (135)	C-Q-M, quartz, carbonate, some mariposite rich sections, some ultramafic, trace pyrite
41.15 (135) - 42.67 (140)	Ultramafic, some C-Q-M
42.67 (140) - 45.72 (150)	C-Q-M, quartz rich, some mariposite, ultramafic, rose coloured quartz, (hematite)
45.72 (150) - 47.24 (155)	Ultramafic, C-Q-M, rose coloured quartz (hematite), trace pyrite
47.24 (155) - 48.77 (160)	C-Q-M, minor mariposite and ultramafic
48.77 (160) - 62.48 (205)	Ultramafic, some to minor C-Q-M, quartz, carbonate rich, hematite
62.48 (205) - 76.20 (250)	Ultramafic, minor to no C-Q-M, hematite locally intense
76.20 (250)	End of hole

## 6.1.1.3 ANALYTICAL RESULTS - PL02

DRILL HOLE PL02 - ANOMALOUS SAMPLE RESULTS									
ANOMALOUS ZONE (Feet)		GEOLOGY	MINERALIZATION INDICATOR VALUES			PATHFINDER ELEMENTS			
Interval	Width		Au ppb	Ag ppm	Cu ppm	As ppm	Sb ppm	Pb ppm	Zn ppm
10 - 15	5	C-Q-M, some ultramafic, limonite	830	5.0	180	110	12	4	14
15 - 20	5	C-Q-M, some ultramafic, limonite	795	8.0	158	82	8	4	14
20 - 25	5	C-Q-M, some ultramafic, limonite	700	9.8	112	58	12	8	16
25 - 30	5	C-Q-M, minor ultramafic, hematite, limonite, minor pyrite	80	4.8	90	12	6	6	38
30 - 35	5	C-Q-M, minor ultramafic, hematite, limonite, minor pyrite	2810	40.2	132	26	2	30	28
35 - 40	5	C-Q-M, minor ultramafic, hematite, limonite, minor pyrite	2850	35.2	72	6	8	18	24
40 - 45	5	C-Q-M, minor ultramafic, hematite, limonite, minor pyrite	55	5.8	43	16	<2	8	26
45 - 50	5	C-Q-M, some ultramafic, limonite, minor pyrite	35	1.4	43	2	2	<2	30
100 - 105	5	Ultramafic, some C-Q-M, trace pyrite	<5	2.0	64	<2	<2	<2	16
120 - 125	5	C-Q-M, strong mariposite, some ultramafic, trace pyrite	<5	1.2	36	6	<2	<2	20
220 - 230	10	Ultramafic, minor C-Q-M, hematite locally intense	<5	3.2	50	2	<2	2	34

## 6.1.1.4 COMMENTS - PL02

PL02 was drilled adjacent to trench 02 to test the strongly anomalous gold-and silver values from surface sampling at trench 02. The drill hole intersected significant amounts of carbonate-quartz-mariposite-(C-Q-M) alteration throughout the drill hole, along with unaltered ultramafic rocks. Minor limonite, hematite and pyrite were noted in many intervals.

The section from 10 to 40 feet gave significant gold values ranging from 0.700 to 2.850 grams/tonne, including 2.800 grams per/tonne from 30 to 40 feet. Silver values were also significant from 10 to 40 feet, ranging from 4.8 to 40.2 grams/tonne, including 37.5 grams/tonne from 30 to 40 feet. Copper (112 to 180 ppm), arsenic (10 to 110 ppm) and antimony (6 to 12 ppm) were also weakly anomalous in the section from 10 to 40 feet. This section consists mainly of C-Q-M alteration.

## 6.1.2 DRILL HOLE - PL03

## 6.1.2.1 DRILL HOLE STATUS - PL03

TARGET: Plug Showing  
 PERIOD: Started November 18, completed November 18, 1997  
 LENGTH: 76.20 Metres (250 feet)  
 AZIMUTH: 360°  
 INCLINATION: -60  
 GRID LOCATION: 9341 North, 18132 East  
 ELEVATION: 1225 Metres

### 6.1.2.2 SUMMARY LOG - PL03

METRES (FEET)	GEOLOGY
0 (0) - 6.10 (20)	Overburden and rock rubble
6.10 (20) - 13.72 (45)	Ultramafic, C-Q-M, some carbonate, quartz, minor mariposite, hematite, limonite, minor magnetite, pyrite
13.72 (45) - 22.86 (75)	C-Q-M, quartz, carbonate rich, some ultramafic, hematite, limonite, minor magnetite, pyrite
22.86 (75) - 28.96 (95)	Ultramafic, C-Q-M, hematite, minor magnetite, pyrite
28.96 (95) - 36.58 (120)	C-Q-M, some ultramafic, minor hematite, limonite
36.58 (120) - 57.91 (190)	Ultramafic, minor to rare C-Q-M, hematite, limonite, epidote
57.91 (190) - 64.01 (210)	Ultramafic, some C-Q-M, quartz rich, hematite, minor epidote, limonite, trace pyrite
64.01 (210) - 76.20 (250)	C-Q-M, quartz, carbonate rich, minor mariposite, ultramafic, rose coloured C-Q-M, hematite, limonite
76.20 (250)	End of hole (stopped due to air returning up drill hole PL02)

### 6.1.2.3 ANALYTICAL RESULTS - PL03

DRILL HOLE PL03 - ANOMALOUS SAMPLE RESULTS									
ANOMALOUS ZONE (Feet)		GEOLOGY	MINERALIZATION INDICATOR VALUES			PATHFINDER ELEMENTS			
Interval	Width		Au ppb	Ag ppm	Cu ppm	As ppm	Sb ppm	Pb ppm	Zn ppm
55 - 60	5	C-Q-M, some ultramafic, hematite, limonite, minor magnetite, pyrite	825	11.0	97	4	<2	8	28
60 - 65	5	C-Q-M, some ultramafic, hematite, limonite, minor magnetite, pyrite	50	0.2	41	12	<2	4	30
65 - 70	5	C-Q-M, some ultramafic, hematite, limonite, minor magnetite, pyrite	20	0.4	44	2	4	<2	30

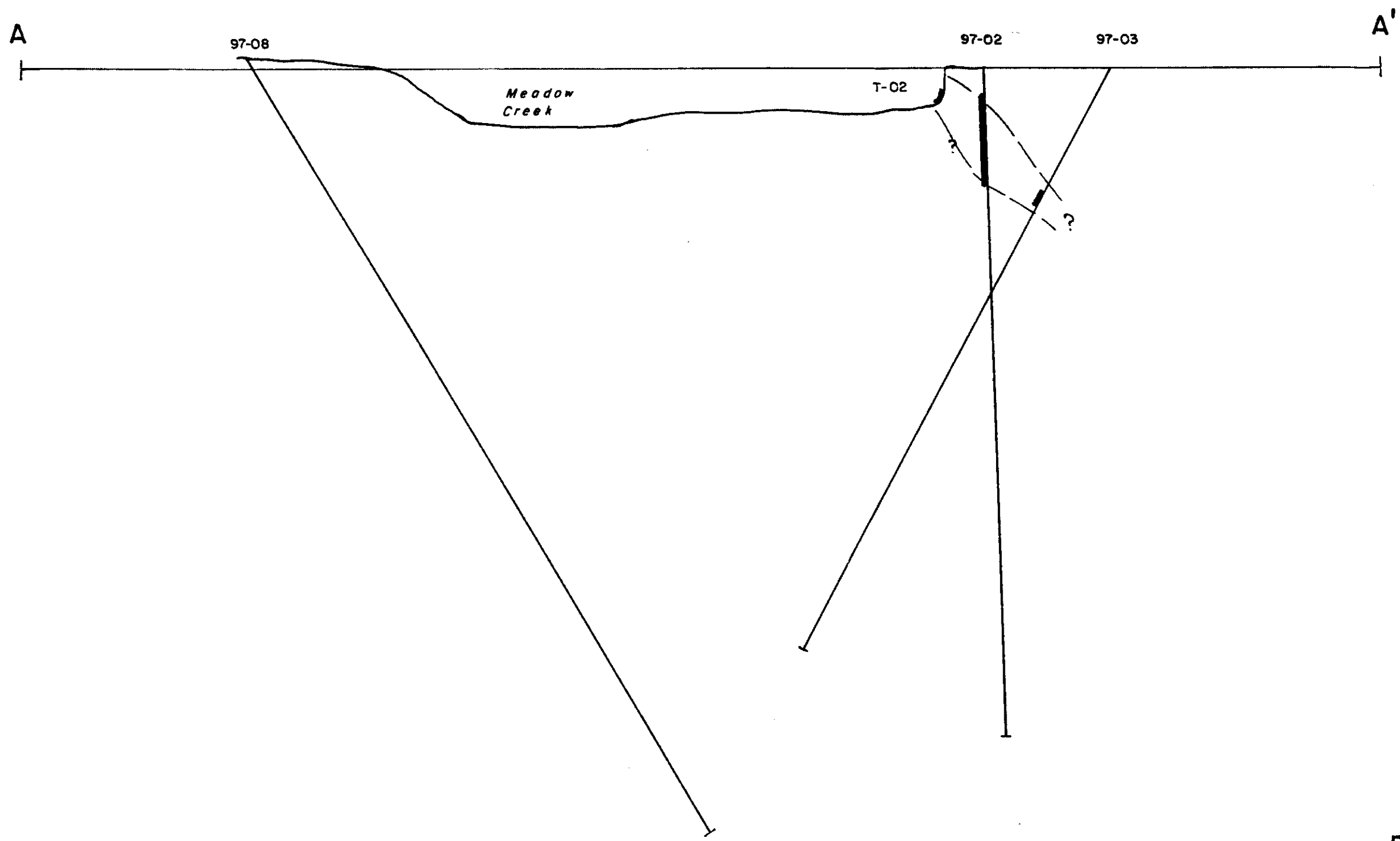
### 6.1.2.4 COMMENTS - PL03

PL03 was an angle drill hole drilled to test the strongly anomalous gold and silver values from trench 02. The drill hole intersected C-Q-M alteration with minor magnetite and pyrite and ultramafic rocks. The section from 55 to 60 feet gave weakly anomalous gold and silver values of 0.825 and 11.0 grams/tonne respectively, while the two, five foot intervals from 60 to 70 feet yielded very weakly anomalous gold values of 50 and 20 ppb. This section consists of C-Q-M alteration with minor magnetite and pyrite. Section A-A' through drill holes PL08, PL02, PL03 and trench 02 (Figure 10.0) indicate the gold and silver mineralization is striking east-west and dipping about 45° south.



### 6.1.3 DRILL HOLE - PL04

#### 6.1.3.1 DRILL HOLE STATUS - PL04

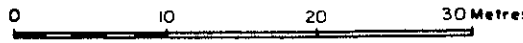
TARGET: Plug Showing  
 PERIOD: Started November 18, completed November 18, 1997  
 LENGTH: 60.96 Metres (200 feet)  
 AZIMUTH: N/A  
 INCLINATION: -90°  
 GRID LOCATION: 9354 North, 18137 East  
 ELEVATION: 1225 Metres



**LEGEND**

-  Drill hole
-  Mineralized Intercept gold



GEOTEC CONSULTANTS LTD.	
GOLDCLIFF RESOURCE CORPORATION	
<b>PLUG PROJECT, S CLAIMS</b> <b>SECTION A-A'</b> <b>MINERALIZED INTERCEPTS</b>	
NTS. 921-7E	KAMLOOPS M.D., B.C.
	
DATE: NOV. 1997	SCALE AS SHOWN
DRAWN BY: G.F.C.	FIGURE: 10.0



**6.1.3.2 SUMMARY LOG - PL04**

METRES (FEET)	GEOLOGY
0 (0) - 4.57 (15)	Overburden and rock rubble
4.57 (15) - 6.10 (20)	Ultramafic, C-Q-M, quartz, carbonate rich, limonite, trace pyrite
6.10 (20) - 9.14 (30)	C-Q-M, quartz, carbonate, minor ultramafic, limonite, trace pyrite
9.14 (30) - 15.24 (50)	Ultramafic, C-Q-M, quartz, (rose coloured, hematite, limonite), carbonate rich, trace pyrite
15.24 (50) - 22.86 (75)	C-Q-M, rose coloured quartz, hematite, limonite, mariposite, carbonate, minor to rare ultramafic, trace pyrite
22.86 (75) - 30.48 (100)	Ultramafic, minor C-Q-M, hematite, limonite
30.48 (100) - 35.05 (115)	Ultramafic, hematite
35.05 (115) - 48.77 (160)	Ultramafic, hematite, epidote, limonite, minor C-Q-M,
48.77 (160) - 54.86 (180)	Ultramafic, hematite, epidote
54.86 (180) - 60.96 (200)	Ultramafic, rare C-Q-M, hematite, epidote, limonite?
60.96 (200)	End of hole

**6.1.3.3 ANALYTICAL RESULTS - PL04**

DRILL HOLE PL04 - ANOMALOUS SAMPLE RESULTS									
ANOMALOUS ZONE (Feet)		GEOLOGY	MINERALIZATION INDICATOR VALUES			PATHFINDER ELEMENTS			
Interval	Width		Au ppb	Ag ppm	Cu ppm	As ppm	Sb ppm	Pb ppm	Zn ppm
35 - 40	5	Ultramafic, C-Q-M, hematite, limonite, trace pyrite	<5	<0.2	50	22	2	<2	54
40 - 45	5	Ultramafic, C-Q-M, hematite, limonite, trace pyrite	5	<0.2	80	8	<2	<2	28
45 - 50	5	Ultramafic, C-Q-M, hematite, limonite, trace pyrite	200	1.0	57	16	<2	<2	32

**6.1.3.4 COMMENTS - PL04**

PL04 was drilled adjacent to trench 02 to test the strongly anomalous gold and silver values from surface sampling. The drill hole intersected mainly ultramafic rocks with lesser amounts of C-Q-M alteration and minor hematite, limonite and pyrite.

The section from 45 to 50 feet gave weakly anomalous gold and silver values of 200 ppb and 1.0 ppm respectively. Arsenic was weakly anomalous (8 to 22 ppm) in the section from 35 to 50 feet.

**6.1.4 DRILL HOLE - PL05****6.1.4.1 DRILL HOLE STATUS - PL05**

TARGET: Plug Showing  
 PERIOD: Started November 19, completed November 19, 1997  
 LENGTH: 100.59 Metres (330 feet)  
 AZIMUTH: 360°  
 INCLINATION: -60°  
 GRID LOCATION: 9327 North, 18098 East  
 ELEVATION: 1227 Metres

### 6.1.4.2 SUMMARY LOG - PL05

METRES (FEET)	GEOLOGY
0 (0) - 4.57 (15)	Overburden and rock rubble
4.57 (15) - 15.24 (50)	Ultramafic, minor C-Q-M, hematite, limonite
15.24 (50) - 18.29 (60)	C-Q-M, quartz rich, minor ultramafic, hematite, limonite, pyrite
18.29 (60) - 28.96 (95)	Ultramafic, hematite, C-Q-M, limonite, trace pyrite
28.96 (95) - 32.00 (105)	C-Q-M, some ultramafic, abundant hematite
32.00 (105) - 44.20 (145)	Ultramafic, epidote, some C-Q-M, hematite, rare pyrite
44.20 (145) - 45.72 (150)	C-Q-M, some ultramafic, hematite, minor epidote, limonite
45.72 (150) - 71.63 (235)	Ultramafic, minor C-Q-M, hematite, minor epidote, pyrite
71.63 (235) - 74.68 (245)	C-Q-M, some ultramafic, hematite
74.68 (245) - 76.20 (250)	C-Q-M, quartz, carbonate rich, hematite, trace pyrite
76.20 (250) - 85.35 (280)	C-Q-M, carbonate, mariposite rich, rare ultramafic, hematite locally intense, some pyrite
85.35 (280) - 91.44 (300)	C-Q-M, carbonate rich, minor hematite, rare pyrite
91.44 (300) - 92.97 (305)	C-Q-M, ultramafic, some hematite staining
92.97 (305) - 94.49 (310)	Ultramafic, some C-Q-M, carbonate rich, minor hematite
94.49 (310) - 100.59 (330)	C-Q-M, carbonate rich, some quartz, mariposite, some hematite
100.59 (330)	End of hole

### 6.1.4.3 ANALYTICAL RESULTS - PL05

DRILL HOLE PL05 - ANOMALOUS SAMPLE RESULTS									
ANOMALOUS ZONE (Feet)		GEOLOGY	MINERALIZATION INDICATOR VALUES			PATHFINDER ELEMENTS			
Interval	Width		Au ppb	Ag ppm	Cu ppm	As ppm	Sb ppm	Pb ppm	Zn ppm
310-320	10	C-Q-M, some hematite	<5	<0.2	68	14	10	<2	26
330-340	10	C-Q-M, some hematite	<5	<0.2	56	16	8	<2	26

### 6.1.4.4 COMMENTS - PL05

PL05 was a step out a drill hole drilled 35 metres west of trench 02 to test for extensions of the gold and silver mineralization. The drill hole intersected a mix of unaltered ultramafic rocks and C-Q-M alteration with minor hematite and pyrite.

None of the samples from drill hole PL05 gave anomalous gold or silver values. However the section from 310 to 330 feet gave weakly anomalous arsenic (14 to 16 ppm) and antimony (6 to 10 ppm) values.

### 6.1.5 DRILL HOLE - PL06

#### 6.1.5.1 DRILL HOLE STATUS - PL06

TARGET: Plug Showing  
 PERIOD: Started November 19, completed November 19, 1997  
 LENGTH: 60.96 Metres (200 feet)  
 AZIMUTH: 042°  
 INCLINATION: -60°  
 GRID LOCATION: 9317 North, 18205 East  
 ELEVATION: 1225 Metres

**6.1.5.2 SUMMARY LOG - PL06**

METRES (FEET)	GEOLOGY
0 (0) - 6.10 (20)	Overburden and rock rubble
6.10 (20) - 7.62 (25)	Rock rubble, mostly C-Q-M, hematite, limonite, minor pyrite
7.62 (25) - 15.24 (50)	C-Q-M, minor ultramafic, hematite, minor limonite, pyrite
15.24 (50) - 19.81 (65)	C-Q-M, rich mariposite, hematite, limonite, pyrite, rare ultramafic
19.81 (65) - 22.86 (75)	C-Q-M, quartz rich, hematite, limonite, trace pyrite, rare ultramafic
22.86 (75) - 27.43 (90)	C-Q-M, carbonate rich, ultramafic, hematite, minor limonite, pyrite
27.43 (90) - 32.00 (105)	C-Q-M, mariposite, quartz rich, minor ultramafic, chlorite? hematite
32.00 (105) - 38.10 (125)	Ultramafic, green-blue, silicified? some C-Q-M, quartz rich, rare mariposite, some hematite, limonite
38.10 (125) - 60.96 (200)	Ultramafic, minor C-Q-M, quartz rich, local mariposite, minor hematite, epidote, silicified sections?
60.96 (200)	End of hole

**6.1.5.3 ANALYTICAL RESULTS - PL06**

None of the intervals gave anomalous values for gold, silver or pathfinder elements.

**6.1.5.4 COMMENTS - PL06**

PL06 was drilled to test the C-Q-M alteration under trench 01. The section from surface to a depth of 32 metres intersected mainly C-Q-M alteration with minor ultramafic rocks, while the section from 32 metres to the end of the hole intersected mainly ultramafic rocks with minor C-Q-M alteration.

None of the intervals in drill hole PL06 gave anomalous values for gold, silver or pathfinder elements.

**6.1.6 DRILL HOLE - PL07****6.1.6.1 DRILL HOLE STATUS - PL07**

TARGET: Plug Showing  
 PERIOD: Started November 19, completed November 19, 1997  
 LENGTH: 21.34 Metres (70 feet)  
 AZIMUTH: 360°  
 INCLINATION: -55°  
 GRID LOCATION: 9240 North, 18300 East  
 ELEVATION: 1225 Metres

**6.1.6.2 SUMMARY LOG - PL07**

METRES (FEET)	GEOLOGY
0 (0) - 13.72 (45)	Overburden and rock rubble
13.72 (45) - 15.24 (50)	Rock rubble, predominately ultramafic
15.24 (50) - 18.29 (60)	Rock rubble of C-Q-M, ultramafic, some limonite, minor hematite
18.29 (60) - 21.34 (70)	Rock rubble of ultramafic, hematite, epidote, C-Q-M, limonite
21.34 (70)	End of hole (stopped due to gravel plugging drill bit)

### 6.1.6.3 ANALYTICAL RESULTS - PL07

None of the samples gave anomalous values for gold, silver or pathfinder elements.

### 6.1.6.4 COMMENTS - PL07

PL07 was drilled to test a magnetic high and VLF-EM conductor. The drill hole was unable to penetrate thick overburden and was abandoned at 21.34 metres. None of the overburden samples gave anomalous values for gold, silver or pathfinder elements.

### 6.1.7 DRILL HOLE - PL08

#### 6.1.7.1 DRILL HOLE STATUS - PL08

TARGET:	Plug Showing
PERIOD:	Started November 20, completed November 20, 1997
LENGTH:	100.59 Metres (330 feet)
AZIMUTH:	170°
INCLINATION:	-60°
GRID LOCATION:	9423 North, 18100 East
ELEVATION:	1231 Metres

#### 6.1.7.2 SUMMARY LOG - PL08

METRES (FEET)	GEOLOGY
0 (0) - 4.57 (15)	Overburden and rock rubble
4.57 (15) - 7.62 (25)	Rock rubble, ultramafic, epidote, minor C-Q-M, limonite
7.62 (25) - 15.24 (50)	C-Q-M, quartz, minor mariposite, limonite, hematite, minor pyrite
15.24 (50) - 16.76 (55)	Ultramafic, C-Q-M, minor limonite, pyrite
16.76 (55) - 21.34 (70)	C-Q-M, carbonate, quartz, minor limonite, pyrite to 0.2%
21.34 (70) - 22.86 (75)	Grey clay (fault?) with C-Q-M, minor ultramafic fragments
22.86 (75) - 27.43 (90)	Ultramafic, some C-Q-M, quartz, hematite, epidote, minor clay
27.43 (90) - 33.53 (110)	C-Q-M, carbonate, quartz, minor ultramafic, chlorite? minor hematite, limonite, pyrite
33.53 (110) - 39.62 (130)	Ultramafic, C-Q-M, carbonate, quartz, minor epidote, hematite
39.62 (130) - 48.77 (160)	C-Q-M, quartz, carbonate, ultramafic, chlorite, minor to intense hematite, limonite
48.77 (160) - 51.82 (170)	C-Q-M, quartz, carbonate, ultramafic, chlorite? hematite, rare pyrite
51.82 (170) - 53.34 (175)	C-Q-M, quartz, carbonate, minor hematite
53.34 (175) - 54.86 (180)	Ultramafic, C-Q-M, carbonate, quartz, chlorite? some hematite
54.86 (180) - 62.48 (205)	C-Q-M, quartz, carbonate, chlorite? minor to intense hematite
62.48 (205) - 68.58 (225)	Ultramafic, C-Q-M, carbonate, quartz, chlorite? minor to intense hematite, some limonite
68.58 (225) - 70.10 (230)	C-Q-M, minor ultramafic, minor hematite
70.10 (230) - 73.15 (240)	Ultramafic, minor C-Q-M, carbonate, quartz, minor chlorite? hematite, locally intense limonite
73.15 (240) - 76.20 (250)	Ultramafic, minor C-Q-M, carbonate, quartz, mariposite, chlorite? minor hematite, locally intense limonite

cont'd

76.20 (250) - 80.77 (265)	Ultramafic, C-Q-M, quartz, carbonate, minor mariposite, chlorite? minor hematite, some limonite
80.77 (265) - 86.87 (285)	Ultramafic, minor C-Q-M, carbonate, quartz, chlorite? hematite, some limonite
86.87 (285) - 99.06 (325)	C-Q-M, quartz, carbonate, minor ultramafic, chlorite? hematite locally intense, some limonite
99.06 (325) - 100.59 (330)	C-Q-M, ultramafic, chlorite? hematite, some limonite, minor epidote
100.59 (330)	End of hole

### 6.1.7.3 ANALYTICAL RESULTS - PL08

DRILL HOLE PL08 - ANOMALOUS SAMPLE RESULTS									
ANOMALOUS ZONE (Feet)		GEOLOGY	MINERALIZATION INDICATOR VALUES			PATHFINDER ELEMENTS			
Interval	Width		Au ppb	Ag ppm	Cu ppm	As ppm	Sb ppm	Pb ppm	Zn ppm
110 - 120	10	Ultramafic, C-Q-M, minor hematite, epidote	40	<0.2	7	<2	<2	<2	8

### 6.1.7.4 COMMENTS - PL08

PL08 was drilled to test the C-Q-M alteration under trench 04. The drill hole intersected a mix of ultramafic rocks and C-Q-M alteration with light green alteration believed to be chlorite. Minor to intense hematite and limonite, with rare pyrite were also noted. Grey clay with C-Q-M and minor ultramafic fragments was noted in the section from 22.86 to 27.43 metres. The clay may represent a fault zone.

Only one sample (110 to 120 feet) gave a weakly anomalous gold value of 40 ppb, and no other elements were anomalous.

## 6.2 MEADOW SHOWING

### 6.2.1 DRILL HOLE - PL01

#### 6.2.1.1 DRILL HOLE STATUS - PL01

TARGET: Meadow Showing  
 PERIOD: Started November 17, completed November 17, 1997  
 LENGTH: 48.77 Metres (160 feet)  
 AZIMUTH: N/A  
 INCLINATION: -90°  
 GRID LOCATION: 8730 North, 19800 East  
 ELEVATION: 1225 Metres

#### 6.2.1.2 SUMMARY LOG - PL01

METRES (FEET)	GEOLOGY
0 (0) - 1.52 (5)	Road fill
1.52 (5) - 7.62 (25)	Green, cream schist, feldspar phenocrysts, some quartz veining, trace to 0.3% pyrite, trace galena
7.62 (25) - 24.38 (80)	Green, grey hornblende tuff? some white quartz veining, weak to moderate silicification, quartz flooding? trace to 0.5% pyrite

cont'd

24.38 (80) - 27.43 (90) Grey metavolcanic tuff? minor white quartz veining, trace pyrite  
 27.43 (90) - 48.77 (160) Grey, green-grey metavolcanic tuff? minor schistosity, rare pyrite  
 48.77 (160) End of hole

### 6.2.1.3 ANALYTICAL RESULTS - PL01

DRILL HOLE PL01 - ANOMALOUS SAMPLE RESULTS									
ANOMALOUS ZONE (Feet)		GEOLOGY	MINERALIZATION INDICATOR VALUES			PATHFINDER ELEMENTS			
Interval	Width		Au ppb	Ag ppm	Cu ppm	As ppm	Sb ppm	Pb ppm	Zn ppm
5 - 10	5	Schist, quartz vein, trace to 0.3% pyrite, trace galena	350	168	268	216	60	1620	2330
10 - 20	10	Schist, quartz vein, trace to 0.3% pyrite, trace galena	330	80.4	183	64	24	912	988
20 - 25	5	Schist, quartz vein, trace to 0.3% pyrite, trace galena	65	38.4	95	108	14	132	236
25 - 30	5	Tuff? rare to minor quartz vein, quartz flooding, trace to 0.5% pyrite locally	<5	6.6	35	14	<2	18	56
30 - 40	10	Tuff? rare to minor quartz vein, quartz flooding, trace to 0.5% pyrite locally	<5	4.4	29	68	<2	12	66
40 - 50	10	Tuff? rare to minor quartz vein, quartz flooding, trace to 0.5% pyrite locally	<5	5.6	21	28	<2	40	66
50 - 60	10	Tuff? rare to minor quartz vein, quartz flooding, trace to 0.5% pyrite locally	20	11.4	46	10	2	108	68
60 - 70	10	Tuff? rare to minor quartz vein, quartz flooding, trace to 0.5% pyrite locally	230	113	209	118	12	1035	948
70 - 80	10	Tuff? rare to minor quartz vein, quartz flooding, trace to 0.5% pyrite locally	215	2.6	76	18	<2	66	130
80 - 90	10	Tuff? Minor white quartz vein, trace pyrite	30	1.4	42	2	<2	28	78
90 - 100	10	Grey metavolcanic tuff? minor schistosity, trace pyrite	<5	2.2	56	2	2	6	42
100 - 110	10	Grey metavolcanic tuff? minor schistosity, trace pyrite	35	26.0	73	10	<2	252	80
110 - 120	10	Grey metavolcanic tuff? minor schistosity, trace pyrite	5	5.4	55	4	<2	82	22
120 - 130	10	Grey metavolcanic tuff? minor schistosity, trace pyrite	<5	1.8	43	<2	<2	8	18
130 - 140	10	Grey metavolcanic tuff? minor schistosity, trace pyrite	10	2.2	37	10	6	26	58
140 - 150	10	Grey metavolcanic tuff? minor schistosity, trace pyrite	10	2.8	41	6	2	30	42
150 - 160	10	Grey metavolcanic tuff? minor schistosity, trace pyrite	<5	1.2	51	<2	<2	12	28

### 6.2.1.4 COMMENTS - PL01

PL01 was drilled to test weakly anomalous gold and silver values from a northwest-southeast striking, vertically oriented chlorite-mica-mariposite schist exposed in trench 03. The schist contains varying amounts of white quartz vein material with pyrite, galena, chalcopyrite and sphalerite. The trench is located in a very confined space, with a steep cliff to the south and a swamp to the north. This leaves only the four to five metre wide roadbed for possible drill sites, and a decision was made to drill a vertical hole down the structure to test the zone. The drill hole intersected grey to green tuffs? over its entire length, with minor to rare quartz veining from the surface to a depth of 27.43 metres. From a trace to 0.5% was noted in the entire length of the drill hole, with traces of galena from 1.52 to 7.62 metres.

Two sections, from 5 to 20 and 60 to 80 feet gave weakly anomalous gold (0.200 to 0.350 grams/tonne) and silver (2.6 to 168.0 grams/tonne) values. Arsenic (18 to 216 ppm), antimony (12 to 60 ppm), lead (56 to 1620 ppm) and zinc (130 to 2330 ppm) were also weakly anomalous. The most strongly anomalous gold and silver values are associated with the highest lead and zinc values.

## 7.0 CONCLUSIONS

- 7.1 Reconnaissance prospecting of the gold and copper soil geochemical anomalies delineated in the 1996 program did not reveal the cause of any of the anomalies. Scattered sampling of outcrop and sub-outcrop of rusty, fractured Nicola volcanic rocks from the anomalies did not yield anomalous values in any elements.
- 7.2 Geological mapping of the trenches at the Plug showing revealed a large area of carbonate-quartz-mariposite (C-Q-M) alteration. Sampling of the C-Q-M alteration revealed moderately to strongly anomalous gold and silver values are restricted to trench 02, with trenches 01 and 03 not giving any anomalous values in gold and silver.
- 7.3 The economically significant gold and silver values in trench 03 are related to a one to two metre wide, east-west striking, moderately south dipping shear zone exposed for 10 metres along strike. The shear zone yielded gold values ranging from 1.005 grams/tonne across 100 centimetres to 4.560 grams/tonne across 200 centimetres, and silver values ranging from 36.8 grams/tonne across 100 centimetres to 113 grams/tonne across 200 centimetres. The C-Q-M alteration adjacent to the shear zone also yielded moderately to strongly anomalous gold and silver values. Gold values range from 0.20 grams/tonne across 100 centimetres to 20.78 grams/tonne across 65 centimetres, and silver values range from 6.2 grams/tonne across 50 centimetres to 84.8 grams/tonne across 150 centimetres.
- 7.4 Reverse circulation drilling on the Plug showing tested the C-Q-M alteration exposed in the trenches. The drilling revealed a significant vertical extent to the C-Q-M alteration, but anomalous gold and silver values were again restricted to the drill holes adjacent to trench 02 (PL02, PL03 and PL04).
- 7.5 Drill hole PL02 was drilled adjacent to trench 02 and intersected C-Q-M alteration with strongly anomalous gold and silver values. The section from 10 to 40 feet (five foot sample interval) yielded anomalous gold values ranging from 0.700 to 2.850 grams/tonne, including 2.800 grams/tonne from 30 to 40 feet. The section also yielded anomalous silver values ranging from 4.8 to 40.2 grams/tonne, including 37.5 grams/tonne from 30 to 40 feet. Drill hole PL03 was an angle hole drilled to intersect the gold and silver mineralization at greater depth. This drill hole intersected C-Q-M alteration and yielded a five foot section from 55 to 60 feet with weakly anomalous gold and silver values of 0.825 and 11.0 grams/tonne respectively.
- 7.6 The section A-A\* through trench 02 and drill holes PL02 and PL03 indicate a moderately south dipping zone of gold and silver mineralization. The extent of the zone is unknown at this time.
- 7.7 Geological mapping of trench 03 at the Meadow showing revealed a 30 metre strike length of chlorite-mica-mariposite schist up to two metres wide containing quartz veinlets. Along most of the trench the quartz veinlets vary from two millimetres to two centimetres in width, but near the central portion of the trench the quartz vein widens to 35 centimetres. Traces of pyrite and galena occur with the quartz vein material. Gold (50 to 250 ppb) and silver (3.0 to 69.0) values were weakly anomalous in most samples across widths varying from 60 to 150 centimetres. Gold (4.420 to 6.140 grams/tonne) and silver (161 to 1715 grams/tonne) values were strongly anomalous in three samples of galena and sphalerite bearing quartz vein across 35 centimetres.
- 7.8 Drill hole PL01 on the Meadow showing was a vertical hole at trench 03 drilled down the zone to test the weakly anomalous gold and silver values. Minor to rare quartz veining was noted from 5 to 80 feet. Two sections, from 5 to 20 and 60 to 80 feet gave weakly anomalous gold (0.200 to 0.350 grams/tonne) and silver (2.6 to 168.0 grams/tonne) values.

## 8.0 RECOMMENDATIONS

Recommendations are as follows:

- 8.1 The gold and copper soil geochemical anomalies delineated in 1996 should be investigated by more thorough prospecting and geological mapping to ascertain their causes.
- 8.2 The gold and silver mineralization at the Plug showing (exposed in trench 02 and intersected in drill holes PL02 and PL03) should be investigated by a minimum of eight, short NQ diamond drill holes to determine the grade, and vertical and lateral extent of the mineralization.
- 8.3 The gold and silver mineralization at the Meadow showing (exposed in trench 03 and intersected in drill hole PL01) should be investigated by a minimum of three, short NQ diamond drill holes to determine the grade and extent of the mineralization.

Respectfully submitted,



Grant F. Crocker, P. Geol.,  
Consulting Geologist



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### 10.0 CERTIFICATE OF QUALIFICATIONS

I, Grant F. Crooker, of Upper Bench Road, PO Box 404, Keremeos, British Columbia, Canada, V0X 1N0 do certify that:

I am a Consulting Geologist registered with the Association of Professional Engineers and Geoscientists of the Province of British Columbia (Registration No. 18961);

I am a Fellow of the Geological Association of Canada (Registration No. 3758) and I am a Member of the Canadian Institute of Mining and Metallurgy and Petroleum;

I am a graduate (1972) of the University of British Columbia with a Bachelor of Science degree (B.Sc.) from the Faculty of Science having completed the Major program in geology;

I have practised my profession as a geologist for more than 20 years, and since 1980, I have been practising as a consulting geologist and, in this capacity, have examined and reported on numerous mineral properties in North and South America;

I have based this report on field examinations within the area of interest and on a review of the technical and geological data provided by Goldcliff Resource Corporation;

I am the owner of Goldcliff Resource Corporation securities.

Respectfully submitted,

  
Grant F. Crooker, P. Geol.,  
GFC Consultants Inc.

J. n 15/98

**APPENDIX I**  
**CERTIFICATES OF ANALYSIS**



# Chemex Labs Ltd.

Analytical Chemistry - Geochemicals - Registered Assessors  
212 Brookbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-964-0221 FAX: 604-964-0218

6976 LABURNUM ST.  
VANCOUVER, BC  
V6P 5A9

Project: PLUG  
Comments: ATTN: LEONARD SALEKEN

Invoic No. 19739198  
P.O. Number  
Account LOY

## CERTIFICATE OF ANALYSIS A9739198

SAMPLE	PREP CODE	As ppb	Ag ppb	Al %	Ar ppm	Ca ppm	Co ppm	Cd ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Nb ppm			
MEADOW WCB-1	205 226	< 5	< 0.2	1.01	< 2	90	< 0.5	< 2	1.45	0.5	24	121	4.1	0.27	10	< 1	0.21	< 10	2.93	2100
MEADOW WCB-2	205 226	< 5	< 0.2	0.93	< 2	220	< 0.5	< 2	0.39	< 0.5	19	39	10.3	0.79	< 10	< 1	0.16	< 10	10.28	600
MEADOW WCB-3	205 226	10	0.1	0.67	142	20	< 0.5	< 2	1.87	55.0	64	251	45	0.42	< 10	< 1	0.66	< 10	9.99	320
MEADOW WCB-4	205 226	10	0.1	1.23	382	30	< 0.5	< 2	1.19	3.0	42	766	21	0.48	< 10	< 1	0.10	< 10	0.91	345
MEADOW WCB-5	205 226	< 5	0.2	0.32	6	140	< 0.5	< 2	0.23	< 0.5	2	14	13	1.48	< 10	< 1	0.10	< 10	0.74	1655
WCB11-5W	205 226	< 5	< 0.2	1.13	< 2	80	< 0.5	< 2	0.41	< 0.5	31	139	46	3.23	< 10	< 1	0.23	< 10	2.74	920
WCB12-5W	205 226	< 5	< 0.2	2.35	< 2	120	< 0.5	< 2	0.41	< 0.5	19	391	33	4.71	< 10	< 1	0.23	< 10	1.24	615
WCB13-5W	205 226	< 5	< 0.2	1.15	< 2	10	< 0.5	< 2	1.23	< 0.5	14	31	33	1.08	< 10	< 1	0.43	< 10	0.62	343
WCB14-5W	205 226	< 5	< 0.2	0.91	< 2	110	< 0.5	< 2	0.41	< 0.5	8	31	38	1.35	< 10	< 1	0.69	< 10	0.62	295
WCB15-5W	205 226	< 5	< 0.2	0.91	< 2	90	< 0.5	< 2	3.29	< 0.5	45	861	60	0.33	< 10	< 1	0.61	< 10	9.72	185
WCB16-5W	205 226	< 5	< 0.2	0.96	< 2	600	< 0.5	< 2	3.63	< 0.5	11	786	21	0.44	< 10	< 1	0.01	< 10	9.34	920
WCB17-5W	205 226	< 5	< 0.2	0.97	< 2	120	< 0.5	< 2	1.07	< 0.5	52	766	< 1	0.23	< 10	< 1	0.01	< 10	10.45	735
WCB18-5W	205 226	< 5	< 0.2	0.58	< 2	940	< 0.5	< 2	5.83	1.5	23	351	1	3.99	< 10	< 1	0.07	< 10	0.43	985
WCB19-5W	205 226	< 5	< 0.2	1.39	< 2	130	< 0.5	< 2	4.46	1.5	69	655	10	0.66	< 10	< 1	0.01	< 10	10.90	1000
WCB20-5W	205 226	< 5	< 0.2	1.40	< 2	130	< 0.5	< 2	4.31	< 0.5	50	915	1	0.63	< 10	< 1	0.01	< 10	9.17	925
WCB21-5W	205 226	< 5	< 0.2	0.79	< 2	1460	< 0.5	< 2	6.38	1.0	13	634	8	3.89	< 10	< 1	0.01	< 10	9.17	925
WCB22-5W	205 226	< 5	< 0.2	1.20	< 2	130	< 0.5	< 2	4.02	0.5	14	440	21	0.22	< 10	< 1	0.22	< 10	0.28	815
WCB23-5W	205 226	< 5	< 0.2	0.63	< 2	200	< 0.5	< 2	0.26	< 0.5	4	56	26	1.39	< 10	< 1	0.09	< 10	1.47	565
WCB24-5W	205 226	< 5	< 0.2	1.02	< 2	50	< 0.5	< 2	5.20	< 0.5	14	63	89	3.43	< 10	< 1	0.18	< 10	1.42	705
WCB25-5W	205 226	< 5	< 0.2	1.16	< 2	170	< 0.5	< 2	0.70	< 0.5	17	56	49	3.78	< 10	< 1	0.18	< 10	1.42	705
WCB26-5W	205 226	< 5	< 0.2	1.16	< 2	10	< 0.5	< 2	5.21	< 0.5	26	380	31	0.44	< 10	< 1	0.08	< 10	3.23	635
WCB27-5W	205 226	< 5	< 0.2	1.20	< 2	10	< 0.5	< 2	0.23	< 0.5	25	309	17	0.23	< 10	< 1	0.07	< 10	3.99	860
WCB28-5W	205 226	< 5	< 0.2	1.03	< 2	10	< 0.5	< 2	0.33	< 0.5	24	247	89	3.96	< 10	< 1	0.05	< 10	2.68	325
WCB29-5W	205 226	< 5	< 0.2	0.82	< 2	10	< 0.5	< 2	5.07	< 0.5	25	244	10	0.67	< 10	< 1	0.09	< 10	1.95	215
WCB30-5W	205 226	< 5	< 0.2	1.16	< 2	10	< 0.5	< 2	7.19	< 0.5	25	165	17	0.44	< 10	< 1	0.09	< 10	1.92	220
WCB31-5W	205 226	< 5	< 0.2	1.02	< 2	10	< 0.5	< 2	0.30	< 0.5	11	166	34	0.97	< 10	< 1	0.08	< 10	1.92	220
WCB32-5W	205 226	< 5	< 0.2	2.83	< 2	10	< 0.5	< 2	0.37	< 0.5	14	147	18	0.42	< 10	< 1	0.08	< 10	1.92	220
WCB33-5W	205 226	< 5	< 0.2	2.83	< 2	10	< 0.5	< 2	0.37	< 0.5	14	147	18	0.42	< 10	< 1	0.08	< 10	1.92	220
WCB34-5W	205 226	< 5	< 0.2	2.39	< 2	10	< 0.5	< 2	4.49	0.5	66	398	37	0.68	< 10	< 1	0.14	< 10	1.55	506
WCB35-5W	205 226	< 5	< 0.2	0.19	< 2	20	< 0.5	< 2	0.58	12.3	32	234	117	1.23	< 10	< 1	0.14	< 10	1.55	506
WCB36-5W	205 226	< 5	< 0.2	0.19	< 2	20	< 0.5	< 2	2.45	0.5	48	391	27	0.23	< 10	< 1	0.10	< 10	16.05	815
WCB37-5W	205 226	< 5	< 0.2	0.58	< 2	80	< 0.5	< 2	0.21	2.0	42	411	40	0.23	< 10	< 1	0.10	< 10	1.92	765
WCB38-5W	205 226	< 5	< 0.2	0.58	< 2	80	< 0.5	< 2	1.84	< 0.5	25	133	19	0.42	< 10	< 1	0.10	< 10	1.92	765
WCB39-5W	205 226	< 5	< 0.2	1.57	< 2	10	< 0.5	< 2	0.25	< 0.5	1	31	6	5.34	< 10	< 1	0.01	< 10	0.13	259
WCB40-5W	205 226	< 5	< 0.2	0.24	< 2	10	< 0.5	< 2	0.23	< 0.5	7	140	111	2.83	< 10	< 1	0.01	< 10	0.16	200
WCB41-5W	205 226	< 5	< 0.2	1.48	< 2	10	< 0.5	< 2	0.38	< 0.5	30	24	36	0.25	< 10	< 1	0.01	< 10	1.91	865
WCB42-5W	205 226	< 5	< 0.2	0.58	< 2	30	< 0.5	< 2	0.38	< 0.5	3	99	6	0.27	< 10	< 1	0.13	< 10	0.19	135
WCB43-5W	205 226	< 5	< 0.2	1.24	< 2	40	< 0.5	< 2	1.18	0.5	20	54	29	5.97	< 10	< 1	0.15	< 10	1.66	125
WCB44-5W	205 226	< 5	< 0.2	1.24	< 2	40	< 0.5	< 2	1.27	0.5	34	23	37	3.83	< 10	< 1	0.01	< 10	1.34	425
WCB45-5W	205 226	< 5	< 0.2	1.24	< 2	40	< 0.5	< 2	3.32	0.5	31	11	53	0.73	< 10	< 1	0.01	< 10	2.19	1440

CERTIFICATION: *Leonard Saleken*



# Chemex Labs Ltd.

Analytical Chemistry - Geochemicals - Registered Assessors  
212 Brookbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-964-0221 FAX: 604-964-0218

To: GEOTECH CONSULTANTS LTD.

6976 LABURNUM ST.  
VANCOUVER, BC  
V6P 5A9

Project: PLUG  
Comments: ATTN: LEONARD SALEKEN

Page Number: 1-R  
Total Pages: 2  
Certificate Date: 02-SEP-97  
Invoice No.: 19739198  
P.O. Number:  
Account: LOY

## CERTIFICATE OF ANALYSIS A9739198

SAMPLE	PREP CODE	Mo ppm	Ka %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Rc ppm	Ti %	Zn ppm	U ppm	V ppm	N ppm	Se ppm
MEADOW WCB-1	205 226	< 1	0.03	43	880	6	< 2	18	161	0.03	< 10	< 10	17	< 10	24
MEADOW WCB-2	205 226	< 1	0.01	26	690	< 2	< 2	8	164	< 0.01	< 10	< 10	85	< 10	44
MEADOW WCB-3	205 226	< 1	0.01	837	190	154	6	10	508	< 0.01	< 10	< 10	34	< 10	2190
MEADOW WCB-4	205 226	< 1	< 0.01	559	150	124	2	11	748	< 0.01	< 10	< 10	56	< 10	240
MEADOW WCB-5	205 226	< 1	0.05	8	190	2	< 1	< 1	22	< 0.01	< 10	< 10	8	< 10	34
WCB11-5W	205 226	< 1	0.01	175	1330	< 2	< 2	20	194	< 0.01	< 10	< 10	81	< 10	106
WCB12-5W	205 226	< 1	0.01	47	800	< 2	< 2	8	20	0.14	< 10	< 10	14	< 10	30
WCB13-5W	205 226	< 1	0.01	3	1060	< 2	< 2	7	31	0.19	< 10	< 10	54	< 10	30
WCB14-5W	205 226	< 1	0.06	4	530	< 2	< 2	3	13	0.17	< 10	< 10	31	< 10	30
WCB15-5W	205 226	< 1	0.01	695	340	2	< 2	15	112	< 0.01	< 10	< 10	61	< 10	18
WCB16-5W	205 226	< 1	0.01	511	660	2	< 2	13	185	< 0.01	< 10	< 10	61	< 10	32
WCB17-5W	205 226	< 1	0.01	394	219	2	< 2	13	189	< 0.01	< 10	< 10	71	< 10	30
WCB18-5W	205 226	< 1	0.01	321	139	8	< 2	7	194	< 0.01	< 10	< 10	32	< 10	40
WCB19-5W	205 226	< 1	0.01	464	686	16	< 2								



# Chemex Labs Ltd.

Analytical Chemists - Geochemists - Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOTEC CONSULTANTS LTD.  
 6976 LABURNUM ST.  
 VANCOUVER, BC  
 V6P 5M9  
 Project: PLUG  
 Comments: ATTN: LEONARD SALEKEN

Page Number 2  
 Total Pages 2  
 Certificate Date 02-SEP-97  
 Invoice No 19739198  
 P.O. Number  
 Account LOY

## CERTIFICATE OF ANALYSIS A9739198

SAMPLE	PREP CODE	Au ppb FA-AA	Ag ppm	Al %	As ppm	Ba ppm	Bi ppm	Bl ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Xn ppm
MCR21050E-8040W	205 226	< 5	< 0.2	2.89	< 2	< 10	< 0.5	< 2	0.77	< 0.5	12	22	58	5.87	< 10	< 1	0.01	< 10	1.89	755
MCR21150E-8825M	205 226	< 5	< 0.2	3.05	< 2	40	< 0.5	4	2.14	< 0.5	26	35	70	5.58	< 10	< 1	0.15	< 10	2.04	910
MCR21155E-8440M	205 226	< 5	0.2	1.74	< 2	10	< 0.5	< 2	1.12	< 0.5	35	16	51	4.71	< 10	< 1	0.01	< 10	1.29	650
MCR21250E-8100M	205 226	< 5	< 0.2	2.17	< 2	< 10	< 0.5	< 2	0.86	< 0.5	36	11	145	3.79	< 10	< 1	0.01	< 10	1.70	755
MCR21552E-8285M	205 226	< 5	< 0.2	1.77	4	30	< 0.5	< 2	0.88	< 0.5	21	38	46	3.97	< 10	< 1	0.09	< 10	1.29	610
MCR21650E-8350M	205 226	< 5	< 0.2	2.57	< 2	10	< 0.5	< 2	1.02	< 0.5	20	94	21	3.87	< 10	< 1	0.06	< 10	1.94	525
MCR21900E-8200M	205 226	< 5	< 0.2	1.41	< 2	10	< 0.5	< 2	1.11	< 0.5	18	20	45	3.01	< 10	< 1	0.02	< 10	1.09	180
MCR22000E-8200M	205 226	< 5	0.2	0.58	< 2	< 10	< 0.5	< 2	0.27	< 0.5	7	215	93	1.29	< 10	< 1	0.01	< 10	0.14	180

CERTIFICATION: *Handwritten Signature*

SEP-29-97 09:02 geotec  
 6042618994  
 P.03



# Chemex Labs Ltd.

Analytical Chemists - Geochemists - Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOTEC CONSULTANTS LTD.  
 6976 LABURNUM ST.  
 VANCOUVER, BC  
 V6P 5M9  
 Project: PLUG  
 Comments: ATTN: LEONARD SALEKEN

Page Number 2-B  
 Total Pages 2  
 Certificate Date 02-SEP-97  
 Invoice No 19739198  
 P.O. Number  
 Account LOY

## CERTIFICATE OF ANALYSIS A9739198

SAMPLE	PREP CODE	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
MCR21050E-8040W	205 226	1	0.03	12	980	2	< 2	4	32	0.19	< 10	< 10	139	< 10	62
MCR21150E-8825M	205 226	< 1	0.03	13	1000	< 2	< 2	6	33	0.30	< 10	< 10	164	< 10	86
MCR21155E-8440M	205 226	< 1	0.04	5	700	2	< 2	6	82	0.23	< 10	< 10	125	< 10	66
MCR21250E-8100M	205 226	1	0.04	15	1140	< 2	< 2	4	27	0.20	< 10	< 10	121	< 10	74
MCR21552E-8285M	205 226	1	0.04	20	750	< 2	< 2	4	24	0.18	< 10	< 10	44	< 10	30
MCR21650E-8350M	205 226	1	0.04	45	880	2	< 2	4	28	0.20	< 10	< 10	81	< 10	48
MCR21900E-8200M	205 226	1	0.03	13	800	< 2	< 2	5	30	0.17	< 10	< 10	67	< 10	44
MCR22000E-8200M	205 226	< 1	0.03	5	140	2	< 2	3	15	0.05	< 10	< 10	35	< 10	12

CERTIFICATION: *Handwritten Signature*

SEP-29-97 09:02 geotec  
 6042618994  
 P.04



**Chemex Labs Ltd.**  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

6976 LABURNUM ST.  
 VANCOUVER, BC  
 V6P 5M9

Project: PLUG  
 Comments: ATTN:LEONARD SALEKEN

Certificate Date: 26 AUG-97  
 Invoice No: 19739108  
 P.O. Number:  
 Account: LOY

SEP-29-97 09:03 geotec 6042618994 P.07

**CERTIFICATE OF ANALYSIS A9739108**

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Ba ppm	Bi ppm	Ce %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Bg ppm	K %	La ppm	Ni %	Mn ppm
RIDGE MTH MCB-8	101 229	< 5	< 0.2	3.27	< 2	140	< 0.5	< 2	0.30	< 0.5	31	143	56	4.36	< 10	< 1	0.25	< 10	1.13	625

CERTIFICATION: *[Signature]*



**Chemex Labs Ltd.**  
 Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOTEC CONSULTANTS LTD  
 6976 LABURNUM ST.  
 VANCOUVER, BC  
 V6P 5M9

Project: PLUG  
 Comments: ATTN:LEONARD SALEKEN

Page Number: 1 B  
 Total Pages: 1  
 Certificate Date: 26-AUG-97  
 Invoice No: 19739108  
 P.O. Number:  
 Account: LOY

SEP-29-97 09:03 geotec 6042618994 P.08

**CERTIFICATE OF ANALYSIS A9739108**

SAMPLE	PREP CODE	Mo ppm	Ni %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Se ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
RIDGE MTH MCB-8	101 229	< 1	< 0.01	72	840	< 2	< 2	7	19	0.18	< 10	< 10	83	< 10	112

CERTIFICATION: *[Signature]*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brookbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOTEC CONSULTANTS LTD.

6976 LABURNUM ST.  
VANCOUVER, BC  
V6P 5M9

Project: PLUG  
Comments: aTTN:LEONARD SALEKEN

Page Number: 1 A  
Total Pages: 1  
Certificate Date: 26-AUG-97  
Invoice No.: 19739106  
P.O. Number:  
Account: LOY

Sep-29-97 09:02 geotac

6042618994

P.06

## CERTIFICATE OF ANALYSIS A9739106

SAMPLE	PREP CODE	As ppb FA-AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Ce ppm	Cs ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
FENCE CORNER NW	201 229	< 5	< 0.2	1.19	< 2	50	< 0.5	< 2	0.62	< 0.5	12	35	32	2.49	< 10	< 1	0.06	< 10	0.63	310

CERTIFICATION: *Geotac*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brookbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOTEC CONSULTANTS LTD.

6976 LABURNUM ST.  
VANCOUVER, BC  
V6P 5M9

Project: PLUG  
Comments: aTTN:LEONARD SALEKEN

Page Number: 1 B  
Total Pages: 1  
Certificate Date: 26-AUG-97  
Invoice No.: 19739106  
P.O. Number:  
Account: LOY

Sep-29-97 09:02 geotac

6042618994

P.06

## CERTIFICATE OF ANALYSIS A9739106

SAMPLE	PREP CODE	Mo ppm	Nb %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
FENCE CORNER NW	201 229	< 1	< 0.01	16	620	< 2	< 2	3	34	0.12	< 10	< 10	68	< 10	24

CERTIFICATION:





# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brookbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOTEC CONSULTANTS LTD.  
 6976 LABURNUM ST.  
 VANCOUVER, BC  
 V6P 5M9

Page Number 1-A  
 Total Pages 4  
 Certificate Date 24-OCT-97  
 Invoice No. 19747080  
 P.O. Number 020  
 Account LOY

Project: PLUG  
 Comments: CC: GRANT CROOKER

## CERTIFICATE OF ANALYSIS A9747080

SAMPLE	PREP CODE	Au ppb FA-AA	Ag g/t	Al 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 %
TR01 001	205 276	< 5	< 0.2	0.51	2	80	< 0.5	< 2	7.89	< 0.5	36	146	21	4.61	< 10	< 1	0.17	< 10	2.94
TR01 002	205 276	< 5	< 0.2	0.71	4	90	< 0.5	< 2	7.42	< 0.5	36	231	13	5.05	< 10	< 1	0.13	< 10	2.70
TR01 003	205 276	< 5	< 0.2	0.57	6	1070	< 0.5	< 2	8.49	< 0.5	36	211	33	4.01	< 10	< 1	0.09	< 10	3.87
TR01 004	205 276	< 5	< 0.2	0.78	6	110	< 0.5	< 2	7.03	< 0.5	36	245	52	5.39	< 10	< 1	0.12	< 10	3.44
TR01 005	205 276	< 5	< 0.2	0.54	< 2	300	< 0.5	< 2	8.45	< 0.5	29	159	61	4.41	< 10	< 1	0.11	< 10	2.66
TR01 006	205 276	< 5	< 0.2	0.21	4	120	< 0.5	< 2	9.82	< 0.5	31	104	36	3.88	< 10	< 1	0.11	< 10	3.70
TR01 007	205 276	< 5	< 0.2	0.27	6	140	< 0.5	< 2	9.66	< 0.5	36	188	60	4.27	< 10	< 1	0.14	< 10	3.57
TR01 008	205 276	< 5	< 0.2	0.26	8	140	< 0.5	< 2	9.78	< 0.5	36	170	14	4.32	< 10	< 1	0.16	< 10	6.51
TR01 009	205 276	< 5	< 0.2	0.41	8	230	< 0.5	< 2	8.96	< 0.5	36	392	80	3.44	< 10	< 1	0.07	< 10	7.85
TR01 010	205 276	< 5	< 0.2	0.48	< 2	190	< 0.5	< 2	8.59	< 0.5	35	488	39	3.59	< 10	< 1	0.10	< 10	5.26
TR01 011	205 276	< 5	< 0.2	1.03	2	370	< 0.5	< 2	7.03	< 0.5	40	716	13	3.61	< 10	< 1	0.10	< 10	6.25
TR01 012	205 276	< 5	< 0.2	0.61	8	140	< 0.5	< 2	5.69	< 0.5	38	425	28	3.36	< 10	< 1	0.24	< 10	7.90
TR01 013	205 276	< 5	< 0.2	0.69	4	220	< 0.5	< 2	4.66	< 0.5	38	409	30	3.39	< 10	< 1	0.22	< 10	8.32
TR01 014	205 276	< 5	< 0.2	0.33	6	910	< 0.5	< 2	5.67	< 0.5	35	275	48	3.42	< 10	< 1	0.21	< 10	7.18
TR01 117	205 276	50	< 0.2	0.90	2	50	< 0.5	< 2	4.90	< 0.5	37	405	35	3.75	< 10	< 1	0.24	< 10	7.94
TR01 118	205 276	< 5	< 0.2	1.88	< 2	470	< 0.5	< 2	3.93	< 0.5	35	397	35	3.50	< 10	< 1	0.19	< 10	8.34
TR01 119	205 276	< 5	< 0.2	1.78	8	170	< 0.5	< 2	3.94	< 0.5	35	512	41	1.71	< 10	< 1	0.18	< 10	8.52
TR02 015	205 276	< 5	< 0.2	1.98	30	700	< 0.5	< 2	3.02	< 0.5	19	99	29	4.11	< 10	< 1	0.27	< 10	2.86
TR02 016	205 276	< 5	< 0.2	2.02	8	410	< 0.5	< 2	3.91	< 0.5	34	547	30	3.66	< 10	< 1	0.04	< 10	7.40
TR02 017	205 276	< 5	< 0.2	1.69	4	240	< 0.5	< 2	5.27	< 0.5	31	497	54	3.52	< 10	< 1	0.07	< 10	7.07
TR02 018	205 276	< 5	< 0.2	1.42	6	1390	< 0.5	< 2	5.88	< 0.5	35	463	28	3.72	< 10	< 1	0.08	< 10	7.03
TR02 019	205 276	< 5	< 0.2	1.48	8	460	< 0.5	< 2	4.40	< 0.5	35	489	28	3.61	< 10	< 1	0.09	< 10	9.09
TR02 020	205 276	< 5	< 0.2	0.51	4	660	< 0.5	< 2	4.18	< 0.5	39	390	12	3.89	< 10	< 1	0.16	< 10	8.33
TR02 021	205 276	< 5	< 0.2	1.16	8	760	< 0.5	< 2	4.88	< 0.5	36	350	26	3.97	< 10	< 1	0.10	< 10	8.34
TR02 022	205 276	< 5	< 0.2	0.27	10	520	< 0.5	< 2	3.67	< 0.5	32	133	20	3.72	< 10	< 1	0.14	< 10	7.42
TR02 023	205 276	< 5	< 0.2	0.64	2	1000	< 0.5	< 2	3.67	< 0.5	29	174	44	3.16	< 10	< 1	0.12	< 10	5.60
TR02 024	205 276	< 5	< 0.2	1.32	8	260	< 0.5	< 2	4.92	< 0.5	35	310	29	3.83	< 10	< 1	0.12	< 10	8.18
TR02 025	205 276	< 5	< 0.2	0.29	6	750	< 0.5	< 2	4.97	< 0.5	11	71	72	2.65	< 10	< 1	0.15	< 10	1.84
TR02 026	205 276	< 5	< 0.2	1.21	< 2	720	< 0.5	< 2	4.96	< 0.5	32	397	34	3.78	< 10	< 1	0.12	< 10	7.96
TR02 027	205 276	< 5	< 0.2	0.77	2	290	< 0.5	< 2	4.01	< 0.5	37	304	41	4.16	< 10	< 1	0.15	< 10	8.57
TR02 028	205 276	15	< 0.2	0.24	6	710	< 0.5	< 2	0.66	< 0.5	5	37	77	2.53	< 10	< 1	0.12	< 10	1.00
TR02 029	205 276	< 5	< 0.2	1.40	14	80	< 0.5	< 2	4.76	< 0.5	35	380	41	3.91	< 10	< 1	0.11	< 10	8.91
TR02 030	205 276	< 5	< 0.2	1.71	6	650	< 0.5	< 2	4.59	< 0.5	36	401	37	4.04	< 10	< 1	0.10	< 10	9.38
TR02 031	205 276	200	14.2	0.21	24	30	< 0.5	< 2	4.18	< 0.5	40	135	103	6.14	< 10	< 1	0.13	< 10	8.82
TR02 032	205 276	370	26.2	0.29	36	30	< 0.5	< 2	3.46	< 0.5	42	134	176	4.18	< 10	< 1	0.18	< 10	8.64
TR02 033	205 276	310	27.6	0.22	28	160	< 0.5	< 2	2.82	< 0.5	60	162	144	4.36	< 10	< 1	0.13	< 10	9.95
TR02 034	205 276	340	17.8	0.21	30	250	< 0.5	< 2	3.50	< 0.5	69	172	137	4.18	< 10	< 1	0.13	< 10	10.20
TR02 035	205 276	1540	45.0	0.42	174	110	< 0.5	< 2	1.00	< 0.5	5	33	126	2.40	< 10	< 1	0.27	< 10	0.54
TR02 036	205 276	305	13.4	0.24	38	550	< 0.5	< 2	3.15	< 0.5	42	232	42	4.26	< 10	< 1	0.16	< 10	10.10
TR02 037	205 276	2140	68.8	0.49	154	170	< 0.5	< 2	1.17	0.5	6	25	139	2.18	< 10	< 1	0.31	< 10	0.69

CERTIFICATION: 19747080



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brookbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOTEC CONSULTANTS LTD.  
 6976 LABURNUM ST.  
 VANCOUVER, BC  
 V6P 5M9

Page Number 1-B  
 Total Pages 4  
 Certificate Date 24-OCT-97  
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 P.O. Number 020  
 Account LOY

Project: PLUG  
 Comments: CC: GRANT CROOKER

## CERTIFICATE OF ANALYSIS A9747080

SAMPLE	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
TR01 001	205 276	965	< 1	< 0.01	249	580	< 2	< 2	20	232	< 0.01	< 10	10	97	< 10	26
TR01 002	205 276	1018	< 1	< 0.01	260	610	< 2	< 2	24	218	< 0.01	< 10	< 10	120	< 10	28
TR01 003	205 276	1195	< 1	< 0.01	177	730	< 2	< 2	18	286	< 0.01	< 10	< 10	110	< 10	20
TR01 004	205 276	1195	< 1	< 0.01	289	690	< 2	< 2	26	214	< 0.01	< 10	< 10	141	< 10	30
TR01 005	205 276	1065	< 1	< 0.01	204	510	< 2	< 2	21	319	< 0.01	< 10	< 10	115	< 10	24
TR01 006	205 276	830	< 1	< 0.01	296	500	< 2	< 2	12	340	< 0.01	< 10	< 10	74	< 10	16
TR01 007	205 276	1020	< 1	< 0.01	430	400	< 2	< 2	12	383	< 0.01	< 10	< 10	60	< 10	22
TR01 008	205 276	660	< 1	< 0.01	574	300	< 2	< 2	14	231	< 0.01	< 10	< 10	47	< 10	42
TR01 009	205 276	1050	< 1	< 0.01	498	320	< 2	< 2	11	417	< 0.01	< 10	< 10	58	< 10	14
TR01 010	205 276	825	< 1	< 0.01	526	360	< 2	< 2	13	361	< 0.01	< 10	< 10	64	< 10	16
TR01 011	205 276	680	< 1	< 0.01	608	380	< 2	< 2	13	309	< 0.01	< 10	< 10	63	< 10	20
TR01 012	205 276	800	< 1	< 0.01	471	330	< 2	< 2	6	606	< 0.01	< 10	< 10	94	< 10	12
TR01 013	205 276	713	< 1	< 0.01	566	330	< 2	< 2	8	385	< 0.01	< 10	< 10	51	< 10	12
TR01 014	205 276	735	< 1	< 0.01	455	400	< 2	< 2	12	408	< 0.01	< 10	< 10	64	< 10	16
TR01 117	205 276	735	< 1	< 0.01	558	350	< 2	< 2	8	450	< 0.01	< 10	< 10	58	< 10	16
TR01 118	205 276	720	< 1	< 0.01	479	360	< 2	< 2	12	293	< 0.01	< 10	< 10	66	< 10	20
TR01 119	205 276	755	< 1	< 0.01	489	350	< 2	< 2	11	246	< 0.01	< 10	< 10	65	< 10	24
TR02 015	205 276	375	< 1	0.05	45	1760	34	< 2	9	86	0.08	< 10	< 10	114	< 10	164
TR02 016	205 276	880	< 1	< 0.01	431	390	6	< 2	11	340	< 0.01	< 10	< 10	65	< 10	26
TR02 017	205 276	850	< 1	< 0.01	369	450	< 2	< 2	5	405	< 0.01	< 10	< 10	47	< 10	18
TR02 018	205 276	820	< 1	< 0.01	442	380	2	< 2	9	395	< 0.01	< 10	< 1			



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Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOTEC CONSULTANTS LTD.

6976 LABURNUM ST.  
 VANCOUVER, BC  
 V6P 5M9

Project: PLUG  
 Comments: CC: GRANT CROOKER

Page Number: 2 A  
 Total Pages: 4  
 Certificate Date: 24-OCT-97  
 Invoice No.: 19747080  
 P.O. Number: 020  
 Account: LOY

## CERTIFICATE OF ANALYSIS A9747080

SAMPLE	PREP CODE	Au ppb FA+AA	Au FA g/t	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 %
PRO2 038	205 276	730	24.6	0.24	46	350	< 0.5	< 2	3.13	< 0.5	36	131	79	4.31	< 10	< 1	0.17	< 10	7.86	
PRO2 039	205 276	2080	84.8	0.41	144	150	< 0.5	< 2	1.36	< 0.5	8	70	204	2.88	< 10	< 1	0.29	< 10	0.74	
PRO2 040	205 276	240	12.6	0.22	26	110	< 0.5	< 2	3.04	< 0.5	33	144	93	3.24	< 10	< 1	0.17	< 10	7.46	
PRO2 041	205 276	>10000	20.78	0.13	34	100	< 0.5	< 2	3.24	< 0.5	32	147	58	4.23	< 10	< 1	0.09	< 10	9.01	
PRO2 042	205 276	1005	36.8	0.39	124	100	< 0.5	< 2	1.31	< 0.5	9	52	137	2.64	< 10	< 1	0.30	< 10	1.11	
PRO2 043	205 276	205	11.6	0.24	28	50	< 0.5	< 2	3.66	< 0.5	41	208	66	4.17	< 10	< 1	0.17	< 10	8.71	
PRO2 044	205 276	235	14.6	0.19	30	40	< 0.5	< 2	3.26	< 0.5	45	179	53	4.23	< 10	< 1	0.13	< 10	10.05	
PRO2 045	205 276	1210	36.8	0.48	128	210	< 0.5	< 2	1.76	< 0.5	6	43	93	2.22	< 10	< 1	0.31	< 10	7.30	
PRO2 046	205 276	565	19.4	0.30	50	110	< 0.5	< 2	3.32	< 0.5	40	128	92	4.62	< 10	< 1	0.16	< 10	10.25	
PRO2 047	205 276	220	6.2	0.26	24	50	< 0.5	< 2	2.37	< 0.5	49	379	36	4.11	< 10	< 1	0.29	< 10	0.63	
PRO2 048	205 276	1860	79.8	0.47	130	220	< 0.5	< 2	1.25	< 0.5	4	61	198	2.07	< 10	< 1	0.24	< 10	0.77	
PRO2 049	205 276	1540	65.8	0.41	126	190	< 0.5	< 2	1.97	< 0.5	4	52	189	2.05	< 10	< 1	0.26	< 10	0.78	
PRO2 050	205 276	3880	>100.0	0.42	122	300	< 0.5	< 2	1.52	0.5	4	52	195	2.20	< 10	< 1	0.24	< 10	0.90	
PRO2 051	205 276	3720	37.6	0.38	108	210	< 0.5	< 2	1.73	0.5	3	48	113	1.94	< 10	< 1	0.10	< 10	0.87	
PRO2 052	205 276	4560	38.6	0.51	142	290	< 0.5	< 2	1.66	0.5	4	45	95	2.22	< 10	< 1	0.10	< 10	0.87	
PRO2 053	205 276	2320	34.0	0.34	40	320	< 0.5	< 2	3.43	< 0.5	36	147	73	3.88	< 10	< 1	0.17	< 10	8.02	
PRO2 054	205 276	275	16.2	0.23	34	280	< 0.5	< 2	2.85	< 0.5	45	178	61	4.31	< 10	< 1	0.13	< 10	9.94	
PRO2 055	205 276	620	55.6	0.18	28	70	< 0.5	< 2	2.35	< 0.5	50	158	89	4.39	< 10	< 1	0.11	< 10	9.95	
PRO2 056	205 276	>10000	10.46	0.16	30	240	< 0.5	< 2	3.07	< 0.5	35	150	101	3.88	< 10	< 1	0.11	< 10	9.42	
PRO2 057	205 276	7900	49.4	0.19	26	60	< 0.5	< 2	2.43	< 0.5	44	145	88	4.13	< 10	< 1	0.11	< 10	9.24	
PRO2 058	205 276	3400	31.0	0.28	30	100	< 0.5	< 2	2.83	< 0.5	46	178	89	4.10	< 10	< 1	0.13	< 10	9.24	
PRO2 059	205 276	1460	13.2	0.20	40	130	< 0.5	< 2	2.47	< 0.5	41	197	73	3.94	< 10	< 1	0.11	< 10	9.40	
PRO2 060	205 276	3960	30.0	0.23	22	100	< 0.5	< 2	2.80	< 0.5	41	173	64	4.19	< 10	< 1	0.12	< 10	8.92	
PRO2 061	205 276	960	17.8	0.31	36	110	< 0.5	< 2	4.04	< 0.5	47	193	73	3.98	< 10	< 1	0.12	< 10	8.81	
PRO2 062	205 276	705	10.2	0.31	22	170	< 0.5	< 2	3.01	< 0.5	37	138	54	3.94	< 10	< 1	0.12	< 10	9.18	
PRO2 063	205 276	310	7.6	0.18	22	150	< 0.5	< 2	3.28	< 0.5	35	135	41	3.80	< 10	< 1	0.10	< 10	9.18	
PRO2 064	205 276	80	4.0	0.19	10	330	< 0.5	< 2	2.78	< 0.5	38	145	61	4.10	< 10	< 1	0.12	< 10	9.46	
PRO2 065	205 276	590	24.6	0.24	34	150	< 0.5	< 2	2.95	< 0.5	38	122	66	3.61	< 10	< 1	0.09	< 10	8.65	
PRO2 066	205 276	105	5.6	0.19	16	220	< 0.5	< 2	3.01	< 0.5	37	138	82	4.00	< 10	< 1	0.12	< 10	9.81	
PRO2 067	205 276	840	16.2	0.17	36	80	< 0.5	< 2	2.60	< 0.5	41	130	40	3.84	< 10	< 1	0.12	< 10	9.50	
PRO2 068	205 276	415	12.4	0.28	38	240	< 0.5	< 2	4.08	< 0.5	46	181	53	4.26	< 10	< 1	0.14	< 10	8.24	
PRO2 069	205 276	375	0.8	0.21	6	360	< 0.5	< 2	1.66	< 0.5	41	422	33	4.05	< 10	< 1	0.13	< 10	10.30	
PRO2 070	205 276	365	8.6	0.44	30	220	< 0.5	< 2	3.44	< 0.5	46	160	65	4.30	< 10	< 1	0.14	< 10	8.96	
PRO2 071	205 276	270	3.2	0.17	18	330	< 0.5	< 2	3.01	< 0.5	34	221	52	3.62	< 10	< 1	0.11	< 10	9.16	
PRO2 072	205 276	170	5.6	0.24	22	360	< 0.5	< 2	3.06	< 0.5	34	162	50	3.85	< 10	< 1	0.12	< 10	8.73	
PRO2 073	205 276	50	1.4	0.41	12	390	< 0.5	< 2	3.50	< 0.5	34	224	47	3.94	< 10	< 1	0.12	< 10	8.10	
PRO2 074	205 276	60	2.8	0.57	16	550	< 0.5	< 2	3.33	< 0.5	33	180	44	4.07	< 10	< 1	0.15	< 10	2.04	
PRO2 075	205 276	105	7.4	1.17	22	100	< 0.5	< 2	2.90	1.5	13	252	58	2.60	< 10	< 1	0.15	< 10	3.10	
PRO2 076	205 276	110	9.8	1.18	34	90	< 0.5	< 2	2.90	1.5	18	337	39	2.89	< 10	< 1	0.14	< 10	3.40	
PRO2 077	205 276	130	4.0	0.97	4	40	< 0.5	< 2	3.75	0.5	11	425	40	1.95	< 10	< 1	0.04	< 10	3.40	

CERTIFICATION:



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOTEC CONSULTANTS LTD.

6976 LABURNUM ST.  
 VANCOUVER, BC  
 V6P 5M9

Project: PLUG  
 Comments: CC: GRANT CROOKER

Page Number: 2 B  
 Total Pages: 4  
 Certificate Date: 24-OCT-97  
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 Account: LOY

## CERTIFICATE OF ANALYSIS A9747080

SAMPLE	PREP CODE	Mn ppm	Mo %	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
PRO2 038	205 276	815	< 1	< 0.01	387	230	12	< 2	11	290	< 0.01	< 10	< 10	34	< 10	26
PRO2 039	205 276	330	3	0.01	45	1010	22	10	1	130	< 0.01	< 10	< 10	29	< 10	30
PRO2 040	205 276	720	< 1	< 0.01	344	160	8	< 2	11	298	< 0.01	< 10	< 10	34	< 10	22
PRO2 041	205 276	920	< 1	< 0.01	556	130	14	< 2	10	296	< 0.01	< 10	< 10	9	< 10	8
PRO2 042	205 276	265	< 1	< 0.01	84	770	16	2	2	142	< 0.01	< 10	< 10	36	< 10	8
PRO2 043	205 276	785	< 1	< 0.01	410	310	8	< 2	12	364	< 0.01	< 10	< 10	35	< 10	46
PRO2 044	205 276	765	< 1	< 0.01	608	160	14	2	11	269	< 0.01	< 10	< 10	36	< 10	36
PRO2 045	205 276	355	3	< 0.01	47	970	16	4	2	157	< 0.01	< 10	< 10	10	< 10	6
PRO2 046	205 276	880	< 1	< 0.01	388	370	10	4	13	346	< 0.01	< 10	< 10	43	< 10	26
PRO2 047	205 276	775	< 1	< 0.01	619	260	8	2	11	180	< 0.01	< 10	< 10	36	< 10	38
PRO2 048	205 276	390	3	0.01	25	1050	14	8	1	117	< 0.01	< 10	< 10	9	< 10	6
PRO2 049	205 276	390	2	< 0.01	25	980	10	8	2	142	< 0.01	< 10	< 10	10	< 10	8
PRO2 050	205 276	380	2	0.01	29	1020	18	6	1	142	< 0.01	< 10	< 10	11	< 10	6
PRO2 051	205 276	460	4	0.01	25	980	10	2	2	155	< 0.01	< 10	< 10	9	< 10	6
PRO2 052	205 276	425	4	0.01	25	1070	14	4	2	153	< 0.01	< 10	< 10	10	< 10	8
PRO2 053	205 276	785	1	< 0.01	468	390	12	2	8	308	< 0.01	< 10	< 10	31	< 10	22
PRO2 054	205 276	725	< 1	< 0.01	576	290	10	< 2	11	327	< 0.01	< 10	< 10	35	< 10	28
PRO2 055	205 276	700	< 1	< 0.01	478	180	16	< 2	11	201	< 0.01	< 10	< 10	33	< 10	32
PRO2 056	205 276	720	< 1	< 0.01	512	250	12	4	9	294	< 0.01	< 10	< 10	33	< 10	26
PRO2 057	205 276	680	1	< 0.01	619	280	22	< 2	10	159	< 0.01	< 10	< 10	37	< 10	26
PRO2 058	205 276	700	< 1	< 0.01	606	250	10	6	10	217	< 0.01	< 10	< 10	36	< 10	24
PRO2 059	205 276	660	< 1	< 0.01	571	320	18	2	11	195	< 0.					



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## CERTIFICATE OF ANALYSIS A9747080

SAMPLE	PREP CODE	Au ppb FA-AA	Au FA g/t	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 %
TR03 078	205 276	55	-----	3.6	2.24	12	30	< 0.5	< 2	2.67	< 0.5	21	939	23	3.22	< 10	< 1	0.03	< 10	4.98
TR03 079	205 276	95	-----	29.8	2.03	116	50	< 0.5	< 2	3.23	1.0	30	833	57	3.20	< 10	< 1	0.08	< 10	5.09
TR03 080	205 276	50	-----	5.0	1.68	48	100	< 0.5	< 2	2.57	1.5	28	672	49	3.49	< 10	< 1	0.15	< 10	4.53
TR03 081	205 276	25	-----	26.8	1.27	212	50	< 0.5	< 2	3.23	2.0	29	570	63	1.68	< 10	< 1	0.09	< 10	7.22
TR03 082	205 276	55	-----	62.2	0.87	194	40	< 0.5	< 2	2.75	5.5	30	471	103	3.80	< 10	< 1	0.09	< 10	0.17
TR03 083	205 276	55	-----	26.0	1.15	92	50	< 0.5	< 2	3.52	3.0	22	537	50	3.28	< 10	< 1	0.07	< 10	6.03
TR03 084	205 276	35	-----	16.6	1.56	84	30	< 0.5	< 2	2.93	3.0	38	841	43	3.20	< 10	< 1	0.09	< 10	5.42
TR03 085	205 276	115	-----	19.6	1.08	86	60	< 0.5	< 2	2.95	3.5	23	518	62	3.43	< 10	< 1	0.05	< 10	9.94
TR03 086	205 276	15	-----	15.2	1.50	112	30	< 0.5	< 2	2.82	3.0	43	800	40	3.31	< 10	< 1	0.11	< 10	6.58
TR03 087	205 276	85	-----	36.6	1.63	128	70	< 0.5	< 2	2.79	4.0	31	775	62	3.88	< 10	< 1	0.05	< 10	9.13
TR03 088	205 276	120	-----	54.0	1.49	94	40	< 0.5	< 2	3.16	2.5	28	474	48	3.38	< 10	< 1	0.05	< 10	6.82
TR03 089	205 276	78	-----	30.4	1.21	80	40	< 0.5	< 2	3.84	34.0	21	260	191	3.37	< 10	< 1	0.09	< 10	5.87
TR03 090	205 276	240	-----	>100.0	0.58	184	50	< 0.5	< 2	2.84	24.5	26	277	129	3.60	< 10	< 1	0.04	< 10	7.48
TR03 091	205 276	270	-----	>100.0	0.68	270	10	< 0.5	< 2	2.99	4.0	29	214	25	3.16	< 10	< 1	0.05	< 10	6.30
TR03 092	205 276	40	-----	13.4	0.34	314	10	< 0.5	< 2	3.88	4.0	29	214	25	3.16	< 10	< 1	0.05	< 10	6.30
TR03 093	205 276	6140	-----	>100.0	0.24	380	10	< 0.5	< 2	1.31	>100.0	18	197	2490	2.68	< 10	< 1	0.05	< 10	5.37
TR03 094	205 276	118	-----	12.0	0.93	388	30	< 0.5	< 2	3.39	4.5	44	468	22	4.40	< 10	< 1	0.01	< 10	8.86
TR03 095	205 276	4420	-----	>100.0	0.58	236	30	< 0.5	< 2	4.73	82.0	27	275	1160	4.29	< 10	< 1	0.12	< 10	7.82
TR03 096	205 276	30	-----	6.4	2.00	160	10	< 0.5	< 2	3.82	2.0	45	1010	14	4.34	< 10	< 1	0.02	< 10	9.14
TR03 097	205 276	65	-----	13.2	1.74	156	30	< 0.5	< 2	3.55	4.5	40	912	28	4.30	< 10	< 1	0.04	< 10	9.14
TR03 098	205 276	30	-----	8.0	2.08	92	30	< 0.5	< 2	3.61	2.5	41	1075	14	3.64	< 10	< 1	0.01	< 10	6.47
TR03 099	205 276	10	-----	2.8	2.32	26	30	< 0.5	< 2	3.88	0.5	28	3175	16	2.98	< 10	< 1	0.01	< 10	5.88
TR03 100	205 276	80	-----	0.8	2.03	12	40	< 0.5	< 2	3.48	< 0.5	20	740	8	3.57	< 10	< 1	0.08	< 10	4.63
TR03 101	205 276	70	-----	0.8	2.16	8	30	< 0.5	< 2	4.90	1.0	25	1055	10	2.92	< 10	< 1	0.03	< 10	5.85
TR03 102	205 276	70	-----	0.8	2.30	16	30	< 0.5	< 2	4.48	0.5	31	1070	13	3.57	< 10	< 1	0.02	< 10	6.22
TR03 103	205 276	150	-----	8.6	2.16	12	30	< 0.5	< 2	3.93	17.5	28	993	52	3.77	< 10	< 1	0.02	< 10	6.13
TR03 104	205 276	18	-----	0.8	2.30	< 2	30	< 0.5	< 2	3.30	1.5	24	1010	15	3.40	< 10	< 1	0.01	< 10	5.25
TR03 105	205 276	25	-----	1.4	1.67	10	10	< 0.5	< 2	3.37	1.0	19	743	12	2.64	< 10	< 1	0.01	< 10	4.58
TR03 106	205 276	4920	-----	>100.0	1.52	4	10	< 0.5	< 2	3.97	1.5	17	725	186	2.47	< 10	< 1	0.01	< 10	4.31
TR03 107	205 276	50	-----	0.8	2.12	7	10	< 0.5	< 2	3.63	1.5	20	804	18	2.80	< 10	< 1	0.01	< 10	4.69
TR03 108	205 276	350	-----	1.2	1.83	16	150	< 0.5	< 2	1.49	2.5	14	100	30	3.49	< 10	< 1	0.10	< 10	2.15
TR03 127	205 276	20	-----	24.8	0.46	112	10	< 0.5	< 2	4.38	0.5	21	307	57	2.44	< 10	< 1	0.04	< 10	6.84
TR03 128	205 276	180	-----	69.0	0.35	356	10	< 0.5	< 2	3.53	17.5	32	215	143	3.77	< 10	< 1	0.08	< 10	9.06
TR03 129	205 276	< 5	-----	1.0	0.23	6	40	< 0.5	< 2	2.67	2.0	2	131	12	2.44	< 10	< 1	0.07	< 10	0.26
TR04 109	205 276	< 5	-----	< 0.2	0.27	26	50	< 0.5	< 2	3.34	< 0.5	61	256	23	4.57	< 10	< 1	0.11	< 10	8.60
TR04 110	205 276	< 5	-----	0.6	0.23	24	50	< 0.5	< 2	3.47	< 0.5	38	240	28	4.01	< 10	< 1	0.12	< 10	9.67
TR04 111	205 276	< 5	-----	0.2	0.22	28	40	< 0.5	< 2	4.02	< 0.5	37	224	26	4.30	< 10	< 1	0.12	< 10	8.85
TR04 112	205 276	< 5	-----	< 0.2	0.20	30	40	< 0.5	< 2	4.29	< 0.5	38	189	20	4.35	< 10	< 1	0.12	< 10	8.76
TR04 113	205 276	< 5	-----	< 0.2	0.20	20	10	< 0.5	< 2	3.71	< 0.5	42	336	62	4.38	< 10	< 1	0.12	< 10	9.05
TR04 114	205 276	< 5	-----	< 0.2	0.39	12	40	< 0.5	< 2	3.40	< 0.5	38	336	16	4.10	< 10	< 1	0.11	< 10	9.83

CERTIFICATION:



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOTEC CONSULTANTS LTD.  
6976 LABURNUM ST.  
VANCOUVER, BC  
V6P 5M9

Project: PLUG  
Comments: CC: GRANT CROOKER

Page Number: 3-B  
Total Pages: 4  
Certificate Date: 24-OCT-97  
Invoice No.: 19747080  
P.O. Number: 020  
Account: LOY

## CERTIFICATE OF ANALYSIS A9747080

SAMPLE	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
TR03 078	205 276	930	< 1	< 0.01	299	480	146	< 2	15	349	< 0.01	< 10	< 10	78	< 10	192
TR03 079	205 276	1045	< 1	< 0.01	313	470	188	< 2	11	337	< 0.01	< 10	< 10	66	< 10	372
TR03 080	205 276	860	< 1	< 0.01	255	740	194	4	10	565	< 0.01	< 10	< 10	51	< 10	192
TR03 081	205 276	800	< 1	< 0.01	383	420	650	20	9	369	< 0.01	< 10	< 10	44	< 10	188
TR03 082	205 276	775	< 1	< 0.01	402	270	20	2	11	406	< 0.01	< 10	< 10	44	< 10	428
TR03 083	205 276	780	< 1	< 0.01	296	470	262	6	8	489	< 0.01	< 10	< 10	51	< 10	306
TR03 084	205 276	895	< 1	< 0.01	526	350	350	< 2	13	430	< 0.01	< 10	< 10	73	< 10	376
TR03 085	205 276	855	< 1	< 0.01	290	540	270	4	9	408	< 0.01	< 10	< 10	45	< 10	354
TR03 086	205 276	930	< 1	< 0.01	564	170	304	2	14	428	< 0.01	< 10	< 10	83	< 10	396
TR03 087	205 276	925	< 1	< 0.01	412	520	292	2	11	406	< 0.01	< 10	< 10	66	< 10	394
TR03 088	205 276	925	< 1	< 0.01	536	440	596	< 2	13	456	< 0.01	< 10	< 10	81	< 10	520
TR03 089	205 276	805	< 1	< 0.01	380	380	306	6	9	493	< 0.01	< 10	< 10	55	< 10	256
TR03 090	205 276	765	< 1	< 0.01	235	440	1080	52	7	449	< 0.01	< 10	< 10	25	< 10	2300
TR03 091	205 276	765	< 1	< 0.01	306	230	1025	40	7	482	< 0.01	< 10	< 10	27	< 10	1680
TR03 092	205 276	805	< 1	< 0.01	283	180	202	4	7	474	< 0.01	< 10	< 10	20	< 10	308
TR03 093	205 276	410	< 1	< 0.01	247	100	>10000	1890	6	188	< 0.01	< 10	< 10	17	< 10	>10000
TR03 094	205 276	970	< 1	< 0.01	495	310	152	10	12	524	< 0.01	< 10	< 10	44	< 10	428
TR03 095	205 276	1050	< 1	< 0.01	414	100	6560	212	9	849	< 0.01	< 10	< 10	37	< 10	4000
TR03 096	205 276	915	< 1	< 0.01	561	330	100	< 2	14	583	< 0.01	< 10	< 10	81	< 10	222
TR03 097	205 276	960	< 1	< 0.01	522	350	240	2	16	490	< 0.01	< 10	< 10	76	< 10	388
TR03 098	205 276	1075	< 1	< 0.01	458	330	138	< 2	15	579	< 0.01	< 10	< 10	83	< 10	220



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To: GEOTEC CONSULTANTS LTD. #  
 6976 LABURNUM ST.  
 VANCOUVER, BC  
 V6P 5M9

Page Number : 4-A  
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Project : PLUG  
 Comments : CC: GRANT CROOKER

## CERTIFICATE OF ANALYSIS A9747080

SAMPLE	PREP CODE	Au ppb FA+AA	Au FA g/t	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Bg ppm	K %	La ppm	Mg %
TR04 115	205 276	< 5	< 0.2	0.63	12	70	< 0.5	< 2	3.85	< 0.5	34	228	22	4.18	< 10	< 1	0.10	< 10	7.99	
TR04 116	205 276	< 5	0.3	1.32	10	480	< 0.5	< 2	3.84	< 0.5	31	180	27	4.23	< 10	< 1	0.17	< 10	5.91	
TR04 117	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TR04 118	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TR04 119	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TR05 120	205 276	< 5	1.0	0.31	4	120	< 0.5	< 2	0.41	< 0.5	3	43	9	1.22	< 10	< 1	0.22	< 10	0.07	
TR05 121	205 276	10	1.6	0.30	4	230	< 0.5	< 2	0.63	< 0.5	3	63	9	1.25	< 10	< 1	0.23	< 10	0.06	
TR05 122	205 276	10	2.0	0.31	< 2	180	< 0.5	< 2	0.37	< 0.5	3	54	10	1.21	< 10	< 1	0.23	< 10	0.06	
TR05 123	205 276	10	1.6	0.35	2	180	< 0.5	< 2	0.18	< 0.5	2	73	13	1.32	< 10	< 1	0.24	< 10	0.03	
TR05 124	205 276	10	0.6	0.35	2	230	< 0.5	< 2	0.52	< 0.5	1	73	23	1.12	< 10	< 1	0.24	< 10	0.04	
TR05 125	205 276	10	0.2	0.31	< 2	250	< 0.5	< 2	0.65	< 0.5	2	51	16	1.09	< 10	< 1	0.21	< 10	0.06	
TR05 126	205 276	15	0.6	0.29	4	170	< 0.5	< 2	0.17	< 0.5	2	52	12	1.22	< 10	< 1	0.17	< 10	0.03	

CERTIFICATION:



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To: GEOTEC CONSULTANTS LTD. #  
 6976 LABURNUM ST.  
 VANCOUVER, BC  
 V6P 5M9

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 Certificate Date : 24-OCT-97  
 Invoice No : 19747080  
 P.O. Number : 020  
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Project : PLUG  
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## CERTIFICATE OF ANALYSIS A9747080

SAMPLE	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
TR04 115	205 276	740	< 1	< 0.01	502	430	2	2	14	166	< 0.01	< 10	10	67	< 10	14
TR04 116	205 276	725	< 1	0.05	320	1080	6	< 2	14	267	0.04	< 10	< 10	97	< 10	42
TR04 117	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TR04 118	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TR04 119	-- --	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd	NotRcd
TR05 120	205 276	820	< 1	0.02	9	460	10	< 2	< 1	32	< 0.01	< 10	< 10	3	< 10	16
TR05 121	205 276	740	3	0.01	10	430	14	< 2	< 1	45	< 0.01	< 10	< 10	3	< 10	16
TR05 122	205 276	630	2	0.02	8	430	18	< 2	< 1	28	< 0.01	< 10	< 10	3	< 10	12
TR05 123	205 276	430	< 1	0.03	6	410	16	< 2	< 1	34	< 0.01	< 10	< 10	3	< 10	14
TR05 124	205 276	495	2	0.03	6	390	10	< 2	< 1	41	< 0.01	< 10	< 10	3	< 10	14
TR05 125	205 276	495	< 1	0.04	5	400	8	< 2	< 1	36	< 0.01	< 10	< 10	3	< 10	16
TR05 126	205 276	710	< 1	0.05	6	420	6	< 2	< 1	14	< 0.01	< 10	< 10	3	< 10	18

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To: GEOTEC CONSULTANTS LTD.  
6976 LABURNUM ST.  
VANCOUVER, BC  
V6P 5M9  
Project: PLUG  
Comments: CC: GRANT CROOKER

Page Number : 1  
Total : 1  
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Date: 29-OCT-97  
Invoice No. : 19748022  
P.O. Number : 020  
Account : LOY

## CERTIFICATE OF ANALYSIS A9748022

SAMPLE	PREP CODE	Ag FA g/t	Pb %	Zn %						
TR02 050	244	113	-----	-----						
TR03 090	244	175	-----	-----						
TR03 091	244	100	-----	-----						
TR03 093	244	1715	1.63	2.65						
TR03 095	244	412	-----	-----						
TR03 106	244	161	-----	-----						

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 British Columbia, Canada V7J 2C1  
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 V6P 5M9

Project: PLUG  
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Page Number: 4 A  
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 Certificate Date: 24-OCT-97  
 Invoice No: 19747080  
 P.O. Number: 020  
 Account: LOY

## CERTIFICATE OF ANALYSIS A9747080

SAMPLE	PREP CODE	Au ppb FA+AA	Au FA g/t	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Cu %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Bg ppm	K %	La ppm	Mg %
TR04 115	205 276	< 5	< 0.2	0.63	12	70	< 0.5	< 2	3.85	< 0.5	34	228	22	4.18	< 10	< 1	0.10	< 10	7.99	
TR04 116	205 276	< 5	0.2	1.32	10	480	< 0.5	< 2	3.84	< 0.5	31	180	27	4.23	< 10	< 1	0.17	< 10	5.91	
TR04 117	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	
TR04 118	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	
TR04 119	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	
TR05 120	205 276	< 5	1.0	0.31	4	120	< 0.5	< 2	0.41	< 0.5	3	63	9	1.22	< 10	< 1	0.22	< 10	0.07	
TR05 121	205 276	10	1.6	0.30	4	230	< 0.5	< 2	0.63	< 0.5	3	63	9	1.25	< 10	< 1	0.23	< 10	0.06	
TR05 122	205 276	30	2.0	0.31	< 2	180	< 0.5	< 2	0.37	< 0.5	3	54	10	1.21	< 10	< 1	0.23	< 10	0.06	
TR05 123	205 276	20	1.6	0.35	2	180	< 0.5	< 2	0.48	< 0.5	2	73	13	1.22	< 10	< 1	0.24	< 10	0.03	
TR05 124	205 276	10	0.6	0.35	2	230	< 0.5	< 2	0.52	< 0.5	1	73	23	1.12	< 10	< 1	0.24	< 10	0.04	
TR05 125	205 276	10	0.2	0.31	< 2	250	< 0.5	< 2	0.65	< 0.5	2	51	16	1.09	< 10	< 1	0.31	< 10	0.06	
TR05 126	205 276	15	0.6	0.29	4	170	< 0.5	< 2	0.17	< 0.5	2	52	12	1.22	< 10	< 1	0.17	< 10	0.03	

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To: GEOTEC CONSULTANTS LTD.

6976 LABURNUM ST.  
 VANCOUVER, BC  
 V6P 5M9

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 Account: LOY

## CERTIFICATE OF ANALYSIS A9747080

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Se ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
TR04 115	205 276	740	< 1	< 0.01	502	430	2	2	14	166	< 0.01	< 10	10	67	< 10	14
TR04 116	205 276	735	< 1	0.05	320	1080	6	< 2	14	267	0.04	< 10	< 10	97	< 10	42
TR04 117	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
TR04 118	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
TR04 119	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
TR05 120	205 276	820	< 1	0.02	9	460	10	< 2	< 1	32	< 0.01	< 10	< 10	3	< 10	16
TR05 121	205 276	740	3	0.01	10	430	14	< 2	< 1	45	< 0.01	< 10	< 10	3	< 10	16
TR05 122	205 276	630	2	0.02	8	430	18	< 2	< 1	28	< 0.01	< 10	< 10	3	< 10	12
TR05 123	205 276	430	< 1	0.03	6	410	16	< 2	< 1	34	< 0.01	< 10	< 10	3	< 10	14
TR05 124	205 276	495	2	0.03	6	390	10	< 2	< 1	41	< 0.01	< 10	< 10	3	< 10	14
TR05 125	205 276	495	< 1	0.04	5	400	8	< 2	< 1	36	< 0.01	< 10	< 10	3	< 10	16
TR05 126	205 276	710	< 1	0.05	6	420	6	< 2	< 1	14	< 0.01	< 10	< 10	3	< 10	18

CERTIFICATION:



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOTEC CONSULTANTS LTD.  
 6976 LABURNUM ST.  
 VANCOUVER, BC  
 V6P 5M9

Project: PLUG  
 Comments: CC: GRANT CROOKER

Page Number: 1 A  
 Total Pages: 1  
 Certificate Date: 25 NOV 97  
 Invoice No: 19751408  
 P.O. Number:  
 Account: LOY

## CERTIFICATE OF ANALYSIS A9751408

SAMPLE	PREP CODE	Au ppb 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	Bg ppm	K %	La ppm	Mg %	Nn ppm
PL97-01 005-010	205 226	350 >100.0	1.27	216	10 < 0.5	< 2	3.19	39.5	43	824	259	4.28	< 10	< 1	0.01	< 10	9.88	855		
PL97-01 010-020	205 226	330	80.4	1.80	64	10 < 0.5	< 2	3.92	13.8	42	977	183	4.20	< 10	< 1	0.03	< 10	9.81	940	
PL97-01 020-025	205 226	85	38.4	1.19	108	10 < 0.5	< 2	2.95	2.0	46	805	95	4.43	< 10	< 1	0.06	< 10	10.45	865	
PL97-01 025-030	205 226	< 5	8.6	1.20	14	520 < 0.5	< 2	2.89	< 0.5	47	611	35	4.33	< 10	< 1	0.04	< 10	10.75	825	
PL97-01 030-040	205 226	< 5	4.4	1.14	58	330 < 0.5	< 2	3.09	< 0.5	47	560	29	4.23	< 10	< 1	0.03	< 10	10.65	800	
PL97-01 040-050	205 226	< 5	8.6	1.08	28	50 < 0.5	< 2	3.62	< 0.5	39	703	21	3.75	< 10	< 1	< 0.01	< 10	8.91	875	
PL97-01 050-060	205 226	20	11.4	1.15	10	50 < 0.5	< 2	3.46	0.5	38	853	40	3.52	< 10	< 1	< 0.01	< 10	8.00	835	
PL97-01 060-070	205 226	230	>100.0	1.55	118	< 10 < 0.5	< 2	3.29	14.5	45	914	209	3.31	< 10	< 1	< 0.01	< 10	6.71	825	
PL97-01 070-080	205 226	215	2.6	0.94	18	90 < 0.5	< 2	1.52	1.5	6	46	76	2.38	< 10	< 1	0.24	< 10	1.03	705	
PL97-01 080-090	205 226	30	1.4	2.03	2	140 < 0.5	< 2	3.64	0.5	22	684	42	3.44	< 10	< 1	0.04	< 10	5.08	980	
PL97-01 090-100	205 226	< 5	2.2	2.74	2	1370 < 0.5	< 2	3.76	< 0.5	34	840	56	4.04	< 10	< 1	0.81	< 10	7.27	890	
PL97-01 100-110	205 226	35	26.0	2.70	10	370 < 0.5	< 2	3.60	< 0.5	36	1105	73	3.70	< 10	< 1	1.85	< 10	6.87	880	
PL97-01 110-120	205 226	5	5.4	2.52	4	610 < 0.5	< 2	3.20	< 0.5	31	676	95	3.47	< 10	< 1	1.14	< 10	6.53	775	
PL97-01 120-130	205 226	< 5	1.6	2.53	< 2	1100 < 0.5	< 2	3.58	< 0.5	30	695	43	3.57	< 10	< 1	0.92	< 10	6.86	845	
PL97-01 130-140	205 226	10	2.2	2.39	10	370 < 0.5	< 2	3.91	< 0.5	33	753	37	3.60	< 10	< 1	0.91	< 10	6.68	905	
PL97-01 140-150	205 226	10	2.8	2.63	6	530 < 0.5	< 2	3.70	< 0.5	36	807	41	3.94	< 10	< 1	1.10	< 10	7.20	855	
PL97-01 150-160	205 226	< 5	1.2	2.83	< 2	740 < 0.5	< 2	3.26	< 0.5	35	750	51	6.18	< 10	< 1	1.08	< 10	7.24	780	

CERTIFICATION: LOY



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOTEC CONSULTANTS LTD.  
 6976 LABURNUM ST.  
 VANCOUVER, BC  
 V6P 5M9

Project: PLUG  
 Comments: CC: GRANT CROOKER

Page Number: 1 B  
 Total Pages: 1  
 Certificate Date: 25 NOV 97  
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 P.O. Number:  
 Account: LOY

## CERTIFICATE OF ANALYSIS A9751408

SAMPLE	PREP CODE	Mo ppm	Mn %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
PL97-01 005-010	205 226	< 1	< 0.01	566	290	1620	60	13	442	< 0.01	< 10	< 10	67	< 10	2330
PL97-01 010-020	205 226	< 1	< 0.01	565	260	912	24	13	633	< 0.01	< 10	< 10	74	< 10	988
PL97-01 020-025	205 226	< 1	< 0.01	579	270	132	14	13	422	< 0.01	< 10	< 10	68	< 10	236
PL97-01 025-030	205 226	< 1	< 0.01	574	320	18	< 2	13	381	< 0.01	< 10	< 10	57	< 10	56
PL97-01 030-040	205 226	< 1	< 0.01	559	390	22	< 2	12	386	< 0.01	< 10	< 10	54	< 10	66
PL97-01 040-050	205 226	< 1	< 0.01	451	280	40	< 2	12	476	< 0.01	< 10	< 10	61	< 10	66
PL97-01 050-060	205 226	< 1	< 0.01	426	290	106	< 2	13	362	< 0.01	< 10	< 10	69	< 10	68
PL97-01 060-070	205 226	< 1	< 0.01	385	280	1035	12	13	390	< 0.01	< 10	< 10	72	< 10	948
PL97-01 070-080	205 226	3	0.04	39	840	56	< 2	1	99	< 0.01	< 10	< 10	14	< 10	130
PL97-01 080-090	205 226	1	0.02	250	440	28	< 2	13	444	< 0.01	< 10	< 10	70	< 10	76
PL97-01 090-100	205 226	< 1	0.10	364	340	6	2	16	458	0.04	< 10	< 10	95	< 10	42
PL97-01 100-110	205 226	< 1	0.08	377	320	252	< 2	17	488	0.07	< 10	< 10	96	< 10	80
PL97-01 110-120	205 226	< 1	0.11	322	350	82	< 2	15	327	0.06	< 10	< 10	86	< 10	22
PL97-01 120-130	205 226	< 1	0.12	338	330	8	< 2	15	354	0.04	< 10	< 10	84	< 10	18
PL97-01 130-140	205 226	< 1	0.09	330	320	26	6	16	470	0.04	< 10	< 10	83	< 10	58
PL97-01 140-150	205 226	< 1	0.12	388	330	30	2	12	410	0.05	< 10	< 10	87	< 10	42
PL97-01 150-160	205 226	< 1	0.12	397	340	12	< 2	6	321	0.07	< 10	< 10	93	< 10	28

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PHONE: 604-984-0221 FAX: 604-984-0218

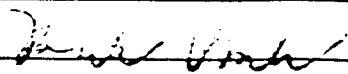
To: GEOTEC CONSULTANTS LTD. ##  
6976 LABURNUM ST.  
VANCOUVER, BC  
V6P 5M9  
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Comments: CC: GRANT CROOKER

Page Number : 1  
Total Pages : 1  
Certi Date: 27-NOV-97  
Invoice No. : 19751879  
P.O. Number :  
Account : LOY

## CERTIFICATE OF ANALYSIS

A9751879

SAMPLE	PREP CODE	Ag FA g/t												
PL97-01 005-010	244 --	168												
PL97-01 060-070	244 --	113												

CERTIFICATION: 





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212 Brooksbank Ave. North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE 604-984-0221 FAX 604-984-0218

To: GEOTEC CONSULTANTS LTD.

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VANCOUVER, BC  
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Project: PLUG  
Comments: CC: GRANT CROOKER

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Invoice No 19751414  
P.O. Number  
Account LOY

## CERTIFICATE OF ANALYSIS A9751414

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Bb ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Bg ppm	K %	La ppm	Hg %	Mn ppm
PL97-02 000-005	205 226	< 5	< 0.2	1.96	6	300	< 0.5	< 2	3.83	< 0.5	16	79	63	3.73	< 10	< 1	0.19	< 10	1.80	720
PL97-02 005-010	205 226	15	0.6	3.17	2	120	< 0.5	< 2	3.54	< 0.5	21	178	61	4.01	< 10	< 1	0.23	< 10	3.27	750
PL97-02 010-015	205 226	830	8.0	0.82	110	240	< 0.5	< 2	1.42	< 0.5	6	157	180	2.39	< 10	< 1	0.35	< 10	1.04	480
PL97-02 015-020	205 226	795	8.0	0.79	82	280	< 0.5	< 2	1.67	< 0.5	6	178	155	2.33	< 10	< 1	0.24	< 10	1.34	545
PL97-02 020-025	205 226	700	9.8	0.48	56	240	< 0.5	< 2	2.32	< 0.5	24	131	112	3.03	< 10	< 1	0.27	< 10	5.47	575
PL97-02 025-030	205 226	80	4.8	0.55	12	220	< 0.5	< 2	2.29	< 0.5	44	296	90	4.08	< 10	< 1	0.26	< 10	10.15	725
PL97-02 030-035	205 226	2810	40.2	0.41	20	180	< 0.5	< 2	2.62	< 0.5	45	240	132	4.05	< 10	< 1	0.23	< 10	10.30	710
PL97-02 035-040	205 226	2580	38.2	0.33	6	100	< 0.5	< 2	2.33	< 0.5	41	262	72	3.71	< 10	< 1	0.17	< 10	9.53	665
PL97-02 040-045	205 226	55	5.8	0.59	16	270	< 0.5	< 2	4.00	< 0.5	67	249	43	4.17	< 10	< 1	0.22	< 10	10.25	735
PL97-02 045-050	205 226	35	1.4	2.30	2	1000	< 0.5	< 2	3.93	< 0.5	41	545	43	4.00	< 10	< 1	0.37	< 10	9.44	715
PL97-02 050-055	205 226	< 5	< 0.2	3.27	4	240	< 0.5	< 2	2.89	< 0.5	42	621	44	4.34	< 10	< 1	2.12	< 10	8.76	685
PL97-02 055-060	205 226	< 5	< 0.2	2.75	6	320	< 0.5	< 2	2.50	< 0.5	38	441	37	3.67	< 10	< 1	0.90	< 10	8.80	690
PL97-02 060-065	205 226	< 5	< 0.2	3.17	2	390	< 0.5	< 2	3.66	< 0.5	35	650	31	3.77	< 10	< 1	0.18	< 10	9.10	805
PL97-02 065-070	205 226	< 5	< 0.2	1.93	2	390	< 0.5	< 2	3.65	< 0.5	36	595	32	3.56	< 10	< 1	0.12	< 10	8.17	730
PL97-02 070-075	205 226	< 5	< 0.2	2.21	2	420	< 0.5	< 2	3.41	< 0.5	36	576	31	3.59	< 10	< 1	0.18	< 10	8.04	800
PL97-02 075-080	205 226	< 5	0.2	2.43	2	420	< 0.5	< 2	3.71	< 0.5	36	764	42	3.94	< 10	< 1	0.26	< 10	8.07	810
PL97-02 080-085	205 226	< 5	< 0.2	2.60	4	560	< 0.5	< 2	3.33	< 0.5	39	711	47	4.11	< 10	< 1	0.26	< 10	8.75	885
PL97-02 085-090	205 226	< 5	< 0.2	2.74	2	490	< 0.5	< 2	3.53	< 0.5	36	534	33	3.73	< 10	< 1	0.17	< 10	8.16	815
PL97-02 090-095	205 226	< 5	< 0.2	2.25	2	530	< 0.5	< 2	3.73	< 0.5	36	505	28	3.47	< 10	< 1	1.39	< 10	7.79	685
PL97-02 095-100	205 226	< 5	< 0.2	2.70	6	210	< 0.5	< 2	2.76	< 0.5	36	490	55	3.70	< 10	< 1	0.18	< 10	5.18	705
PL97-02 100-105	205 226	< 5	2.0	1.73	2	130	< 0.5	< 2	4.86	< 0.5	28	435	64	3.32	< 10	< 1	0.41	< 10	6.70	755
PL97-02 105-110	205 226	< 5	0.4	1.94	2	470	< 0.5	< 2	4.35	< 0.5	32	565	54	3.44	< 10	< 1	0.26	< 10	7.79	720
PL97-02 110-115	205 226	< 5	0.2	2.14	2	510	< 0.5	< 2	3.45	< 0.5	34	546	41	3.63	< 10	< 1	0.17	< 10	5.44	805
PL97-02 115-120	205 226	< 5	0.6	1.29	10	370	< 0.5	< 2	6.87	< 0.5	30	567	38	3.02	< 10	< 1	0.18	< 10	5.18	705
PL97-02 120-125	205 226	< 5	1.2	1.22	8	710	< 0.5	< 2	7.70	< 0.5	31	591	36	3.13	< 10	< 1	0.14	< 10	5.85	755
PL97-02 125-130	205 226	< 5	0.2	1.45	2	1790	< 0.5	< 2	6.25	< 0.5	32	667	23	3.66	< 10	< 1	0.14	< 10	6.18	745
PL97-02 130-135	205 226	< 5	0.2	1.93	2	550	< 0.5	< 2	5.48	< 0.5	37	597	34	4.30	< 10	< 1	0.21	< 10	6.70	765
PL97-02 135-140	205 226	< 5	0.2	1.69	2	550	< 0.5	< 2	4.57	< 0.5	33	677	35	3.88	< 10	< 1	0.35	< 10	6.90	775
PL97-02 140-145	205 226	< 5	0.6	0.69	2	670	< 0.5	< 2	6.94	< 0.5	35	522	21	3.92	< 10	< 1	0.29	< 10	8.26	770
PL97-02 145-150	205 226	15	< 0.2	1.23	2	400	< 0.5	< 2	3.30	< 0.5	36	654	24	4.12	< 10	< 1	0.55	< 10	8.21	730
PL97-02 150-155	205 226	< 5	0.2	1.44	2	350	< 0.5	< 2	3.76	< 0.5	35	700	22	3.93	< 10	< 1	0.25	< 10	7.64	770
PL97-02 155-160	205 226	< 5	0.2	1.09	2	500	< 0.5	< 2	6.75	< 0.5	37	594	30	4.09	< 10	< 1	0.17	< 10	7.78	930
PL97-02 160-165	205 226	< 5	< 0.2	1.19	2	120	< 0.5	< 2	1.23	< 0.5	42	434	59	4.28	< 10	< 1	3.31	< 10	8.01	590
PL97-02 165-170	205 226	< 5	< 0.2	1.60	2	200	< 0.5	< 2	1.33	< 0.5	38	303	48	4.25	< 10	< 1	3.24	< 10	8.06	575
PL97-02 170-175	205 226	< 5	< 0.2	3.80	2	420	< 0.5	< 2	1.38	< 0.5	40	266	62	4.46	< 10	< 1	3.93	< 10	9.43	620
PL97-02 175-180	205 226	< 5	< 0.2	4.26	6	160	< 0.5	< 2	1.16	< 0.5	45	397	33	4.79	< 10	< 1	1.68	< 10	8.97	565
PL97-02 180-185	205 226	< 5	< 0.2	3.20	2	90	< 0.5	< 2	2.18	< 0.5	44	392	53	4.18	< 10	< 1	1.14	< 10	9.01	580
PL97-02 185-190	205 226	< 5	< 0.2	3.18	2	140	< 0.5	< 2	2.40	< 0.5	42	332	64	4.08	< 10	< 1	1.05	< 10	9.44	575
PL97-02 190-195	205 226	< 5	< 0.2	3.35	2	50	< 0.5	< 2	1.41	< 0.5	45	369	55	4.28	< 10	< 1	0.87	< 10	9.26	580
PL97-02 195-200	205 226	< 5	< 0.2	3.23	2	100	< 0.5	< 2	1.35	< 0.5	43	336	57	4.09	< 10	< 1	0.87	< 10	9.26	580

CERTIFICATION: *[Signature]*



# Chemex Labs Ltd.

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212 Brooksbank Ave. North Vancouver  
British Columbia, Canada V7J 2C1  
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To: GEOTEC CONSULTANTS LTD.

6976 LABURNUM ST.  
VANCOUVER, BC  
V6P 5M9

Project: PLUG  
Comments: CC: GRANT CROOKER

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Certificate Date 25-NOV-97  
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Account LOY

## CERTIFICATE OF ANALYSIS A9751414

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Se ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
PL97-02 000-005	205 226	7	0.03	41	1230	2	< 2	9	156	0.14	< 10	10	115	< 10	52
PL97-02 005-010	205 226	1	0.04	133	1070	2	< 2	10	201	0.14	< 10	10	113	< 10	52
PL97-02 010-015	205 226	3	0.01	34	850	4	12	3	113	< 0.01	< 10	< 10	16	< 10	14
PL97-02 015-020	205 226	3	0.01	46	790	4	8	3	136	< 0.01	< 10	< 10	18	< 10	14
PL97-02 020-025	205 226	2	< 0.01	288	510	8	12	6	231	< 0.01	< 10	< 10	22	< 10	16
PL97-02 025-030	205 226	< 1	< 0.01	899	300	6	6	11	222	< 0.01	< 10	< 10	40	< 10	38
PL97-02 030-035	205 226	< 1	< 0.01	608	250	10	2	10	244	< 0.01	< 10	< 10	36	< 10	28
PL97-02 035-040	205 226	< 1	< 0.01	374	220	16	8	9	167	< 0.01	< 10	< 10	35	< 10	24
PL97-02 040-045	205 226	< 1	0.01	619	250	8	< 2	11	280	< 0.01	< 10	< 10	74	< 10	30
PL97-02 045-050	205 226	< 1	0.11	573	450	< 2	2	10	562	0.03	< 10	< 10	74	< 10	38
PL97-02 050-055	205 226	< 1	0.16	801	550	< 2	< 2	4	674	0.11	< 10	< 10	57	< 10	26
PL97-02 055-060	205 226	< 1	0.16	491	420	< 2	2	5	602	0.02	< 10	< 10	64	< 10	18
PL97-02 060-065	205 226	< 1	0.10	453	320	< 2	2	7	750	< 0.01	< 10	< 10	64	< 10	16
PL97-02 065-070	205 226	< 1	0.09	413	300	< 2	2	6	616	< 0.01	< 10	< 10	60	< 10	16
PL97-02 070-075	205 226	< 1	0.11	435	390	< 2	2	4	673	< 0.01	< 10	< 10	60	< 10	16
PL97-02 075-080	205 226	< 1	0.13	441	460	< 2	2	4	765	< 0.01	< 10	< 10	60	< 10	24
PL97-02 080-085	205 226	< 1	0.17	425	370	< 2	2	6	678	< 0.01	< 10	< 10	49	< 10	16
PL97-02 085-090	205 226	< 1	0.16	425	380	< 2	2	5	685	< 0.01	< 10	< 10	48	< 10	14
PL97-02 090-095	205 226	< 1	0.14	427	380	< 2	2	5	705	< 0.01	<				



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SAMPLE	PREP CODE	Au ppb 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
PL97-02 200-205	205 226	< 5	< 0.2	3.01	2	160	< 0.5	< 2	1.44	< 0.5	49	385	53	4.48	10	< 1	0.50	< 10	10.05	630
PL97-02 205-210	205 226	< 5	< 0.2	2.87	< 2	310	< 0.5	2	1.66	< 0.5	51	422	48	4.29	10	< 1	0.43	< 10	10.70	705
PL97-02 210-220	205 226	< 5	< 0.2	3.38	< 2	190	< 0.5	< 2	1.00	< 0.5	47	465	62	4.89	10	< 1	2.04	< 10	9.55	665
PL97-02 220-230	205 226	< 5	3.2	2.73	2	240	< 0.5	< 2	1.51	< 0.5	50	428	50	4.37	10	< 1	0.32	< 10	11.10	640
PL97-02 230-240	205 226	< 5	< 0.2	2.59	< 2	10	< 0.5	< 2	0.90	< 0.5	57	671	44	4.61	10	< 1	0.20	< 10	12.75	595
PL97-02 240-250	205 226	< 5	< 0.2	2.83	8	80	< 0.5	< 2	1.77	< 0.5	53	557	46	4.85	10	< 1	0.40	< 10	11.40	670

CERTIFICATION: \_\_\_\_\_



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOTEC CONSULTANTS LTD.

6976 LABURNUM ST.  
VANCOUVER, BC  
V6P 5M9

Project: PLUG  
Comments: CC: GRANT CROOKER

Page Number: 2 B  
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Certificate Date: 25 NOV 97  
Invoice No.: 19751414  
P.O. Number:  
Account: LOY

## CERTIFICATE OF ANALYSIS A9751414

SAMPLE	PREP CODE	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
PL97-02 200-205	205 226	< 1	0.31	583	410	< 2	< 2	7	480	0.08	< 10	< 10	98	< 10	40
PL97-02 205-210	205 226	< 1	0.29	494	420	< 2	2	6	504	0.06	< 10	< 10	96	< 10	38
PL97-02 210-220	205 226	< 1	0.23	555	580	< 2	< 2	9	392	0.11	< 10	< 10	108	< 10	42
PL97-02 220-230	205 226	< 1	0.30	478	390	2	< 2	6	520	0.06	< 10	< 10	90	< 10	34
PL97-02 230-240	205 226	< 1	0.27	776	380	< 2	< 2	8	496	0.06	< 10	< 10	89	< 10	36
PL97-02 240-250	205 226	< 1	0.33	697	410	< 2	< 2	7	592	0.08	< 10	< 10	92	< 10	38

CERTIFICATION: \_\_\_\_\_



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 British Columbia, Canada V7J 2C1  
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6976 LABURNUM ST.  
 VANCOUVER, BC  
 V6P 5M9

Project: PLUG  
 Comments: CC GRANT CROOKER

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 Total Pages: 1  
 Certificate Date: 26 NOV 97  
 Invoice No: 19751409  
 P.O. Number:  
 Account: LOY

## CERTIFICATE OF ANALYSIS A9751409

SAMPLE	PREP CODE	Au ppb		Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
		FA-AA	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%	ppm
PL97-03 000-005	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
PL97-03 005-010	205 226	< 5	< 0.2	1.92	8	190	< 0.5	< 2	2.90	< 0.5	16	72	59	3.55	< 10	< 1	0.21	< 10	1.70	690	
PL97-03 010-015	205 226	< 5	0.2	1.78	8	210	< 0.5	< 2	2.87	< 0.5	17	135	57	3.52	< 10	< 1	0.20	< 10	2.14	645	
PL97-03 015-020	205 226	< 5	< 0.2	2.13	6	380	< 0.5	< 2	1.12	< 0.5	21	125	29	4.03	< 10	< 1	0.21	< 10	3.45	405	
PL97-03 020-025	205 226	< 5	< 0.2	2.01	4	750	< 0.5	< 2	2.64	< 0.5	40	507	32	3.72	< 10	< 1	0.10	< 10	8.91	790	
PL97-03 025-030	205 226	< 5	< 0.2	2.28	2	660	< 0.5	< 2	2.71	< 0.5	49	714	38	4.11	< 10	< 1	0.11	< 10	11.25	905	
PL97-03 030-035	205 226	< 5	< 0.2	2.19	< 2	390	< 0.5	< 2	2.49	< 0.5	52	675	43	4.12	< 10	< 1	0.16	< 10	10.65	800	
PL97-03 035-040	205 226	< 5	< 0.2	2.60	< 2	440	< 0.5	< 2	2.89	< 0.5	42	616	43	3.93	< 10	< 1	0.24	< 10	9.62	780	
PL97-03 040-045	205 226	< 5	< 0.2	2.24	4	190	< 0.5	< 2	2.39	< 0.5	49	556	38	3.85	< 10	< 1	0.12	< 10	10.15	755	
PL97-03 045-050	205 226	< 5	< 0.2	2.15	2	110	< 0.5	< 2	4.16	< 0.5	42	541	36	3.63	< 10	< 1	0.08	< 10	9.41	890	
PL97-03 050-055	205 226	< 5	< 0.2	2.53	8	160	< 0.5	< 2	2.64	< 0.5	30	267	48	4.03	< 10	< 1	0.19	< 10	6.06	610	
PL97-03 055-060	205 226	825	11.0	3.35	4	90	< 0.5	< 2	4.20	< 0.5	42	531	97	4.16	< 10	< 1	0.33	< 10	8.22	810	
PL97-03 060-065	205 226	< 5	0.2	1.84	12	450	< 0.5	< 2	4.55	< 0.5	32	433	41	3.85	< 10	< 1	0.34	< 10	7.02	845	
PL97-03 065-070	205 226	< 5	< 0.2	2.13	2	230	< 0.5	< 2	3.52	< 0.5	41	359	44	3.89	< 10	< 1	0.61	< 10	9.25	680	
PL97-03 070-075	205 226	< 5	< 0.2	2.81	< 2	260	< 0.5	< 2	2.31	< 0.5	46	536	47	4.18	< 10	< 1	0.48	< 10	10.05	645	
PL97-03 075-080	205 226	< 5	< 0.2	3.29	< 2	660	< 0.5	< 2	2.81	< 0.5	43	535	98	4.31	< 10	< 1	1.78	< 10	8.64	660	
PL97-03 080-085	205 226	< 5	< 0.2	3.00	< 2	410	< 0.5	< 2	3.70	< 0.5	40	518	65	4.15	< 10	< 1	1.33	< 10	8.39	855	
PL97-03 085-090	205 226	< 5	< 0.2	2.78	< 2	450	< 0.5	< 2	3.50	< 0.5	43	605	54	4.00	< 10	< 1	0.78	< 10	8.57	835	
PL97-03 090-095	205 226	< 5	< 0.2	2.89	10	280	< 0.5	< 2	2.97	< 0.5	43	654	50	4.27	< 10	< 1	1.26	< 10	8.52	770	
PL97-03 095-100	205 226	< 5	0.4	1.95	6	290	< 0.5	< 2	4.03	< 0.5	33	540	30	3.61	< 10	< 1	0.36	< 10	6.70	785	
PL97-03 100-105	205 226	< 5	0.6	2.51	< 2	380	< 0.5	< 2	3.72	< 0.5	41	755	37	4.07	< 10	< 1	0.67	< 10	7.65	770	
PL97-03 105-110	205 226	< 5	< 0.2	2.76	3	430	< 0.5	< 2	4.08	< 0.5	43	773	71	4.27	< 10	< 1	1.70	< 10	8.59	900	
PL97-03 110-115	205 226	< 5	< 0.2	2.21	< 2	200	< 0.5	< 2	3.04	< 0.5	44	648	62	4.30	< 10	< 1	2.38	< 10	8.39	805	
PL97-03 115-120	205 226	< 5	< 0.2	3.12	14	110	< 0.5	< 2	2.66	< 0.5	42	541	47	4.12	< 10	< 1	2.40	< 10	8.03	685	
PL97-03 120-125	205 226	< 5	< 0.2	3.06	2	120	< 0.5	< 2	2.90	< 0.5	42	563	49	4.21	< 10	< 1	2.19	< 10	8.17	700	
PL97-03 125-130	205 226	< 5	< 0.2	2.88	< 2	130	< 0.5	< 2	1.80	< 0.5	46	407	48	4.13	< 10	< 1	0.66	< 10	9.27	610	
PL97-03 130-135	205 226	< 5	< 0.2	3.20	10	70	< 0.5	< 2	1.51	< 0.5	46	434	50	4.41	< 10	< 1	1.54	< 10	9.80	640	
PL97-03 135-140	205 226	< 5	< 0.2	2.80	< 2	170	< 0.5	< 2	1.57	< 0.5	52	405	42	4.29	< 10	< 1	0.77	< 10	10.65	665	
PL97-03 140-145	205 226	< 5	< 0.2	2.98	< 2	160	< 0.5	< 2	1.78	< 0.5	53	437	52	4.82	< 10	< 1	0.71	< 10	11.40	710	
PL97-03 145-150	205 226	< 5	< 0.2	3.02	6	70	< 0.5	< 2	2.77	< 0.5	45	460	53	4.26	< 10	< 1	0.54	< 10	9.32	725	
PL97-03 150-160	205 226	< 5	< 0.2	3.65	< 2	50	< 0.5	< 2	1.48	< 0.5	49	359	57	4.37	< 10	< 1	1.11	< 10	10.05	645	
PL97-03 160-170	205 226	< 5	< 0.2	3.25	4	70	< 0.5	< 2	1.38	< 0.5	48	353	63	4.40	< 10	< 1	0.60	< 10	9.88	640	
PL97-03 170-180	205 226	< 5	< 0.2	2.61	8	40	< 0.5	< 2	1.99	< 0.5	52	494	44	4.40	< 10	< 1	0.20	< 10	11.55	680	
PL97-03 180-190	205 226	< 5	0.2	3.05	10	170	< 0.5	< 2	1.39	< 0.5	53	402	54	4.82	< 10	< 1	0.35	< 10	11.70	680	
PL97-03 190-200	205 226	< 5	< 0.2	3.12	16	530	< 0.5	< 2	2.09	< 0.5	57	429	53	4.84	< 10	< 1	0.72	< 10	11.55	735	
PL97-03 200-210	205 226	< 5	< 0.2	3.09	12	180	< 0.5	< 2	3.17	< 0.5	45	515	50	4.26	< 10	< 1	0.51	< 10	9.77	775	
PL97-03 210-220	205 226	< 5	< 0.2	2.87	2	430	< 0.5	< 2	3.18	< 0.5	42	679	54	4.03	< 10	< 1	0.25	< 10	9.50	830	
PL97-03 220-230	205 226	< 5	< 0.2	2.52	< 2	380	< 0.5	< 2	3.40	< 0.5	38	648	47	3.70	< 10	< 1	0.14	< 10	8.89	815	
PL97-03 230-240	205 226	< 5	< 0.2	2.26	2	350	< 0.5	< 2	3.33	< 0.5	34	538	44	3.54	< 10	< 1	0.14	< 10	7.40	835	
PL97-03 240-250	205 226	< 5	< 0.2	2.07	2	450	< 0.5	< 2	3.00	< 0.5	32	436	57	3.47	< 10	< 1	0.18	< 10	6.88	740	

CERTIFICATION: [Signature]



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Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave. North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOTEC CONSULTANTS LTD.

6976 LABURNUM ST.  
 VANCOUVER, BC  
 V6P 5M9

Project: PLUG  
 Comments: CC GRANT CROOKER

Page Number: 1-B  
 Total Pages: 1  
 Certificate Date: 26 NOV 97  
 Invoice No: 19751409  
 P.O. Number:  
 Account: LOY

## CERTIFICATE OF ANALYSIS A9751409

SAMPLE	PREP CODE	Mo		Na	Ni	P	Pb	Sb	Sc	Sr	Tl	Tl	U	V	W	In
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
PL97-03 000-005	-- --	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed	NotRed
PL97-03 005-010	205 226	1	0.04	37	1240	< 2	< 2	7	109	0.12	< 10	< 10	107	< 10	58	
PL97-03 010-015	205 226	3	0.04	81	1270	6	< 2	7	109	0.11	< 10	< 10	100	< 10	44	
PL97-03 015-020	205 226	1	0.04	68	1700	< 2	< 2	7	96	0.10	< 10	< 10	116	< 10	72	
PL97-03 020-025	205 226	< 1	0.01	455	570	< 2	< 2	10	260	0.03	< 10	< 10	77	< 10	30	
PL97-03 025-030	205 226	< 1	0.01	606	390	< 2	< 2	11	331	0.03	< 10	< 10	77	< 10	28	
PL97-03 030-035	205 226	< 1	0.02	595	400	< 2	< 2	13	317	0.03	< 10	< 10	79	< 10	28	
PL97-03 035-040	205 226	< 1	0.03	510	410	< 2	< 2	7	357	0.01	< 10	< 10	68	< 10	22	
PL97-03 040-045	205 226	< 1	0.03	549	350	< 2	< 2	11	303	0.01	< 10	< 10	69	< 10	24	
PL97-																



# Chemex Labs Ltd.

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212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
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To: GEOTEC CONSULTANTS LTD.

6976 LABURNUM ST.  
VANCOUVER, BC  
V6P 5M9

Project: PLUG  
Comments: CC GRANT CROOKER

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Invoice No 19751410  
P.O. Number  
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## CERTIFICATE OF ANALYSIS A9751410

SAMPLE	PREP CODE	Au ppb 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	Bg ppm	K %	La ppm	Mg %	Mn ppm
PL97-04 000-005	205 226	< 5	< 0.2	2.18	2	190	< 0.5	< 2	3.72	< 0.5	19	117	67	3.66	< 10	1	0.20	< 10	2.12	740
PL97-04 005-010	205 226	10	0.2	1.89	2	650	< 0.5	< 2	3.40	< 0.5	32	335	62	3.79	< 10	< 1	0.27	< 10	6.34	715
PL97-04 010-015	205 226	< 5	< 0.2	2.69	< 2	1600	< 0.5	< 2	3.17	< 0.5	36	384	56	3.92	< 10	< 1	0.51	< 10	7.54	700
PL97-04 015-020	205 226	< 5	< 0.2	2.51	6	110	< 0.5	< 2	2.98	< 0.5	35	427	51	3.54	< 10	< 1	0.45	< 10	7.65	660
PL97-04 020-025	205 226	< 5	0.2	0.64	12	290	< 0.5	< 2	1.08	< 0.5	9	73	135	2.30	< 10	< 1	0.17	< 10	2.37	485
PL97-04 025-030	205 226	< 5	< 0.2	1.96	8	290	< 0.5	< 2	4.42	< 0.5	30	398	56	3.62	< 10	< 1	0.18	< 10	6.71	780
PL97-04 030-035	205 226	< 5	< 0.2	2.31	2	770	< 0.5	< 2	4.16	< 0.5	26	262	66	3.76	< 10	< 1	0.21	< 10	5.97	730
PL97-04 035-040	205 226	< 5	< 0.2	2.71	22	630	< 0.5	< 2	3.15	< 0.5	29	352	50	4.34	< 10	< 1	0.17	< 10	6.07	615
PL97-04 040-045	205 226	< 5	< 0.2	2.84	8	630	< 0.5	< 2	4.35	< 0.5	40	634	60	4.42	< 10	< 1	0.28	< 10	8.78	805
PL97-04 045-050	205 226	200	1.0	2.59	16	280	< 0.5	< 2	6.40	< 0.5	39	655	57	4.18	< 10	< 1	0.31	< 10	7.97	805
PL97-04 050-055	205 226	< 5	< 0.2	1.45	2	650	< 0.5	< 2	7.00	< 0.5	32	585	14	3.14	< 10	< 1	0.18	< 10	7.32	935
PL97-04 055-060	205 226	< 5	< 0.2	0.50	< 2	370	< 0.5	< 2	3.69	< 0.5	42	435	36	4.03	< 10	< 1	0.27	< 10	11.00	785
PL97-04 060-065	205 226	< 5	0.2	0.60	< 2	1180	< 0.5	< 2	6.59	< 0.5	38	469	23	3.61	< 10	< 1	0.22	< 10	8.60	825
PL97-04 065-070	205 226	< 5	< 0.2	1.77	4	890	< 0.5	< 2	6.69	< 0.5	37	610	37	3.71	< 10	< 1	0.24	< 10	7.52	970
PL97-04 070-075	205 226	< 5	< 0.2	3.07	< 2	280	< 0.5	< 2	2.16	< 0.5	45	585	59	4.66	< 10	< 1	0.31	< 10	9.83	665
PL97-04 075-080	205 226	< 5	< 0.2	3.01	< 2	150	< 0.5	< 2	1.80	< 0.5	50	624	52	4.72	< 10	< 1	0.62	< 10	11.10	650
PL97-04 080-085	205 226	< 5	< 0.2	2.68	< 2	90	< 0.5	< 2	1.84	< 0.5	55	639	36	4.65	< 10	< 1	0.12	< 10	12.95	695
PL97-04 085-090	205 226	< 5	< 0.2	2.41	< 2	100	< 0.5	< 4	1.74	< 0.5	54	628	38	4.58	< 10	< 1	0.07	< 10	12.60	685
PL97-04 090-095	205 226	< 5	< 0.2	2.61	< 2	110	< 0.5	< 2	1.86	< 0.5	54	593	41	4.67	< 10	< 1	0.25	< 10	12.55	715
PL97-04 095-100	205 226	< 5	0.8	3.16	< 2	120	< 0.5	< 2	0.99	< 0.5	50	443	66	4.62	< 10	< 1	1.41	< 10	10.25	610
PL97-04 100-105	205 226	< 5	< 0.2	3.08	< 2	140	< 0.5	< 2	1.05	< 0.5	46	472	53	4.30	< 10	< 1	1.26	< 10	9.26	635
PL97-04 105-110	205 226	< 5	< 0.2	3.26	6	110	< 0.5	< 2	1.13	< 0.5	48	461	51	4.62	< 10	< 1	0.23	< 10	8.97	695
PL97-04 110-115	205 226	< 5	< 0.2	3.29	< 2	60	< 0.5	< 2	1.06	< 0.5	49	525	58	4.58	< 10	< 1	1.10	< 10	9.84	645
PL97-04 115-120	205 226	< 5	< 0.2	3.15	< 2	40	< 0.5	< 2	0.88	< 0.5	47	490	52	4.48	< 10	< 1	1.17	< 10	9.55	595
PL97-04 120-125	205 226	< 5	< 0.2	2.92	< 2	50	< 0.5	< 2	0.88	< 0.5	44	396	49	4.19	< 10	< 1	1.19	< 10	9.20	555
PL97-04 125-130	205 226	< 5	< 0.2	2.99	< 2	100	< 0.5	< 2	1.96	< 0.5	42	461	53	4.11	< 10	< 1	0.99	< 10	8.95	630
PL97-04 130-135	205 226	< 5	< 0.2	3.00	< 2	130	< 0.5	< 2	3.06	< 0.5	39	535	55	3.57	< 10	< 1	0.15	< 10	7.55	825
PL97-04 135-140	205 226	< 5	< 0.2	2.36	< 2	600	< 0.5	< 2	5.01	< 0.5	37	522	46	3.75	< 10	< 1	0.49	< 10	9.21	700
PL97-04 140-145	205 226	< 5	< 0.2	3.05	4	80	< 0.5	< 2	2.77	< 0.5	43	502	56	4.24	< 10	< 1	0.49	< 10	9.21	805
PL97-04 145-150	205 226	< 5	< 0.2	2.84	8	140	< 0.5	< 2	3.85	< 0.5	42	535	45	4.18	< 10	< 1	0.21	< 10	8.86	765
PL97-04 150-160	205 226	< 5	< 0.2	3.06	< 2	60	< 0.5	< 2	1.78	< 0.5	46	395	58	4.38	< 10	< 1	0.55	< 10	9.45	635
PL97-04 160-170	205 226	< 5	< 0.2	2.89	4	60	< 0.5	< 2	1.75	< 0.5	47	406	49	4.45	< 10	< 1	0.59	< 10	10.65	660
PL97-04 170-180	205 226	< 5	< 0.2	3.60	6	50	< 0.5	< 2	1.04	< 0.5	45	385	59	4.25	< 10	< 1	1.34	< 10	9.47	575
PL97-04 180-190	205 226	< 5	< 0.2	3.39	< 2	100	< 0.5	< 2	1.27	< 0.5	42	302	56	4.20	< 10	< 1	3.38	< 10	8.95	540
PL97-04 190-200	205 226	< 5	< 0.2	2.93	6	30	< 0.5	< 2	1.15	< 0.5	47	318	63	4.26	< 10	< 1	0.52	< 10	10.05	585

CERTIFICATION:



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
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To: GEOTEC CONSULTANTS LTD.

6976 LABURNUM ST.  
VANCOUVER, BC  
V6P 5M9

Project: PLUG  
Comments: CC GRANT CROOKER

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Account LOY

## CERTIFICATE OF ANALYSIS A9751410

SAMPLE	PREP CODE	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
PL97-04 000-005	205 226	4	0.05	78	1200	< 2	2	9	190	0.13	< 10	< 10	105	< 10	50
PL97-04 005-010	205 226	1	0.03	320	690	< 2	< 2	8	284	0.06	< 10	< 10	77	< 10	32
PL97-04 010-015	205 226	2	0.05	403	690	< 2	< 2	7	270	0.05	< 10	< 10	87	< 10	34
PL97-04 015-020	205 226	< 1	0.01	445	450	< 2	< 2	8	192	0.01	< 10	< 10	63	< 10	28
PL97-04 020-025	205 226	3	0.09	66	790	< 2	< 2	3	71	< 0.01	< 10	< 10	18	< 10	28
PL97-04 025-030	205 226	< 1	0.03	354	690	< 2	2	8	250	< 0.01	< 10	< 10	58	< 10	46
PL97-04 030-035	205 226	1	0.04	271	1090	< 2	4	11	276	0.04	< 10	< 10	84	< 10	46
PL97-04 035-040	205 226	1	0.05	251	1300	< 2	2	12	268	0.05	< 10	< 10	105	< 10	54
PL97-04 040-045	205 226	< 1	0.02	449	520	< 2	< 2	10	469	0.01	< 10	< 10	84	< 10	28
PL97-04 045-050	205 226	< 1	0.04	442	490	< 2	< 2	13	423	0.01	< 10	< 10	84	< 10	32
PL97-04 050-055	205 226	< 1	0.06	522	320	< 2	< 2	9	570	< 0.01	< 10	< 10	49	< 10	16
PL97-04 055-060	205 226	< 1	0.01	406	370	< 2	< 2	11	296	< 0.01	< 10	< 10	38	< 10	28
PL97-04 060-065	205 226	< 1	0.02	586	340	< 2	< 2	11	478	< 0.01	< 10	< 10	43	< 10	34
PL97-04 065-070	205 226	< 1	0.09	515	410	< 2	< 2	7	627	< 0.01	< 10	< 10	57	< 10	28
PL97-04 070-075	205 226	< 1	0.21	554	510	< 2	< 2	8	549	0.07	< 10	< 10	92	< 10	38
PL97-04 075-080	205 226	< 1	0.24	633	490	< 2	6	8	548	0.08	< 10	< 10	94	< 10	38
PL97-04 080-085	205 226	< 1	0.23	803	340	< 2	< 2	9	567	0.05	< 10	< 10	90	< 10	34
PL97-04 085-090	205 226	< 1	0.23	801	370	< 2	< 2	8	554	0.04	< 10	< 10	88	< 10	34
PL97-04 090-095	205 226	< 1	0.24	785	360	< 2	< 2	8	567	0.05	< 10	< 10	88	< 10	36
PL97-04 095-100	205 226	< 1	0.23	588	550	< 2	< 2	6	406	0.07	< 10	< 10	104	< 10	44
PL97-04 100-105	205 226	< 1	0.22	574	550	< 2	2	6	408	0.08	< 10	< 10	103	< 10	42
PL97-04 105-110	205 226	< 1	0.25	604	540	< 2	4	7	431	0.09	< 10	< 10	113	< 10	42
PL97-04 110-115	205 226	< 1	0.25	584	570	< 2	4	7	429	0.09	< 10	< 10	108	< 10	44
PL97-04 115-120	205 226	< 1	0.23	561	540	< 2	< 2	7	387	0.08	< 10	< 10	105	< 10	42
PL97-04 120-125	205 226	< 1	0.21	544	490	< 2	2	6	362	0					



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOTEC CONSULTANTS LTD. \*\*

6976 LABURNUM ST  
VANCOUVER, BC  
V6P 5M9

Project: PLUG  
Comments: CC: GRANT CROOKER

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Certificate Date 25 NOV-97  
Invoice No. 19751411  
P.O. Number  
Account LOY

## CERTIFICATE OF ANALYSIS A9751411

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Cd ppm	Ca %	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Bg ppm	K %	La ppm	Mg %	Mn ppm
PL97-05 005-010	205 226	< 5	< 0.2	2.02	4	250	< 0.5	< 2	2.46	< 0.5	17	85	73	3.61	< 10	< 1	0.20	< 10	1.84	720	
PL97-05 010-015	205 226	< 5	< 0.2	2.01	12	170	< 0.5	< 2	2.45	< 0.5	18	106	74	3.81	< 10	< 1	0.18	< 10	1.91	680	
PL97-05 015-020	205 226	< 5	< 0.2	3.02	6	40	< 0.5	< 2	1.37	< 0.5	44	406	37	4.09	< 10	< 1	0.59	< 10	9.65	510	
PL97-05 020-025	205 226	< 5	< 0.2	3.06	< 2	130	< 0.5	< 2	1.24	< 0.5	54	460	58	4.65	< 10	< 1	0.74	< 10	11.20	645	
PL97-05 025-030	205 226	< 5	< 0.2	3.14	8	250	< 0.5	< 2	1.37	< 0.5	51	613	57	4.75	< 10	< 1	0.75	< 10	11.05	605	
PL97-05 030-035	205 226	< 5	< 0.2	3.08	< 2	180	< 0.5	< 2	2.30	< 0.5	49	629	50	4.65	< 10	< 1	0.62	< 10	11.40	715	
PL97-05 035-040	205 226	< 5	< 0.2	2.92	< 2	330	< 0.5	< 2	4.17	< 0.5	45	669	57	4.25	< 10	< 1	0.25	< 10	9.76	890	
PL97-05 040-045	205 226	< 5	< 0.2	2.86	< 2	400	< 0.5	< 2	3.40	< 0.5	38	671	44	4.00	< 10	< 1	0.03	< 10	9.70	750	
PL97-05 045-050	205 226	< 5	< 0.2	2.90	4	550	< 0.5	< 2	2.78	< 0.5	37	618	44	3.78	< 10	< 1	0.03	< 10	10.04	670	
PL97-05 050-055	205 226	< 5	< 0.2	1.85	< 2	50	< 0.5	< 2	1.89	< 0.5	19	287	26	2.52	< 10	< 1	0.17	< 10	4.53	545	
PL97-05 055-060	205 226	< 5	< 0.2	2.90	10	40	< 0.5	< 2	3.37	< 0.5	33	584	44	3.57	< 10	< 1	0.08	< 10	8.06	805	
PL97-05 060-065	205 226	< 5	< 0.2	3.10	8	10	< 0.5	< 2	2.95	< 0.5	61	664	34	3.83	< 10	< 1	0.03	< 10	9.27	750	
PL97-05 065-070	205 226	< 5	< 0.2	3.02	< 2	90	< 0.5	< 2	3.12	< 0.5	40	668	48	3.85	< 10	< 1	0.01	< 10	9.16	690	
PL97-05 070-075	205 226	< 5	< 0.2	3.02	4	130	< 0.5	< 2	2.89	< 0.5	38	673	55	3.62	< 10	< 1	0.02	< 10	8.99	720	
PL97-05 075-080	205 226	< 5	< 0.2	3.30	< 2	410	< 0.5	< 2	3.04	< 0.5	40	713	62	3.88	< 10	< 1	0.03	< 10	9.41	780	
PL97-05 080-085	205 226	< 5	< 0.2	3.11	< 2	110	< 0.5	< 2	3.80	< 0.5	42	698	48	4.09	< 10	< 1	0.02	< 10	9.39	705	
PL97-05 085-090	205 226	< 5	< 0.2	2.99	10	500	< 0.5	< 2	4.76	< 0.5	36	605	43	3.67	< 10	< 1	0.02	< 10	8.30	875	
PL97-05 090-095	205 226	< 5	< 0.2	2.95	10	420	< 0.5	< 2	5.57	< 0.5	38	653	43	3.62	< 10	< 1	0.04	< 10	8.11	920	
PL97-05 095-100	205 226	< 5	< 0.2	2.96	8	210	< 0.5	< 2	2.72	< 0.5	43	609	44	4.10	< 10	< 1	0.06	< 10	9.52	620	
PL97-05 100-105	205 226	10	< 0.2	2.92	2	660	< 0.5	< 2	6.66	< 0.5	36	624	49	3.59	< 10	< 1	0.06	< 10	7.89	1010	
PL97-05 105-110	205 226	< 5	< 0.2	2.96	< 2	210	< 0.5	< 2	2.30	< 0.5	40	614	57	3.67	< 10	< 1	0.20	< 10	9.22	595	
PL97-05 110-115	205 226	< 5	< 0.2	2.95	< 2	300	< 0.5	< 2	2.18	< 0.5	40	604	52	3.68	< 10	< 1	0.10	< 10	9.42	560	
PL97-05 115-120	205 226	< 5	< 0.2	2.97	2	160	< 0.5	< 2	2.38	< 0.5	40	603	49	3.79	< 10	< 1	0.14	< 10	9.36	555	
PL97-05 120-125	205 226	< 5	< 0.2	3.02	6	510	< 0.5	< 2	3.46	< 0.5	40	658	50	3.89	< 10	< 1	0.27	< 10	9.36	735	
PL97-05 125-130	205 226	< 5	< 0.2	2.83	< 2	580	< 0.5	< 2	3.89	< 0.5	39	652	56	3.75	< 10	< 1	0.11	< 10	8.77	765	
PL97-05 130-135	205 226	< 5	< 0.2	2.88	2	370	< 0.5	< 2	3.26	< 0.5	39	685	49	3.72	< 10	< 1	0.18	< 10	8.70	705	
PL97-05 135-140	205 226	< 5	< 0.2	2.91	2	930	< 0.5	< 2	4.39	< 0.5	37	682	56	3.74	< 10	< 1	0.18	< 10	8.51	855	
PL97-05 140-145	205 226	< 5	< 0.2	2.92	< 2	610	< 0.5	< 2	3.65	< 0.5	40	666	52	3.91	< 10	< 1	0.23	< 10	9.07	800	
PL97-05 145-150	205 226	< 5	< 0.2	2.77	8	430	< 0.5	< 2	3.16	< 0.5	38	647	59	3.77	< 10	< 1	0.37	< 10	8.46	740	
PL97-05 150-160	205 226	< 5	< 0.2	2.89	< 2	390	< 0.5	< 2	2.75	< 0.5	39	627	56	3.74	< 10	< 1	0.51	< 10	8.52	675	
PL97-05 160-170	205 226	< 5	< 0.2	2.85	< 2	460	< 0.5	< 2	2.93	< 0.5	38	592	58	3.59	< 10	< 1	0.46	< 10	8.20	705	
PL97-05 170-180	205 226	< 5	< 0.2	2.84	< 2	430	< 0.5	< 2	2.85	< 0.5	38	616	49	3.75	< 10	< 1	0.54	< 10	8.48	685	
PL97-05 180-190	205 226	< 5	< 0.2	2.84	< 2	460	< 0.5	< 2	3.20	< 0.5	40	639	62	3.79	< 10	< 1	0.31	< 10	8.74	685	
PL97-05 190-200	205 226	< 5	< 0.2	2.98	< 2	480	< 0.5	< 2	3.24	< 0.5	40	663	50	3.92	< 10	< 1	0.28	< 10	8.98	710	
PL97-05 200-210	205 226	< 5	< 0.2	3.03	2	280	< 0.5	< 2	2.41	< 0.5	40	596	49	3.86	< 10	< 1	0.42	< 10	8.55	605	
PL97-05 210-220	205 226	< 5	< 0.2	3.08	< 2	520	< 0.5	< 2	2.92	< 0.5	41	609	56	3.92	< 10	< 1	0.39	< 10	9.10	645	
PL97-05 220-230	205 226	< 5	< 0.2	2.83	< 2	410	< 0.5	< 2	3.06	< 0.5	40	647	51	3.88	< 10	< 1	0.31	< 10	8.66	730	
PL97-05 230-240	205 226	< 5	< 0.2	1.43	< 2	370	< 0.5	< 2	4.37	< 0.5	24	197	66	4.05	< 10	< 1	0.29	< 10	4.14	930	
PL97-05 240-250	205 226	< 5	< 0.2	1.26	< 2	430	< 0.5	< 2	4.70	< 0.5	21	59	87	4.59	< 10	< 1	0.32	< 10	3.22	1000	
PL97-05 250-260	205 226	< 5	< 0.2	0.83	16	360	< 0.5	< 2	3.63	< 0.5	39	339	38	3.91	< 10	< 1	0.22	< 10	8.17	700	

CERTIFICATION:



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOTEC CONSULTANTS LTD. \*\*

6976 LABURNUM ST  
VANCOUVER, BC  
V6P 5M9

Project: PLUG  
Comments: CC: GRANT CROOKER

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## CERTIFICATE OF ANALYSIS A9751411

SAMPLE	PREP CODE	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
PL97-05 005-010	205 226	12	0.04	61	1150	< 2	< 2	8	113	0.11	< 10	< 10	104	< 10	56
PL97-05 010-015	205 226	8	0.04	74	1130	< 2	2	10	104	0.14	< 10	< 10	111	< 10	52
PL97-05 015-020	205 226	1	0.01	545	460	< 2	2	10	193	0.08	< 10	< 10	101	< 10	36
PL97-05 020-025	205 226	1	0.03	673	480	< 2	2	11	343	0.07	< 10	< 10	104	< 10	40
PL97-05 025-030	205 226	< 1	0.04	590	500	< 2	< 2	13	344	0.08	< 10	< 10	113	< 10	42
PL97-05 030-035	205 226	< 1	0.05	620	490	< 2	< 2	12	431	0.07	< 10	< 10	102	< 10	40
PL97-05 035-040	205 226	< 1	0.04	568	440	< 2	4	14	409	0.05	< 10	< 10	89	< 10	34
PL97-05 040-045	205 226	< 1	0.04	513	400	< 2	2	7	343	0.05	< 10	< 10	84	< 10	26
PL97-05 045-050	205 226	1	0.05	495	550	< 2	2	4	343	0.03	< 10	< 10	78	< 10	26
PL97-05 050-055	205 226	1	0.06	230	380	14	2	5	161	0.01	< 10	< 10	46	< 10	46
PL97-05 055-060	205 226	< 1	0.06	474	580	2	4	4	378	0.01	< 10	< 10	73	< 10	32
PL97-05 060-065	205 226	< 1	0.08	531	630	< 2	2	4	628	0.04	< 10	< 10	82	< 10	26
PL97-05 065-070	205 226	< 1	0.09	522	570	< 2	2	3	441	0.05	< 10	< 10	77	< 10	28
PL97-05 070-075	205 226	< 1	0.12	523	590	8	< 2	3	441	0.06	< 10	< 10	73	< 10	30
PL97-05 075-080	205 226	< 1	0.13	538	630	< 2	< 2	4	561	0.06	< 10	< 10	81	< 10	32
PL97-05 080-085	205 226	< 1	0.14	546	570	< 2	< 2	4	558	0.08	< 10	< 10	82	< 10	32
PL97-05 085-090	205 226	< 1	0.12	466	480	< 2	2	8	596	0.05	< 10	< 10	80	< 10	32
PL97-05 090-095	205 226	1	0.13	529	490	< 2	2	9	646	0.04	< 10	< 10	84	< 10	28



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
Bntsh Columbia, Canada V7J 2C1  
PHONE 604-984-0221 FAX 604-984-0218

To: GEOTEC CONSULTANTS LTD.

6976 LABURNUM ST.  
VANCOUVER, BC  
V6P 5M9

Project: PLUG  
Comments: CC: GRANT CROOKER

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## CERTIFICATE OF ANALYSIS A9751411

SAMPLE	PREP CODE	Au ppb 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
PL97-05 260-270	205 226	< 5	< 0.2	0.88	< 2	430	< 0.5	< 2	3.92	< 0.5	40	514	39	4.10	< 10	< 1	0.23	< 10	9.47	750
PL97-05 270-280	205 226	< 5	< 0.2	0.73	8	140	< 0.5	< 2	3.35	< 0.5	29	315	36	3.19	< 10	< 1	0.32	< 10	6.24	720
PL97-05 280-290	205 226	< 5	< 0.2	0.69	12	990	< 0.5	< 2	0.77	< 0.5	4	32	9	1.53	< 10	< 1	0.37	20	1.20	390
PL97-05 290-300	205 226	< 5	< 0.2	0.87	4	580	< 0.5	< 2	2.03	< 0.5	12	126	36	2.20	< 10	< 1	0.34	10	3.05	610
PL97-05 300-310	205 226	< 5	< 0.2	2.82	10	450	< 0.5	< 2	2.87	< 0.5	28	186	29	3.93	< 10	< 1	0.29	10	4.85	685
PL97-05 310-320	205 226	< 5	< 0.2	0.71	14	580	< 0.5	< 2	3.24	< 0.5	32	331	68	3.24	< 10	< 1	0.30	< 10	7.38	725
PL97-05 320-330	205 226	< 5	< 0.2	0.47	16	340	< 0.5	< 2	3.37	< 0.5	40	351	56	3.90	< 10	1	0.24	< 10	9.48	715

CERTIFICATION:



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
Bntsh Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOTEC CONSULTANTS LTD.

6976 LABURNUM ST  
VANCOUVER, BC  
V6P 5M9

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## CERTIFICATE OF ANALYSIS A9751411

SAMPLE	PREP CODE	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
PL97-05 260-270	205 226	< 1	0.04	539	480	< 2	< 2	12	388	< 0.01	< 10	< 10	62	< 10	26
PL97-05 270-280	205 226	1	0.06	365	400	2	< 2	9	331	< 0.01	< 10	< 10	44	< 10	30
PL97-05 280-290	205 226	2	0.09	20	350	4	< 2	1	107	< 0.01	< 10	< 10	8	< 10	36
PL97-05 290-300	205 226	3	0.06	117	410	2	2	7	229	< 0.01	< 10	< 10	33	< 10	42
PL97-05 300-310	205 226	1	0.15	184	630	4	2	13	664	0.04	< 10	< 10	87	< 10	52
PL97-05 310-320	205 226	1	0.04	394	350	< 2	10	9	366	< 0.01	< 10	< 10	42	< 10	26
PL97-05 320-330	205 226	1	0.01	521	320	< 2	6	11	349	< 0.01	< 10	< 10	49	< 10	24

CERTIFICATION:



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Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOTEC CONSULTANTS LTD.

6976 LABURNUM ST.  
VANCOUVER, BC  
V6P 5M9

Project: PL-97-06 PLUS  
Comments: CC. GRANT CROOKER

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Account LOY

## CERTIFICATE OF ANALYSIS A9752074

SAMPLE	PREP CODE	Au ppb 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
PL97-06 0-10	205 226	< 5	< 0.2	2.46	< 2	160	< 0.5	< 2	3.18	0.5	18	91	61	3.95	10	< 1	0.13	< 10	2.28	693
PL97-06 10-20	205 226	< 5	< 0.2	2.07	< 2	140	< 0.5	< 2	3.45	0.5	19	131	60	4.32	< 10	< 1	0.13	< 10	2.94	750
PL97-06 20-30	205 226	20	< 0.2	1.04	< 2	770	< 0.5	< 2	4.92	0.5	28	196	43	4.80	< 10	< 1	0.23	< 10	6.98	890
PL97-06 30-40	205 226	< 5	< 0.2	0.78	< 2	380	< 0.5	< 2	4.56	0.5	31	361	46	4.83	< 10	< 1	0.36	< 10	10.65	890
PL97-06 40-50	205 226	< 5	< 0.2	1.03	< 2	310	< 0.5	< 2	6.04	0.5	30	209	44	4.68	10	< 1	0.21	< 10	0.31	940
PL97-06 50-60	205 226	5	< 0.2	0.56	< 2	120	< 0.5	< 2	4.95	0.5	29	138	29	4.38	< 10	< 1	0.12	< 10	6.36	820
PL97-06 60-70	205 226	< 5	< 0.2	0.33	< 2	80	< 0.5	< 2	4.91	0.5	32	130	19	4.85	< 10	< 1	0.17	< 10	8.61	900
PL97-06 70-80	205 226	< 5	< 0.2	0.51	< 2	40	< 0.5	< 2	5.02	0.5	29	239	44	4.68	< 10	< 1	0.11	< 10	8.69	845
PL97-06 80-90	205 226	< 5	< 0.2	0.75	< 2	80	< 0.5	< 2	4.10	0.5	35	318	39	4.11	< 10	< 1	0.13	< 10	8.54	795
PL97-06 90-100	205 226	< 5	< 0.2	0.31	< 2	50	< 0.5	< 2	4.92	0.5	33	163	18	4.87	< 10	< 1	0.18	< 10	9.04	900
PL97-06 100-110	205 226	< 5	< 0.2	0.81	< 2	90	< 0.5	< 2	5.04	0.5	30	166	23	4.85	< 10	< 1	0.24	< 10	7.23	905
PL97-06 110-120	205 226	< 5	< 0.2	2.17	< 2	120	< 0.5	< 2	4.32	0.5	32	281	59	4.35	< 10	< 1	0.23	< 10	7.18	795
PL97-06 120-130	205 226	< 5	< 0.2	2.89	< 2	180	< 0.5	< 2	2.41	0.5	42	425	58	4.44	< 10	< 1	0.64	< 10	9.70	670
PL97-06 130-140	205 226	< 5	< 0.2	2.64	< 2	630	< 0.5	< 2	3.52	0.5	38	838	50	4.07	10	< 1	0.26	< 10	8.89	795
PL97-06 140-150	205 226	< 5	< 0.2	2.68	< 2	350	< 0.5	< 2	3.60	0.5	37	635	54	4.06	< 10	< 1	0.28	< 10	9.08	840
PL97-06 150-160	205 226	< 5	< 0.2	2.61	< 2	570	< 0.5	< 2	3.81	0.5	37	639	53	3.93	< 10	< 1	0.18	< 10	9.02	830
PL97-06 160-170	205 226	< 5	< 0.2	2.85	< 2	400	< 0.5	< 2	3.13	0.5	36	827	59	3.82	10	< 1	0.22	< 10	8.77	775
PL97-06 170-180	205 226	< 5	< 0.2	2.34	< 2	950	< 0.5	< 2	4.10	0.5	34	606	53	3.78	< 10	< 1	0.10	< 10	8.36	865
PL97-06 180-190	205 226	< 5	< 0.2	2.36	< 2	640	< 0.5	< 2	3.47	0.5	31	567	67	3.81	10	< 1	0.18	< 10	8.44	820
PL97-06 190-200	205 226	< 5	0.2	2.36	< 2	530	< 0.5	< 2	4.37	0.5	32	550	48	3.83	< 10	< 1	0.18	< 10	9.05	905

CERTIFICATION: *Grant Crooker*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOTEC CONSULTANTS LTD.

6976 LABURNUM ST.  
VANCOUVER, BC  
V6P 5M9

Project: PL-97-06 PLUS  
Comments: CC. GRANT CROOKER

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Certificate Date 04 DEC 97  
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P.O. Number  
Account LOY

## CERTIFICATE OF ANALYSIS A9752074

SAMPLE	PREP CODE	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	
PL97-06 0-10	205 226	2	0.03	67	1130	< 2	< 2	8	133	0.12	< 10	< 10	114	< 10	56	
PL97-06 10-20	205 226	5	0.04	95	1050	< 2	< 2	9	145	0.11	< 10	< 10	105	< 10	48	
PL97-06 20-30	205 226	< 1	0.01	254	490	< 2	< 2	4	15	257	0.01	< 10	< 10	81	< 10	26
PL97-06 30-40	205 226	< 1	0.01	437	460	< 2	< 2	12	403	< 0.01	< 10	< 10	64	< 10	24	
PL97-06 40-50	205 226	< 1	0.01	302	350	< 2	< 2	15	294	< 0.01	< 10	< 10	80	< 10	30	
PL97-06 50-60	205 226	< 1	0.01	246	880	< 2	< 2	18	278	< 0.01	< 10	< 10	75	< 10	28	
PL97-06 60-70	205 226	< 1	0.02	313	640	< 2	< 2	14	221	< 0.01	< 10	< 10	63	< 10	26	
PL97-06 70-80	205 226	< 1	0.02	310	710	< 2	< 2	14	211	< 0.01	< 10	< 10	88	< 10	26	
PL97-06 80-90	205 226	< 1	0.01	379	600	< 2	< 2	14	293	< 0.01	< 10	< 10	70	< 10	28	
PL97-06 90-100	205 226	< 1	0.01	320	610	< 2	< 2	14	258	< 0.01	< 10	< 10	51	< 10	26	
PL97-06 100-110	205 226	< 1	0.03	238	630	< 2	< 2	14	277	< 0.01	< 10	< 10	54	< 10	32	
PL97-06 110-120	205 226	< 1	0.09	334	770	< 2	< 2	8	301	0.04	< 10	< 10	81	< 10	46	
PL97-06 120-130	205 226	< 1	0.21	521	520	< 2	< 2	7	521	0.06	< 10	< 10	95	< 10	40	
PL97-06 130-140	205 226	< 1	0.17	476	430	< 2	< 2	5	559	0.04	< 10	< 10	73	< 10	30	
PL97-06 140-150	205 226	< 1	0.19	466	510	< 2	< 2	4	619	0.01	< 10	< 10	68	< 10	30	
PL97-06 160-170	205 226	< 1	0.21	472	580	< 2	< 2	3	677	0.01	< 10	< 10	63	< 10	28	
PL97-06 170-180	205 226	< 1	0.27	468	670	< 2	< 2	3	672	0.03	< 10	< 10	57	< 10	28	
PL97-06 180-190	205 226	< 1	0.19	458	490	< 2	< 2	6	708	< 0.01	< 10	< 10	66	< 10	28	
PL97-06 190-200	205 226	< 1	0.22	397	550	< 2	< 2	3	631	0.02	< 10	< 10	55	< 10	30	
PL97-06 190-200	205 226	< 1	0.24	441	510	< 2	< 2	5	818	0.02	< 10	< 10	54	< 10	24	

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Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOTEC CONSULTANTS LTD  
 6976 LABURNUM ST.  
 VANCOUVER, BC  
 V6P 5M9

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 Account : LOY

Project : PL97-07 PLUS  
 Comments : CC: GRANT CROOKER

## CERTIFICATE OF ANALYSIS A9752064

SAMPLE	PREP CODE	Au ppb FA+KA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Cd %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
PL97-07 10-20	205 226	10	< 0.2	1.77	4	160	< 0.5	< 2	2.73	< 0.5	17	82	59	3.51	< 10	< 1	0.15	< 10	1.98	660
PL97-07 20-30	205 226	< 5	< 0.2	1.96	3	110	< 0.5	< 2	2.08	< 0.5	22	96	68	4.25	< 10	< 1	0.19	< 10	2.19	710
PL97-07 30-40	205 226	5	< 0.2	1.60	2	120	< 0.5	< 2	1.97	< 0.5	14	55	56	3.11	< 10	< 1	0.15	< 10	1.42	540
PL97-07 40-50	205 226	10	< 0.2	1.63	6	110	< 0.5	< 2	2.21	< 0.5	14	49	51	3.21	< 10	< 1	0.13	< 10	1.37	530
PL97-07 50-60	205 226	10	< 0.2	1.82	< 2	110	< 0.5	< 2	2.24	< 0.5	15	55	58	3.41	< 10	< 1	0.14	< 10	1.62	570
PL97-07 60-70	205 226	< 5	< 0.2	1.74	2	100	< 0.5	< 2	2.29	< 0.5	13	63	50	3.38	< 10	< 1	0.14	< 10	1.39	540

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Analytical Chemists \* Geochemists \* Registered Assayers  
 212 Brooksbank Ave., North Vancouver  
 British Columbia, Canada V7J 2C1  
 PHONE: 604-984-0221 FAX: 604-984-0218

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 6976 LABURNUM ST.  
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Page Number : 1-B  
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 Certificate Date : 03-DEC-97  
 Invoice No : 19752064  
 P.O. Number :  
 Account : LOY

Project : PL97-07 PLUS  
 Comments : CC: GRANT CROOKER

## CERTIFICATE OF ANALYSIS A9752064

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
PL97-07 10-20	205 226	2	0.05	57	1240	< 2	< 2	8	107	0.12	< 10	< 10	98	< 10	50
PL97-07 20-30	205 226	1	0.27	69	1390	< 2	< 2	6	99	0.25	< 10	< 10	87	< 10	62
PL97-07 30-40	205 226	1	0.04	33	1140	< 2	< 2	6	76	0.11	< 10	< 10	87	< 10	48
PL97-07 40-50	205 226	1	0.05	27	1190	< 2	< 2	5	75	0.12	< 10	< 10	90	< 10	48
PL97-07 50-60	205 226	< 1	0.06	37	1240	< 2	< 2	6	88	0.12	< 10	< 10	95	< 10	50
PL97-07 60-70	205 226	1	0.06	30	1100	< 2	< 2	6	103	0.13	< 10	< 10	99	< 10	50

CERTIFICATION: *Grant Crooker*





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Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOTEC CONSULTANTS LTD. ##

6976 LABURNUM ST.  
VANCOUVER, BC  
V6P 5M9

Project: PL-97-08 PLUS  
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## CERTIFICATE OF ANALYSIS A9752070

SAMPLE	PREP CODE	Au ppb 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
PL97-08 0-10	205 226	5 < 0.2	1.75	< 2	110 < 0.5	< 2	2.90 < 0.5	13	42	64	3.54 < 10	< 1	0.13 < 10	1.24	680	< 1	0.13 < 10	1.38	675	605
PL97-08 10-20	205 226	5 < 0.2	1.73	< 2	120 < 0.5	< 2	2.66 < 0.5	14	37	62	3.50 < 10	< 1	0.14 < 10	4.15	805	< 1	0.14 < 10	6.51	740	740
PL97-08 20-30	205 226	5 < 0.2	0.75	< 2	170 < 0.5	< 2	6.58 < 0.5	10	163	42	1.71 < 10	< 1	0.11 < 10	6.51	740	< 1	0.11 < 10	7.23	820	820
PL97-08 30-40	205 226	5 < 0.2	0.54	< 2	110 < 0.5	< 2	4.24 < 0.5	29	252	21	1.03 < 10	< 1	0.07 < 10	9.31	885	< 1	0.06 < 10	8.01	790	790
PL97-08 40-50	205 226	5 < 0.2	1.35	< 2	110 < 0.5	< 2	4.68 < 0.5	36	376	32	3.30 < 10	< 1	0.01 < 10	8.01	790	< 1	0.01 < 10	9.50	900	900
PL97-08 50-60	205 226	5 < 0.2	1.60	< 2	80 < 0.5	< 2	3.91 < 0.5	35	331	37	3.47 < 10	< 1	0.01 < 10	9.50	900	< 1	0.01 < 10	7.28	715	715
PL97-08 60-70	205 226	5 < 0.2	1.50	< 2	120 < 0.5	< 2	5.22 < 0.5	37	527	38	1.51 < 10	< 1	0.05 < 10	6.82	810	< 1	0.05 < 10	12.10	715	715
PL97-08 70-80	205 226	5 < 0.2	2.39	< 2	110 < 0.5	< 2	4.21 < 0.5	38	510	32	1.53 < 10	< 1	0.12 < 10	5.41	505	< 1	0.12 < 10	4.74	710	710
PL97-08 80-90	205 226	5 < 0.2	2.02	< 2	90 < 0.5	< 2	2.67 < 0.5	26	359	36	2.94 < 10	< 1	0.10 < 10	6.82	810	< 1	0.10 < 10	12.10	715	715
PL97-08 90-100	205 226	5 < 0.2	1.16	< 2	160 < 0.5	< 2	2.37 < 0.5	41	354	7	3.12 < 10	< 1	0.07 < 10	11.30	725	< 1	0.07 < 10	5.41	505	505
PL97-08 100-110	205 226	40 < 0.2	0.52	< 2	50 < 0.5	< 2	2.37 < 0.5	38	284	13	3.35 < 10	< 1	0.12 < 10	5.41	505	< 1	0.12 < 10	4.74	710	710
PL97-08 110-120	205 226	5 < 0.2	0.33	< 2	30 < 0.5	< 2	2.66 < 0.5	18	131	28	2.33 < 10	< 1	0.19 < 10	5.07	755	< 1	0.19 < 10	10.45	570	570
PL97-08 120-130	205 226	5 < 0.2	0.37	< 2	60 < 0.5	< 2	1.44 < 0.5	18	131	28	2.33 < 10	< 1	0.16 < 10	6.38	740	< 1	0.16 < 10	4.67	600	600
PL97-08 130-140	205 226	5 < 0.2	0.88	< 2	400 < 0.5	< 2	2.95 < 0.5	25	52	27	4.03 < 10	< 1	0.17 < 10	5.07	755	< 1	0.17 < 10	10.45	570	570
PL97-08 140-150	205 226	5 < 0.2	0.93	< 2	310 < 0.5	< 2	3.12 < 0.5	27	60	19	4.14 < 10	< 1	0.09 < 10	10.25	740	< 1	0.09 < 10	8.27	740	740
PL97-08 150-160	205 226	5 < 0.2	0.41	< 2	250 < 0.5	< 2	2.73 < 0.5	38	218	9	3.59 < 10	< 1	0.11 < 10	6.38	740	< 1	0.11 < 10	4.67	600	600
PL97-08 160-170	205 226	5 < 0.2	0.17	< 2	710 < 0.5	< 2	1.02 < 0.5	26	150	45	2.48 < 10	< 1	0.13 < 10	3.26	140	< 1	0.13 < 10	9.74	690	690
PL97-08 170-180	205 226	5 < 0.2	0.33	< 2	590 < 0.5	< 2	1.66 < 0.5	19	120	81	2.33 < 10	< 1	0.18 < 10	6.72	680	< 1	0.18 < 10	7.99	785	785
PL97-08 180-190	205 226	5 < 0.2	0.48	< 2	490 < 0.5	< 2	1.83 < 0.5	15	58	83	2.18 < 10	< 1	0.16 < 10	9.09	715	< 1	0.16 < 10	9.60	715	715
PL97-08 190-200	205 226	5 < 0.2	0.53	< 2	210 < 0.5	< 2	2.68 < 0.5	35	297	33	3.23 < 10	< 1	0.09 < 10	11.10	785	< 1	0.09 < 10	10.85	755	755
PL97-08 200-210	205 226	5 < 0.2	0.54	< 2	120 < 0.5	< 2	2.70 < 0.5	37	327	25	3.62 < 10	< 1	0.17 < 10	6.72	680	< 1	0.17 < 10	9.79	785	785
PL97-08 210-220	205 226	5 < 0.2	1.32	< 2	180 < 0.5	< 2	3.32 < 0.5	35	205	22	4.16 < 10	< 1	0.18 < 10	9.09	715	< 1	0.18 < 10	10.65	755	755
PL97-08 220-230	205 226	5 < 0.2	1.67	< 2	340 < 0.5	< 2	2.70 < 0.5	32	173	31	4.19 < 10	< 1	0.16 < 10	10.65	755	< 1	0.16 < 10	9.66	725	725
PL97-08 230-240	205 226	5 < 0.2	1.47	< 2	350 < 0.5	< 2	3.58 < 0.5	32	126	79	3.85 < 10	< 1	0.11 < 10	10.65	755	< 1	0.11 < 10	9.66	725	725
PL97-08 240-250	205 226	5 < 0.2	0.44	< 2	350 < 0.5	< 2	3.48 < 0.5	34	217	32	3.70 < 10	< 1	0.07 < 10	11.10	785	< 1	0.07 < 10	10.85	755	755
PL97-08 250-260	205 226	5 < 0.2	0.51	< 2	500 < 0.5	< 2	4.08 < 0.5	33	318	34	3.53 < 10	< 1	0.03 < 10	11.10	785	< 1	0.03 < 10	10.85	755	755
PL97-08 260-270	205 226	5 < 0.2	0.86	< 2	360 < 0.5	< 2	3.46 < 0.5	38	308	22	3.38 < 10	< 1	0.09 < 10	8.07	685	< 1	0.09 < 10	9.66	725	725
PL97-08 270-280	205 226	5 < 0.2	1.66	< 2	230 < 0.5	< 2	3.10 < 0.5	38	139	39	4.08 < 10	< 1	0.11 < 10	10.65	755	< 1	0.11 < 10	9.66	725	725
PL97-08 280-290	205 226	5 < 0.2	0.81	< 2	450 < 0.5	< 2	2.85 < 0.5	38	139	39	4.08 < 10	< 1	0.15 < 10	9.66	725	< 1	0.15 < 10	9.99	720	720
PL97-08 290-300	205 226	5 < 0.2	1.29	< 2	210 < 0.5	< 2	3.10 < 0.5	38	183	23	3.40 < 10	< 1	0.11 < 10	9.99	720	< 1	0.11 < 10	9.99	720	720
PL97-08 300-310	205 226	5 < 0.2	0.28	< 2	140 < 0.5	< 2	3.33 < 0.5	41	189	14	3.35 < 10	< 1	0.15 < 10	9.66	725	< 1	0.15 < 10	9.99	720	720
PL97-08 310-320	205 226	5 < 0.2	0.34	< 2	210 < 0.5	< 2	3.10 < 0.5	39	181	16	3.15 < 10	< 1	0.11 < 10	9.99	720	< 1	0.11 < 10	9.99	720	720
PL97-08 320-330	205 226	5 < 0.2	0.22	< 2	90 < 0.5	< 2	3.26 < 0.5	39	181	16	3.15 < 10	< 1	0.11 < 10	9.99	720	< 1	0.11 < 10	9.99	720	720

CERTIFICATION: *Grant Crooker*



# Chemex Labs Ltd.

Analytical Chemists \* Geochemists \* Registered Assayers  
212 Brooksbank Ave., North Vancouver  
British Columbia, Canada V7J 2C1  
PHONE: 604-984-0221 FAX: 604-984-0218

To: GEOTEC CONSULTANTS LTD. ##

6976 LABURNUM ST.  
VANCOUVER, BC  
V6P 5M9

Project: PL-97-08 PLUS  
Comments: CC: GRANT CROOKER

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## CERTIFICATE OF ANALYSIS A9752070

SAMPLE	PREP CODE	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
PL97-08 0-10	205 226	< 1	0.05	21	1300	2	< 2	8	112	0.13	< 10	< 10	103	< 10	44
PL97-08 10-20	205 226	< 1	0.05	19	1360	< 2	< 2	6	93	0.13	< 10	< 10	105	< 10	48
PL97-08 20-30	205 226	< 1	0.02	358	650	2	2	12	573	0.03	< 10	< 10	77	< 10	18
PL97-08 30-40	205 226	< 1	0.01	467	260	2	2	9	317	0.01	< 10	< 10	35	< 10	16
PL97-08 40-50	205 226	< 1	0.01	537	280	2	2	11	405	0.01	< 10	< 10	45	< 10	12
PL97-08 50-60	205 226	< 1	0.01	609	320	2	2	12	400	0.01	< 10	< 10	55	< 10	6
PL97-08 60-70	205 226	< 1	0.01	443	400	2	2	11	347	0.01	< 10	< 10	58	< 10	14
PL97-08 70-80	205 226	< 1	0.01	522	420	2	2	9	432	0.01	< 10	< 10	67	< 10	12
PL97-08 80-90	205 226	< 1	0.01	586	390	2	2	13	438	0.01	< 10	< 10	67	< 10	22
PL97-08 90-100	205 226	< 1	0.02	413	320	2	2	9	250	0.01	< 10	< 10	38	< 10	22
PL97-08 100-110	205 226	< 1	0.02	398	310	2	2	8	203	0.01	< 10	< 10	35	< 10	28
PL97-08 110-120	205 226	< 1	0.01	648	250	2	2	11	111	0.01	< 10	< 10	44	< 10	8
PL97-08 120-130	205 226	< 1	0.01	546	260	2	2	7	162	0.01	< 10	< 10	46	< 10	12
PL97-08 130-140	205 226	< 1	0.01	546	260	2	2	6	171	0.01	< 10	< 10	26	< 10	20
PL97-08 130-140	205 226	< 1	0.03	237	350	2	2	13	279	0.01	< 10	< 10	62	< 10	42
PL97-08 140-150	205 226	< 1	0.03	100	940	2	2	14	268	0.01	< 10	< 10	67	< 10	40
PL97-08 150-160	205 226	< 1	0.04	117	810	2	2	12	139	0.01	< 10	< 10	49	< 10	12
PL97-08 160-170	205 226	< 1	0.01	469	310	2	2	12	139	0.01	< 10	< 10	29	< 10	12
PL97-08 170-180	205 226	< 1	0.02	280	170	2	2	7	128	0.01	< 10	< 10	23	< 10	26
PL97-08 170-180	205 226	< 1	0.03	193	210	2	2	6	160	0.01	< 10	< 10	25	< 10	28
PL97-08 180-190	205 226	< 1	0.03	103	340	2	2	6	211	0.01	< 10	< 10	25	< 10	28
PL97-08 190-200	205 226	< 1	0.04	103	340	2	2	14	262	0.01	< 10	< 10	61	< 10	20

**APPENDIX II**  
**ROCK SAMPLE DESCRIPTIONS**

**PLUG - ROCK SAMPLE DESCRIPTIONS**

Sample No	Location	Width m	Au ppm	Ag ppm	Cu ppm	Description
WGB 1	19790E 8690N	float	<5	<0.2	<1	carbonate alteration, no visible mineralization
WGB 2	19800E 8690N	float	<5	<0.2	103	brown, rusty, probably quartz-carbonate alteration, no visible mineralization
WGB 3	19780E 8730N	float	60	5.6	45	quartz-carbonate alteration with mariposite
WGB 4	19770E 8740N	float	20	11.2	21	quartz-carbonate schist with mariposite
WGB 5	19905E 8800N	float	<5	0.2	12	quartz feldspar porphyry, brownish alteration of ground mass, quartz stringers on fractures, traces of chalcopyrite
WGB 6	18550E 9275N	float	<5	<0.2	64	brown, micro quartz stringers, magnetite
WGB 7	Ridge Road	grab	<5	<0.2	33	gneissic sediments, minor quartz, pyrite
WGB 8	Ridge Road	grab	<5	<0.2	56	gneissic sediments, minor quartz, pyrite
WGB 9	Ridge Road	grab	<5	<0.2	33	rusty Nicola volcanic
WGB 10	Ridge Road	grab	<5	<0.2	38	whitish silicified rock, hornblende needles, epidote along fractures
WGB 11	19800E 7800N	float	5	<0.2	60	quartz carbonate alteration
WGB 12	19800E 7800N	float	5	<0.2	26	carbonate alteration, no mariposite
WGB 13	19800E 7800N	float	<5	<0.2	<1	quartz carbonate alteration, some chlorite
WGB 14	19300E 7820N	grab	10	<0.2	1	trench, quartz carbonate mariposite alteration, chlorite
WGB 15	19300E 7820N	core	60	0.4	18	drill site, chloritic schist with mariposite
WGB 16A	19300E 7820N	grab	40	<0.2	1	quartz carbonate mariposite alteration, chlorite
WGB 16B	19300E 7820N	grab	<5	<0.2	8	quartz carbonate mariposite alteration, chlorite
WGB 18	19300E 7820N	core	35	<0.2	29	drill site, schistose rock
	18350E 11050N	float	<5	<0.2	26	grey aphanitic rock, specks of hornblende and biotite
	18650E 11100N	grab	<5	<0.2	88	Nicola volcanic breccia, epidotized with specular hematite, minor magnetite
	18650N 11165N	grab	<5	<0.2	49	Nicola volcanic breccia with fractures, no magnetite
	19250E 7775N	grab	<5	<0.2	31	foliated to schistose, altered Nicola volcanics, amygdaloidal to breccia, no visible mineralization
0 metre	19250E 7820N	grab	<5	<0.2	13	foliated to schistose, altered Nicola volcanics, amygdaloidal to breccia, no visible mineralization
10 metre	19250E 7825N	grab	<5	<0.2	48	foliated to schistose, altered Nicola volcanics, amygdaloidal to breccia, no visible mineralization
12 metre	19250E 7825N	grab	<5	<0.2	18	foliated to schistose, altered Nicola volcanics, amygdaloidal to breccia, no visible mineralization
20 metre	19250E 7825N	grab	<5	<0.2	17	foliated to schistose, altered Nicola volcanics, amygdaloidal to breccia, no visible mineralization
25 metre	19250E 7825N	grab	<5	<0.2	34	foliated to schistose, altered Nicola volcanics, amygdaloidal to breccia, no visible mineralization

30 metre	19250E 7825N	grab	<5	<0.2	19	foliated to schistose, altered Nicola volcanics, amygdaloidal to breccia, no visible mineralization
40 metre	19250E 7825N	grab	<5	<0.2	41	foliated to schistose, altered Nicola volcanics, amygdaloidal to breccia, no visible mineralization
A	19350E 7750N	float	<5	0.8	37	near trench, quartz-carbonate alteration, Nicola volcanic and quartz porphyry
B	19350E 7750N	float	<5	12.8	377	near trench, quartz-carbonate alteration, Nicola volcanic and quartz porphyry, malachite stain?
C	19350E 7750N	float	<5	0.6	27	near trench, quartz-carbonate alteration, Nicola volcanic and quartz porphyry
D	19350E 7750N	float	<5	1.6	68	near trench, quartz-carbonate alteration, Nicola volcanic and quartz porphyry
	19480E 8175N	float	<5	<0.2	39	altered volcanic breccia, chlorite, brown alteration
	20290E 7800N	grab	<5	<0.2	6	suboutcrop, quartz stringer,
	20300E 7800N	grab	<5	<0.2	111	suboutcrop, quartz material, north-south fracturing with rustiness, fine grained magnetite related to quartz stringers
	20350E 7800N	grab	<5	<0.2	30	green Nicola volcanic with micro quartz stringers
	20415E 7810N	grab	<5	<0.2	6	fine grained grey, siliceous dyke? minor pyrite, 40 feet wide
	20950E 7875N	float	<5	<0.2	29	Nicola volcanic with rusty blebs
	20950E 8060N	grab	<5	<0.2	77	porphyritic Nicola volcanic, strong pyrite
	20950E 8375N	grab	<5	<0.2	53	fine grained Nicola with quartz stringers, trace of pyrite
	21050E 8040N	float	<5	<0.2	58	Nicola volcanic with blebs of pyrite
	21150E 8825N	grab	<5	<0.2	70	suboutcrop, green Nicola volcanic, fine grained pyrite
	21155E 8440N	grab	<5	0.2	51	shattered, rusty Nicola volcanic
	21250E 8100N	grab	<5	<0.2	145	Nicola volcanic or fine grained intrusive, pyrite on fractures
	21552E 8285N	grab	<5	<0.2	46	fine grained Nicola with rusty fractures
	21650E 8350N	grab	<5	<0.2	21	Nicola volcanic, rusty fractures
	21900E 8200N	float	<5	<0.2	45	rusty, fractured, Nicola volcanic
	22000E 8200N	float	<5	0.2	93	quartz vein

PLUG ASSAY PLAN - TRENCH 1						
Sample No	Width cm	Au ppb	Ag ppm	As ppm	Cu ppm	Description
001	100	<5	<0.2	2	21	moderate C-Q alteration, trace M
002	100	<5	<0.2	4	33	moderate C-Q alteration, trace M
003	100	<5	<0.2	6	33	moderate C-Q alteration, trace M, 2% mag
004	100	<5	<0.2	6	52	moderate C-Q alteration, trace M
005	100	<5	<0.2	<2	61	moderate C-Q alteration, trace M
006	100	<5	<0.2	4	36	strong C-Q-M alteration
007	100	<5	0.2	6	60	strong C-Q-M alteration
008	100	<5	<0.2	8	14	strong C-Q-M alteration
009	100	<5	<0.2	8	80	strong C-Q-M alteration
010	100	<5	<0.2	<2	39	strong C-Q-M alteration
011	100	<5	<0.2	2	13	strong C-Q-M alteration, rounded silicious breccia fragments
012	100	<5	<0.2	8	28	moderate C-Q alteration
013	100	<5	<0.2	4	30	moderate C-Q alteration
014	100	<5	<0.2	6	48	moderate C-Q alteration, trace mag
117	200	50	<0.2	2	35	chl schist, rusty, <5% C-Q veinlets
118	200	<5	<0.2	<2	35	chl schist, rusty
119	130	<5	<0.2	8	41	fresh, green chl schist

C	carbonate
Q	quartz
M	mariposite
chl	chlorite
mi	mica
py	pyrite
mag	magnetite
ga	galena
lim	limonite
cm	centimetre
mm	millimetre

PLUG ASSAY PLAN - TRENCH 2

Sample No	Width cm	Au ppb	Ag ppm	As ppm	Cu ppm	Description
015	85	<5	<0.2	30	29	fresh, dark grey-green volcanic, rusty fractures
016	30	<5	<0.2	8	30	shear zone, dark green fault gouge, chlorite, talc
017	100	<5	<0.2	4	54	green, chloritized, volcanic, soft, 25% C-Q veinlets (<1 cm), trace py
018	100	<5	<0.2	6	29	chloritized volcanic, schistose, 10% C-Q veinlets (<2 mm)
019	140	<5	<0.2	8	28	chloritized volcanic, schistose, 10% C-Q veinlets (<2 mm)
020	100	<5	<0.2	4	32	moderate C-Q-M alteration, rusty
021	100	<5	<0.2	8	26	bleached volcanic, minor C-Q-M alteration
022	100	<5	<0.2	10	20	moderate C-Q-M alteration
023	100	<5	<0.2	2	44	moderate C-Q-M alteration
024	120	<5	<0.2	8	29	moderate C-Q-M alteration, minor fine grained silicious dyke
025	130	<5	<0.2	6	72	grey, rusty, fractured, silicious dyke, bounded by faults
026	100	<5	0.2	<2	34	weak C-Q-M alteration, silicious dyke
027	140	<5	<0.2	2	41	moderate C-Q-M alteration
028	110	15	<0.2	6	77	grey, rusty, fractured, silicious dyke
029	100	<5	<0.2	14	41	chloritized volcanic, weak C-Q-M alteration
030	100	<5	<0.2	6	37	chloritized volcanic, weak C-Q-M alteration
031	100	200	14.2	24	103	chloritized volcanic, weak C-Q-M alteration
032	100	370	26.2	36	176	chloritized volcanic, moderate C-Q-M alteration
033	100	310	27.6	28	144	strong C-Q-M alteration
034	100	240	17.8	30	127	strong C-Q-M alteration
035	140	1540	45.0	174	126	shear, grey-white gouge, 20% Q fragments
036	70	205	13.4	38	42	strong C-Q-M alteration
037	170	1140	68.8	156	139	shear, grey-white gouge, 20% Q fragments
038	80	720	24.6	46	79	strong C-Q-M alteration
039	150	2080	84.8	144	204	shear, grey-white gouge, 20% Q fragments
040	85	240	12.4	26	93	moderate C-Q-M alteration
041	65	20780	39.8	34	58	strong C-Q-M alteration
042	100	1005	36.8	124	137	shear, grey-white gouge, 20% Q fragments
043	90	205	11.6	28	66	strong C-Q-F alteration
044	55	235	14.6	30	53	strong C-Q-M alteration
045	100	1210	36.8	128	93	shear, grey-white gouge, 20% Q fragments, 1% py
046	100	565	19.4	50	92	strong C-Q-M alteration, trace mag
047	50	220	6.2	24	36	strong C-Q-M alteration
048	150	1860	79.8	130	198	shear, grey-white gouge, 20% Q fragments, reddish stain
049	190	1540	65.8	126	189	shear, grey-white gouge, 20% Q fragments, reddish stain, 1% py
050	200	3880	113	122	195	shear, grey-white gouge, 20% Q fragments, reddish stain
051	200	2720	37.6	108	113	shear, grey-white gouge, 20% Q fragments, 1-2% py
052	200	4560	38.6	142	95	shear, grey-white gouge, 20% Q fragments, 1-2% py
053	100	2220	34.0	40	73	strong C-Q-M alteration
054	120	275	16.2	34	61	strong C-Q-M alteration
055	100	6920	55.6	28	89	strong C-Q-M alteration, 1% py, trace mag
056	110	10460	79.0	30	101	strong C-Q-M alteration, 1% py
057	100	7500	49.4	26	88	strong C-Q-M alteration, 1% py
058	110	3400	31.0	20	59	strong C-Q-M alteration, 1% py
059	100	1600	13.2	40	72	strong C-Q-M alteration, 1% py
060	110	3960	30.0	22	64	strong C-Q-M alteration, 1% py
061	100	960	17.8	36	73	strong C-Q-M alteration, 2-5% py, mag
062	110	705	10.2	22	54	strong C-Q-M alteration, 1%py
063	100	310	7.6	22	41	strong C-Q-M alteration, 1% py
064	110	80	4.0	10	61	strong C-Q-M alteration, 1% py

065	100	590	24.6	34	66	strong C-Q-M alteration, 1% py
066	110	105	5.6	16	82	strong C-Q-M alteration, 1% py
067	100	840	16.2	36	40	strong C-Q-M alteration, 1% py
068	120	415	12.4	38	53	strong C-Q-M alteration, 1% py
069	100	35	0.8	6	33	strong C-Q-M alteration, 1% py, mag
070	100	365	8.6	30	65	strong C-Q-M alteration
071	140	270	3.2	18	52	strong C-Q-M alteration
072	100	170	5.6	22	50	strong C-Q-M alteration
073	100	50	1.4	12	47	strong C-Q-M alteration
074	100	60	2.8	16	44	strong C-Q-M alteration

C	carbonate
Q	quartz
M	mariposite
chl	chlorite
mi	mica
py	pyrite
mag	magnetite
ga	galena
lim	limonitr
cm	cent.metre
mm	millimetre

PLUG - ASSAY PLAN - TRENCH 3						
Sample No	Width cm	Au ppb	Ag ppm	As ppm	Pb ppm	Description
075	60	105	7.4	22	106	dark green chl-mi schist, trace py
076	65	110	9.8	34	130	dark green chl-mi schist, 2 cm qtz veinlet, M
077	75	130	4.0	4	34	dark green chl-mi schist, 5-8 cm Q veinlet, trace ga
078	95	55	3.6	12	146	dark green chl-mi schist, 1 cm Q veinlet, parallel to schistosity
079	100	95	29.8	116	448	dark green chl-mi schist
080	120	50	9.0	68	188	dark green chl-mi schist, 2 cm Q veinlet, trace ga
081	100	25	26.8	212	194	dark green chl-mi schist, 2-4 cm Q veinlet, M, trace ga
082	60	55	62.2	194	650	dark green chl-mi schist, 5 cm Q veinlet, M, 1/2% ga
083	100	55	26.0	92	262	dark green chl-mi schist, 5-8 cm Q veinlet, M, 1/2% ga
084	85	35	16.6	84	350	dark green chl-mi schist
085	100	115	19.6	86	270	dark green chl-mi schist, 2-6 cm Q veinlet, M, 1/2% ga
086	75	15	15.2	112	304	dark green chl-mi schist, M
087	100	85	36.6	128	292	dark green chl-mi schist, 5 mm Q veinlets over 5 cm, M
088	110	120	54.0	94	596	dark green chl-mi schist, rusty
089	140	75	30.4	80	206	dark green chl-mi schist, rusty
090	100	240	175	184	1080	dark green chl-mi schist, 50% Q vein, M, 1/2% ga
091	140	270	100	270	1025	dark green chl-mi schist, 50% Q vein, M, 1% ga
092	130	40	13.4	314	202	dark green chl-mi schist, 50% Q vein, M, 1/2% ga, py
093	33	6140	1715	380	16300	dark green chl-mi schist, 90% Q vein, M, 2% ga, 1% cpy, py
094	135	115	12.0	388	152	dark green chl-mi schist, 20% Q vein, M, trace ga
095	36	4420	412	236	6560	dark green chl-mi schist, 90% Q vein, M, 1% ga, py
096	110	30	6.4	160	100	dark green chl-mi schist, 2 mm Q veinlets, M, trace ga
097	80	65	13.2	156	240	dark green chl-mi schist, 2-3 cm Q veinlet, M
098	150	30	8.0	92	138	dark green chl-mi schist, M
099	100	10	2.8	26	84	dark green chl-mi schist, 5% Q vein
100	85	50	0.8	12	16	dark green chl-mi schist, 2 mm Q veinlets parallel & cutting schistosity
101	90	145	0.8	8	20	dark green chl-mi schist, 2 mm Q veinlets parallel & cutting schistosity, ga
102	75	70	0.8	16	16	dark green chl-mi schist, 2 mm Q veinlets parallel & cutting schistosity
103	95	150	8.6	12	298	dark green chl-mi schist, 2 mm Q veinlets parallel & cutting schistosity
104	90	15	0.8	<2	44	dark green chl-mi schist, 2 mm Q veinlets parallel & cutting schistosity
105	100	25	1.4	10	34	dark green chl-mi schist, 2 mm Q veinlets parallel & cutting schistosity
106	75	4520	161	4	1335	dark green chl-mi schist, 2 mm Q veinlets parallel & cutting schistosity
107	90	50	0.8	2	32	dark green chl-mi schist, 2 mm Q veinlets parallel & cutting schistosity
108	100	350	1.2	16	78	dark green chl-mi schist, 2 mm Q veinlets parallel & cutting schistosity
127	85	20	24.8	112	300	dark green chl-mi schist, Q veinlet parallel & cutting schistosity, M, ga
128	35	180	69.0	356	688	Q vein, M, ga
129	grab	<5	1.0	6	74	1 mm to 8 cm wide Q vein, chl on fractures, lim, from wall rock

C	carbonate
Q	quartz
M	mariposite
chl	chlorite
mi	mica
py	pyrite
mag	magnetite
ga	galena
lim	limonite
cm	centimetre
mm	millimetre



PLUG ASSAY PLAN - TRENCH 4						
Sample No	Width cm	Au ppb	Ag ppm	As ppm	Cu ppm	Description
109	100	<5	<0.2	26	23	strong C-Q-M alteration, 1-2%mag
110	100	<5	0.6	24	28	strong C-Q-M alteration
111	100	<5	0.2	28	24	strong C-Q-M alteration
112	100	<5	<0.2	30	20	strong C-Q-M alteration
113	100	<5	<0.2	20	62	strong C-Q-M alteration
114	100	<5	<0.2	12	16	strong C-Q-M alteration, less M, 1% mag
115	100	<5	<0.2	12	22	strong C-Q-M alteration
116	100	<5	0.2	10	27	strong C-Q-M alteration, 40% dark grey dyke strongly magnetic

C	carbonate
Q	quartz
M	mariposite
chl	chlorite
mi	mica
py	pyrite
mag	magnetite
ga	galena
lim	limonitr
cm	centimetre
mm	millimetre

**PLUG ASSAY PLAN - TRENCH 5**

Sample No	Width cm	Au ppb	Ag ppm	As ppm	Cu ppm	Description
120	100	<5	1.0	4	9	feldspar porphyry, 1-2 mm Q veinlets, 1-2% disseminated py
121	100	10	1.6	4	9	feldspar porphyry, 1-2 mm Q veinlets, 1-2% disseminated py
122	100	30	2.0	<2	30	feldspar porphyry, 1-2 mm Q veinlets, 2-4% disseminated py
123	100	20	1.6	2	13	feldspar porphyry, 1-2 mm Q veinlets, 1-2% disseminated py
124	100	10	0.6	2	23	feldspar porphyry, 1-2 mm Q veinlets, 1-2% disseminated py
125	100	10	0.2	<2	16	feldspar porphyry, 1-2 mm Q veinlets, 2-4% disseminated py
126	100	15	0.6	4	12	feldspar porphyry, Q eyes, 1-2 mm Q veinlets, 1-2% disseminated py

C	carbonate
Q	quartz
M	mariposite
chl	chlorite
mi	mica
py	pyrite
mag	magnetite
ga	galena
lim	limonite
cm	centimetre
mm	millimetre

**APPENDIX III**

**DRILL LOGS**



































































**APPENDIX IV**  
**COST STATEMENT**

## COST STATEMENT

### SALARIES

Grant Crooker, Geologist July-1, 1997-January 10, 1998 25 days @ \$ 400.00/day	\$	10,000.00
Bill Botel, Geologist August 10-17, 1997 7 days @ \$ 400.00/day		2,800.00
Rod Arnold, Geologist November 15-22, 1997 6.5 days @ \$ 400.00/day		2,600.00
Mike Harris, Field Assistant August 10 October 9, 1997 9 days @ \$ 250.00/day		2,250.00
Keith Crow, Field Assistant September 30-November 21, 1997 12 days @ \$ 200.00/day		2,400.00
Will Schneider, Field Assistant September 30-November 21, 1997 12 days @ \$ 200.00/day		2,400.00

### MEALS AND ACCOMMODATION

Grant Crooker - 20 days @ \$ 50.00/day	1,000.00
Bill Botel - 7 days @ \$ 50.00/day	350.00
Rod Arnold - 6.5 days @ \$ 50.00/day	325.00
Mike Harris - 9 days @ \$ 50.00/day	450.00
Keith Crow - 12 days @ \$ 50.00/day	600.00
Will Schneider - 12 days @ \$ 50.00/day	600.00

### TRANSPORTATION

Vehicle Rental (Ford 3/4 ton 4x4) July 1-November 22, 1997 20 days @ \$ 60.00/day	1,200.00
Vehicle Rental (Chev 3/4 ton 4x4) July 1-November, 22, 1997 12 days @ \$ 60.00/day	720.00
Gasoline	650.00

**EQUIPMENT RENTAL**

Morrison Ranches, Hitachi 200 Excavator  
8 hours @ \$ 105.00/hour 840.00

Northspan Explorations Ltd.  
1790 feet reverse circulation drilling @ \$ 11.45/foot 20,495.50

Power Saw  
4 days @ \$ 25.00/day 100.00

Felker Rock Saw and blades  
3 days @ \$ 50.00/day 150.00

**GEOCHEMICAL ANALYSIS**

179 rock samples, 32 element ICP, 30 gram Au @ \$ 21.85 3,911.15

278 drill cuttings, 32 element ICP, 30 gram Au @ \$ 21.85 6,074.30

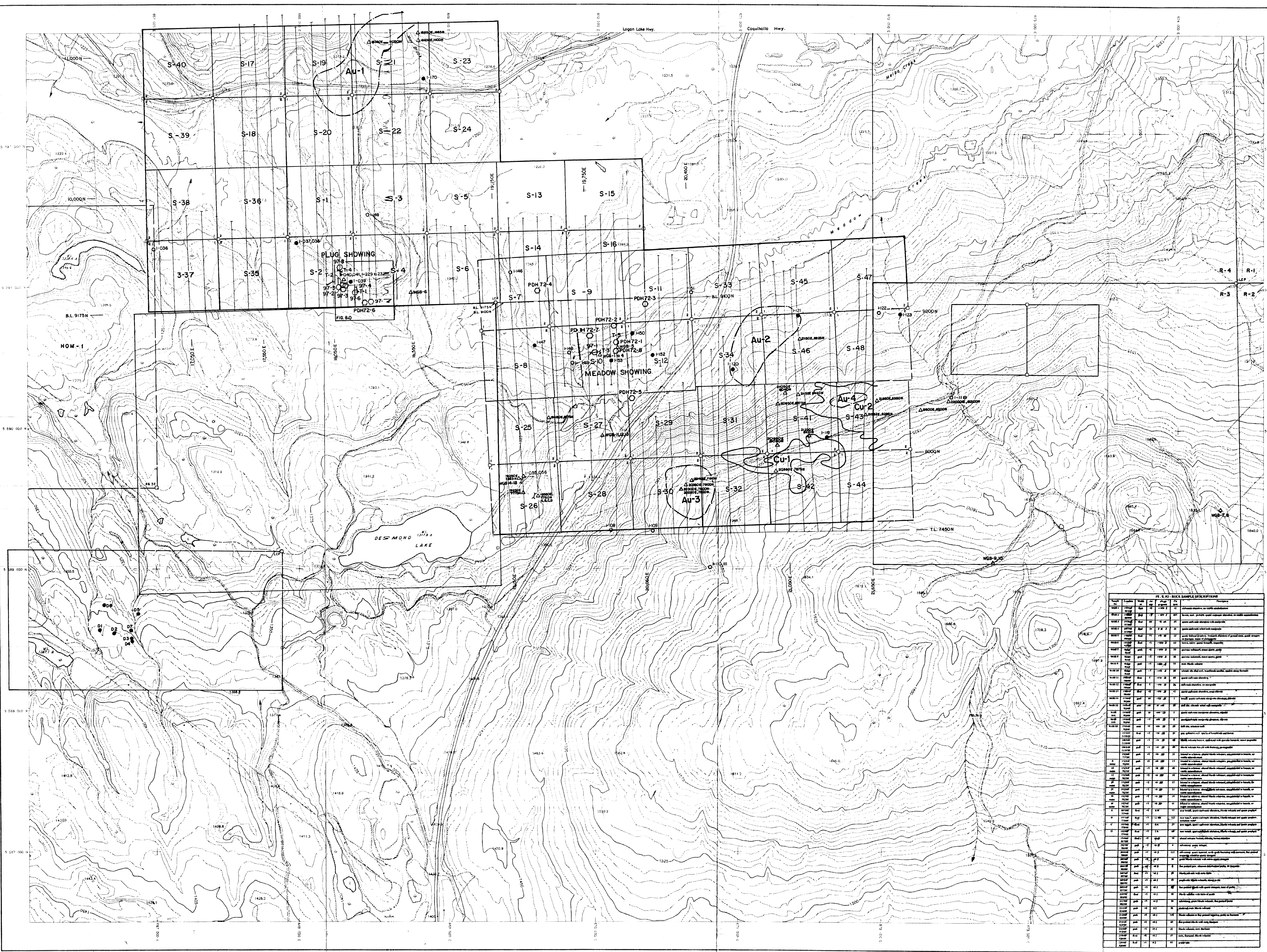
**SUPPLIES** 1,075.00

**FREIGHT** 276.25

**DRAFTING** 300.00

**PREPARATION OF REPORT** 500.00

**TOTAL \$** 62,067.20



**LEGEND**

INDEX CONTOUR	25
INTERMEDIATE CONTOUR	
DEPRESSION CONTOUR	
LAKE	
STREAM	
INTERMITTENT STREAM	
ADVERSE STREAM	
TREES	
DRAIN	
PAVED ROAD	
GRAVEL ROAD	
ROUGH ROAD	
TRAIL	
AREA CUTTING	
BOUNDARY	
CONTROL POINT	208
CALIBRAT	
UTILITY POLE	
SPOT HEIGHT	127.3

PROPOSED FROM AERIAL PHOTOGRAPHY, 1987  
 PHOTO SCALE 1:25,000  
 CONTROL POINT DATA BASED ON  
 CANADIAN NATIONAL MAPS  
 COMPILED BY: GFC, MAPPING SERVICES LTD. (88-28)

- 1031 Silt sample location B.N.R.
- Anomalous silt sample, Au >15 ppb
- 1040 Rock sample location B.N.R.
- Drill hole (PDH72-1 = percussion hole 97-1 = reverse circulation)
- Trench
- Legal corner post
- Claim post - 1 Initial 2 Final
- Property boundary
- Copper soil geochemical anomaly (>60 ppm Cu)
- Gold soil geochemical anomaly (>10 ppb Au)

Contour interval = 5 m.

# 25,405

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

SAMPLE PLAN

**Silt Samples**


Sample No.	Depth (m)	Au ppm	Cu ppm	Ag ppm	As ppm	Pb ppm	Cd ppm
1-036	20	10	<5	30	<5	2	<5
1-037	20	65	<5	10	<5	2	<5
1-038	20	<5	<5	20	<5	1	<5
1-039	20	230	300	<5	<5	4	<5
1-106	20	<5	<5	<5	<5	4	2
1-109	20	<5	10	<5	<5	4	<5
1-110	20	<5	<5	<5	<5	3	<5
1-111	20	<5	<5	<5	<5	2	<5
1-112	20	<5	<5	10	<5	6	<5
1-119	20	365	180	10	<5	4	<5
1-120	20	25	<5	<5	<5	10	<5
1-121	20	<5	150	<5	<5	4	<5
1-122	20	<5	<5	10	<5	4	<5
1-123	20	765	25	<5	<5	4	<5
1-145	20	10	<5	<5	<5	3	4
1-146	20	<5	<5	<5	<5	3	6
1-147	20	<5	250	10	<5	3	18
1-148	20	<5	<5	10	<5	10	<5
1-149	20	<5	3	20	<5	4	25
1-200	20	3	20	10	<5	<5	19
1-201	20	<5	15	10	<5	2	<5
1-202	20	<5	10	<5	<5	4	22
1-203	20	35	20	10	<5	4	22
1-212	20	<5	20	10	<5	4	20
1-213	20	<5	20	10	<5	4	20
1-210	20	260	285	10	<5	<5	30

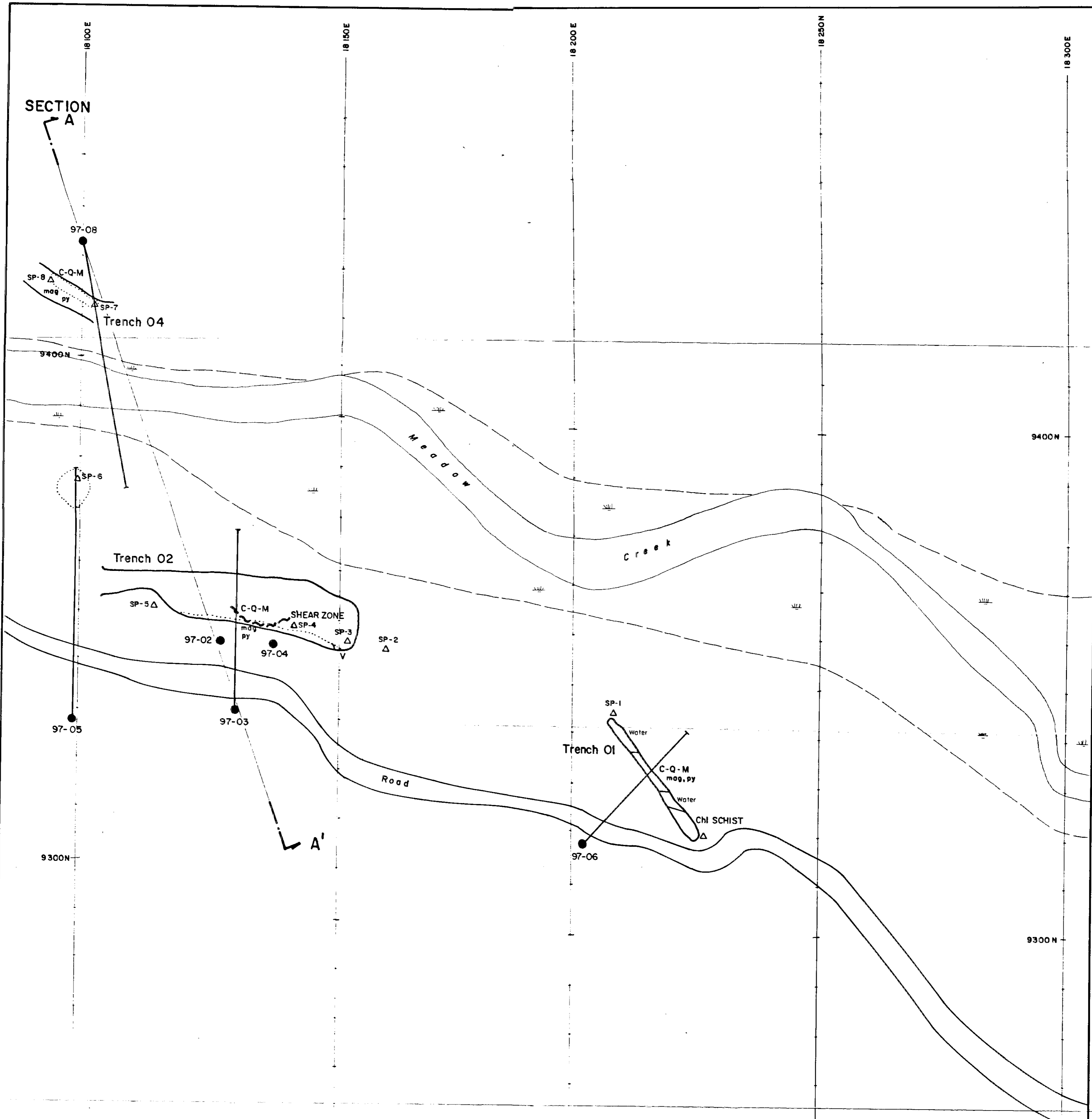
**ROCK SAMPLE DESCRIPTIONS**

Sample No.	Depth (m)	Rock Type	Description
1-040	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-041	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-042	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-043	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-044	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-045	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-046	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-047	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-048	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-049	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-050	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-051	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-052	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-053	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-054	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-055	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-056	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-057	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-058	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-059	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-060	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-061	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-062	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-063	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-064	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-065	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-066	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-067	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-068	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-069	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.
1-070	20	Granite	Medium to coarse grained granite with visible microcline and quartz veins.

**Rock Samples**

Sample No.	Depth (m)	Au ppm	Cu ppm	Ag ppm	As ppm	Pb ppm	Cd ppm
1-040	<5	20	<5	3	<5	2	<5
1-041	<5	<5	<5	3	<5	2	<5
1-042	<5	<5	<5	3	<5	2	<5
1-043	<5	<5	<5	3	<5	2	<5
1-044	<5	<5	<5	3	<5	2	<5
1-045	<5	<5	<5	3	<5	2	<5
1-046	<5	<5	<5	3	<5	2	<5
1-047	<5	<5	<5	3	<5	2	<5
1-048	<5	<5	<5	3	<5	2	<5
1-049	<5	<5	<5	3	<5	2	<5
1-050	<5	<5	<5	3	<5	2	<5
1-051	<5	<5	<5	3	<5	2	<5
1-052	<5	<5	<5	3	<5	2	<5
1-053	<5	<5	<5	3	<5	2	<5
1-054	<5	<5	<5	3	<5	2	<5
1-055	<5	<5	<5	3	<5	2	<5
1-056	<5	<5	<5	3	<5	2	<5
1-057	<5	<5	<5	3	<5	2	<5
1-058	<5	<5	<5	3	<5	2	<5
1-059	<5	<5	<5	3	<5	2	<5
1-060	<5	<5	<5	3	<5	2	<5
1-061	<5	<5	<5	3	<5	2	<5
1-062	<5	<5	<5	3	<5	2	<5
1-063	<5	<5	<5	3	<5	2	<5
1-064	<5	<5	<5	3	<5	2	<5
1-065	<5	<5	<5	3	<5	2	<5
1-066	<5	<5	<5	3	<5	2	<5
1-067	<5	<5	<5	3	<5	2	<5
1-068	<5	<5	<5	3	<5	2	<5
1-069	<5	<5	<5	3	<5	2	<5
1-070	<5	<5	<5	3	<5	2	<5

  
**GEOTECH CONSULTANTS LTD.**  
**GOLDCLIFF RESOURCE CORPORATION**  
**PLUG PROJECT, S CLAIMS**  
**COMPLATION and**  
**GRID LAYOUT**  
 KAMLOOPS N.D., B.C.  
 0 200 400 600 metres  
 DATE: NOV 1997 SCALE: 1:10,000  
 DRAWN BY: GFC N.T.S.: 921-7E FIGURE: 7.0



**LEGEND**

- V Volcanics
- C Carbonate
- Q Quartz
- M Mariposite
- Outcrop
- Shear zone
- 97-01 Drill hole & No.
- Trench or road
- Grid line
- Δ SP-1 Survey point
  
- mag Magnetite
- py Pyrite
- chi Chlorite

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

25,405



GEOTEC CONSULTANTS LTD.		
GOLDCLIFF RESOURCE CORPORATION		
PLUG PROJECT, S CLAIMS PLUG ZONE DRILL HOLE and TRENCH LOCATIONS		
N.T.S. 92I - 7E	KAMLOOPS M.D., B.C.	
DATE: NOV. 1997	SCALE: AS SHOWN	FIGURE: 8.0
DRAWN BY: G.F.C.		