GEOLOGICAL AND GEOCHEMICAL REPORT ON THE YREKA PROPERTY

BRITISH COLUMBIA
NANAIMO MINING DIVISION
92L/5E
LATITUDE 50°27'30''N
LONGITUDE 127°34'00''W

FOR

TALLTREE RESOURCES LTD.
1104 – 750 West Pender Street,
Vancouver, B.C.,
V6C 2T8

BY

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23035 Cliff Avenue,
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June 16, 1998

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1. INTRODUCTION AND SUMMARY

This report was prepared at the request of J.Minni, president of Talltree Resources Ltd., 1104 – 750 West Pender Street, Vancouver, B.C., who controls the claims under option.

The CD, BF, Bern, and Micha 5 claims, a contiguous group called "Yreka", are situated on Vancouver Island in southwestern B.C. The property area is underlain by Triassic and Jurassic rock formations of the Insular Belt. The 1995 assessment of mineral potential conducted by B.C. Government Geological Survey Branch rated the area highly in terms of its perceived potential for undiscovered mineral deposits (Massey, 1995). The most significant economic deposit in the area was the Island Copper deposit located 16 kilometers northwest of the Yreka property. The mine was in continuous production from 1971 to 1997 and was the third largest copper mine in Canada.

Copper was discovered on Yreka property at the turn of the century and was the target of intermittent exploration and production until 1979. A total 145,334 tonnes of ore averaging 2.71 percent copper, 31.22 g/t silver and 0.34 g/t gold was mined. Most of the production took place between 1965 and 1967 and was accomplished by a joint venture between Mitsubishi Metal Mining Co. and Yreka Mines Limited. Noranda Explorations Ltd. delineated the deposit by diamond drilling and underground development in 1953-56. An estimated 2.7 million (1998 $'s) has been spent on exploration since 1953.

Numerous mineral prospects surrounding the old mine workings were discovered during the years of exploration activity. Limited drilling was performed during the seventies to test three of the nine identified prospects.

The following report describes the latest geochemical program performed on the property by Talltree Resources Ltd. The expenditure involved with the new survey and economic evaluation is reported to be minimum $ 100,000.

The author acknowledges the assistance of C.Dyakowski (P.Geo.) and B.Fitch regarding management of the program, T. Jones, Patric Poissant, Michael Pringle, and Jason Fitch regarding prospecting and sampling.

The results of the preliminary program consisting of soil and rock geochemistry surveys can be summarized as follows:

A total of 8 mineral prospects have been identified within the newly defined exploration perimeter ranging 200 to 1000 metres from the old mine. A few of them contain numerous showings and exploratory adits but none was a past producer.

During the course of 1998 surveys 5 of the 8 prospects were examined and sampled. Two prospects, Clyde and North Arm, revealed particularly promising geological features and returned encouraging assay results. They were selected as targets of the 1999 exploration programs (Figure 18).

The mineralization at the Yreka deposit is hosted by a skarn which is 500 metres long and 30 –100 metres wide, and was well documented during exploration work in the past. Most of the copper-gold-silver production came from a high-grade sulphide zone of limited size, grading more than 5 % copper ("A" Zone), outlined by 1954 drilling in the vicinity of old exploration adits at elevation 600 meters. Mine workings presently contain large stopes on three sub-levels within the largely mined out deposit. The deposit, delineated at about 1 % copper cut-off, is situated near the hangingwall of the skarn. It is 140 metres long, 100 metres wide and from 5 to 23 metres thick. References to and the descriptions of the Yreka deposit are included in this report for the purpose of the model and exploration guidelines to be applied in evaluating the surrounding prospects.

The southern limit of the main skarn zone, near Clyde prospect, remains open and is situated 300 metres south of the Yreka deposit. It is marked by old exploratory workings on the north bank of Canyon Creek where the initial copper discovery took place at the turn of the century. The workings are presently inaccessible. No production was reported from Clyde workings, however two test shipments were made in 1903 and 1917. The 1954 data indicates that the thickness of the main skarn horizon in this area is at its maximum exceeding 250 meters. After research and preliminary evaluation this year the Clyde prospect was included in the "new exploration perimeter" along with other prospects of economic interest. Apart from old workings this prospect contains mineralized outcrops of significant size, most of which were examined during geochemistry surveys in 1998. Sampling results include a 8.0 metre chip sample which assayed 1.67 % copper, 30.5 g/t silver and 161 ppb gold and 6.0 metre sample assaying 1.95 % copper, 35.7 g/t silver and 294 ppb gold. In addition, a 3.5 metre chip sample taken 120 meters northeast of the Clyde portals produced 2.09 % copper, 31.7 ppm silver and 914 ppb gold (Figure 9). Highly anomalous assays were also obtained locally from rocks surrounding the main skarn. This area was mapped and sampled in 1954 (Noranda), and represents the so called "lower band horizon" which branches off the main zone to the northeast. The 1998 soil geochemistry extended this zone to the northeast for a distance of at least 110 meters along strike for a total length of 300 metres. Indications are that additional important mineralization is present within and near the old Clyde workings and a program of exploratory drilling is recommended (Figure 18).

Other mineral occurrences and showings surrounding the Yreka deposit also have considerable exploration potential. Large gossans and alteration zones at the North Arm prospect indicate a prime target for large tonnage copper deposit. The prospect is located 250 – 400 meters west of the Clyde prospect and has seen limited exploration in the past. The economic potential is substantiated by encouraging grab sample results which produced up to 3.54 % copper with associated low-grade gold (155 ppb) and silver (46.2 g/t). Molybdenite and chalcopyrite were noted in outcrops encompassed by large gossans suggesting that the style of mineralization may be porphyry related. A work program followed by exploratory and definitive drilling is recommended to evaluate the potential of this area (Figure18).

In summary numerous prospects within the new exploration perimeter require follow up geochemistry surveys and prospecting. Included are Comstock, Anvil and the area between Upper Blue Grouse and Clyde as shown on included maps. The North Arm and Clyde prospects returned very encouraging results which warrant diamond drilling following detailed definition of the targets.

2. LOCATION, ACCESS AND TOPOGRAPHY

The Yreka property is located in the northern part of Vancouver Island, B.C. (Figure 1), centered at approximately 50°27'30''N Lat., 127°34'00''W Long (UTM 5,590,500N and 601,700E).

The nearest settlement is Port Alice, the site of a pulp mill, situated across Neurotsos Inlet, 3.5 km southwest of the property. The inlet is the southeast arm of Quatsino Sound which leads westerly to the Pacific Ocean. Access to a dock on the property is by boat from Juneau Landing near Port Alice or Coal Harbour at Holberg Inlet 12 kilometers southwest of Port Hardy. A 1.9 km reconditioned road leads from the dock to the property workings.

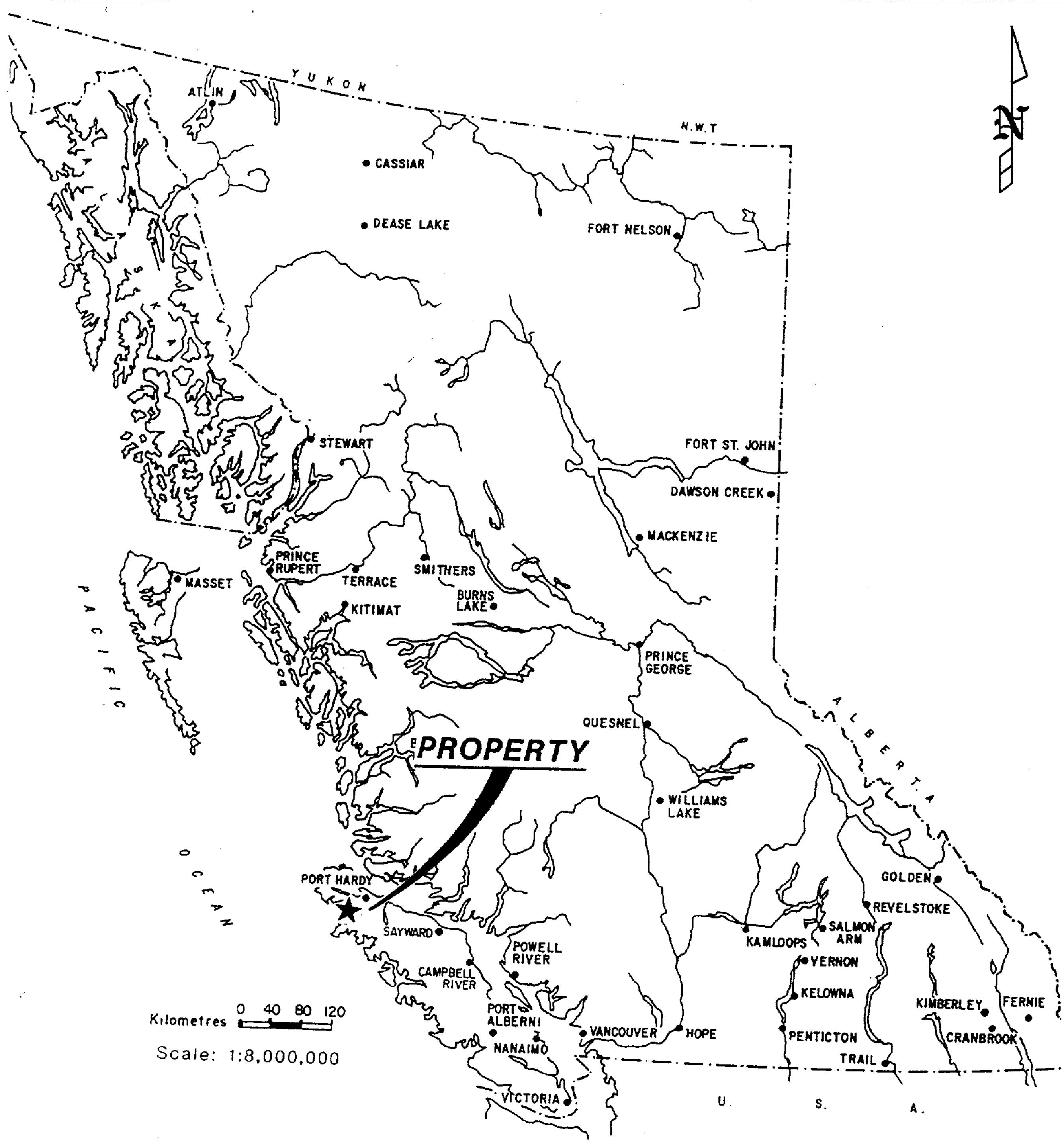
The area on the west side of Vancouver Island has rugged relief and high annual precipitation.

The property extends from tidewater up the mountainside to the west, and covers an area of 675 hectares. Most of it is heavily wooded and accessible by foot. Steep slopes and bedrock cliffs are common and the elevation ranges from 0 to 1128 metres above sea level (Mount Comstock). The highest peak in the area, Mount Wolfenden (1273 m), lies to the south of the claim area only 3 kilometers from the shore of Neroutsos Inlet. Mine workings range in elevation from 325 to 700 meters.

Montane and lowland areas are deeply incised by valleys that drain to Neroutsos Inlet. Major valleys and fjords exploit regional northwest and northeast-striking faults.

3. PROPERTY DESCRIPTION

The property consists of 4 continuous mineral claims comprising 27 units located in Nanaimo Mining Division (NTS 92L/5E). The particulars are as follows:



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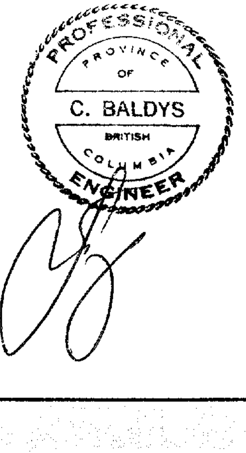

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YREKA PROJECT

FIG. 1
LOCATION MAP

NANAIMO M.D., B.C.

SCALE: As Shown	GEOLOGIST: C. BALDYS
DATE: June 11, 1998	DRAWN BY: RPM
FIG. NO.: 1	REDRAWN BY:
NTS: 92L/6	DWG FILE: FIG 98-1.DWG

CLAIM NAME	NUMBER OF UNITS	TYPE	RECORD #	REGISTERED OWNER	EXPIRY DATE
CD	16	MGS	353373	C.DYAKOWSKI	JAN. 25, 1999
BF	6	MGS	353335	C.DYAKOWSKI	JAN. 25, 1999
BERN	4	MSG	361294	C.DYAKOWSKI	JAN. 24, 1999
MICHA 5	1	2 POST	361321	C.DYAKOWSKI	FEB. 19, 1999

The claims are currently under option to Talltree Resources Ltd. of Vancouver B.C. The Edison Crown Granted claim (Lot #244) is contained within the Yreka claim group boundary but is not part of the Talltree option (Figure 2).

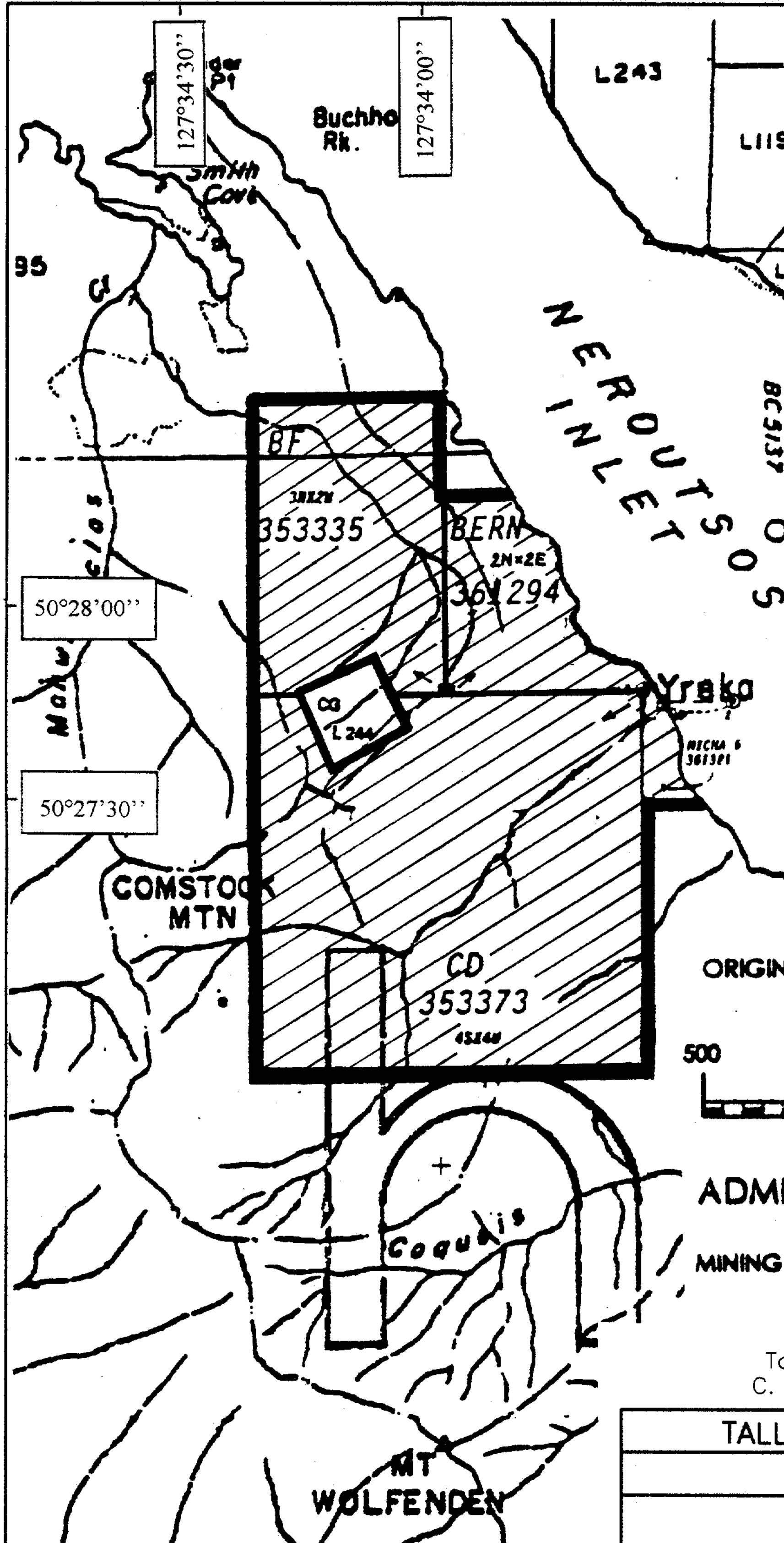
The claim area approximates 675 hectares.

4. HISTORY AND DEVELOPMENT

The Yreka copper deposit was discovered at the end of the last century, the first claims being staked in 1898 and 1899. The discovery was quickly followed by a considerable amount of development work, and by 1903 the property was equipped with an aerial tram, a ten-drill air compressor powered by a Pelton wheel, ore bunkers, and a wharf. In that year 2500 tons of copper ore, of unknown grade, was shipped from the Clyde workings on the property. In 1903 the Northwestern Smelting and Refining Company assumed control of the property from Yreka Copper Company, however all work ceased in 1904.

Stimulated by the substantial increase in the price of copper which took place towards the end of the First World War, operations were resumed in 1917 by N.S.Clarke and his associates of Seattle. A new wharf, ore bunkers and aerial tramway were erected in the spring of 1917 and a shipment of 900 tons of 3% copper ore was made, but the property was again abandoned later in the year.

No further work was done on the property until 1952, when it was taken over by Noranda Exploration Company Limited. In that year sampling and prospecting were carried out. In 1953 the company conducted detailed mapping and “X-Ray” diamond drilling. Two short holes were drilled at the portal of Tunnel # 1 on the Clyde workings. One hole intersected 18.5 feet of 1.42 % copper (Figure 7). Underground sampling indicated similar average copper grades in sulphide zones mapped in Tunnels # 1, 2 and 3. Gold assays of up to 0.05 oz/t and silver up to 3.0 oz/t were returned from chip samples of the best mineralized sections. It appears that Noranda performed some mapping and reconnaissance work on a couple other prospects which are now part of the new exploration perimeter. At Upper Blue Grouse it outlined an area of mineralization approximately 34 metres long and 5 – 10 metres wide on a steep northerly facing scarp immediately south of, and across Canyon Creek from, the Clyde prospect. Nine samples



BRITISH COLUMBIA

MINISTRY OF ENERGY AND MINES

ENERGY AND MINERALS DIVISION

MINERAL TITLES BRANCH

MINERAL TITLES REFERENCE

MAP 092L05E

U.T.M. ZONE 9

ORIGINAL PRODUCED AT 1 : 31 680

METRES

500 0 500 1000 1500 2000

ADMINISTRATIVE AREAS

MINING DIVISIONS: ALBERNI, NANAIMO

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FIG. 2
CLAIM MAP

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SCALE: As Shown	GEOLOGIST: C. BALDYS
DATE: June 11, 1998	DRAWN BY: RPM
FIG. NO.: 2	REDRAWN BY:
NTS: 92L/6	DWG FILE: FIG 98-2.DWG

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PROVINCE OF BRITISH COLUMBIA
C. BALDYS

taken later by Green Eagle Mines Ltd. in 1971 averaged 0.42 % copper and 1.30 % zinc (J.R. Poloni, 1971).

More diamond drilling was carried out by Noranda at higher elevation in 1954 followed by underground development on two levels in 1955 and 1956 at the central and northern part of the main skarn zone (Figure 6). No production was reported during this period.

By 1956 a total 40,388 feet of diamond drilling (EX and AX size), 6103 feet of drifting and cross cutting and 1723 feet of raises were completed on the property (J.R. Poloni, 1971).

The property was dormant between 1958 and 1964. In 1965, Minoca Mines Ltd., jointly owned by Mitsubishi Metal Mining Co. Ltd (49%) and Yreka Mines Ltd. (51%), prepared the property for production based on the ore resource figure of 154,221 tonnes grading 3.7% copper and 41.15 g/t silver. This figure was classified as "measured geological resource", based on Noranda's exploration work from 1953 to 1956. An additional indicated resource was estimated at 45,359 tonnes of 2.6 percent copper and 34.29 g/t silver (MINFILE reprint from Northern Miner, 1965).

Production between the commencement of milling in November, 1965 and cessation of operations at the beginning of October 1967 was 133,572 tonnes of ore, grading 2.9% copper, 32.79 g/t silver and 0.36 g/t gold (MINFILE, 1989). The majority of ore was extracted from the 15 metre wide, 49 metre long and 60 metre high "A" zone (Figure 6). The zone was mined by stoping on 3 sub-levels.

No production from the prospects surrounding the Yreka deposit is reported. Exploration adits are situated at the Edison and Superior, to the north of, and at the Clyde, to the south of the old mine. Historical designations and names like "tunnel portal" were used in the drawings of this report to avoid confusion even though all of them are adits. Trenches and/or open cuts were reported to exist in most prospects.

In 1970 the property was optioned by Green Eagle Mines Ltd from K.Akre.
The company conducted airborne electromagnetic and magnetometer surveys over the main part of the property as well as ground geophysical and geochemical surveys over the Tuscarora and Upper Blue Grouse areas (Figure 4). In addition, reconnaissance stream sediment sampling was carried along the creeks to the south and north of Canyon Creek. Copper, zinc and molybdenum anomalies were located in creeks draining the slopes of Upper and Lower Blue Grouse prospects to the south of Canyon Creek.

In 1972 ISO Explorations Ltd., who optioned the property from Green Eagle Mines Ltd., conducted geochemical and geophysical surveys on nine prospective areas in the vicinity of the Yreka Mine workings. At the time the claims extended most of the way to Mount Wolfenden and ISO carried out a stream silt survey of the Coquis Creek and creeks north and east of Mount Wolfenden (Figure 2). Anomalous zinc results were obtained but no follow-up surveys were conducted.

The main focus of ISO's work was the targets surrounding the Yreka deposit. It did however, include the northern (Superior) and the southern (Clyde) limits of the skarn horizon (Figure 4). A majority of the target areas were surveyed by MAG, VLF, self potential and soil geochemistry surveys. Two of the nine areas, Comstock-Edison and North Arm, were tested by diamond drilling the same year. A total of 1,844 feet of drilling at Comstock-Edison was performed to test two copper-silver showings discovered in 1971 and 1972. The down dip extension of one of the showings (No.8) was intersected. The best assay yielded 1.92 % copper across 5.9 metres. Two holes drilled in the North Arm Creek were aimed at testing a VLF conductor. One hole was lost in bad ground at 46 feet. The second hole was drilled to 116 feet of length. No mineralization, only pyrite, was intersected.

The 1972 report concluded that the Superior, Comstock-Edison and Lower Blue Grouse areas warranted further work based on survey results. (R.V. Crossley). It appears that this conclusion was based solely on geophysical results. There is no reference to rock geochemistry results and anomalous soil results were discounted unless they correlated with geophysical anomalies. As a result the North Arm prospect was temporarily "condemned" by unsuccessful drilling of a VLF geophysical anomaly and the Anvil prospect was excluded due to the absence of a significant geophysical anomaly. It appears that most grid survey areas were too small to produce significant anomalies. On balance, however, the 1972 work produced useful exploration data with numerous clues for further exploration.

In 1978 the mineral title to the property was registered in the name of Uke Resources Limited. In 1979 the company drilled 3 diamond holes from one collar location at the Tuscarora prospect. A total of 300 feet was drilled. The assessment report filed with the Ministry of Mines and Petroleum Resources contains no reference to assay results.

Outside the current perimeter of the Yreka property, exploration activity continued throughout the eighties. In 1988 Teck Exploration Limited carried out a regional stream geochemistry survey in the area between Klaskino Inlet and Neourotsos Inlet (Figure 3). Anomalous gold and zinc values obtained from the drainage's southwest of Mount Wolfenden were followed by more detailed moss mat silt sampling and reconnaissance geochemical soil sampling lines. Consistent anomalous values with strong direct correlation between zinc and gold were obtained from the northeastern slope of Mount Wolfenden (Figure 2). A rock chip sample taken in this area from a 0.5 meter vein mineralized with pyrite and sphalerite assayed 1350 ppb gold and 7.0 % zinc.

In March and May 1998 Talltree Resources Ltd. conducted an exploration program aimed at evaluating the economic potential of the property. Initial examination was done by using boat access from Coal Harbour located 15 kilometres northeast of the property. Subsequently a camp with a 5 man crew was established at the property to conduct detailed work on two selected exploration targets. A total of 135 man-days were spent on the property.

The exploration work consisted of rock and soil geochemistry surveys, prospecting and line cutting. A total of 83 rock samples and 285 soil samples were collected from the property area. In addition 1.8 kilometers of old access road was upgraded by an excavator. Work included new water bars, cross ditches and repairing of a short washed-out section. The mechanical work was preceded by field assessment and recommendations made by S.Petersen, P.Eng on March 6, 1998.

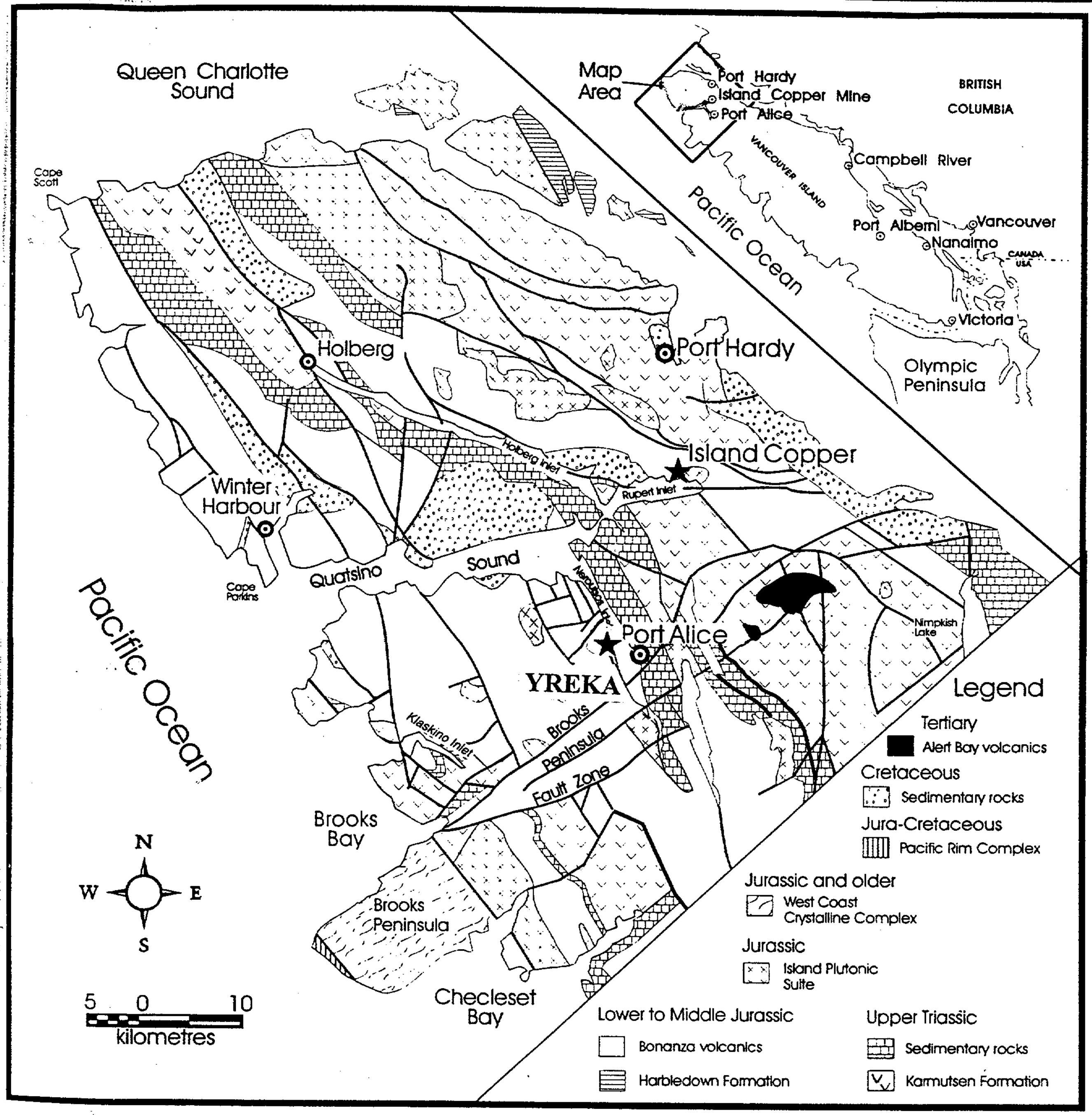
Two areas were selected for detailed sampling and examination: Lower Blue Grouse and Clyde (Figure 4). Blue Grouse is an old prospect with showings comprising trenches and open cuts. Further work was recommended on it in 1972 based on encouraging geochemistry and geophysical results (R.V. Crosley,1972). The Clyde area surrounds old underground exploratory workings which have seen little surveying since the 1950's. It is situated 300 metres south of the former Yreka Mine. Geological evidence suggests that the skarn horizon of the main zone reaches its greatest thickness in this area (Figure 5 and 7). A part of the footwall zone branches off and traverses the steep hill to the northeast (Figure 9). According to J.R. Billingsley, former General Manager of the Yreka Mine, it was known in the past as the "lower skarn band" carrying some economic potential, however it had not been explored to date (personal communications, 1998).

5. REGIONAL GEOLOGY AND METALLOGENY

Most of Vancouver Island is underlain by rocks of the Insular Belt of the Canadian Cordillera. In recent years the lower part of the Insular Belt stratigraphy, including the Paleozoic Sicker Group, Triassic Vancouver Group and Jurassic Bonanza Group, has been recognized as part of an allochthonous terrane derived from more southerly latitudes (A. Southerland Brown, A.Yorath, 1985). This major terrane has been named "Wrangellia". It comprises an ensimatic island arc sequence which ascended from the zone of partial melting localized at the intersection of the eastward dipping subduction zone with the upper mantle at a depth of approximately 100 km. It was accreted to the North American continent in the Cretaceous, along a suture crossing the coast Plutonic Complex at an acute angle.

The magmatic history of Vancouver Island can be simplified into four major episodes: (1) formation of the Paleozoic volcanic arc of the Sicker Group (2) extrusion of the Triassic tholeitic basalts of the Karmutsen Formation (3) development of the Jurassic volcanic arc of the Bonanza Group and related Island Intrusions (Island Plutonic Suite), and (4) Tertiary volcanic and plutonic activity including intrusions of the Tertiary Tofino suite.

The generalized geology of northern Vancouver Island is shown on Figure 3. The oldest rocks encountered in the Quatsino Sound area belong to the Upper Triassic Vancouver Group and comprise tholeitic flood basalts (Karmutsen Formation) at the base, overlain by thinly bedded to massive limestone (Quatsino Formation) and intercalated marine shale, siltstone and impure limestone (Parson Bay Formation). Above it, the Lower to



Regional Geology of Northern Vancouver Island (after G.T. Nixon et al)

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FIG. 3

REGIONAL GEOLOGY

NANAIMO M.D., B.C.

SCALE: As Shown	GEOLOGIST: C. BALDYS
DATE: June 11, 1998	DRAWN BY: RPM
FIG. NO.: 3	REDRAWN BY:
NTS: 92L/6	DWG FILE: FIG 98-3.DWG

Middle Jurassic Bonanza Group is composed of mafic to felsic volcanic and lesser intercalated sedimentary rocks laid down in both submarine and subaerial environments. The Bonanza Group is unconformably overlain by marine to non-marine Upper Jurassic (?) to Cretaceous clastic sequences and localized Tertiary volcanic rocks. The Mesozoic strata are intruded by Lower to Middle Jurassic granitoids of the Island Plutonic Suite, and mafic to felsic dykes and sills of Karmutsen, Bonanza and Tertiary age.

With reference to "Metallogeny", Vancouver Island has a long history of mineral exploration and mining dating from the discovery of coal near Fort Rupert in 1848. Over 1300 mineral occurrences are recorded in the MINFILE database. At present, three mines are operating on Vancouver Island – Myra Falls (Cu, Zn, Ag, Au, Pb), Benson Lake (limestone) and Quinsam (coal). The Island Copper mine is undergoing reclamation after 26 years of continuous production.

The island-arc setting of the Insular Belt played a role in creating a regional scale, ore-forming phenomena. The timing of mineralization was determined by the large scale structural components which also reflect on the geographic distribution of mineral deposits. These components include Early-Jurassic eastward plunging subduction, east-northeast contraction and deformation, accretion, southwest verging folding, magmatic activity and mountain building.

The first ore-forming episode occurred very early in the geological time scale during Paleozoic. It is represented by the H-W massive sulphide deposit hosted by Sicker Group sediments. Located in the central part of the island, mineralization was exposed on surface during the structural uplift of the Buttle Lake area. The deposit, discovered in 1979, added a significant base and precious metal resource to previously existing ore bodies at Myra Falls. Tracks of land underlain by the Sicker Group – the oldest stratigraphic unit on the Island – have long been the highest ranking in terms of mineral potential (N.W. Massey, 1995). As in other regions of the "Pacific Ring of Fire" they are remnants of the oldest and probably the most productive of volcanic arcs.

The second metallogenic episode is related to volcanic and plutonic activity during Jurassic time. In northern Vancouver Island the subvolcanic intrusions which are feeders for dacites and ryodacites forming the upper part of Bonanza Group stratigraphy have significant economic implications. At Island Copper a wide quartz-feldspar porphyry dyke intrudes the volcanic sequence. Hydrothermal convection cells and brecciation which developed subsequently around the feeder zone produced a large copper-molybdenum-gold porphyry deposit. The mine produced copper concentrate containing 1.3 billion kilograms of copper, 31 million kilograms of molybdenum, 31.7 million grams of gold, 336 million grams of silver and 27,000 kilograms of rhenium.

The most extensive recent exploration has been carried out north of Holberg Inlet and west of the Island Copper Mine by BHP Minerals Limited and associated companies (Figure 3). A belt of altered Bonanza rocks with high-level advanced argillic alteration represents a target in a 'transitional' setting between porphyry copper and epithermal environments (Panteleyev et al., 1995).

Granitoids of the Island Plutonic Suite span a range from Early Jurassic to Early Cretaceous. Propylitic and argillic alteration assemblages and skarn mineralization are locally well developed. Apart from the Island Copper mine on Rupert Inlet numerous other mineral prospects in the Quatsino Sound are hosted by Bonanza Group and coeval intrusions. One of the examples is Yreka, a former small producer of copper, gold and silver and the subject of this report. It is surrounded locally by nine mineral prospects most of which have not been tested by drilling.

Most of the areas in northern Vancouver Island have poorer accessibility and have been less well explored in the past. Latest research by the provincial geological survey concludes that they are underlain by geology that is very favorable for the discovery of mineral resources in the future (N.W. Massey, 1995).

6. PROPERTY GEOLOGY

6.1 GEOLOGICAL UNITS

The Lower to Middle Jurassic Bonanza Group is the dominant stratigraphic component of the Yreka property. It is represented by massive andesitic lavas, tuffs and breccias interbedded with marine sediments.

The rocks strike northwest and dip southwesterly into the mountainside at 35 degrees. The bedded sequences are intruded by dykes and sills of felsic porphyries and quartz-diorite which are probably comagmatic with the Upper Bonanza Group volcanics.

The property geology map (Figure 4) was compiled from historical Assessment Reports, property files of Noranda Explorations Ltd., and a Master's Thesis by P.R. Wilson. The lithological units are subdivided below in detail based on the above references and the 1998 property evaluation. The latest research by Jeletzky (1976) and Nixon et. al. (1995) was used for stratigraphy.

Detailed geology of the Yreka deposit (Figure 5) is based on work performed by M.M. Menzies of Noranda Explorations in 1954. The drawing is a reduced print-out of a digitized geology map. The original, hand drawn and color coded version of this map in 1 : 600 scale is available at the library of Ministry of Mines in Victoria.

Based on all the above references the geology of Yreka Property can be described as follows:

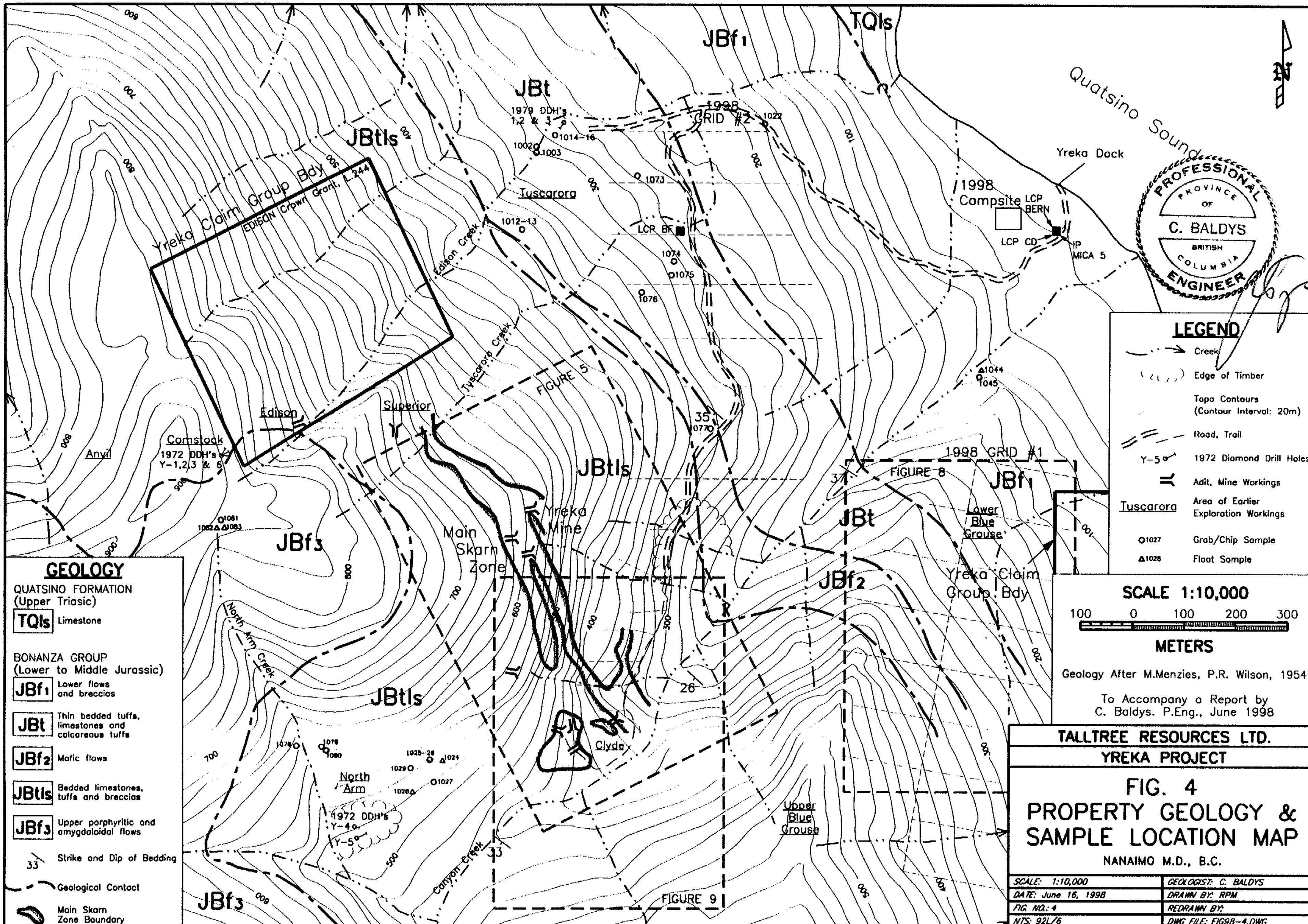
LEGEND
Creek
Edge of Timber
Topo Contours (Contour Interval: 20m)
Road, Trail
Y-5 1972 Diamond Drill Holes
Adit, Mine Workings
Tuscarora Area of Earlier Exploration Workings
1027 Grab/Chip Sample
1028 Float Sample
SCALE 1:10,000
100 0 100 200 300
METERS
Geology After M.Menzies, P.R. Wilson, 1954
To Accompany a Report by C. Baldys. P.Eng., June 1998
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FIG. 4
PROPERTY GEOLOGY & SAMPLE LOCATION MAP
NANAIMO M.D., B.C.
SCALE: 1:10,000
GEOLOGIST: C. BALDYS
DATE: June 16, 1998
DRAWN BY: RPM
FIG. NO.: 4
REDRAWN BY:
NTS: 92L/6
DWG FILE: FIG98-4.DWG
GEOLOGY
QUATSINO FORMATION (Upper Triasic)
TQls Limestone
BONANZA GROUP (Lower to Middle Jurassic)
JBf1 Lower flows and breccias
JBt Thin bedded tuffs, limestones and calcareous tuffs
JBf2 Mafic flows
JBtls Bedded limestones, tuffs and breccias
JBf3 Upper porphyritic and amygdaloidal flows
33 Strike and Dip of Bedding
Geological Contact
Main Skarn Zone Boundary
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PROVINCE OF BRITISH COLUMBIA
C. BALDYS
Quatsino Sound
Yreka Dock
1998 Campsite
LCP BERN
LCP CD
IP MICA 5
1998 GRID #2
1998 GRID #1
1979 DDH's 1,2 & 3
Yreka Claim Group Bdy
EDISON Crown Grant, L.244
Tuscarora
Tuscarora Creek
Edison Creek
LCP BF
FIGURE 5
FIGURE 8
FIGURE 9
Superior
Edison
Comstock
1972 DDH's Y-1,2,3 & 6
Anvil
Yreka Mine
Main Skarn Zone
Lower Blue Grouse
Upper Blue Grouse
Clyde
North Arm
North Arm Creek
Canyon Creek
1972 DDH's Y-4
Y-5
JBtls
JBt
JBf1
JBf2
JBf3
TQls
N

Quatsino Formation (Upper Triassic)

Limestone: (TQls)
Beds of white to grey crystalline limestone of the Quatsino Formation underlie the Atkins Cove area and a few other locations near the shoreline.

Bonanza Group (Lower to Middle Jurassic)

Lower flows and breccias: (JBf_1)
The lowermost sequence of the Bonanza Group is well exposed on the access road between elevations 60 and 200 metres. It consists mainly of dark green, massive flows and breccias of andesitic to basaltic composition. A distinct fragmental unit marks the middle part of this series. It consists of subangular fragments ranging to 5 cm in a fine-grained matrix.

Thin bedded tuffs, limestones and limy tuffs: (JBt)
Overlying the lower flow sequence are bedded tuffs and limestones. The bedding is not easily distinguishable. The dominant petrographic type is a calcareous crystal to lithic tuff (or tuffaceus wacke ?). The clastic rocks are locally interbedded with pure and impure limestone beds and argillites. Grey limestone containing brachiopods was encountered by P.R Wilson at elev. 200 metres to the north of Canyon Creek. The combined thickness of this sequence is approximately 150 metres. An intercept of mineralized porphyritic rhyolite in hole 79 –1 at the Tuscarora prospect at 240 metres elevation has not been mapped to date but appears to occupy the central part of this sequence.

Mafic Flow: (JBf_2)
A prominent massive andesitic ? flow traverses the mountainside at 300 metres elevation. The band strikes northwest and the thickness ranges from 30 to 100 metres. Due to common chlorite-carbonate-epidote alteration the unit was formerly referred to as “greenstone”. It closely resembles the massive flows within the lowermost part of the Bonanza Group.

Bedded limestones, tuffs and breccias: (JBtls)
These rocks comprise a well bedded sequence reaching thickness' of 600 to 700 metres. They strike northwesterly and dip southwesterly at 30 to 40°. The lower part consists of thin-bedded limestone with varying amount of tuffaceous material. Upwards in the stratigraphy the lime content appears to decrease rapidly and the rocks become harder and finer grained. The overall colour changes from dark grey to dark green. Some good exposures along Canyon Creek show the change from calcareous tuff varieties to thin-bedded, cherty-looking types alternating with soft, limy beds and locally pyroclastic ? breccias. A well developed fragmental stratum over 1 metre thick is exposed in the creek bed near an old Pelton wheel at an elevation of 300 metres. Here the fragments, which are dark green and very fine grained, are angular and average 1 centimeter across,

with some as much as 15 centimeters in width. The upper part consists of very thin-bedded, mostly very fine-grained hard (flinty) tuffs with interbedded lenses of limestone. In contrast to the rocks in the lower parts of the stratigraphy, the tuffaceous units are in many places rusty weathering probably due to presence of pyrrhotite.

Upper porphyritic and amygdaloidal flows: (JBf_3)
Stratigraphically overlying the bedded sequence is a series of porphyritic and amygdaloidal flows with minor interbedded breccias and tuffs. They are well exposed on the cliffs between the south and west forks of Canyon Creek around elevations approximating 600 metres and between North Arm Creek and the west branches at elevations of about 900 metres. The contact with the underlying bedded members appears to be an unconformity. Sporadic attitude measurements taken from flows indicate the same strike and dip as the underlying tuffaceous beds.

Island Plutonic Suite (Early to Middle Jurassic)

No large bodies of intrusive rocks have been mapped on the property. However, dykes and sills of various composition and textures are common. P.R. Wilson noted that "a small batholith or stock of quartz-diorite" had been reported on the property by V. Dolmage of GSC in 1918. He suggested that "this may have been one of the larger quartz-feldspar intrusives outcropping along the hanging wall of the main skarn zone" (P.R.Wilson, 1954).

The intrusives described below have ages assigned on the basis of published information available for Quatsino - San Joseph and Mahatta Creek Map Areas (Nixon, G.T. et al. 1993, 1995).

Felsic Porpyritic Intrusives: (JIp)
A large number of small quartz-feldspar and feldspar porphyry intrusions, usually one to several metres in thickness, were noted in the main skarn zone during the course of mapping and diamond drilling in the past (Figure 5). Many appear to be sill-like, and conform to the existing bedding in the tuffs, or if in skarn, to the pre-existing bedding. Others, however, definitely cut across the strata. The felsic intrusives contain phenocrysts of plagioclase and hornblende in an aphanitic groundmass. To the west of Clyde workings felsic dykes of medium grained, locally quartz-phyric texture were encountered during 1998 prospecting traverses. They trend in a westerly direction. Abundant intrusive float was found in this area and extends to North Arm Creek.

Quartz-Diorite Dykes:
Dykes of quartz-diorite porphyry were noted at higher elevations including the area of the main skarn zone. About 300 metres west of the skarn zone at an elevation of 700 metres, a light coloured, medium to fine-grained dyke cuts

tuffaceous beds. It is approximately 1 metre thick, is steeply dipping and was traced along strike for 10 metres.

Cretaceous -Tertiary ? Intrusives

Basalt and Diabase Dykes:
Basalt dykes have been encountered in a few locations at the headwaters of North Arm Creek. One outcrop which forms 30 metre high bluffs at 650 metres elevation is marked by heavy iron staining. Although the textures and composition resemble basic flows of the upper flow member, it is likely an intrusive (P.R.Wilson, 1955). The basalts are green aphanitic rocks composed of plagioclase, interstitial pyroxene and magnetite. They range from approximately 10 centimetres to 6 metres in width. The intrusive basalts were distinguished from flows microscopically based on the presence of small amounts of hornblende, strong zoning of feldspar phenocrysts, and reaction rims around quartz crystals. A diabase dyke cuts a basalt sill in the vicinity of the rock slide located at the upper end of the access road. The diabase is dark grey and fine grained, and is composed of plagioclase feldspar, augite and magnetite. The texture is ophitic. The dykes are 1 to 3 metres thick.

6.2 STRUCTURE

Strikes and dips of the volcanic and sedimentary rock series vary little throughout the mapped area. The structure is essentially homoclinal. According to P.R.Wilson there does not appear to be any repetition of beds in a southwesterly direction up the mountainside. Uncommon significant deviation from prevailing dips of 35° might be explained as being due to minor warping, dragfolding or possibly drag in the vicinity of faults.

No major displacement of the bedded rocks has been observed. However, faulting of some importance has taken place in the vicinity of the Yreka skarn. One of these faults is exposed in No.1 Tunnel (Figure 5). It strikes 045° and is dipping 70° southwest. To the northeast the fault probably intersects Canyon Creek at a 45° angle along a small gulch below a waterfall. There is no evidence of extension of the fault on the south side of the creek (P.R. Wilson, 1955).

Other shear directions are north-northeasterly (025° - 040°), northwesterly (320° - 330°) and west-northwesterly (280°). Deeply incised creeks of Tuscarora, Edison and Third Creek are probably exploiting the northeasterly shears. North Arm Creek follows a northwesterly fault dipping at 70° to the southwest.

6.3 ALTERATION AND MINERALIZATION

Alteration is widespread and pervasive throughout the entire property. The presence of ubiquitous epidote, chlorite, sericite and calcite may be attributed to low grade regional metamorphism. Actinolite, biotite or phlogopite and quartz are quite common also and would more likely indicate the extent of retrograde alteration related to skarns. In a number of places, such as Lower Blue Grouse , North Arm and Tuscarora, this alteration is associated with strong sulphide mineralization while no evidence of garnet skarn exists locally (Appendix I).

A prominent skarn zone hosts the Yreka deposit. The skarn occupies the northwest side of Canyon Creek in the central part of the upper bedded member (JBtls). Most of the past exploration was focused on this area. It is roughly 500 metres long and 30 to 70 ? metres wide. It strikes in a northwesterly direction and appears to conform to the bedding (Figure 6). The original rock, calcareous tuff, has been more or less converted to a medium to coarse grained andradite garnet with variable amounts of calcite, biotite, chlorite, hedenbergite, epidote, quartz, magnetite and sulphides.

Limestone beds form lenses within the upper bedded member and in many cases do not appear to have been replaced by skarn. Some silicate metasomatism is evident locally. Recrystalization is common. "Silicate rock" was a term used by M.M.Menzies to describe an altered unit of an unknown protolith.

According to W.C. Robinson the distribution of sulphides appears to be controlled by two fracture systems (Ministry of Mines and Petroleum Resources Report, 1967). Mining operations in the sixties were focused on high grade ore shoots which tend to lie along faults striking 040° and dipping 65° southeast. Some mineralization was reported to be related to the set of fractures striking 330° and dipping 80° northeast.

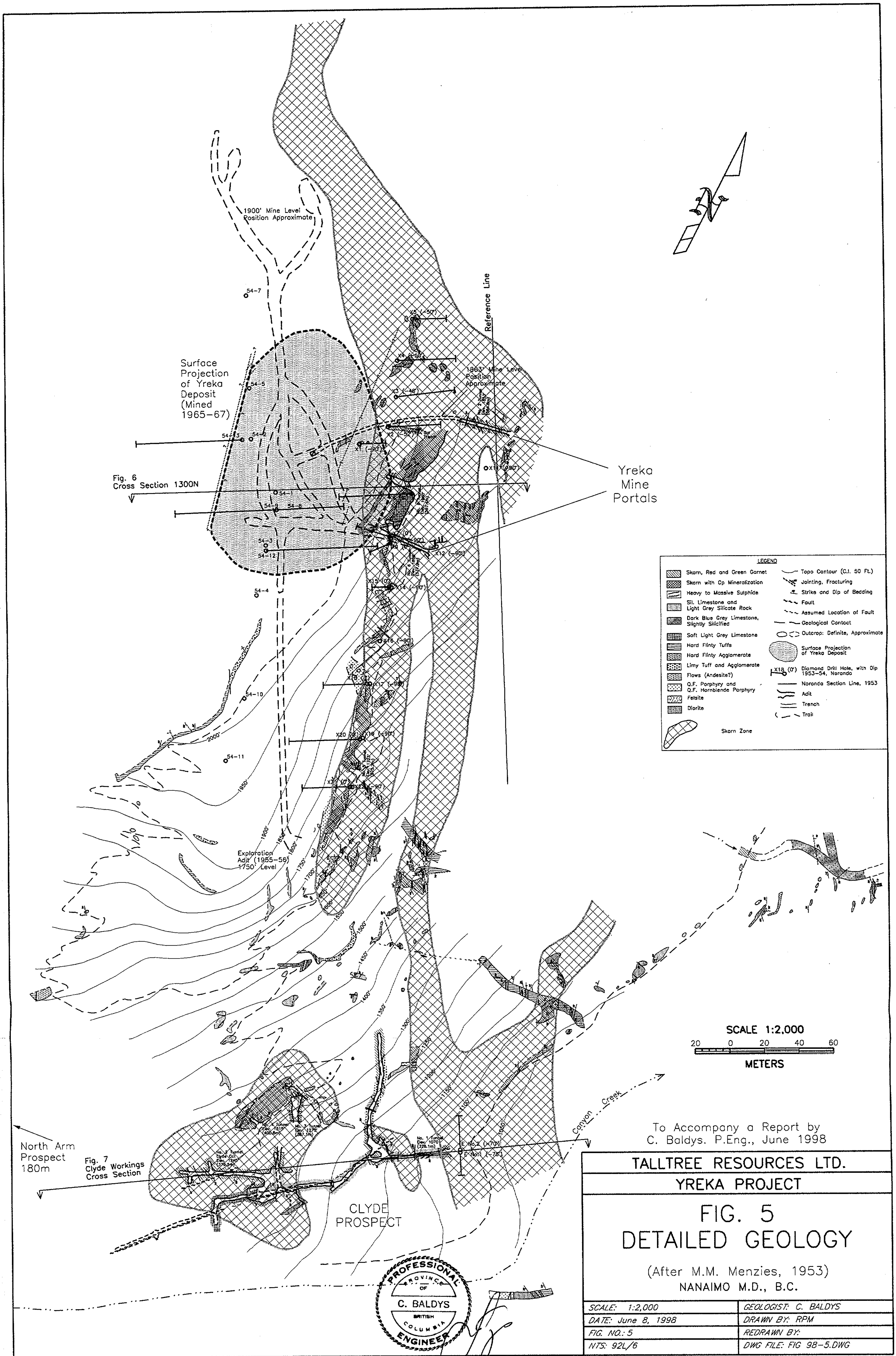
Primary mineralization consists of sulphides in the following order of abundance: pyrrhotite, chalcopyrite, pyrite, sphalerite, cubanite, bornite, and galena.

Pyrrhotite is widespread throughout the property and locally forms massive replacements generally devoid of other sulphides.

Sphalerite and galena were reported in 1953 in skarn at Edison Creek.

Sphalerite is present in very small amounts in the Yreka skarn zone. It is much more common in the surrounding prospects where it may form massive mineralization with minor associated chalcopyrite. Samples containing sphalerite were collected at Lower and Upper Blue Grouse, Tuscarora and Comstock prospects.

Cubanite ($Cu_2Fe_4S_6$) was identified in polished sections of samples collected at the northern end of the main skarn zone by P.R.Wilson in 1954. It is present as small, irregular parallel laths in some of the chalcopyrite grains.



1900' Mine Level Position Approximate
Surface Projection of Yreka Deposit (Mined 1965-67)
Fig. 6 Cross Section 1300N
Reference Line
1863' Mine Level Position Approximate
Yreka Mine Portals
Exploration Adit (1955-56) 1750' Level
North Arm Prospect 180m
Fig. 7 Clyde Workings Cross Section
CLYDE PROSPECT
Canyon Creek
LEGEND
Skarn, Red and Green Garnet
Skarn with Cp Mineralization
Heavy to Massive Sulphide
Sil. Limestone and Light Grey Silicate Rock
Dark Blue Grey Limestone, Slightly Silicified
Soft Light Grey Limestone
Hard Flinty Tuffs
Hard Flinty Agglomerate
Limy Tuff and Agglomerate
Flows (Andesite?)
Q.F. Porphyry and Q.F. Hornblende Porphyry
Felsite
Diorite
Skarn Zone
Topo Contour (C.I. 50 Ft.)
Jointing, Fracturing
Strike and Dip of Bedding
Fault
Assumed Location of Fault
Geological Contact
Outcrop: Definite, Approximate
Surface Projection of Yreka Deposit
X18 (0°) Diamond Drill Hole, with Dip 1953-54, Noranda
Noranda Section Line, 1953
Adit
Trench
Trail
SCALE 1:2,000
20 0 20 40 60
METERS
To Accompany a Report by C. Baldys. P.Eng., June 1998
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FIG. 5
DETAILED GEOLOGY
(After M.M. Menzies, 1953)
NANAIMO M.D., B.C.
SCALE: 1:2,000
GEOLOGIST: C. BALDYS
DATE: June 8, 1998
DRAWN BY: RPM
FIG. NO.: 5
REDRAWN BY:
NTS: 92L/6
DWG FILE: FIG 98-5.DWG
PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA C. BALDYS

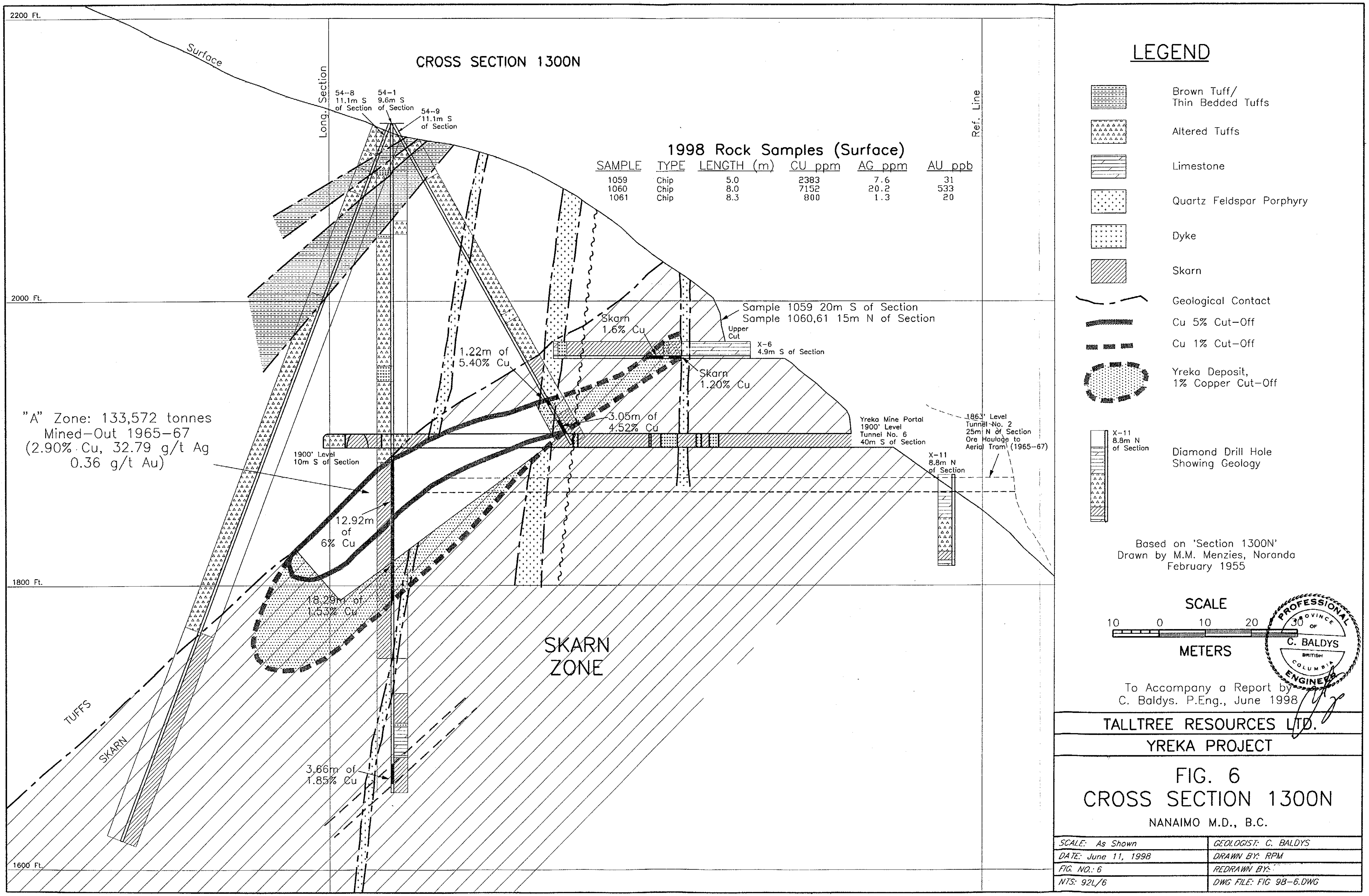
Within the main skarn zone area pyrrhotite accompanies chalcopyrite as the main sulphide minerals. They form disseminations, irregular pods and replacements near the hangingwall of the skarn zone with chalcopyrite ranging from trace to several percent (Figure 6). Examination of showings and dumps indicate that massive chalcopyrite is not uncommon but generally very localized. Drill intersections of continuous chalcopyrite bearing mineralization rarely exceeded 5% copper content. The distribution of chalcopyrite appears to be closely linked to enrichment in gold and silver on the property (see paragraph 8).

The majority of high grade chalcopyrite mineralization is within a 15 metre wide, 49 metre long and 60 metre high "A" zone. It was delineated during 1954 drilling by Noranda (Figure 6). It was an oval-shaped body steeply dipping to the southwest. The average grade of the mill feed produced from this zone in the sixties was 2.9 % copper. This was lower than the 3.7 % average assigned to the resource calculated from drill sections and underground sampling by Noranda (J.R.Billingsley, personal communication).

There are significant volumes of skarn carrying minor chalcopyrite mineralization. References to chalcopyrite in drill core ranging from "trace" through "slightly mineralized" up to "locally fair" were made on 1954 cross sections. These zones were not assayed routinely. The limit of low grade copper mineralization on longitudinal section (not included in this report) may be interpreted as the boundary between "skarn" and "dark skarn".

It appears that the 1954 drilling program was designed with the purpose of testing the hangingwall part of the skarn horizon as none of the eleven long holes reached the footwall (Figure 6). As a result the maximum thickness of skarn can only be estimated based on surface mapping where it is best exposed - ie. near Clyde workings. Assuming the stratiform shape and dip of 30° to the southwest the composite true width of the horizon could reach 250 metres. This appears to be substantiated by the 1954 underground mapping (Figure 7). It is significantly thicker than the estimated (70 – 100 m) width near the old mine making Clyde prospect a larger potential target with economic mineralization similar to the Yreka deposit.

Figure 6 is one of the Noranda's cross sections with grade distribution and interpretation in its original form. It was selected from a total of 10 sections filed at the Ministry of Mines in Victoria (see references). The section shows the "blind" nature of the high-grade mineralization. Various tuff types in the hangingwall of skarn were combined into one unit called "Altered Tuff ". The approximate location of 1965-67 mining stopes was added to the drawings for the purpose of this report. It should be emphasized that the former mine operator, Minoca Mines Ltd., did not conduct exploration drilling prior to or during production.



1998 Rock Samples (Surface)

SAMPLE	TYPE	LENGTH (m)	CU ppm	AG ppm	AU ppb
1059	Chip	5.0	2383	7.6	31
1060	Chip	8.0	7152	20.2	533
1061	Chip	8.3	800	1.3	20

FIG. 6
CROSS SECTION 1300N

Detailed examination of the main skarn zone in the Clyde area by the author revealed that the majority of the skarn outcrops contain small amounts of disseminated chalcopyrite. Altered tuffs surrounding the skarn commonly carry minor chalcopyrite as well. Sparsely disseminated, macroscopic chalcopyrite produces copper grades in a range of 0.05 to 0.10 %. Three locations contained strong , 3-5 % chalcopyrite mineralization over significant length of up to 8 metres (Figure 9). Chip samples from these locations contained encouraging gold and silver values (see paragraph 7.1).

Based on a detailed geology map of the main skarn, the above mineralization is localized within the footwall zone of the skarn. It branches off the main horizon near the Clyde workings. Surveys in 1998 indicate a total strike length of 300 metres in a northeasterly direction. The footwall marks the southeasterly limit of the exploration target. There are indications of it as far as the end of access road, thus approaching the old mine to within a distance of 200 metres. To the south the zone is delimited by Canyon Creek beyond which no detailed mapping was done. Past prospecting suggests the presence of localized mineralization but no data is available.

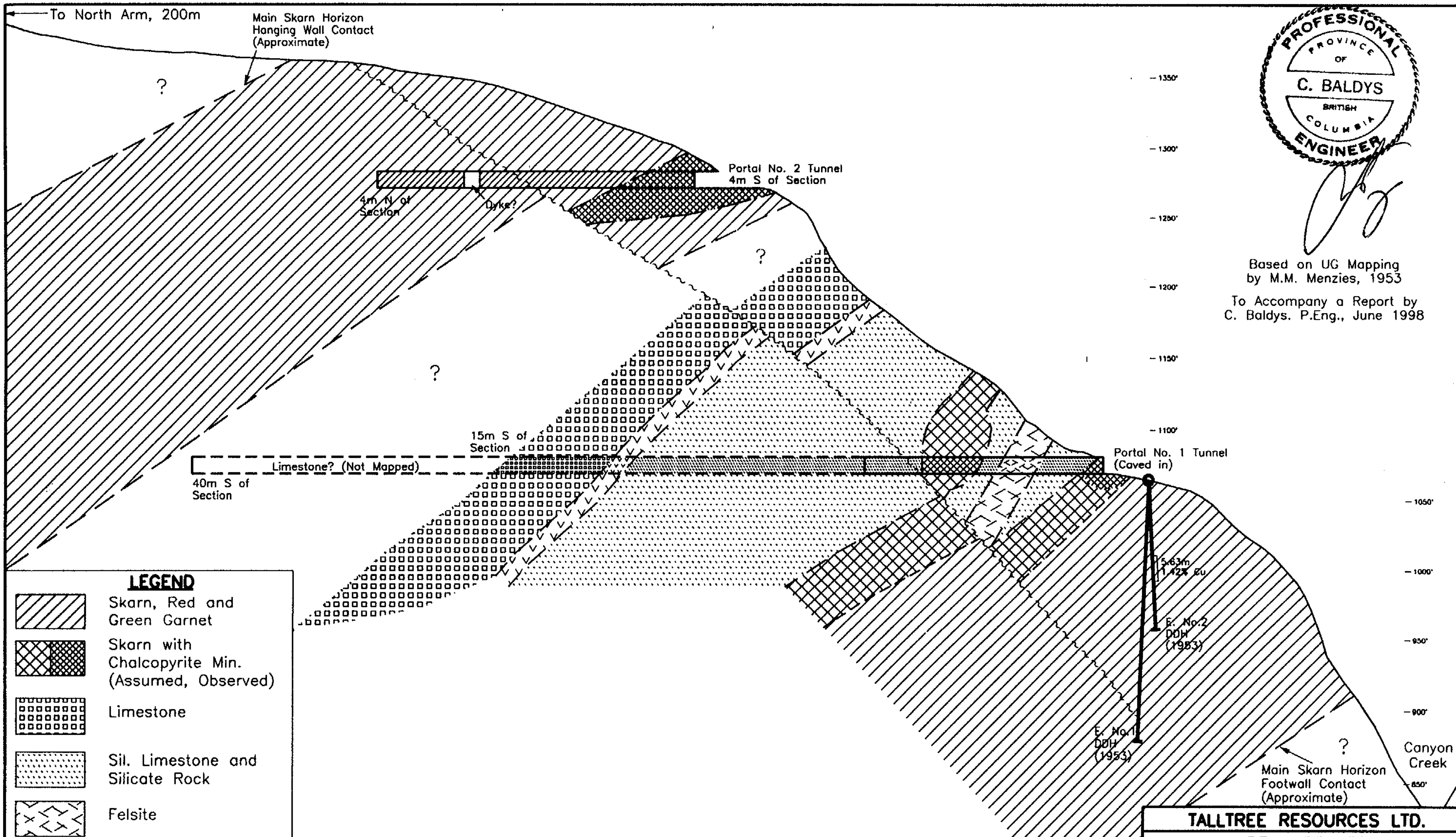
Surface evaluation of the Clyde prospect revealed that the semi-massive and massive type of mineralization is very localized. Underground work in the area was designed to test the continuity of 4 surface showings. It was the main target of exploration at the turn of the century. Detailed sampling and mapping information from 1954 indicates grades averaging 1 – 2 % copper across sulphide zones measuring up to 12 x 30 meters on level plan.

During the1998 traverses two chalcopyrite-mineralized outcrops were located 250 and 400 metres west of the Clyde workings. The prospect is known as North Arm Creek. In 1972 a limited area along the creek was tested by soil geochemistry and geophysics. The surveys were followed by unsuccessful drilling of a VLF anomaly.

One of the occurrences in question on the North Arm prospect also contained a significant amount of molybdenite. This mineral was also reported in the area in 1972. At the location sampled in 1998 molybdenite appears to have selectively replaced large “pebbly” fragments in tuffs. This mineralization is associated with disseminated chalcopyrite in the matrix. The outcrop is within a large gossan zone situated outside the area of 1972 surveying and drilling and appears a worthwhile target.

Examination of a few narrow dykes on the property revealed potassic alteration marked by the presence of minor sericite accompanied by secondary quartz and pyrite.

Mineralization and alteration at Blue Grouse and Tuscarora are associated with notheasterly trending shears and fracture zones in tuffs and flows. Silicification



Based on UG Mapping by M.M. Menzies, 1953

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LEGEND

- Skarn, Red and Green Garnet
- Skarn with Chalcopyrite Min. (Assumed, Observed)
- Limestone
- Sil. Limestone and Silicate Rock
- Felsite
- Diorite
- Fault
- Contact, Limit of Mineralization
- Limit of Mapping
- Exploration Adit (1903–17)

PORTAL NO. 2 – 1998 SAMPLES – ASSAY RESULTS

SAMPLE	TYPE	LENGTH(m)	CU %	AG ppm	AU ppb
1009	Grab	N/A	1.279	15.0	242
1010	Chip	1.5	0.985	16.2	331
1011	Chip	6.2	1.808	22.5	302
1067	Sel. Grab	Clyde Dump	3.579	67.2	1050
1068	Rep. Grab	Clyde Dump	216 ppm	0.4	19

SCALE 1:1,250

10 0 10 20 30

METERS

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FIG. 7
CLYDE WORKINGS CROSS SECTION

NANAIMO M.D., B.C.

SCALE: 1:1,250	GEOLOGIST: C. BALDYS
DATE: June 16, 1998	DRAWN BY: RPM
FIG. NO.: 7	REDRAWN BY:
NTS: 92L/6	DWG FILE: FIG98-7.DWG

and carbonate alteration is widespread. Skarn minerals are absent. At Tuscarora massive porphyritic rhyolite hosts sulphide mineralization in highly silicified and breccia-textured zones as reported in a drill hole log. The sulphides are mainly pyrrhotite and sphalerite. Shear controlled sphalerite mineralization with minor copper content manifests itself locally in creek bedrock marked by silicification and iron-oxide staining of flows.

Massive sulphides were sampled in one of the three old trenches at Blue Grouse. Low grade copper mineralization sampled at several locations probably follows the crest of the ridge between Upper and Lower Blue Grouse based on soil geochemistry results. No prospecting was done along the ridge at higher elevations during the 1998 program.

Minor copper sulphides were found in a partly exposed gossan at the western end of line 100 S. Replacement of calcareous tuff is masked by strong oxidation of iron sulphides. Alteration appears to be following the bedding orientation of 152°/50°/NW.

7. 1998 GEOCHEMISTRY SURVEY RESULTS

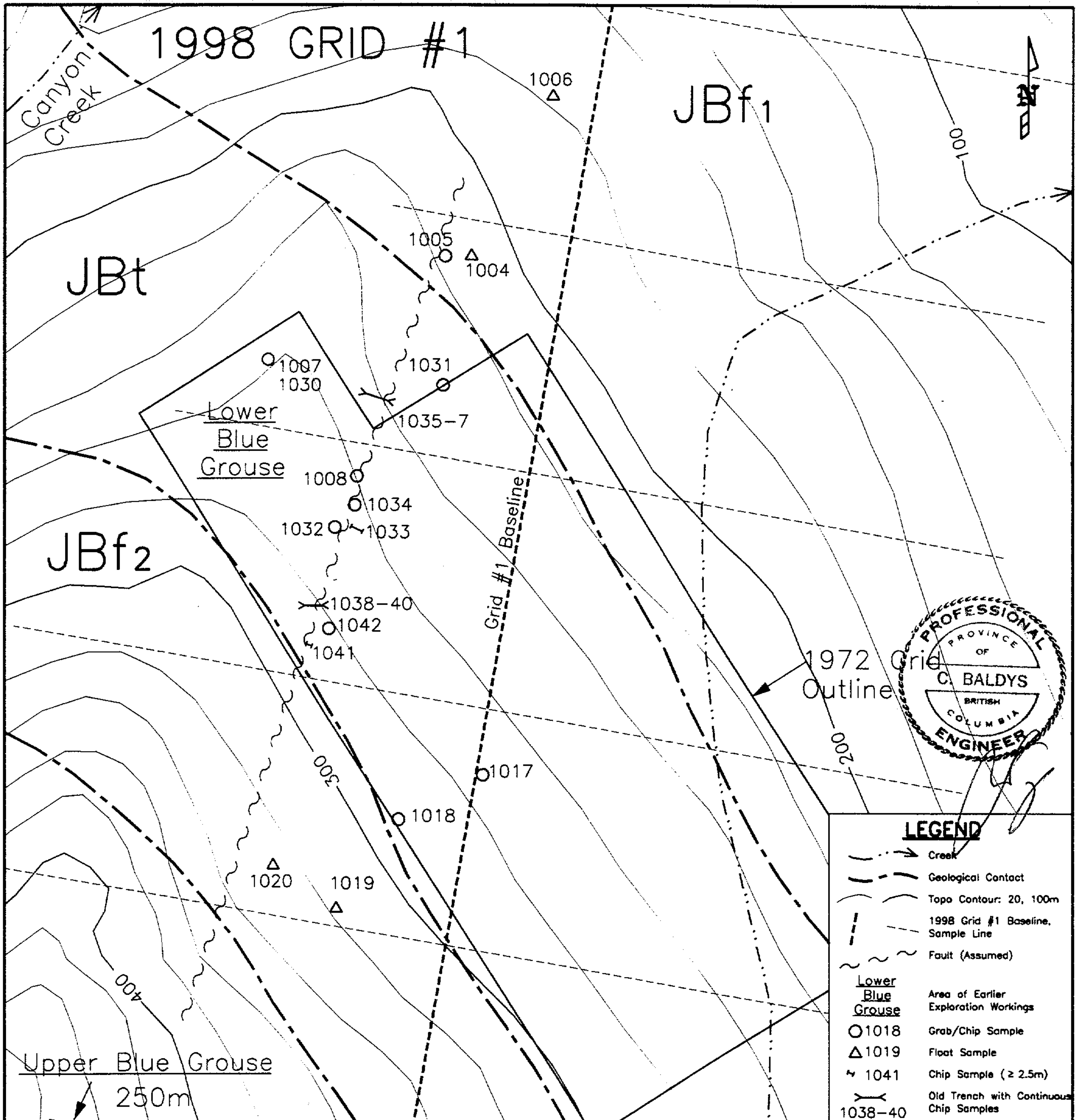
7.1 ROCK GEOCHEMISTRY RESULTS

A total of 83 rock samples were collected on the property. It includes three samples collected from outcrops at the old Yreka Mine portals and one from the dump of nearby 1750' Level Exploration Adit (Figure 6 and 9).

All of the remaining 79 samples were taken from an area situated 200 to 1000 metres from the old mine workings marking the identified area of interest and referred to as "new exploration perimeter" (Figures 4, 8 and 9). Four samples were from dumps of inaccessible exploratory adits at the Clyde prospect, 67 were chip and grab samples from outcrops including old open cuts, exploratory adit portals and trenches. Eleven samples were from elluvial and colluvial float boulders. Field descriptions of all rock samples collected are listed in Appendix 1.

The assays from surface exposures of mineralized skarn at the old mine did not exceed 0.7 % copper, 533 ppb gold and 20.2 g/t silver (8.0 metre chip sample). This confirms that the deposit, particularly the high-grade part outlined in 1954 (5 % copper cut-off), represents a "blind" zone of mineralization (Figure 6).

From a total of 79 samples collected within the new exploration perimeter, 36 contained more than 0.20 % copper including 19 that assayed above 1.0 % copper. Copper assays ranged from 59 to 1929 ppm in altered intrusives, 178 ppm to 2.06 % in skarn and 91 ppm to 3.32 % in altered volcanics and sediments (Figures 8 and 9 and Appendix I).



ASSAY RESULTS

SAMPLE	TYPE	LENGTH (meters)	CU ppm (%)	ZN ppm (%)	AG ppm	AU ppb
1004	Float	N/A	1912	392	9.0	33
1005	Grab	N/A	965	(1.05)	1.1	3
1006	Float	N/A	167	758	0.3	2
1007	Chip	1.0	1368	134	0.5	9
1008	Grab	N/A	1928	142	2.9	16
1017	Select Grab	N/A	103	329	0.3	3
1018	Grab	N/A	366	286	0.5	2
1019	Float	N/A	1299	(1.35)	1.7	4
1020	Float	N/A	671	608	0.9	3
1030	Grab	N/A	1257	49	1.6	4
1031	Float	N/A	(0.920)	949	30.7	63
1032	Chip	1.0	(0.883)	527	17.2	81
1033	Chip	5.0	1349	136	2.5	9
1034	Chip	2.0	1645	125	3.2	31
1035	Chip	4.0	(0.896)	597	25.0	238
1036	Chip	4.0	(2.309)	1240	63.3	249
1037	Chip	1.5	(1.197)	(0.79)	48.6	82
1035-37	Weight. Avg.	9.5	(1.581)	(0.21)	44.9	218
1038	Chip	2.5	621	53	1.2	10
1039	Chip	2.5	686	124	1.2	7
1040	Chip	2.5	664	44	1.2	4
1041	Chip	2.5	669	50	1.1	5
1042	Grab	N/A	(0.343)	134	5.8	15
1043	Float	N/A	2461	(7.19)	2.6	13

△ 1043

SCALE 1:2,500

25 0 25 50 75

METERS

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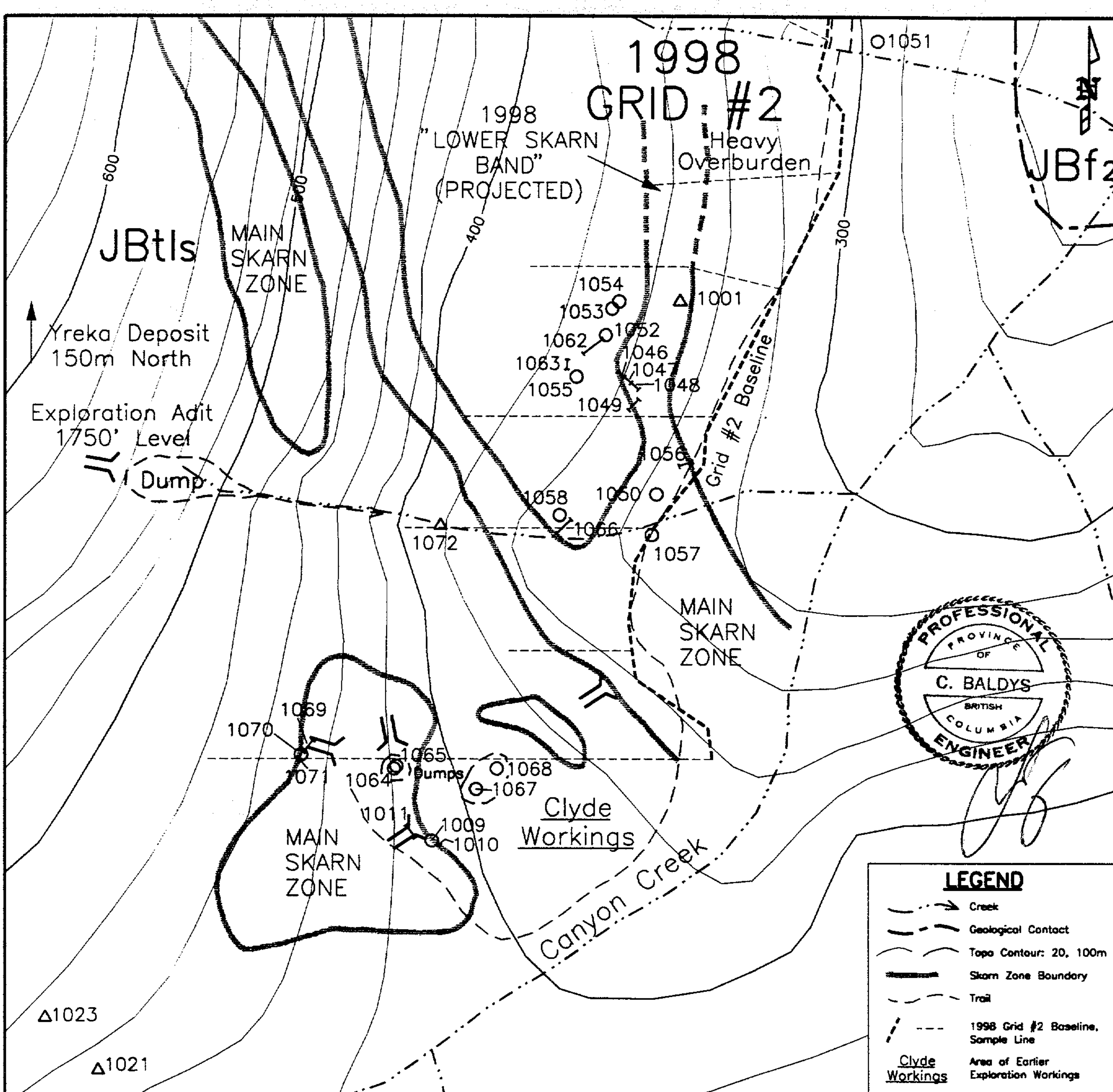
FIG. 8
LOWER BLUE GROUSE ROCK GEOCHEMISTRY

NANAIMO M.D., B.C.

SCALE: 1:2,500	GEOLOGIST: C. BALDYS
DATE: June 16, 1998	DRAWN BY: RPM
FIG. NO.: 8	REDRAWN BY:
NTS: 92L/6	DWG FILE: FIG98-8.DWG



LEGEND

- Creek
- Geological Contact
- Topo Contour: 20, 100m
- Skarn Zone Boundary
- Trail
- 1998 Grid #2 Baseline, Sample Line
- Clyde Workings — Area of Earlier Exploration Workings
- Old Adit
- O1009 Grab Sample
- Δ1001 Float Sample
- 1010 Chip Sample

Geology Legend – See Fig. 4

SCALE 1:2,500

25 0 25 50 75

METERS

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FIG. 9
CLYDE PROSPECT ROCK GEOCHEMISTRY

NANAIMO M.D., B.C.

SCALE: 1:2,500	GEOLOGIST: C. BALDYS
DATE: June 16, 1998	DRAWN BY: RPM
FIG. NO.: 9	REDRAWN BY:
NTS: 92L/6	DWG FILE: FIG98-9.DWG

ASSAY RESULTS

SAMPLE	TYPE	LENGTH (meters)	CU ppm (%)	ZN ppm (%)	AG ppm	AU ppb
1001	Float	N/A	609	74	0.9	19
1009	Grab	N/A	(1.279)	341	15.0	242
1010	Chip	1.5	(0.985)	272	16.2	331
1011	Chip	6.2	(1.808)	481	22.5	302
1021	Float	N/A	1929	56	2.4	14
1023	Float	N/A	256	85	0.7	1
1046	Chip	3.6	154	24	<0.3	50
1047	Chip	3.5	(2.063)	614	31.7	914
1048	Chip	4.0	2325	78	9.0	62
1049	Chip	6.0	2085	54	4.5	458
1050	Grab	N/A	178	19	0.3	85
1051	Grab	N/A	1053	55	0.9	30
1052	Grab	N/A	(1.417)	564	24.2	70
1053	Grab	N/A	(1.365)	351	49.7	428
1054	Grab	N/A	522	18	0.4	11
1055	Grab	N/A	(1.807)	449	28.6	400
1056	Chip	5.6	3411	395	4.6	68
1057	Grab	N/A	182	64	<0.3	142
1058	Grab	N/A	3085	114	4.6	112
1062	Chip	10.0	735	42	1.0	10
1063	Chip	4.0	1683	92	2.7	10
1064	Sel. Grab	Clyde Dump	(1.586)	542	30.5	161
1065	Rep. Grab	Clyde Dump	(1.277)	380	24.8	212
1066	Chip	8.0	(1.616)	536	24.6	355
1067	Sel. Grab	Clyde Dump	(3.579)	726	67.2	1050
1068	Rep. Grab	Clyde Dump	216	26	0.4	19
1069	Chip	6.0	(1.957)	682	35.7	294
1070	Grab	N/A	432	39	0.6	6
1071	Chip	1.5	12193	226	21.2	515
1072	Sel. Float	1750' Dump	(14.848)	(1.25)	188.3	1870

At the southern limit of the main skarn zone near the Clyde prospect, 20 samples showed copper values exceeding 0.20 %. Nine of these were chip samples taken over lengths ranging from 1.5 to 8.0 metres (Figure 9). Among these, the highest copper content was in a 3.5 metre chip at location 1000S/25W. It returned 2.06 % copper, 31.7 g/t silver and 914 ppb gold. This sample represents the highest precious metal content obtained from chip samples on the property in 1998.

The highest gold assay within the new exploration perimeter came from a selected high-grade sample of a dump near Clyde workings (Tunnel No 2). It contained chalcopyrite in excess of 25%. The assay returned 1050 ppb gold and 67.2 g/t silver. It can be compared with the selected massive chalcopyrite sample originating from the old mine area (1750 ' Level Exploration Adit) which assayed 1870 ppb gold and 188.3 g/t silver.

Zinc content within the main skarn zone was low and did not show any significant increase in massive sulphide zones. The 1998 assays did not exceed 614 ppm zinc in the proposed new exploration perimeter and the mine itself has little sphalerite reported. Higher zinc values exceeding 1000 ppm were obtained from soils at Clyde prospect which could be attributed to high geochemical mobility of this metal. However, the prospects surrounding the skarn contain zinc showings some distance away from the Yreka deposit and the copper skarn host. These occurrences appear to be structurally controlled and are situated at least 500 metres from the old mine.

Copper content in rocks at the Lower Blue Grouse prospect ranged from 103 ppm to 2.3%. Zinc ranged from 44 ppm to 7.19%. From a total of 23 samples 7 returned copper grades exceeding 0.20 %. The sampling was focused on the area of old showings containing trenches excavated in the 1950's (Figure 8). In one of the trenches the average weighted sample obtained over 9.5 metres of width of mineralization was 1.58 % copper, 0.21 % zinc, 44.9 ppm silver and 218 ppb gold. This zone and minor copper occurrences surrounding the showings appear to follow a shear zone as reported in 1972.

A new potential areas of mineralization at Lower Blue Grouse was indicated by soil anomalies in 1972 and was followed with an enlarged geochemistry grid in 1998. The latter survey extended it by 400 metres to the southwest towards the Upper Blue Grouse prospect (Figure 10 – 12). This is over and beyond a small anomaly centered near the old trenches which was indicated by a small survey grid placed in 1972 (Figure 10 – 14). One geological traverse was completed in 1998 within this area prior to receiving the soil sample results. Float samples indicated up to 1,299 ppm copper and 1.35 % zinc, 1.7 ppm silver and 3 ppb gold. Also a semi-massive sphalerite boulder was sampled near an old open cut at location 400S/125E beyond the area of reported showings and beyond soil anomalies defined in 1998. The assay returned 7.19 % zinc, 0.25% copper, 2.6 ppm silver and 13 ppb gold. It probably reflects a localized in-situ mineralization.

It also explains the zinc anomalies in stream sediments reported in this area in 1970. However, no molybdenum values of interest were found in rocks and soils although they were also reported from stream sediments. The Upper Blue Grouse prospect was not systematically evaluated in 1998.

The assaying of samples collected at Tuscarora revealed a locally high zinc content of up to 6.4 % in grab samples taken from sheared creek bedrock. Low grade copper mineralization is associated with zinc. The highest copper content was obtained from a 1.0 metre fracture zone at the same location which is approximately 40 metres west of the the1979 drill collar location. The assay showed 0.26 % copper, 3.77 % zinc, 5.6 g/t silver and 5 ppb gold. An old open cut located near the drill collar assayed 0.25 % copper, 0.50 % zinc, 6.6 g/t silver and 6 ppb gold across 1.5 metres.

Numerous mineralized gossans were located in 1998 to the east of North Arm Creek by following an open copper anomaly in soils outlined in 1972. The 1972 anomaly was poorly defined due to size of the grid (130 x 180 m). However, it was indicated by 24 samples exceeding 150 ppm copper out of 57 samples collected and included eight samples ranging from 500 ppm to 5750 ppm. A 1998 chip sample taken at this location across 3.4 metre outcrop assayed 1.11 % copper, 8 ppm molybdenum, 381 ppm zinc, 46.2 g/t silver and 98 ppb gold (#1080). A grab sample from the same zone assayed 3.54 % copper, 11 ppm molybdenum, 0.17 % zinc, 68.6 g/t silver and 155 ppb gold (#1079). Strongly anomalous values were obtained from gossans sampled 150 metres southeast from the above location (samples 1024 -1029). It includes one select grab which assayed 0.23 % copper, 0.49 % molybdenum, 98 ppm zinc, 2.8 ppm silver and 3 ppb gold.

Abundant float of somewhat altered intrusive rocks was noted between the Clyde area and North Arm Creek. A composite float sample of most altered material assayed 1929 ppm copper, 48 ppm molybdenum, 2.4 g/t silver and 14 ppb gold. At the higher elevations near the headwaters of North Arm Creek massive sphalerite float was found at a location reported in 1972. It assayed 4.53 % zinc, 1.06 % copper 18.3 g/t silver and 43 ppb gold (sample 1082). Lower grades of similar mineralization were found in a nearby outcrop as well (sample 1081).

Signs of mineralization as indicated above suggest that these areas be further investigated.

7.2 SOIL GEOCHEMISTRY RESULTS

Two areas were soil sampled by Talltree Resources Ltd. in 1998 controlled by chain and compass survey grids. At Blue Grouse (Grid #1) the line spacing was 100 metres with station intervals at 25 metres referenced to a 500 metre long baseline (Figure 10 – 13). Grid # 2 was placed between the Clyde workings and

Tuscarora Creek and consisted of short east-west oriented lines across rugged topography. The lines were referenced to the chain and compass stations located along the road/trail to the Clyde workings. The spacing between the lines ranged from 35 to 50 metres in the south and 90 to 100 metres in the northern part. Samples were taken at 12.5 metre intervals on the west side and at 25 metre intervals on the east side of the reference line (Figures 14 – 17).

A total of 120 soil samples were collected from Grid # 1 and 165 samples from Grid # 2 (Figures 10 – 17). Most of the samples were collected from the B-horizon. Color, soil type, and sample depth were recorded at each station: (A), (B), (C) – soil horizons, T – talus fines, S – stream/wash sediment etc. (Appendix IV). In addition, slope inclination measurements were recorded at Grid #2 stations.

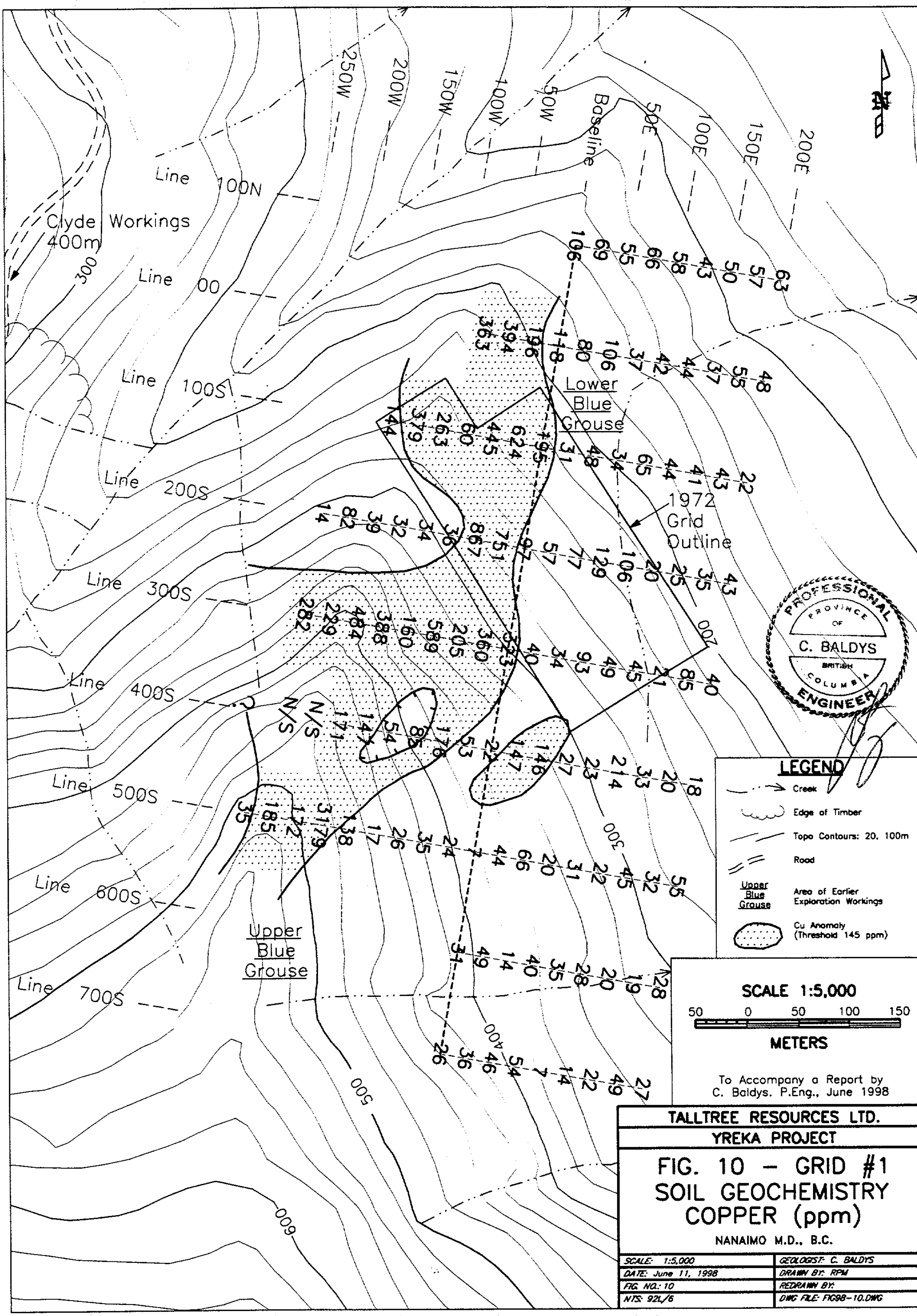
Soil and rock samples were analyzed at Acme Analytical Laboratories Ltd. for 31 elements including copper, molybdenum, zinc, silver and gold. Particulars of preparation procedures and analyses are included in Appendixes II and III.

Soil sample results were statistically analysed from each grid separately. Copper, zinc, silver and gold frequency distributions were plotted on logarithmic scale. Silver plot was corrected for lower truncation to account for missing observations below detection limit. Grid # 2 data were filtered to exclude 38 possibly contaminated samples located downslope from old workings (see Figures 14 – 17, sample lines 800S, 900S, 1100S 1150S and most of 1200S). All observation data sets except one had lognormal polymodal distributions. The particulars of soil geochemistry statistics are included in Appendix IV.

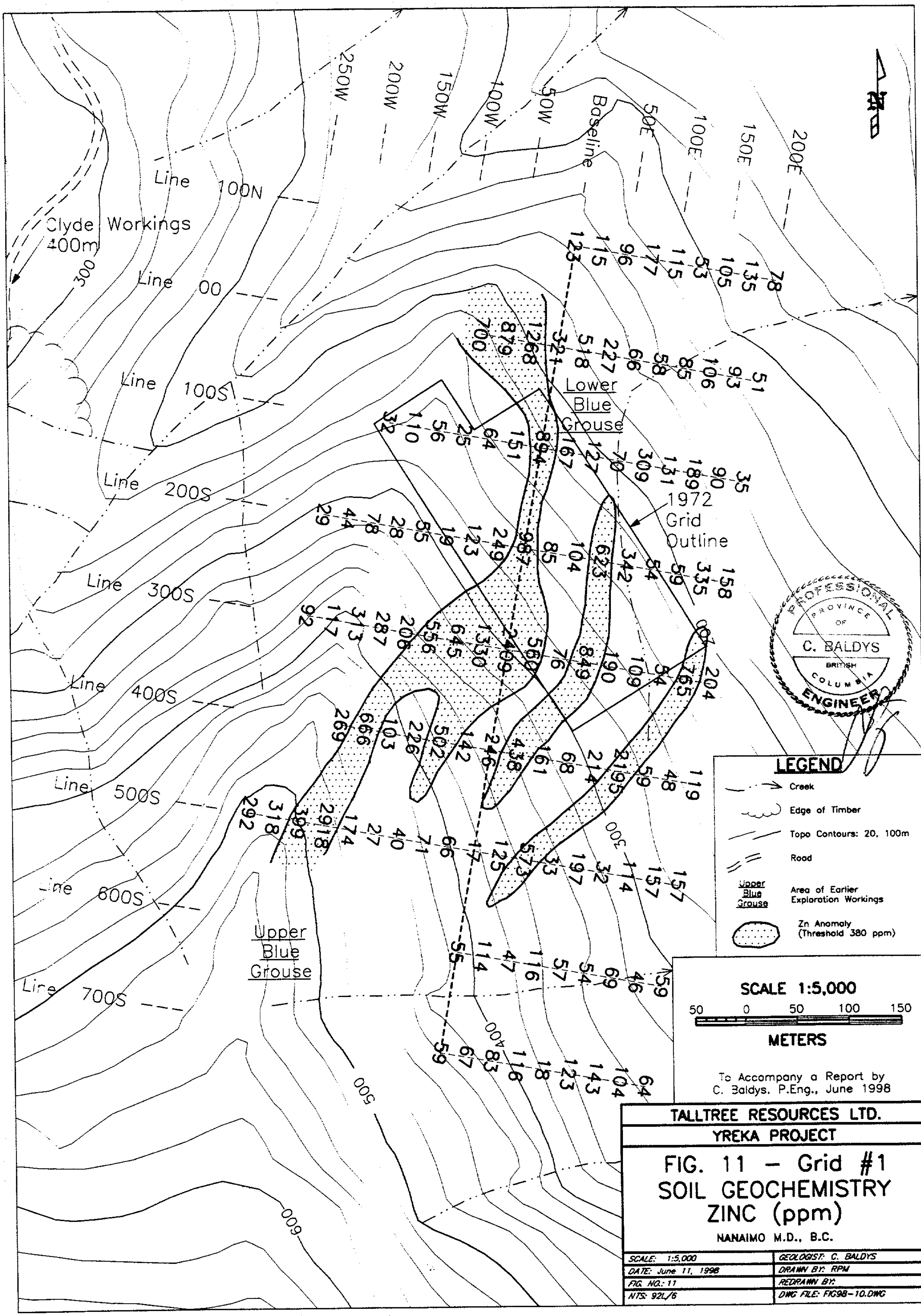
The anomalous areas were contoured at threshold values selected based on statistical data and correlation with rock geochemistry for copper, zinc, silver and gold on Figures 10 –17.

Grid # 1 Anomalies: A 500 metre long anomaly of coincident copper and silver values in soils roughly follows the ridge between Upper and Lower Blue Grouse. It is open to the north, south and west (Figure 10, 13). Anomalous values in zinc appear to follow the same north to northeasterly trend but have defined, narrow widths (Figure 11).

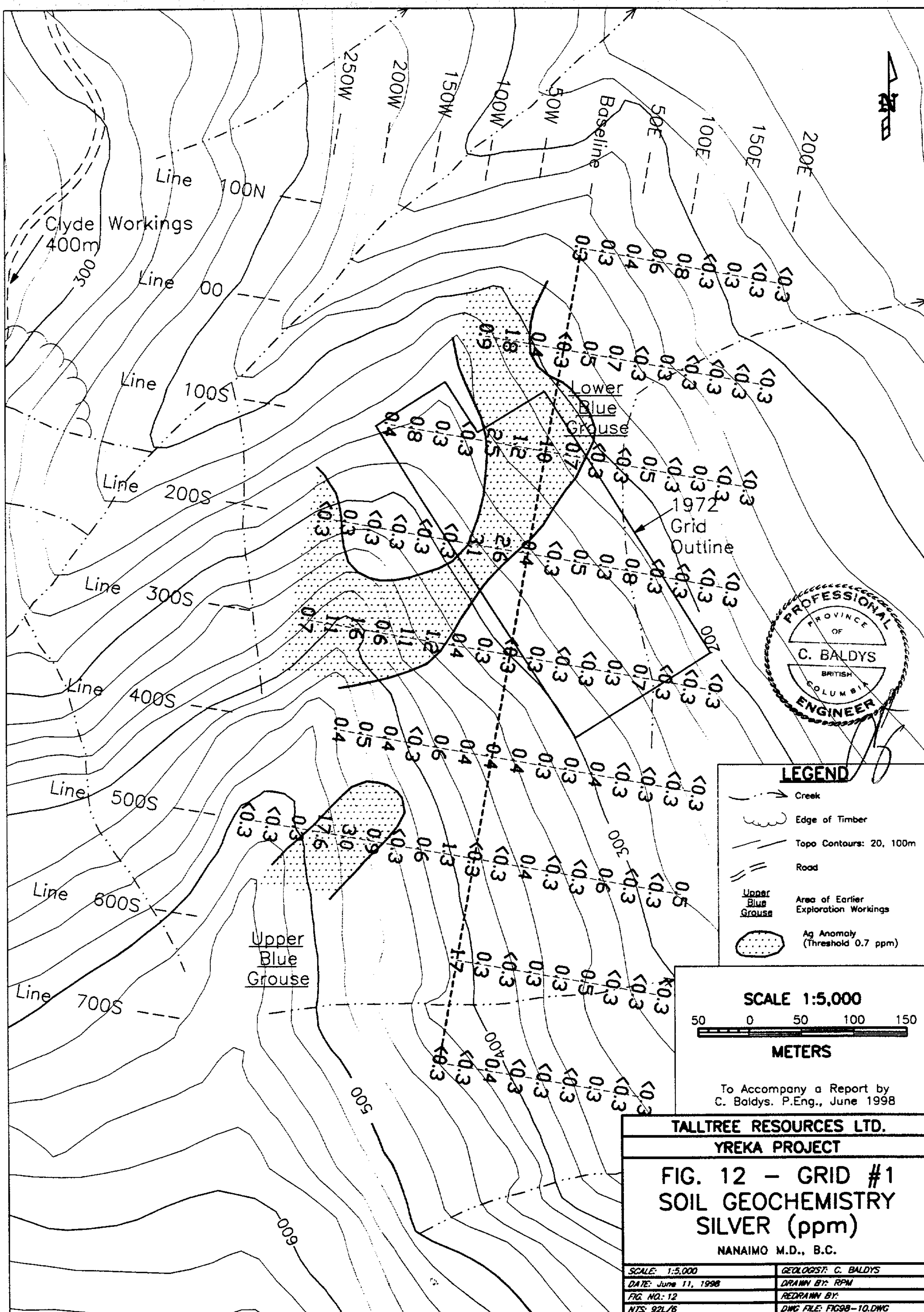
Grid # 2 Anomalies: Two anomalies were outlined over the area of Grid # 1. Three elements: copper, zinc, silver form anomalous populations in the data set. Gold >11 ppb forms a distinct enrichment haloe coincident with the above anomalies. The first anomaly, located along Tuscarora Creek, is well defined by copper values ranging from 145 ppm to 800 ppm. It measures 800 meters in length and 150 – 300 meters in width. The copper anomaly area coincides with anomalous zinc concentrations and is situated within larger haloes of gold and silver (Figure 15 –18). The second anomaly traverses rugged slopes north of the Clyde workings. It is open to the south, east and west. Limited grid size due to



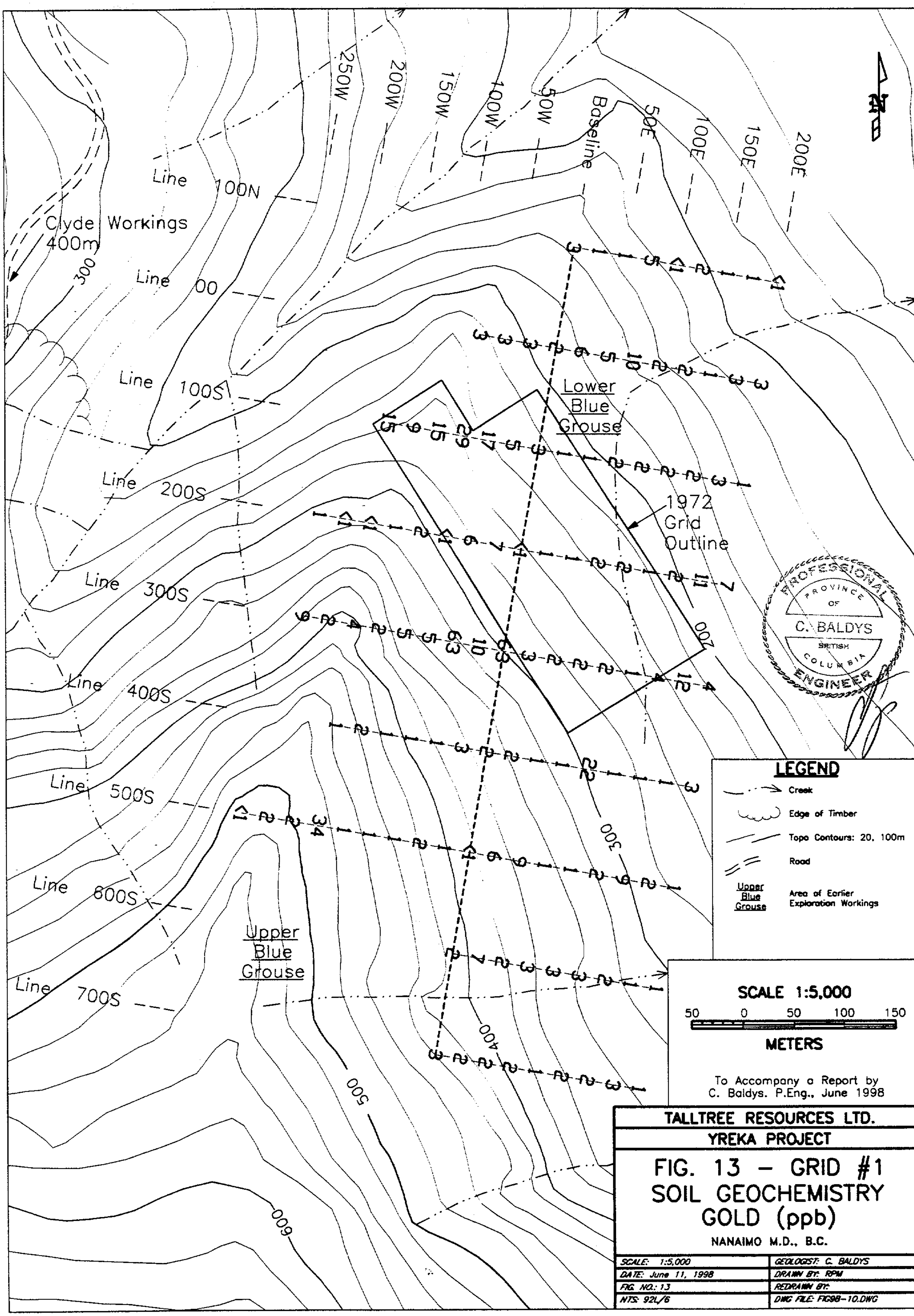
Line 100N
Line 00
Line 100S
Line 200S
Line 300S
Line 400S
Line 500S
Line 600S
Line 700S
250W
200W
150W
100W
50W
Baseline
50E
100E
150E
200E
Clyde Workings
400m
Lower
Blue
Grouse
Upper
Blue
Grouse
1972
Grid
Outline
N/S
N/S
300
400
500
600
PROFESSIONAL
PROVINCE OF
C. BALDYS
BRITISH COLUMBIA
ENGINEER
LEGEND
Creek
Edge of Timber
Topo Contours: 20, 100m
Road
Area of Earlier Exploration Workings
Cu Anomaly (Threshold 145 ppm)
SCALE 1:5,000
50 0 50 100 150
METERS
To Accompany a Report by C. Baldys. P.Eng., June 1998
TALLTREE RESOURCES LTD.
YREKA PROJECT
FIG. 10 – GRID #1
SOIL GEOCHEMISTRY
COPPER (ppm)
NANAIMO M.D., B.C.
SCALE: 1:5,000
GEOLOGIST: C. BALDYS
DATE: June 11, 1998
DRAWN BY: RPM
FIG. NO.: 10
REDRAWN BY:
NTS: 92L/6
DWG FILE: FIG98-10.DWG



Clyde Workings 400m
Line 100N
Line 00
Line 100S
Line 200S
Line 300S
Line 400S
Line 500S
Line 600S
Line 700S
250W
200W
150W
100W
50W
Baseline
50E
100E
150E
200E
Lower Blue Grouse
Upper Blue Grouse
1972 Grid Outline
PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
C. BALDYS
LEGEND
Creek
Edge of Timber
Topo Contours: 20, 100m
Road
Upper Blue Grouse
Area of Earlier Exploration Workings
Zn Anomaly (Threshold 380 ppm)
SCALE 1:5,000
50 0 50 100 150
METERS
To Accompany a Report by C. Baldys, P.Eng., June 1998
TALLTREE RESOURCES LTD.
YREKA PROJECT
FIG. 11 – Grid #1
SOIL GEOCHEMISTRY
ZINC (ppm)
NANAIMO M.D., B.C.
SCALE: 1:5,000
DATE: June 11, 1998
FIG. NO.: 11
NTS: 92L/6
GEOLOGIST: C. BALDYS
DRAWN BY: RPM
REDRAWN BY:
DWG FILE: FIG9B-10.DWG



Clyde Workings 400m
Line 100N
Line 00
Line 100S
Line 200S
Line 300S
Line 400S
Line 500S
Line 600S
Line 700S
250W
200W
150W
100W
50W
Baseline
50E
100E
150E
200E
Lower Blue Grouse
Upper Blue Grouse
1972 Grid Outline
300
400
500
600
N
PROFESSIONAL
PROVINCE OF
C. BALDYS
BRITISH COLUMBIA
ENGINEER
LEGEND
Creek
Edge of Timber
Topo Contours: 20, 100m
Road
Area of Earlier Exploration Workings
Ag Anomaly (Threshold 0.7 ppm)
SCALE 1:5,000
50 0 50 100 150
METERS
To Accompany a Report by C. Baldys. P.Eng., June 1998
TALLTREE RESOURCES LTD.
YREKA PROJECT
FIG. 12 – GRID #1
SOIL GEOCHEMISTRY
SILVER (ppm)
NANAIMO M.D., B.C.
SCALE: 1:5,000
GEOLOGIST: C. BALDYS
DATE: June 11, 1998
DRAWN BY: RPM
FIG. NO.: 12
REDRAWN BY:
NTS: 92L/6
DWG FILE: FIG98-10.DWG



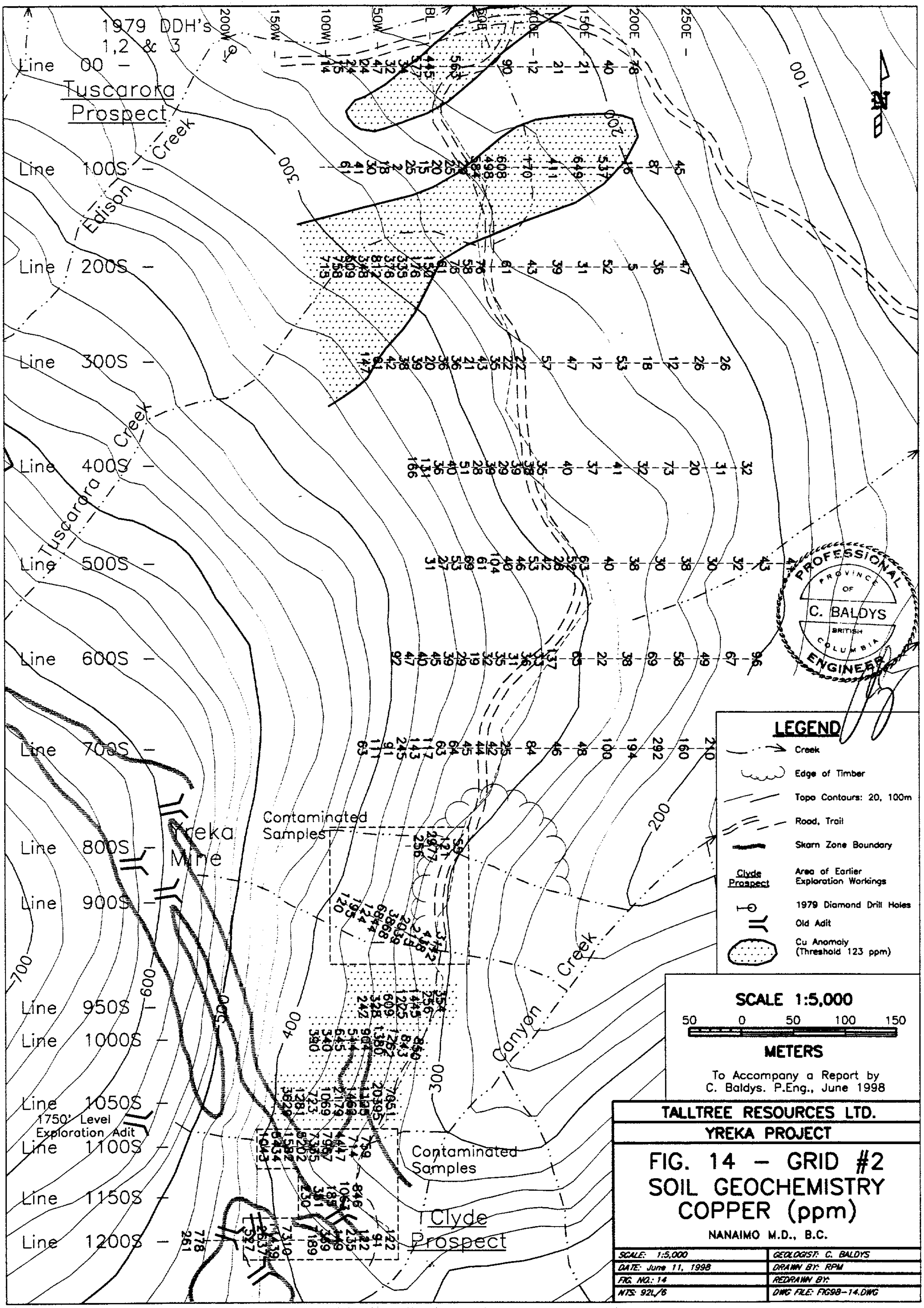
TALLTREE RESOURCES LTD.

YEKA PROJECT

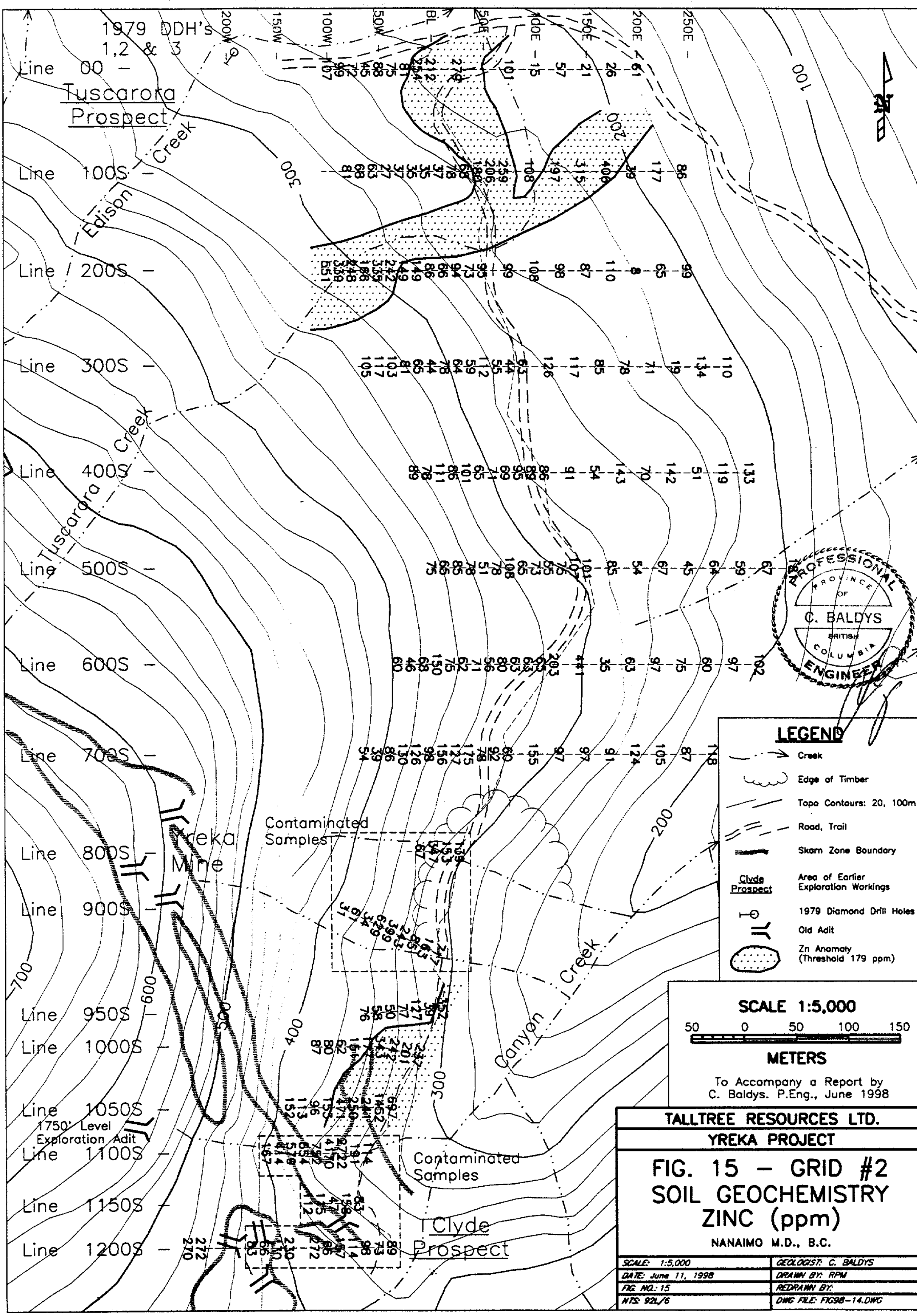
FIG. 13 – GRID #1
SOIL GEOCHEMISTRY
GOLD (ppb)

NANAIMO M.D., B.C.

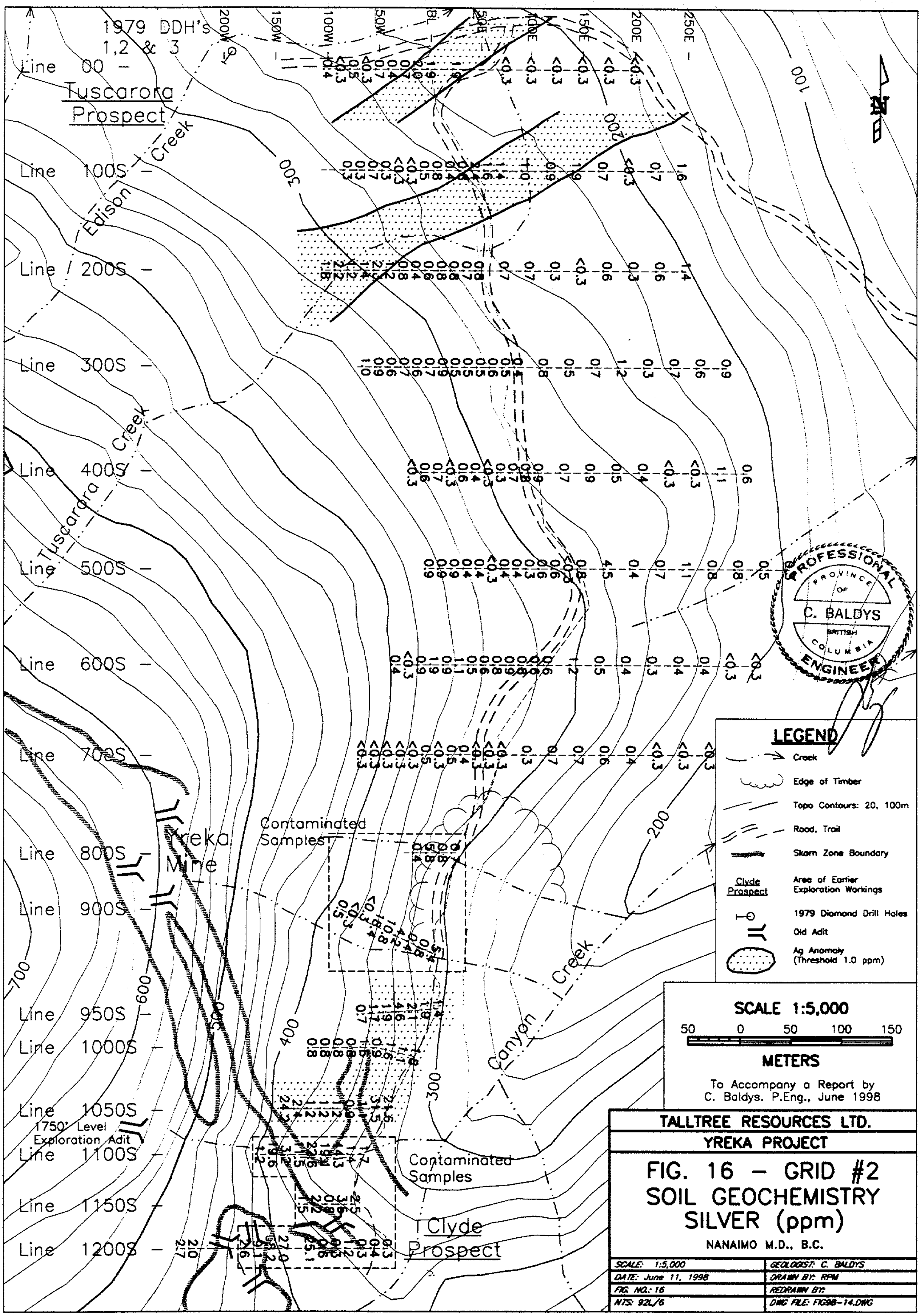
SCALE: 1:5,000	GEOLOGIST: C. BALDYS
DATE: June 11, 1998	DRAWN BY: RPM
FIG. NO.: 13	REDRAWN BY:
NTS: 92L/6	DWG FILE: FIG98-10.DWG

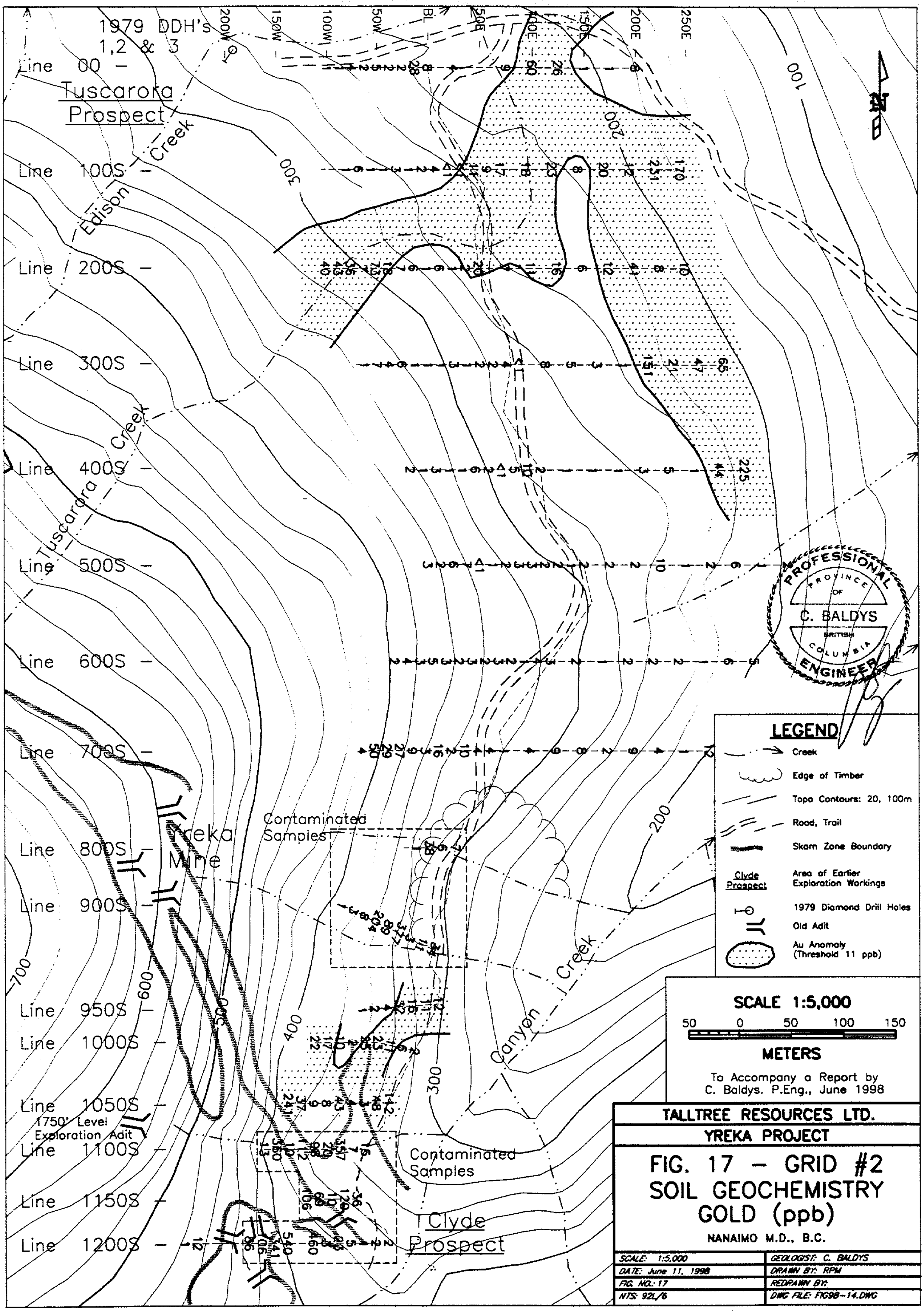


1979 DDH's 1,2 & 3
Tuscarora Prospect
Edison Creek
Tuscarora Creek
Canyon Creek
Yreka Mine
1750' Level Exploration Adit
Contaminated Samples
Contaminated Samples
Clyde Prospect
Line 00
Line 100S
Line 200S
Line 300S
Line 400S
Line 500S
Line 600S
Line 700S
Line 800S
Line 900S
Line 950S
Line 1000S
Line 1050S
Line 1100S
Line 1150S
Line 1200S
200W
150W
100W
50W
BL
50E
100E
150E
200E
250E
PROFESSIONAL
PROVINCE OF
C. BALDYS
BRITISH COLUMBIA
ENGINEER
LEGEND
Creek
Edge of Timber
Topo Contours: 20, 100m
Road, Trail
Skarn Zone Boundary
Clyde Prospect
Area of Earlier Exploration Workings
1979 Diamond Drill Holes
Old Adit
Cu Anomaly (Threshold 123 ppm)
SCALE 1:5,000
50 0 50 100 150
METERS
To Accompany a Report by C. Baldys. P.Eng., June 1998
TALLTREE RESOURCES LTD.
YREKA PROJECT
FIG. 14 – GRID #2
SOIL GEOCHEMISTRY
COPPER (ppm)
NANAIMO M.D., B.C.
SCALE: 1:5,000
DATE: June 11, 1998
FIG. NO.: 14
NTS: 92L/6
GEOLOGIST: C. BALDYS
DRAWN BY: RPM
REDRAWN BY:
DWG FILE: FIG98-14.DWG



1979 DDH's
1,2 & 3
Line 00
Tuscarora Prospect
Edison Creek
Line 100S
Line 200S
Line 300S
Line 400S
Tuscarora Creek
Line 500S
Line 600S
Line 700S
Contaminated Samples
Yreka Mine
Line 800S
Line 900S
Line 950S
Line 1000S
Line 1050S
1750' Level Exploration Adit
Line 1100S
Contaminated Samples
Line 1150S
Clyde Prospect
Line 1200S
Canyon Creek
200W
150W
100W
50W
BL
50E
100E
150E
200E
250E
PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
C. BALDYS
LEGEND
Creek
Edge of Timber
Topo Contours: 20, 100m
Road, Trail
Skarn Zone Boundary
Clyde Prospect
Area of Earlier Exploration Workings
1979 Diamond Drill Holes
Old Adit
Zn Anomaly (Threshold 179 ppm)
SCALE 1:5,000
50 0 50 100 150
METERS
To Accompany a Report by C. Baldys. P.Eng., June 1998
TALLTREE RESOURCES LTD.
YREKA PROJECT
FIG. 15 – GRID #2
SOIL GEOCHEMISTRY
ZINC (ppm)
NANAIMO M.D., B.C.
SCALE: 1:5,000
GEOLOGIST: C. BALDYS
DATE: June 11, 1998
DRAWN BY: RPM
FIG. NO.: 15
REDRAWN BY:
NTS: 92L/6
DWG FILE: FIG98-14.DWG


1979 DDH's 1,2 & 3
200W
150W
100W
50W
BL
50E
100E
150E
200E
250E
Line 00
Line 100S
Line 200S
Line 300S
Line 400S
Line 500S
Line 600S
Line 700S
Line 800S
Line 900S
Line 950S
Line 1000S
Line 1050S
Line 1100S
Line 1150S
Line 1200S
Tuscarora Prospect
Edison Creek
Tuscarora Creek
Yreka Mine
Contaminated Samples
Contaminated Samples
Canyon Creek
Clyde Prospect
1750' Level Exploration Adit
100
200
300
400
500
600
700
N
PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
C. BALDYS
LEGEND
Creek
Edge of Timber
Topo Contours: 20, 100m
Road, Trail
Skarn Zone Boundary
Clyde Prospect
Area of Earlier Exploration Workings
1979 Diamond Drill Holes
Old Adit
Ag Anomaly (Threshold 1.0 ppm)
SCALE 1:5,000
50 0 50 100 150
METERS
To Accompany a Report by C. Baldys. P.Eng., June 1998
TALLTREE RESOURCES LTD.
YREKA PROJECT
FIG. 16 - GRID #2
SOIL GEOCHEMISTRY
SILVER (ppm)
NANAIMO M.D., B.C.
SCALE: 1:5,000
DATE: June 11, 1998
FIG. NO.: 16
NTS: 92L/6
GEOLOGIST: C. BALDYS
DRAWN BY: RPM
REDRAWN BY:
DWG FILE: FIG98-14.DWG


1979 DDH's 1,2 & 3
Tuscarora Prospect
Edison Creek
Tuscarora Creek
Line 00
Line 100S
Line 200S
Line 300S
Line 400S
Line 500S
Line 600S
Line 700S
Line 800S
Line 900S
Line 950S
Line 1000S
Line 1050S
Line 1100S
Line 1150S
Line 1200S
200W
150W
100W
50W
BL
50E
100E
150E
200E
250E
Yreka Mine
Contaminated Samples
Contaminated Samples
1750' Level Exploration Adit
Clyde Prospect
Canyon Creek
LEGEND
Creek
Edge of Timber
Topo Contours: 20, 100m
Road, Trail
Skarn Zone Boundary
Clyde Prospect
Area of Earlier Exploration Workings
1979 Diamond Drill Holes
Old Adit
Au Anomaly (Threshold 11 ppb)
SCALE 1:5,000
50 0 50 100 150
METERS
To Accompany a Report by C. Baldys. P.Eng., June 1998
PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
C. BALDYS
TALLTREE RESOURCES LTD.
YREKA PROJECT
FIG. 17 – GRID #2
SOIL GEOCHEMISTRY
GOLD (ppb)
NANAIMO M.D., B.C.
SCALE: 1:5,000
GEOLOGIST: C. BALDYS
DATE: June 11, 1998
DRAWN BY: RPM
FIG. NO.: 17
REDRAWN BY:
NTS: 92L/6
DWG FILE: FIG98-14.DWG

steep topography in this area (slope inclination >30°) prevents any definite conclusions as to the size and geological meaning of this anomaly. In addition only part of the collected data is considered suitable for interpretation, namely lines 700S, 950S, 1000S, 1050S, 1100S and the western end of line 1200S. Notwithstanding, in-situ rock geochemistry results where available correlate well with the respective soil sample assays and indicate a northeast extension of the "lower band" skarn horizon at the Clyde prospect (Figures 9 and 14 – 17).

8. DISCUSSION

The largest copper skarn deposits in the world are associated with mineralized porphyry copper plutons. These deposits can exceed 1 billion tons of combined porphyry and skarn ore, with more than 5 million tons of copper recoverable from skarn (L.D. Meinert, 1992). The mineralized plutons exhibit characteristic potassium silicate alteration, which can be correlated with pro-grade garnet-pyroxene. The peripheral potassic and propylitic assemblages characterize the retro-grade alteration. In skarns they are expressed by epidote-actinolite dominated assemblages.

Most copper skarns are associated with I-type, magnetite series, calc-alcaline, porphyritic plutons, many of which have cogenetic volcanic rocks, stockwork veining, brittle fracturing and brecciation, intense hydrothermal alteration and large size. These are all features indicative of relatively shallow environment of formation compared to some other types of skarn. Copper skarns with the largest size potential are related to small stocks of granodiorite to quartz-monzonite composition. Cogenetic volcanics are andesite and quartz latite, however they are rare (Einaudi et. al 1981).

Skarn deposits in B.C. produced a total of 95 tonnes of gold (more than 3 million ounces) and 342 tonnes of silver (11 million ounces). Most of it came from the Hedley gold deposit located in south-central B.C. (E.Ray, I.Webster, 1995). Others, like skarns on Vancouver Island, host copper and iron deposits that produced gold as a byproduct. Very few produced gold in excess of 100,000 ounces.

Most of the skarn deposits on the Island are hosted in the Upper Triassic Quatsino limestone close to the contact with either underlying Karmutsen Formation or overlying Bonanza Group volcanics. At Yreka the host of most of the mineralization is the calcareous tuff of Upper Bonanza Group.

The composition and form of intrusive heat sources is wide ranging but most of them are Mid - Jurassic (comagmatic with Upper Bonanza Group volcanics). In the Quatsino Sound area Island Copper, a world class porphyry copper-molybdenum-gold deposit about 16 km northeast of Yreka, is situated in this geological setting. It is hosted in part by a quartz-feldspar porphyry dyke which could be a feeder for dacites and rhyodacites which form the upper volcanic sequences (D.G.Cargill et al., 1992).

At the Yreka deposit the "felsite" or diorite bodies are the most likely heat sources. A calcareous tuff host was susceptible to metasomatic alteration along dyke and sill contacts. The main sulphide mineralization stage probably followed the initial diffusional stage as the temperature decreased (P.R. Wilson, 1954). Permeability and structure controlled the hydrothermal circulation of metal-rich fluids (pro-grade stage). This stage probably also involved creation of distal "hot spots" along structural lineaments and the prospects surrounding the Yreka are suggested examples of it. Late retro-grade alteration followed the two earlier stages.

The large widths and lateral extent of metasomatic alteration (skarn) indicate long timing of diffussional processes at the Yreka deposit. It is therefore reasonable to expect long timing and large areal extent of pro-grade processes as well. In all of the largest deposits of any kind the time duration of mineralization was the critical ore-forming factor. Within the large skarn deposits long timing is usually exhibited by textures of mineralization having "contorted", banded-like appearance with readily apparent multiplicity of replacement stages. These textures were visible at Yreka occasionally. Strong iron-oxidation on surface was a factor in fully understanding the nature of mineralization.

The most encouraging aspect of the Yreka skarn deposit is the size of the skarn host itself. Permeability and favourable stratigraphy requirements were certainly fulfilled. Structural control of pro-grade processes is less well understood, however it did not prevent delineating blind "ore-grade" mineralization drill intersected in 1954. Easily traceable morphology of skarn due to stratiform layering was probably a factor. Drilling and geological mapping will be an effective tool in locating additional mineralization. In addition, localized geochemical haloes along lineaments and fracture intersections are present and should provide drill targets. Notwithstanding, exploring for copper skarns in general requires utilizing geochemcal methods and models which take into consideration the fact that there is a specific spatial and genetic relationship between copper porphyries and some copper skarns. In case of Yreka the proximity to Island Copper is another motivating factor.

Current world mineral economics suggests that copper skarns and gold skarns are the most economically attractive targets for exploration among various types of skarns. In the case of copper skarns it is their relatively good potential to form large tonnage copper-gold deposits while in case of gold skarns it is their potential for high-grade that makes them most economically desirable in times of fluctuating commodity prices.

9. CONCLUSIONS

The Yreka property is underlain by economically favorable geological formations, particularly the Lower to Mid Jurassic Bonanza Group and coeval intrusions. Widespread alteration and mineralization are present throughout the entire property. The copper skarn horizon of significant lateral extent and thickness of up to 250 metres has a potential to host additional economic mineralization outside of the old Yreka mine area and there are surface indications that other styles of mineralization of significant size such as porphyry copper-moly(-gold) might also be discovered.

A total of 8 mineral prospects have been identified within the newly defined exploration perimeter ranging 200 to 1000 metres from the mine. A few of them contain numerous showings and exploratory adits but none was a past producer. Most were discovered and explored preliminarily in the past but steep terrain and limited budgets prevented completion of most proposed work programs.

During the course of 1998 surveys, 5 of the 8 prospects were examined and sampled. Two prospects, Clyde and North Arm, revealed particularly promising geological features and returned encouraging assay results. They were selected as targets for the 1999 exploration programs (Figure 18).

At Clyde, the first target, extensive exploratory adits completed at the turn of the century are inaccessible but were surveyed by Noranda in 1953-53. Grades obtained underground correlate well with results obtained during 1998 sampling on surface. Indications are that additional important mineralization is present within and near the old workings. In spite of considerable surface and underground work done over the years, only two short holes were drilled in this area in 1953 (Figure 7). Later, in 1954, Noranda used deeper holes to delineate a blind deposit at Yreka, 400 metres to the north.

The skarn horizon hosting localized sulphide mineralization at Clyde is approximately 250 metres thick and has never been drill tested across the full width. It dips approximately 30° west-southwest towards the North Arm prospect situated 250 to 400 metres west of the Clyde portals. Topographic conditions would allow testing of this zone by step-out holes.

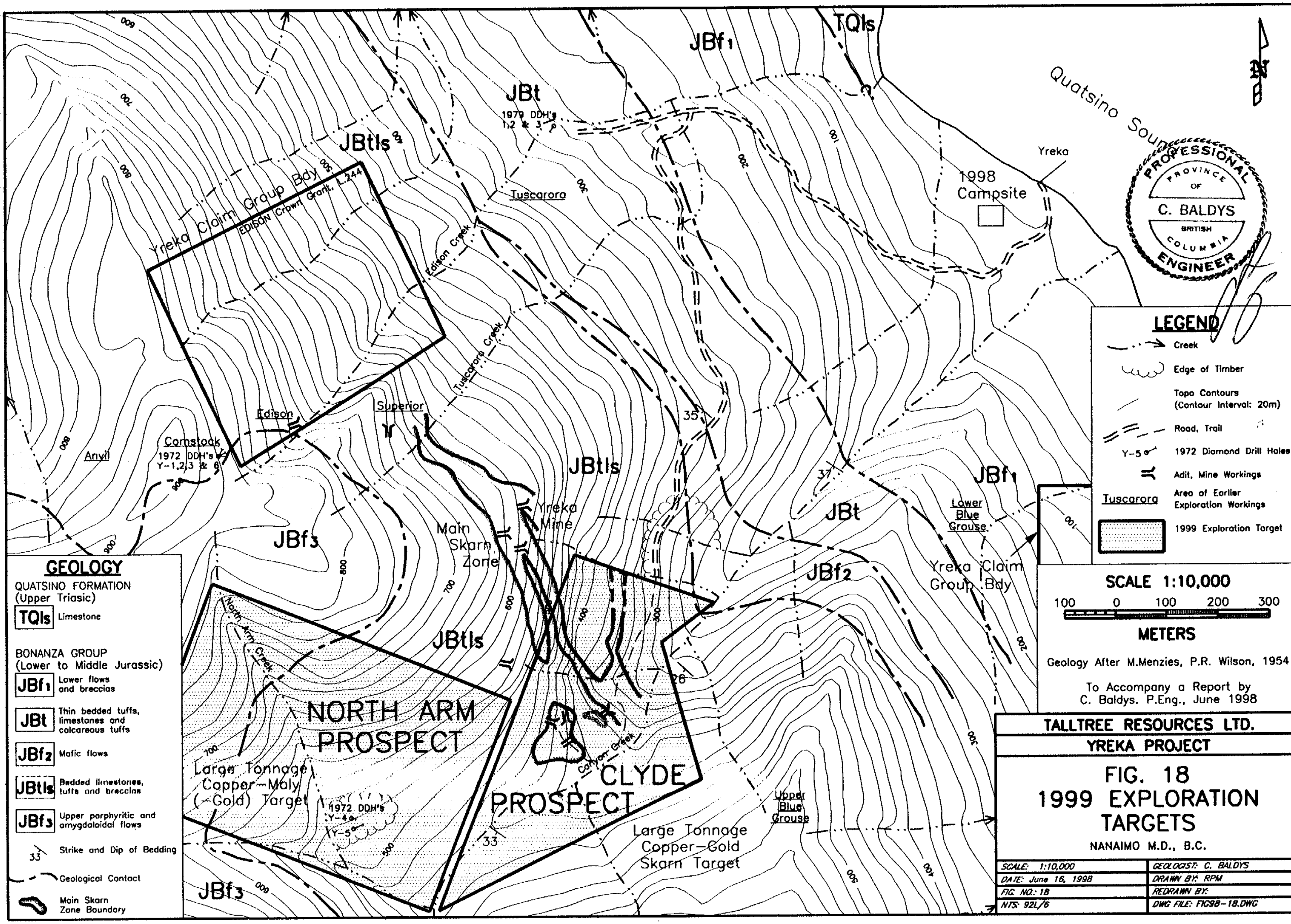
The 1998 soil and rock geochemistry surveys have followed on surface the extension of the footwall part of the main zone ("lower skarn band") to the northeast for a total distance of 300 metres. Significant widths of mineralized outcrops were sampled and locally revealed encouraging precious metal values (Figure 9).

The second target is the area situated between the Clyde and the North Arm Creek (North Arm prospect). Numerous mineralized gossans were located to the east of North Arm Creek by following a strong, open copper anomaly in soils outlined in 1972 (see paragraph 8.1). The anomaly was poorly defined due to size of the grid (130 x 180 m). The style of mineralization in outcrops appears to be quite different from the Yreka skarn area. Red-brown iron oxides observed in the weathering zone with silicification and copper-molybdenite mineralization might indicate a transitional zone toward a copper-porphyry system at depth. The geological setting of the area including the presence of thick skarn nearby (Clyde prospect) favors a porphyry copper-moly(-gold) system as a prime target of economic interest (Figure 18).

STATEMENT OF EXPENSES 1998

1.	RENTALS		
	4 X 4 Trucks & autos	$ 1,666	
	ATV	$ 1,104	
	Autotel	$ 300	
	Generator & Field Equipment	$ 850	
	Geophysical Instrument	$ 596	
		$ 4,516	**$ 4,516**
2.	TRAVEL & TRANSPORT		
	Road Travel & Accomodation	$ 2,098	
	Bus & Water Shipping	$ 494	
	Water Taxi	$ 3,443	
	Barging-Heavy Equipment	$ 600	
	Helicopter Support	$ 581	
		$ 7,216	**$ 7,216**
3.	ACCOMODATION (PROJECT)		
	Hotel Accomodation	$ 1,372	
	Meals - town	$ 1,077	
	Field Accomodation & Meals	$ 7,920	
		$10,369	**$10,369**
4.	FIELD EQUIPMENT		
	Tools & Lumber	$ 2,715	
	Support Material & Gas	$ 1,825	
		$ 4,540	**$ 4,540**
5.	CONTRACTS - CONSULTING		
	Road Construction	$ 7,000	

	Geologist's Report	$ 7,986	
	Road Engineering	$ 1,333	
	Geological Consulting	$ 2,323	
		$18,642	**$18,642**
6.	ASSAYING	$ 6,686	**$ 6,686**
7.	WORKERS COMPENSATION	$ 677	**$ 677**
8.	WAGES		
	B. Fitch, Supervisor 36 days @ $300/day	$10,800	
	T. Jones, Soil Sampler 24 days @ $200/day	$ 4,800	
	P. Poissant, Linecutter 28 days @ $200/day	$ 5,600	
	J. Fitch, Surveyor 20 days @ $200/day	$ 4,000	
	M. Pringle, Helper 33 days @ $150/day	$ 4,950	
	C. Baldys, Geologist 26 days @ $350/day	$ 9,100	
		$39,250	**$39,250**
	TOTAL EXPENSES		**$91,896**



GEOLOGY
QUATSINO FORMATION
(Upper Triassic)
TQls Limestone
BONANZA GROUP
(Lower to Middle Jurassic)
JBf1 Lower flows and breccias
JBt Thin bedded tuffs, limestones and calcareous tuffs
JBf2 Mafic flows
JBtls Bedded limestones, tuffs and breccias
JBf3 Upper porphyritic and amygdaloidal flows
Strike and Dip of Bedding
Geological Contact
Main Skarn Zone Boundary
LEGEND
Creek
Edge of Timber
Topo Contours (Contour Interval: 20m)
Road, Trail
1972 Diamond Drill Holes
Adit, Mine Workings
Tuscarora
Area of Earlier Exploration Workings
1999 Exploration Target
SCALE 1:10,000
100 0 100 200 300
METERS
Geology After M.Menzies, P.R. Wilson, 1954
To Accompany a Report by C. Baldys. P.Eng., June 1998
TALLTREE RESOURCES LTD.
YREKA PROJECT
FIG. 18
1999 EXPLORATION TARGETS
NANAIMO M.D., B.C.
SCALE: 1:10,000
GEOLOGIST: C. BALDYS
DATE: June 16, 1998
DRAWN BY: RPM
FIG. NO.: 18
REDRAWN BY:
NTS: 92L/6
DWG FILE: FIG98-18.DWG
PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
C. BALDYS
Quatsino Sound
Yreka
1998 Campsite
TQls
JBf1
JBt
1979 DDH's 1,2 & 3
JBtls
Yreka Claim Group Bdy
EDISON Crown Grant, L.244
Tuscarora
Edison Creek
Tuscarora Creek
Superior
Edison
Comstock
1972 DDH's Y-1,2,3 & 6
Anvil
Yreka Mine
Main Skarn Zone
JBf3
JBtls
JBt
JBf2
Lower Blue Grouse
Yreka Claim Group Bdy
North Arm Creek
NORTH ARM PROSPECT
Large Tonnage Copper-Moly (-Gold) Target
1972 DDH's Y-4 Y-5
CLYDE PROSPECT
Canyon Creek
Large Tonnage Copper-Gold Skarn Target
Upper Blue Grouse
JBf3

10. RECOMMENDATIONS

A two phase work program is recommended for 1999 on the the Yreka property. The proposed budget is $ 100,000 for Phase I and $ 300,000 for Phase II.

Due to the favorable geological setting of the Clyde and North Arm prospects and close relative location, they were selected as first priority targets from which detailed grid work and exploratory drilling should commence (Figure 18). Other prospects within the new exploration perimeter require subsequent reconnaissance evaluations as the work on the Clyde and North Arm prospects progresses. One or two lines should reach the headwaters of North Arm Creek to provide survey control in this area and, if possible, extend all the way to the Anvil Prospect. The subsequent rock sampling should also include Comstock, and the area between Upper Blue Grouse and Clyde. More rock chip sampling and prospecting is also justified in the vicinity of new anomalies near Tuscarora Creek.

1999 WORK ESTIMATES

Clyde area

The following work is recommended to test the potential for economic mineralization down dip and to extend the surface mineralization to the northeast and south from Clyde workings:

Phase I:
Detailed, 1 : 500 scale mapping and additional geochemistry surveys

Phase II:
1) Drill Site Preparation
2) 800 meters of NQ Diamond Drilling

North Arm Creek

The following work is recommended to explore the area for potential large tonnage copper-moly(-gold) mineralization based on results to date:

Phase I:
1) Grid controlled soil geochemistry surveys, 6 line kilometres
2) Magnetometer surveys, 6 line kilometres
3) Geological mapping, prospecting and rock geochem. surveys at 1: 2,500 map scale
4) Detailed mapping of selected areas at 1 : 500 scale

Phase II:
1) Hand-drill blasting/trenching
2) Drill site preparation
3) 800 meters of NQ Diamond Drilling

Anvil, Comstock,Tuscarora Creek, and the area between Upper Blue Grouse and Clyde

One phase of work is proposed for 1999 to establish the source of anomalies outlined to date and/or to evaluate the old showings

Phase I
1) Prospecting and rock geochemistry surveys

11. PROPOSED BUDGET

Yreka Property, Phase I and II of 1999 exploration program:

Phase I

ITEM		COST
1) Legal, Insurance, Permits, Bonding		$6,000
2) Field Equipment, Supplies		$10,000
3) Mob – Demob/Storage/Shipping		$5,200
4) Geophysical surveys - 6.0 km MAG @ $375/km		$2,250
5) Analyses, samples	400 @ $15/sample	$6,000
	100 @ $22/sample	$2,200
6) Food, sustenance, accommodation		$ 9,000
7) Personel: (1 Geologist, 2 Technicians, 1 Cook – @ $ 300/day, $225/day, $200/day * 26 days)		$24,700
Project Geologist (30 days @ $ 325/day)		$9,750
8) Reporting, Project Geologist (20 days @ $ 325/day)		$6,500
9) Truck Rental	$80/day * 30 days	$2,400
10) 4-Wheel ATV Rental	$30/day * 26 days	$780
11) Helicopter Support	5 hours $ 800/hr	$4,000
12) Water Taxi	10 trips @ $ 225/trip	$2,250
	Subtotal	$91,000
	Contingency (10 %)	$9,000
	Total	**$100,000**

Proposed Budget cont. page 25

Dependent on positive Phase I stage results:

Phase II

ITEM				COST
1) Helicopter Support	20 hours @ $800/hr			$16,000
2) Hand-drill blasting/trenching	12 days @ $600/day			$7,200
3) Drill Site Permitting				$6,000
4) Drill Site Preparation, (5 sites)				$9,000
5) Diamond Drilling NQ size (all inclusive)				
1 Drill	Metres	$/Meter	Drilling $	
	1600	$110.00	$176,000	$176,000
6) Assays	40 % (640 metres)	@ $25.00		$16,000
7) Travel				$3,000
8) Personel:				
Geologist	($300/day * 26 days)			$7,800
Core Technician	($200/day * 26 days)			$5,200
Cook/Expediting	($200/day * 26 days)			$5,200
9) Reporting, Consulting Geologist	($300/day * 10 days)			$3,000
10) Food, Sustenance	(7 – 8 man crew * 26 days)			$11,000
11) Field/Camp Equipment, Supplies				$4,500
12) Truck Rental	$80/day * 28 days			$2,240
13) 4-Wheel Drive ATV Rental	$30/day * 26 days			$780
			Subtotal	$273,000
			Contingency (10%)	$27,000
			Total	**$ 300,000**

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13. CERTIFICATE OF QUALIFICATIONS

I, CHRISTOPHER BALDYS, of 23035 Cliff Avenue, Maple Ridge, in the Province of British Columbia, do hereby certify that:

1. I am a Consulting Geologist with an office at 23035 Cliff Avenue, Maple Ridge, British Columbia.

2. I am a 1980 graduate of the University of Mining and Metallurgy of Cracow, Poland with a degree in Mining Geology.

3. I have practiced my profession as a geologist in Poland in 1980 -1983 and in Canada continuously since 1984.

4. I am a member in good standing of the Association of Professional Engineers and Geoscientists of the Province of British Columbia since 1990.

5. I have evaluated the claims in March 4 – 14 and May 4 – 12, 1998 and examined all relevant private and published descriptions as referenced pertaining to the Yreka claims area.

6. I hold neither interest in the securities of Talltree Resources Ltd. nor in their present holdings in the Yreka claims area nor do I expect to obtain such securities or holdings.

7. This report may be used by Talltree Resources Ltd. for any news release, Prospectus or Statement of Material Facts or other documentation required by a regulatory authority, related to the Yreka Group of Claims, provided that no excerpts are used out of context with the whole.

Dated at Maple Ridge, B.C. this 16th day of June, 1998

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — C. BALDYS

Christopher Baldys, P.Eng.

APPENDIX I

ROCK SAMPLE DESCRIPTIONS

Yreka Property - 1998 Rock Sample Descriptions

Sample	Type	Lenght (m)	Area	Description	Cu ppm	Mo ppm	Zn ppm	Ag ppm	Au ppb
1001	grab float	N/A	Clyde	Green flow textured volcanic, brecciated, some sec. qtz and carb. intense lim. staining	609	2	74	0.9	19
1002	grab	N/A	Tuscarora	Grab from gouge/shear zone mineralized with black, dusty sph, pyrr, py mixed with oxides in a flow textured volc.host.	665	5	56,012 * 6.41%	1.5	2
1003	chip	1.0	Tuscarora	Shear zone in siliceous flow mineralized with py., and minor sph. and pyrr. Loc. abundant lim., hem.	2,604	5	34,141 * 3.77%	5.6	5
1004	float composite	N/A	Lower Blue Grouse	Pieces of stronly oxidized skarn ?, with pyrr, py. and minor cpy.	1,912	2	392	9.0	33
1005	grab	N/A	Lower Blue Grouse	Sheared tuff with limy matrix and sele-ctive replacement of frag's by py (25%)	965	5	9,426 * 1.05%	1.1	3
1006	grab float	N/A	Lower Blue Grouse	Silicified tuff cut by qtz stringers	167	2	758	0.3	2
1007	grab panel	1.0	Lower Blue Grouse	Altered tuff: limonitic-hematitc, porous text., locally graphitic. Minor py min. Alteration following bedding 152/50/NW	1,368	2	134	0.5	9
1008	grab	N/A	Lower Blue Grouse	Green siliceous tuff with secondary carb. garnet ? and pyrr min. (8%). Fractured lim stained outcrop.	1,928	2	142	2.9	16

Yreka Property - 1998 Rock Sample Descriptions

Sample	Type	Lenght (m)	Area	Description	Cu ppm	Mo ppm	Zn ppm	Ag ppm	Au ppb
1009	grab	N/A	Clyde Portal #2	Garnet skarn mineralized by cpy (10%) and pyrr (12%).	10,609 * 1.279%	1	341	15.0	242
1010	chip	1.5	Clyde Portal #2	Malachite-limonite stained shear (340/90 in carbonatized and sulph. min tuff	8,207 * 0.985%	1	272	16.2	331
1011	chip	6.2	Clyde Portal #2	Garnet skarn with irregular cpy and pyrr min.	15,074 * 1.808%	3	481	22.5	302
1012	grab	N/A	Tuscarora Old cut	Siliceous-limey tuff, with strong iron-ox. staining and patchy min. by black dusty sph mixed with hem.? Shear zone: 363/85/E	797	5	52,934 * 6.03%	1.2	11
1013	chip	1.7	Tuscarora Old cut	Siliceous-limey tuff with poddy qtz, lim on fractures and sph + pyrr + py min. (7%).	824	4	10,870 * 1.22%	1.2	5
1014	chip	1.5	Tuscarora Old cut	Siliceous, carb. altered tuff with loc pyrr and sph min mixed with oxides.	2,482	4	4,108 *0.50%	6.6	6
1015	chip	2.1	Tuscarora Old cut	Siliceous tuff, loc strongly carb with marble-like text., minor diss sulph.	302	5	1,173	0.8	2
1016	chip	1.5	Tuscarora Old cut	Sheared siliceous tuff, strongly iron-ox. with irregular sulph min. (15%). Mainly pyrr and sph. Minor cpy. 40/86/SE	1,797	5	17,039 *2.11%	4.2	4
1017	select grab	N/A	Lower Blue Grouse	Selected quartz from 1-1.5 cm wide quartz vein.	103	4	329	0.3	3

Yreka Property - 1998 Rock Sample Descriptions

Sample	Type	Lenght (m)	Area	Description	Cu ppm	Mo ppm	Zn ppm	Ag ppm	Au ppb
1018	grab	N/A	Lower Blue Grouse	Limey tuff with strong carb alt; stringers and blebs of pyrr (15%)	366	1	286	0.5	2
1019	grab float	N/A	Lower Blue Grouse	Large, 1 metre, boulder in a creek gully. Limy bedded tuff, sil and carb. Strong iron-ox. on fractures and bedding planes, mineralized with pyrr, py, sph.	1,299	4	11,051 *1.35%	1.7	4
1020	grab float	N/A	Lower Blue Grouse	Brecciated limey tuff boulder sil + carb alt; min with pyrr, py (7%). Strong iron-ox. staining.	671	2	608	0.9	3
1021	composite float	N/A	Clyde	Intensely altered felsic intrusive. Sil and boxwork textured (after py cubes). 15-20% of py remaining.	1,929	48	56	2.4	14
1022	grab	N/A	Grid # 2 North	Shear zone in a siliceous tuff of flow 198/83/W. Strong iron-ox. marking tect. brecciation.	902	5	15,656 *1.87%	4.4	49
1023	float	N/A	Clyde	Dk green, siliceous tuff. Chlorite reaming fragments up to few cm in size. Patches of pyrr mineralization in some frag's.	256	1	85	0.7	1
1024	float	N/A	North Arm	Massive, dk grey silicified tuff? or flow min by cpy (1%) and pyrr (<0.5%).	4,164 *0.458%	59	243	7.6	29
1025	select grab	N/A	North Arm	Large, few cm limestone fragment, repla-ced by quartz, molybdenite (3%) and pyrr (15%).	2,359	4,958	98	2.8	3
1026	chip	3.0	North Arm	Chip/panel across intensly fractured sil. and iron-ox stained tuff. with minor cpy. and moly. min. Fracture trend 30/82/NW	2,033	741	105	3.1	6

Yreka Property - 1998 Rock Sample Descriptions

Sample	Type	Lenght (m)	Area	Description	Cu ppm	Mo ppm	Zn ppm	Ag ppm	Au ppb
1027	grab	N/A	North Arm	Sheared, lim. stained siliceous tuff? or flow outcrop.	1,075	443	31	1.3	23
1028	grab float	N/A	North Arm	Altered porphyritic intrusive: qtz. phenocrysts in propylitized ? matrix min with diss py.	59	3	112	0.7	1
1029	grab	N/A	North Arm	Strongly fractured iron-ox. stained, bedded flow. Shear zone: 83/85/NE. Locally limonite-rich tectonic breccia.	266	34	20	0.3	2
1030	grab	N/A	Lower Blue Grouse	Iron-oxide rich outcrop in the footwall of 1007 sampled zone. High content of black dusty "graphite-like" mineral mixed with oxides and minor cpy.	1,257	2	49	1.6	4
1031	grab float	N/A	Lower Blue Grouse	30 cm diam. boulder of sulphide min. tuff. Strong sil and carb alt. plus minor garnet ? Pyrr (15%), cpy (3%)	9,406 *0.920%	<1	949	30.7	63
1032	chip	1.0	Lower Blue Grouse Old trench	Carb. and sil. tuff with 13 -18% sulph min: pyrr (12%), cpy (3%) and py (1%). Min. is depleted along "cherty" , sil and carb alt flow bands and increases within tuff textured bands.	8,892 *0.883%	<1	527	17.2	81
1033	chip	5.0	Lower Blue Grouse	Carb and sil tuff with minor pyrr and cpy mineralization	1,349	3	136	2.5	9
1034	chip	2.0	Lower Blue Grouse	Carb and sil tuff with frequent "cherty" bands. Minor pyrr and cpy. Loc. dark, dusty graphite?.	1,645	10	125	3.2	31

Yreka Property - 1998 Rock Sample Descriptions

Sample	Type	Lenght (m)	Area	Description	Cu ppm	Mo ppm	Zn ppm	Ag ppm	Au ppb
1035	chip	4.0	Lower Blue Grouse Old trench	Sil and carb alt tuff (lapilli to breccia size frag's). Loc strong sulph min (up to 30% cpy.) Avg. suph. content: 10%; mainly pyrrothite.	10,266 *0.996%	2	597	25.0	238
1036	chip	4.0	Lower Blue Grouse Old trench	As above, locally with massive pyrr/cpy replacements. Minor sph min.	23,717 *2.309%	1	1,240	63.3	249
1037	chip	1.5	Lower Blue Grouse Old trench	Massive to semi-massive pyrr and cpy min. Locally strongly oxidized.	12,473 *1.197%	1	7,935 *0.79%	48.6	82
1038	chip	2.5	Lower Blue Grouse Old trench	Fractured iron-ox stained tuff with minor sulph min.	621	3	53	1.2	10
1039	chip	2.5	Lower Blue Grouse Old trench	As above. Loc pyrr stringers concordant with bedding.	686	1	124	1.2	7
1040	chip	2.5	Lower Blue Grouse Old trench	Pale greenish tuff, fractured, iron-ox stained.	664	2	44	1.2	4
1041	chip	2.5	Lower Blue Grouse Old cut ?	Massive sil tuff, fractured/sheared 50/90 Minor diss py min.	669	1	50	1.1	5
1042	grab	N/A	Lower Blue Grouse Old trench	Main shear zone at the east end of an old trech. Shear 68/85/NW. Strong carb alt. Locally massive py. Cpy 0.5%.	3,496 *0.343%	2	134	5.8	15
1043	grab float	N/A	Lower Blue Grouse	30 cm diam. boulder of intensely alt tuff? min by sph (20%) py (10%) and minor cpy (0.5%). Sample collected 10 metres from an old open cut filled with water.	2,461	2	77,646 *7.19%	2.6	13

Yreka Property - 1998 Rock Sample Descriptions

Sample	Type	Lenght (m)	Area	Description	Cu ppm	Mo ppm	Zn ppm	Ag ppm	Au ppb
1044	grab float	N/A	Canyon Creek	Oxidized vuggy quartz vein float with 10% py min.	458	1	531	1.3	19
1045	grab	0.8	Canyon Creek	Gouge/shear zone in limey tuff: 350/87/W. Py min 3-5%.	190	<1	290	0.6	3
1046	chip	3.6	Clyde	Skarn - quartz rich, some green garnets, epidote. Minor sulph min, mainly pyrr Iron oxides up to 15% locally.	154	96	24	<0.3	50
1047	chip	3.5	Clyde	Garnet skarn with strong sulph min: cpy + pyrr, loc massive. Malachite 1-3% iron oxides 10-15%.	20,886 *2.063%	15	614	31.7	914
1048	chip	4.0	Clyde	Garnet skarn with extreme iron oxide content (50-60%). Locally crumbly, soft. Minor "relicts" of fresh cherty tuff. Cpy + pyrr min < 3%.	2325	8	78	9.0	62
1049	chip	6.0	Clyde	Garnet skarn, with irregular cpy min avg 1-2 %. Locally podds of pyrr of up to 20%, intermixed with black oxide. Malachite < 1%.	2085	28	54	4.5	458
1050	grab	N/A	Clyde	Garnet skarn with strong iron-oxide (20-30%), + black "graphite-like" oxide ? (10%). No visible copper min.	178	2	19	0.3	85
1051	grab	N/A	Grid #2 South at Road End	Flinty silicified tuff breccia, min. with pyrr. (10-18%) in form of irregular podds Located at footwall of barren skarn zone.	1053	5	55	0.9	30
1052	grab	N/A	Clyde	Lt. greenish flinty tuff, lappilli size clasts. Interstitial cpy min (5 - 8%) replacing matrix of tuff.	13,652 * 1.417%	1	564	24.2	70

Yreka Property - 1998 Rock Sample Descriptions

Sample	Type	Lenght (m)	Area	Description	Cu ppm	Mo ppm	Zn ppm	Ag ppm	Au ppb
1053	grab	N/A	Clyde	Massive, cpy mineralization in form of isolated "pocket" wedged between iron stained, barren, garnet skarn and flinty flinty tuff along 338/82/NE fracture.	13,614 * 1.365%	6	351	49.7	428
1054	grab	N/A	Clyde	Strongly altered diorite dyke (qtz+ser?+ py.). 10-15% diss pyrite and minute cpy. grains.	522	2	18	0.4	11
1055	grab	N/a	Clyde	Rusty zone 0.5x0.3m in silicified tuff, with pebble-like fragments loc replaced by skarn minerals.Interstititial cpy (8-9% and pyrr (7-8%) replacing matrix.	18,453 * 1.807%	1	449	28.6	400
1056	chip	5.6	Clyde	Quartz-epidote-garnet altered tuff with low but consistent pyrr+ cpy min thro-ughout the sampled interval and beyond. (steep inaccesible outcrops) Total cpy min. averaging < 1 %.	3,411	3	395	4.6	68
1057	grab	N/A	Clyde	Garnet skarn with high iron oxide cont-ent (30%). Minor cpy < 1%. Locally massive pyrrothite along 0.3 m wide zone related to vert. fracture system trending 20 deg. intersected by a sys-tem 353/60/SE.	182	2	64	<0.3	142
1058	grab	N/A	Clyde	Greenish, flinty tuff with diss cpy mine - ralization (3-4%) and minor pyrr (<1%).	3,085	1	114	4.6	112
1059	chip	5.0	Yreka Mine Portal	Garnet-epidote skarn with massive suph min. locally. Average < 2% cpy. 5% pyrr High iron oxide content (30-40%).	2,383	1	73	7.6	31
1060	chip	8.0	Yreka Mine Portal	Garnet skarn strongly stained by iron oxides. Locally minor malachite staining.	7,152	1	177	20.2	563

Yreka Property - 1998 Rock Sample Descriptions

Sample	Type	Lenght (m)	Area	Description	Cu ppm	Mo ppm	Zn ppm	Ag ppm	Au ppb
1061	chip	8.3	Yreka Mine Portal	Garnet skarn with high iron oxides cont. loc. 30-40%. Cpy min avg 2-3% throughout the interval. Black to dark green col due to chlorite-phlogopite+oxide content	800	2	53	1.3	20
1062	chip	10.0	Clyde	Silicified tuff, with bleached apperance on weathered faces. Minor cpy mineralization (<1% avg) within rusty patches localized along fractures.	735	1	42	1.0	10
1063	chip	4.0	Clyde	Skarn (30%), silicified tuff (70%). Locally iron oxides up to 10% and cpy up to 7% (avg < 1% ?).	1,683	1	92	2.7	10
1064	select grab	N/A	Clyde Tunnel # 3 dump	Garnet skarn piece 8x25cm with 30% cpy. mineralization - high grade sample.	16,095 * 1.586%	4	542	30.5	161
1065	rep grab	N/A	Clyde Tunnel # 3 dump	Randomly collected small pieces.Mainly garnet skarn with <1% cpy.	13,261 * 1.277%	8	380	24.8	212
1066	chip	8.0	Clyde	Greenish flinty tuff with epidote-garnet ? alt.locally + some fracturing and iron ox. coincident with cpy min. loc. up to 15%. Avgerage cpy in 3 - 5% range.	16,641 * 1.616%	23	536	24.6	355
1067	select grab	N/A	Clyde Tunnel # 2 dump	10cm diam. piece of high-grade material with 20-30% cpy and 5% pyrr mineralization.	49,129 * 3.579%	2	726	67.2	1,050
1068	rep grab	N/A	Clyde Tunnel # 2 dump	Sparsely mineralized pieces of skarn randomly collected from waste dump.	216	8	26	0.4	19

Yreka Property - 1998 Rock Sample Descriptions

Sample	Type	Lenght (m)	Area	Description	Cu ppm	Mo ppm	Zn ppm	Ag ppm	Au ppb
1069	chip	6.0	Clyde	Garnet skarn with strong cpy mineralization loc. up to 30%. Iron oxides 10%. Pyrrothite 5%.	19,489 * 1.957%	23	682	37.7	294
1070	grab	N/A	Clyde	Altered diorite or felsite dyke. Silicified, pyritized (5-10% py). Strongly fractured hosted by skarn. Strike/dip: 5/50 West	432	3	39	0.6	6
1071	chip	1.5	Clyde	Garnet skarn with high iron ox. content (30-40%) and 4-6% cpy mineralization.	12,193	3	226	21.2	515
1072	chip	N/A grab	1750' Expl. Adit Dump	High grade cpy. mineralized piece (3 kg) from a gulley utilized in 1965-67as a mine dump.	44,652 * 14.796%	2	12,176 * 1.25%	188.3	1,870
1073	grab	N/A	Grid # 2 North	Dark grey ash tuff with 2-3 %interstial pyrite and carb. alteration	257	1	111	<0.3	23
1074	grab	N/A	Grid # 2 North	Strongly pyritized, dark andesite flow ? (20-25% py).	116	3	72	<0.3	8
1075	grab	N/A	Grid # 2 North	Altered tuff (epidote, silica, garnet ?). Pyrr (10%), py (5%) and possibly some minor cpy. Subcrop or large block in a creek.	413	1	29	0.3	3
1076	grab	N/A	Grid # 2 North	Strongly sil.-epidote altered tuff min with py (10%) + possibly minor aspy ?.	91	1	75	<0.3	3
1077	grab	N/A	Grid # 2 North	Massive pyrrothite replacing a flow ? (90% pyrrothite). Subcrop at the road cut.	2,048	<1	24	1.6	17
1078	grab	N/A	North Arm	Shear zone with strong iron oxide staining in siliceous volcanic rock. Pyrr. 10-15%, py 5-15%.	819	16	16	0.4	5

Yreka Property - 1998 Rock Sample Descriptions

Sample	Type	Lenght (m)	Area	Description	Cu ppm	Mo ppm	Zn ppm	Ag ppm	Au ppb
1079	grab	N/A	North Arm	Massive silicified and chloritized volc. flow ? with 25% sulphides incl.cpy 4-6% pyrr, py. Iron ox. on fractures.	35,420 * 3.321%	11	1,759	68.8	155
1080	chip	3.4	North Arm	Massive silicified, chloritized volc. flow ? strongly fractured and loc iron ox stained. Low grade cpy. mineralization near fractures filled with iron-ox. Fractures: strike/dip - 8/90	11,095	8	381	46.2	98
1081	grab	N/A	Comstock	Massive, black-greenish weathering pyrite intermixed with cherty, bleached tuff ?. Black, fine, massive pyrite 30 - 50%, sphalerite ? and iron ox. 8 %.	1,730	1	694	1.9	13
1082	float	N/A	Comstock	Semi-massive sphalerite (25%) with cpy 2-3% in a coarse quartz, epidote, chlorite aggregate.	10,648	1	45,317 * 4.53%	18.3	42
1083	float	N/A	Comstock	Quartz-sulphide boulder with 30% py, 8% sphalerite, and 2% cpy. Quartz is white to greenish, opaque, med. to fine grained, with pitted texture due to ox of sulphides. Iron ox content 5-8%.	1,623	3	1,338	5.4	22

* Check Assay %, See Appendix III for Procedures

APPENDIX II

1998 ASSAY CERTIFICATES

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(640)253-3158 FAX(604)253-1716

GEOCHEMICAL ANALYSIS CERTIFICATE

Fitch, Bernard File # 9800849

102 - 420 - 7th St., New Westminster BC V3M 3L1 Submitted by: BERNARD FITCH

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppm	Au** oz/t
1001	2	609	8	74	.9	12	6	337	1.03	<2	<8	<2	<2	134	.2	<3	<3	16	1.23	.045	1	17	.12	44	.14	3	1.13	.22	.04	<2	<5	1	<.001
1002	5	665	9	56012	1.5	15	39	2742	10.19	3	<8	<2	<2	54	383.1	<3	<3	86	2.36	.063	1	41	1.83	17	.06	<3	2.64	.07	.09	<2	<5	<1	<.001
1003	5	2604	5	34141	5.6	19	50	1213	12.53	2	<8	<2	<2	28	246.0	<3	<3	44	1.14	.033	1	27	.45	19	.04	<3	1.20	.04	.08	3	<5	<1	<.001
RE 1003	5	2572	4	33818	5.5	19	50	1198	12.42	<2	<8	<2	<2	27	245.9	<3	<3	43	1.13	.032	<1	28	.45	19	.04	<3	1.19	.03	.08	4	<5	<1	<.001
1004	2	1912	<3	392	9.0	12	15	578	5.96	<2	<8	<2	<2	158	1.5	<3	8	74	6.50	.050	<1	51	.86	25	.10	<3	2.62	.27	.03	<2	<5	<1	<.001
1005	5	965	<3	9426	1.1	18	18	557	7.62	<2	<8	<2	<2	192	61.3	<3	3	71	2.86	.064	2	22	.71	39	.13	<3	3.24	.56	.02	25	<5	<1	<.001
1006	2	167	<3	758	.3	16	15	339	5.68	<2	<8	<2	<2	146	3.4	<3	<3	151	2.58	.097	3	40	1.04	58	.13	<3	3.72	.62	.14	<2	<5	<1	<.001
1007	2	1368	11	134	.5	6	53	618	9.06	16	<8	<2	<2	55	<.2	<3	<3	29	1.60	.037	1	16	.12	31	.07	<3	.81	.03	.10	5	<5	<1	<.001
1008	2	1928	<3	142	2.9	16	33	703	4.00	<2	<8	<2	<2	205	.6	<3	3	16	6.57	.096	1	10	.26	17	.05	<3	2.43	.26	.02	<2	<5	<1	<.001
1009	1	10609	<3	341	15.0	67	45	753	6.94	8	<8	<2	2	24	1.4	<3	5	14	8.05	<.001	1	16	.13	6	.03	<3	.89	.01	.01	7	<5	<1	.009
1010	1	8207	3	272	16.2	8	26	448	4.50	13	<8	<2	3	112	1.1	<3	4	34	9.80	.037	2	7	.25	15	.19	<3	.71	.01	.09	<2	<5	<1	.006
1011	3	15074	<3	481	22.5	108	62	862	7.53	13	<8	<2	2	22	2.2	<3	8	20	8.08	<.001	<1	16	.20	5	.05	<3	1.03	<.01	<.01	<2	<5	<1	.014
1012	5	797	<3	52934	1.2	11	42	1201	8.07	<2	<8	<2	<2	100	370.0	<3	<3	33	2.90	.040	<1	24	.26	10	.04	<3	1.99	.11	.03	5	<5	<1	<.001
1013	4	824	<3	10870	1.2	16	21	1391	7.15	2	<8	<2	<2	226	70.8	<3	3	99	3.77	.063	1	26	.98	27	.10	<3	4.19	.40	.12	<2	<5	<1	<.001
1014	4	2482	33	4108	6.6	17	23	709	9.77	11	<8	<2	<2	49	25.8	<3	<3	28	4.89	.023	1	20	.25	25	.02	<3	.73	.03	.08	2	<5	<1	<.001
1015	5	302	27	1173	.8	19	6	598	2.48	4	<8	<2	<2	101	5.9	<3	<3	34	6.61	.040	1	26	.29	25	.03	<3	1.20	.10	.07	<2	<5	<1	.002
1016	5	1797	25	17039	4.2	13	11	944	7.19	2	<8	<2	<2	73	113.8	<3	<3	45	3.12	.024	1	27	.45	19	.03	<3	1.57	.17	.05	<2	<5	<1	<.001
1017	4	103	3	329	.3	16	7	501	1.75	<2	<8	<2	<2	85	2.7	<3	<3	58	.81	.042	4	21	.66	27	.05	<3	1.77	.17	.10	<2	<5	<1	<.001
1018	1	366	<3	286	.5	11	16	576	4.02	4	<8	<2	2	117	1.4	<3	<3	17	7.23	.081	1	7	.17	13	.06	<3	.86	.10	.06	2	<5	1	<.001
1019	4	1299	<3	11051	1.7	16	16	403	6.96	<2	<8	<2	<2	115	80.1	<3	<3	15	2.16	.051	<1	13	.16	13	.06	<3	1.12	.16	.01	5	<5	<1	<.001
1020	2	671	<3	608	.9	114	42	245	6.53	<2	<8	<2	<2	271	2.8	<3	<3	13	2.30	.054	<1	33	.19	16	.09	<3	2.48	.21	.01	<2	<5	<1	<.001
1021	48	1929	<3	56	2.4	17	18	32	2.14	2	<8	<2	<2	13	.3	<3	<3	52	.25	.060	2	13	.04	39	.17	<3	.27	.04	.07	<2	<5	<1	.001
1022	5	902	7	15656	4.4	135	62	1861	13.42	10	<8	<2	<2	5	98.7	<3	7	240	.07	.063	4	622	3.08	26	.01	<3	3.50	.02	.07	2	<5	<1	.002
1023	1	256	4	85	.7	204	31	254	3.89	<2	<8	<2	<2	157	.2	<3	<3	69	2.29	.055	1	308	2.65	113	.10	3	2.79	.26	.75	<2	<5	<1	<.001
1024	59	4164	<3	243	7.6	23	26	63	3.15	<2	<8	<2	<2	304	.7	<3	5	29	2.87	.047	2	11	.06	27	.14	<3	4.21	.82	.02	<2	<5	1	<.001
1025	4958	2359	<3	98	2.8	17	31	58	4.79	2	<8	<2	<2	19	.7	<3	3	24	.26	.043	<1	8	.04	54	.06	<3	.20	.04	.09	<2	<5	2	<.001
1026	741	2033	<3	105	3.1	15	26	120	4.64	<2	<8	<2	<2	148	.2	<3	<3	35	1.26	.082	3	11	.08	39	.13	<3	1.78	.31	.06	3	<5	<1	<.001
STANDARD C3/AU-1	25	62	34	173	5.1	35	12	749	3.22	55	23	5	17	29	23.1	19	20	80	.56	.088	17	166	.59	146	.10	21	1.77	.04	.15	24	<5	1	.095
STANDARD G-2	1	6	<3	51	<.3	7	4	486	1.88	<2	<8	<2	3	66	<.2	<3	<3	38	.60	.092	7	70	.55	212	.12	<3	.85	.07	.44	2	<5	<1	<.001

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
- SAMPLE TYPE: ROCK AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: MAR 16 1998 DATE REPORT MAILED: March 20/98 SIGNED BY C. Leong D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA ____

[redacted]CME[redacted]LYT[redacted]L LA[redacted]ATO[redacted] LT[redacted] [redacted]E. [redacted]TIN[redacted]T. [redacted]OUV[redacted]BC [redacted] 1R[redacted] P[redacted](64[redacted]53-[redacted] FA[redacted]4)2[redacted]71[redacted]

GEOCHEMICAL ANALYSIS CERTIFICATE

Fitch, Bernard PROJECT YREKA File # 9800896

102 - 420 - 7th St., New Westminster BC V3M 3L1

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
1027	443	1075	9	31	1.3	35	29	103	4.58	8	12	<2	<2	157	.7	<3	4	34	1.38	.084	29	34	.07	17	.13	<3	1.81	.27	.03	<2	23
1028	3	59	39	112	.7	22	16	129	3.66	<2	<8	<2	<2	85	1.3	<3	<3	59	1.15	.064	6	19	.96	55	.21	<3	2.12	.39	.15	<2	1
1029	34	266	4	20	.3	3	<1	12	22.17	<2	<8	<2	3	5	.4	<3	9	222	.01	.083	1	10	.15	94	.17	6	.29	.01	.05	<2	2
1030	2	1257	4	49	1.6	19	75	749	12.72	<2	<8	<2	2	269	1.4	<3	<3	64	2.89	.072	2	30	.43	24	.09	<3	2.23	.28	.04	2	4
1031	<1	9406	12	949	30.7	36	63	607	11.00	2	<8	<2	2	167	9.2	<3	12	105	6.52	.051	2	33	.65	27	.10	<3	3.10	.55	.06	<2	63
1032	<1	8892	5	527	17.2	21	41	632	5.47	4	<8	<2	2	292	5.7	<3	<3	73	7.24	.065	2	11	.44	46	.15	<3	5.57	1.15	.06	<2	81
1033	3	1349	7	136	2.5	18	15	628	3.29	5	<8	<2	<2	337	1.4	3	<3	60	6.26	.095	3	12	.47	33	.12	3	5.53	1.14	.04	2	9
1034	10	1645	6	125	3.2	14	18	508	4.41	<2	<8	<2	<2	282	2.1	<3	<3	77	4.40	.112	3	20	.65	40	.15	3	5.77	1.14	.04	2	31
1035	2	10266	8	597	25.0	19	29	449	6.95	<2	<8	<2	<2	372	5.9	<3	7	121	6.93	.073	3	39	.67	38	.14	<3	5.99	1.20	.05	<2	238
1036	1	23717	4	1240	63.3	24	48	394	10.98	<2	<8	<2	2	175	12.7	<3	9	139	2.51	.084	2	35	1.07	29	.11	<3	4.03	.65	.07	<2	249
1037	1	12473	9	7935	48.6	53	70	416	11.90	<2	<8	<2	<2	119	56.8	<3	27	110	1.61	.055	3	28	.88	31	.06	<3	3.52	.46	.09	<2	82
1038	3	621	<3	53	1.2	15	11	750	2.51	<2	<8	<2	<2	423	.7	<3	5	70	4.93	.110	3	21	.56	40	.24	<3	7.18	1.41	.05	3	10
1039	1	686	17	124	1.2	15	18	568	3.75	<2	<8	<2	<2	358	1.2	<3	<3	91	3.57	.076	3	15	.91	89	.25	<3	5.50	1.24	.20	3	7
RE 1039	<1	673	9	120	1.1	16	17	549	3.64	<2	<8	<2	<2	351	1.1	<3	<3	88	3.48	.074	3	13	.88	93	.24	<3	5.17	1.19	.19	<2	6
1040	2	664	8	44	1.2	19	19	540	3.38	2	<8	<2	<2	327	1.3	<3	<3	82	3.64	.101	3	14	.64	61	.26	5	5.07	1.16	.16	3	4
1041	1	669	3	50	1.1	18	20	461	3.73	2	<8	<2	<2	351	1.3	<3	<3	86	4.02	.077	3	23	.78	75	.24	4	4.85	1.04	.18	4	5
1042	2	3496	8	134	5.8	16	28	842	6.35	<2	<8	<2	<2	285	1.8	<3	3	79	4.81	.067	3	17	.93	33	.16	<3	5.23	1.08	.03	<2	15
1043	2	2461	10	77646	2.6	10	64	1061	20.16	3	<8	<2	2	22	628.4	<3	8	82	.73	.034	2	10	1.30	2	.07	<3	2.05	.06	.04	<2	13
1044	1	458	5	531	1.3	28	47	428	5.28	236	<8	<2	<2	5	2.9	<3	<3	70	.15	.019	1	47	1.17	22	.01	<3	1.35	.01	.12	2	19
1045	<1	190	12	290	.6	48	25	1025	6.77	83	<8	<2	<2	33	3.1	<3	9	181	3.67	.039	2	148	4.06	14	.01	<3	3.63	.04	.07	<2	3
STANDARD C3/AU-R	27	67	37	171	5.3	40	12	785	3.33	54	19	4	19	31	23.5	19	22	82	.59	.088	19	172	.59	155	.10	22	1.93	.04	.17	19	497
STANDARD G-2	2	6	<3	45	<.3	9	5	560	2.10	5	<8	<2	4	78	.2	<3	3	43	.72	.098	9	81	.61	231	.14	<3	1.02	.08	.49	3	<1

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
- SAMPLE TYPE: ROCK AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.(10 GM)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: MAR 20 1998 **DATE REPORT MAILED:** March 27/98 **SIGNED BY** C.L..........D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Fitch, Bernard File # 9800849R
102 - 420 - 7th St., New Westminster BC V3M 3L1

SAMPLE#	Au* ppb	Cu %	Zn %
1001	19	-	-
1002	2	-	6.41
1003	5	-	3.77
RE 1003	6	-	3.83
1004	33	-	-
1005	3	-	1.05
1006	2	-	-
1007	9	-	-
1008	16	-	-
1009	242	1.279	-
1010	331	.985	-
1011	302	1.808	-
1012	11	-	6.03
1013	5	-	1.22
1014	6	-	.50
1015	2	-	-
1016	4	-	2.11
1017	3	-	-
1018	2	-	-
1019	4	-	1.35
1020	3	-	-
1021	14	-	-
1022	49	-	1.87
1023	1	-	-
1024	29	.458	-
1025	3	-	-
1026	6	-	-
STANDARD AU-R/GC-2	484	.933	16.70

CU & ZN BY REGULAR ASSAY ICP.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK PULP
AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.(10 GM)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: APR 13 1998 **DATE REPORT MAILED:** Apr/20/98 **SIGNED BY**.......... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

 Data d FA ____

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

ASSAY CERTIFICATE

Fitch, Bernard PROJECT YREKA File # 9800896R

102 - 420 - 7th St., New Westminster BC V3M 3L1

SAMPLE#	CU %	Zn %
1031	.920	-
1032	.883	-
1035	.996	-
1036	2.309	-
1037	1.197	.79
RE 1037	1.201	.79
1042	.343	-
1043	-	7.19
STANDARD R-1	.843	2.27

1.000 GM SAMPLE DIGESTED IN 30 ML AQUA - REGIA, DILUTE TO 100 ML, ANALYSIS BY ICP.
- SAMPLE TYPE: ROCK PULP

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: APR 14 1998 **DATE REPORT MAILED:** April/16/98 **SIGNED BY** C. Leong ..D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data ___ FA ___

GEOCHEMICAL ANALYSIS CERTIFICATE

Fitch, Bernard File # 9801725 Page 1
402 - 420 - 7th St., New Westminster BC V3M 3L1 Submitted by: Bernard Fitch

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
1046	96	154	6	24	<.3	6	5	986	6.62	7	<8	<2	<2	12	.8	<3	<3	16	10.10	.031	1	13	.05	4	.03	11	1.06	.01	.01	13	50
1047	15	20886	<3	614	31.7	119	79	723	12.00	27	<8	<2	<2	22	4.3	<3	78	8	12.27	.005	1	10	.04	2	.01	59	.51	.01	<.01	42	914
1048	8	2325	3	78	9.0	15	10	651	11.37	16	<8	<2	<2	55	.4	3	15	13	10.65	.025	4	10	.06	8	.04	<3	1.10	.03	.02	66	62
1049	28	2085	4	54	4.5	11	10	755	10.53	17	<8	<2	<2	7	.5	<3	21	10	9.81	.027	6	12	.05	6	.02	<3	.68	<.01	.01	62	458
1050	2	178	<3	19	.3	5	5	798	9.96	10	<8	<2	<2	6	.9	<3	12	13	10.79	.022	3	19	.05	7	.02	<3	.91	<.01	.02	15	85
1051	5	1053	<3	55	.9	80	125	124	7.21	17	<8	<2	<2	277	<.2	<3	<3	15	1.36	.059	2	17	.09	36	.08	<3	1.47	.26	.08	<2	30
1052	1	13652	4	564	24.2	322	57	279	3.75	2	<8	<2	<2	384	3.1	<3	13	37	3.44	.087	<1	55	.56	8	.20	<3	4.41	.11	.02	<2	70
1053	6	13614	<3	351	49.7	28	22	283	12.28	29	<8	<2	<2	31	<.2	5	41	31	1.07	.039	<1	31	.05	10	.09	<3	.58	.01	.02	471	428
1054	2	522	6	18	.4	17	44	56	4.53	3	<8	<2	<2	72	<.2	<3	<3	17	.72	.069	4	7	.23	23	.07	<3	1.16	.15	.05	3	11
1055	1	18453	4	449	28.6	276	109	195	3.89	6	<8	<2	<2	316	2.4	<3	16	32	3.09	.078	<1	43	.16	4	.14	<3	3.26	.14	.01	<2	400
RE 1055	1	18086	<3	441	27.9	272	108	190	3.80	4	<8	<2	<2	314	2.3	<3	16	31	3.01	.076	<1	42	.16	4	.13	<3	3.23	.14	.01	<2	206
1056	3	3411	4	395	4.6	23	14	728	1.25	5	<8	<2	<2	141	2.5	<3	4	15	7.54	.043	1	6	.20	30	.10	<3	1.07	.09	.11	<2	68
1057	2	182	<3	64	<.3	11	9	955	8.65	12	<8	<2	<2	8	.7	<3	3	23	8.03	.042	3	15	.11	9	.04	<3	.99	.01	.02	14	142
1058	1	3085	<3	114	4.6	37	14	424	1.86	<2	<8	<2	<2	166	.4	<3	<3	38	1.72	.081	1	33	.35	16	.22	<3	1.39	.27	.01	<2	112
1059	1	2383	<3	73	7.6	10	8	875	10.07	9	<8	<2	<2	13	1.0	<3	3	44	10.90	.019	<1	13	.15	5	.02	<3	.93	<.01	.02	8	31
1060	1	7152	<3	177	20.2	15	24	763	9.70	9	<8	<2	<2	16	1.2	<3	18	17	9.83	.021	<1	18	.12	4	.03	<3	.95	<.01	.02	9	563
1061	2	800	<3	53	1.3	25	14	862	8.50	5	<8	<2	<2	6	1.0	<3	<3	25	9.16	.035	<1	23	.16	5	.05	<3	1.34	<.01	.02	5	20
1062	1	735	3	42	1.0	72	10	261	1.00	26	<8	<2	<2	283	<.2	<3	<3	32	2.80	.066	<1	44	.34	9	.18	<3	2.98	.08	.01	<2	10
1063	1	1683	6	92	2.7	121	15	328	1.31	8	<8	<2	<2	431	<.2	<3	<3	59	4.21	.072	<1	64	.53	18	.22	<3	4.58	.12	.03	<2	10
1064	4	16095	<3	542	30.5	118	57	883	11.95	11	<8	<2	<2	11	3.5	<3	11	14	10.50	.021	1	24	.11	6	.03	<3	1.10	<.01	.03	4	161
1065	8	13261	<3	380	24.8	77	41	917	11.63	14	<8	<2	<2	14	2.6	<3	13	18	11.62	.012	1	20	.08	6	.04	<3	1.18	<.01	.02	8	212
1066	23	16641	<3	536	24.6	49	45	499	4.75	8	<8	<2	<2	292	2.7	<3	16	29	3.73	.029	1	35	.46	13	.13	<3	3.15	.20	.21	<2	355
1067	2	49129	18	726	67.2	454	87	582	12.97	11	<8	<2	<2	5	2.0	5	67	23	7.00	<.001	<1	40	.17	2	.04	<3	1.10	<.01	.01	12	1050
1068	8	216	<3	26	.4	5	4	956	9.22	16	<8	<2	<2	23	1.3	<3	<3	20	13.17	.024	<1	16	.11	3	.04	<3	1.25	.01	.02	6	19
1069	23	19489	<3	682	35.7	372	69	975	10.48	8	<8	<2	<2	21	3.6	<3	17	28	7.62	.052	1	26	.12	6	.06	<3	1.19	.01	.02	<2	294
1070	3	432	<3	39	.6	11	23	133	1.50	2	<8	<2	<2	25	.2	<3	<3	14	.40	.062	6	13	.26	39	.09	<3	.38	.09	.11	5	6
1071	3	12193	<3	226	21.2	52	27	970	10.52	7	<8	<2	<2	4	1.8	<3	9	26	9.99	.028	1	27	.06	2	.04	<3	.92	<.01	.03	<2	515
1072	2	44652	44	12176	188.3	390	591	353	39.49	76	<8	11	2	4	85.9	35	<3	<1	.04	.144	2	14	.01	2	<.01	8	.03	<.01	.01	<2	1870
1073	1	257	<3	111	<.3	51	30	700	6.38	15	<8	<2	<2	76	.6	<3	<3	203	3.41	.077	2	138	3.02	23	.24	<3	3.39	.06	.05	<2	23
1074	3	116	11	72	<.3	8	22	578	7.41	<2	<8	<2	<2	106	.6	<3	<3	51	.93	.104	2	7	2.44	65	.11	<3	3.71	.20	.17	<2	8
1075	1	413	7	29	.3	142	63	86	4.49	<2	<8	<2	<2	699	<.2	<3	<3	28	5.25	.086	<1	55	.38	18	.21	<3	6.85	.61	.04	<2	3
1076	1	91	5	75	<.3	21	28	654	5.22	7	<8	<2	<2	118	.3	<3	<3	165	1.03	.070	1	28	2.16	38	.30	<3	2.97	.21	.16	<2	3
1077	<1	2048	13	24	1.6	10	97	60	31.22	<2	<8	<2	<2	305	<.2	<3	5	8	1.26	.026	<1	8	.07	8	.03	<3	2.24	.41	.01	<2	17
1078	16	819	<3	16	.4	16	44	58	5.59	12	<8	<2	<2	88	<.2	<3	<3	44	.64	.031	1	11	.47	12	.12	<3	1.53	.26	.04	<2	5
STANDARD C3/AU-R	25	62	35	162	5.0	34	12	752	3.22	60	21	4	21	29	24.1	20	23	76	.53	.088	16	158	.57	150	.08	20	1.82	.04	.15	18	487
STANDARD G-2	2	4	<3	43	<.3	8	5	531	2.07	<2	<8	<2	3	75	<.2	<3	<3	40	.62	.099	6	74	.60	240	.12	<3	.97	.08	.50	2	2

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.(10 GM)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: MAY 15 1998 **DATE REPORT MAILED:** May 26/98 **SIGNED BY**..........D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data ___ FA ____

ACME ANALYTICAL

Fitch, Bernard FILE # 9801725

ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
1079	11	35420	10	1759	68.8	11	66	100	6.45	5	<8	<2	<2	259	11.8	<3	42	10	2.08	<.001	<1	3	.37	8	.05	<3	3.50	.14	.03	3	155
1080	8	11095	5	381	46.2	2	13	125	4.77	<2	<8	<2	<2	208	3.2	<3	13	19	1.54	.025	1	2	.69	11	.05	<3	2.79	.12	.03	<2	98
1081	1	1730	7	694	1.9	10	62	181	4.48	11	<8	<2	<2	27	3.4	<3	75	19	1.30	.022	1	6	1.20	15	.03	<3	1.14	.01	.04	<2	13
1082	1	10648	18	45317	18.3	3	371	851	19.66	25	<8	<2	<2	7	299.4	<3	102	25	.40	.039	<1	21	.59	5	.02	<3	.70	<.01	.03	<2	42
1083	3	1623	13	1338	5.4	8	54	279	4.34	13	<8	<2	<2	9	10.4	<3	245	25	.32	.037	2	13	.45	3	.02	<3	.50	<.01	.03	2	22
RE 1083	3	1555	12	1258	4.3	7	52	267	4.18	11	<8	<2	<2	9	9.6	<3	229	25	.31	.036	1	13	.44	3	.02	<3	.49	<.01	.03	2	23

Sample type: ROCK. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(640)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Fitch, Bernard File # 9801725R
402 - 420 - 7th St., New Westminster BC V3M 3L1

SAMPLE#	CU %	Zn %	AG oz/t
1047	2.063	-	.99
1052	1.417	-	-
1053	1.365	-	1.56
1055	1.807	-	.89
1064	1.586	-	.87
1065	1.277	-	-
1066	1.616	-	-
1067	3.579	-	1.98
1069	1.957	-	1.06
1072	14.848	1.25	6.26
RE 1072	14.796	1.25	6.22
1079	3.321	-	2.30
1080	-	-	1.40
1082	-	4.53	-
STANDARD R-1	.840	2.24	2.95

1.000 GM SAMPLE DIGESTED IN 30 ML AQUA - REGIA, DILUTE TO 100 ML, ANALYSIS BY ICP.
- SAMPLE TYPE: ROCK PULP

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: MAY 27 1998 DATE REPORT MAILED: June 1/98 SIGNED BY.......... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data FA

ACME ANALYTICAL LABORATORIES LTD [redacted] 852 E. [redacted] HASTINGS ST. VANCOUVER BC [redacted] V6A 1R6 [redacted] PHONE(604)253-3[redacted] FAX(604)2[redacted]716 [redacted]

GEOCHEMICAL ANALYSIS CERTIFICATE

CLARENCE

Fitch, Bernard PROJECT YREKA File # 9800896A Page 1

102 - 420 - 7th St., New Westminster BC V3M 3L1

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
1+00N BL	2	106	4	123	.3	29	12	328	6.19	9	<8	<2	3	6	<.2	<3	<3	126	.08	.067	4	98	.92	23	.28	<3	8.52	.01	.04	<2	3
1+00N 0+25E (B)	2	69	3	115	.3	24	21	581	7.57	13	<8	<2	3	6	<.2	<3	<3	157	.08	.147	8	99	.59	19	.34	<3	9.83	.01	.03	<2	1
1+00N 0+50E (B)	2	55	12	96	.4	20	14	489	6.10	8	<8	<2	<2	7	<.2	<3	<3	175	.09	.116	5	68	.60	22	.30	<3	5.33	.01	.03	<2	1
1+00N 0+75E (B)	3	66	58	177	.6	32	25	1268	6.36	<2	<8	<2	2	3	<.2	<3	<3	204	.05	.081	8	122	.66	14	.17	<3	4.37	.01	.03	<2	5
1+00N 1+00E (B)	3	58	13	115	.8	37	26	878	7.01	<2	<8	<2	<2	4	.4	<3	<3	300	.13	.071	7	169	.97	12	.42	<3	4.76	.03	.03	<2	<1
1+00N 1+25E (B)	3	43	43	53	<.3	17	14	658	6.52	12	<8	<2	2	8	.3	<3	<3	263	.09	.049	2	92	.39	19	.38	<3	2.34	.01	.02	<2	2
1+00N 1+50E (B)	1	50	22	105	.3	40	26	905	8.01	12	<8	<2	2	11	<.2	<3	<3	198	.10	.080	1	134	1.17	16	.34	<3	6.22	.01	.03	<2	1
1+00N 1+75E (B)	2	57	9	135	<.3	23	26	629	6.98	106	<8	<2	2	8	<.2	<3	<3	203	.07	.087	7	104	.36	17	.28	<3	6.04	.01	.02	<2	1
1+00N 2+00E (B)	2	63	5	78	<.3	32	38	1465	10.76	133	<8	<2	2	20	<.2	<3	<3	277	.16	.090	2	248	.35	11	.38	<3	5.20	.01	.01	<2	<1
0+00S 0+75W (B)	2	363	4	700	.9	43	24	380	5.99	7	<8	<2	<2	33	2.6	<3	<3	98	.35	.036	7	53	.44	27	.21	<3	6.96	.05	.03	<2	3
0+00S 0+50W (B)	2	394	9	879	1.8	17	14	406	7.70	2	<8	<2	<2	15	.8	<3	6	140	.12	.044	2	71	.53	17	.33	<3	7.42	.02	.02	<2	3
0+00S 0+25W (B)	3	196	6	1268	.4	25	42	1603	5.82	2	<8	<2	<2	30	4.9	<3	<3	117	.66	.065	3	65	.50	28	.23	<3	6.21	.03	.02	2	3
0+00S 0+00 (B)	1	118	13	321	<.3	16	9	439	4.46	<2	<8	<2	<2	23	.4	<3	<3	93	.18	.074	3	66	.47	15	.14	<3	4.59	.05	.02	<2	2
RE 0+00S 0+00 (B)	1	112	8	304	<.3	15	9	415	4.22	<2	<8	<2	<2	21	.3	<3	<3	87	.17	.071	3	63	.45	14	.13	<3	4.34	.05	.02	<2	4
0+00S 0+25E (B)	2	80	13	518	.5	19	23	2587	5.98	132	<8	<2	2	12	3.4	<3	<3	113	.13	.116	2	94	.44	21	.20	<3	4.77	.01	.03	<2	6
0+00S 0+50E (B)	4	106	19	227	.7	22	30	1774	5.85	197	<8	<2	<2	68	1.4	<3	<3	123	.17	.139	14	40	.37	41	.09	<3	6.82	.02	.02	<2	5
0+00S 0+75E (B)	2	37	5	66	<.3	15	13	818	6.99	12	<8	<2	<2	23	<.2	<3	<3	205	.14	.070	4	48	.45	20	.35	<3	4.67	.02	.03	<2	10
0+00S 1+00E (B)	2	42	7	58	.3	11	26	1350	6.76	<2	<8	<2	<2	9	<.2	<3	<3	173	.12	.099	4	44	.30	15	.26	<3	6.87	.02	.05	<2	2
0+00S 1+25E (B)	3	44	13	85	<.3	13	25	2527	7.23	19	<8	<2	2	10	<.2	<3	<3	215	.12	.086	8	40	.71	27	.34	<3	5.53	.02	.04	<2	2
0+00S 1+50E (B)	3	37	5	106	<.3	20	26	1574	6.35	39	<8	<2	<2	29	1.1	<3	<3	171	.62	.073	7	38	.55	40	.31	<3	5.53	.02	.02	<2	1
0+00S 1+75E (B)	2	55	35	93	<.3	15	55	3656	7.47	128	<8	<2	3	18	.4	<3	<3	241	.17	.067	3	50	.84	23	.36	<3	3.06	.01	.04	<2	3
0+00S 2+00E (B)	2	48	6	51	<.3	15	16	496	6.93	16	<8	<2	<2	12	<.2	<3	<3	235	.11	.059	9	57	.43	19	.32	<3	4.47	.01	.02	<2	3
1+00S 1+50W (B)	3	144	8	32	.4	5	6	124	5.18	<2	<8	<2	<2	52	<.2	<3	<3	143	.35	.025	1	11	.16	16	.23	<3	1.28	.02	.03	<2	15
1+00S 1+25W (B)	2	379	4	110	.8	20	17	212	8.17	7	<8	<2	<2	20	<.2	<3	<3	124	.16	.059	3	110	.25	37	.28	<3	7.25	.01	.02	<2	9
1+00S 1+00W (B)	4	263	<3	56	.3	15	22	225	7.09	<2	<8	<2	<2	14	<.2	<3	<3	74	.11	.063	4	95	.22	15	.16	<3	9.19	.01	.02	<2	15
1+00S 0+75W clay	3	60	12	25	<.3	10	6	167	5.96	<2	<8	<2	<2	14	<.2	<3	3	273	.15	.020	1	15	.18	15	.53	<3	1.11	.01	.03	<2	29
1+00S 0+50W (B)	3	445	5	64	2.5	9	8	164	6.71	<2	<8	<2	<2	32	<.2	<3	3	173	.18	.033	1	21	.27	15	.36	<3	2.70	.02	.02	3	17
1+00S 0+25W (B)	2	624	7	151	1.2	11	23	716	4.97	<2	<8	<2	<2	20	.2	<3	<3	74	.19	.104	2	16	.19	19	.13	<3	6.50	.02	.01	<2	5
1+00S BL (B)	2	195	10	894	1.0	25	17	685	6.07	351	<8	<2	<2	46	9.4	<3	<3	126	.96	.080	4	61	.56	26	.34	<3	5.88	.02	.02	<2	3
1+00S 0+25E (B)	2	31	8	167	.7	11	5	223	4.28	31	<8	<2	<2	33	.6	<3	<3	148	.53	.044	2	27	.23	28	.30	<3	1.26	.02	.02	<2	1
1+00S 0+50E (B)	2	48	4	127	<.3	19	18	1258	5.68	2	<8	<2	2	15	<.2	<3	<3	148	.27	.082	5	45	.63	24	.30	<3	6.17	.02	.03	<2	1
1+00S 0+75E (B)	1	34	7	70	<.3	13	12	381	7.24	6	<8	<2	<2	9	.2	<3	<3	204	.13	.048	7	36	.34	20	.38	<3	4.67	.01	.01	<2	2
1+00S 1+00E (B)	2	65	5	309	.5	12	12	395	5.15	42	<8	<2	<2	16	.2	<3	3	130	.23	.051	7	41	.31	23	.24	<3	5.07	.02	.02	<2	2
1+00S 1+25E (B)	2	44	8	131	<.3	22	21	692	6.12	8	<8	<2	<2	15	<.2	<3	<3	152	.15	.071	4	58	.67	36	.28	<3	6.56	.01	.02	<2	2
STANDARD C3/AU-S	24	61	39	172	5.3	35	12	732	3.19	51	19	<2	16	29	23.4	14	21	78	.54	.085	17	152	.57	147	.09	19	1.77	.04	.16	23	48
STANDARD G-2	1	3	3	51	<.3	8	4	514	2.04	<2	<8	<2	3	73	<.2	<3	<3	40	.65	.097	7	71	.59	223	.13	<3	.91	.08	.46	3	<1

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
- SAMPLE TYPE: SOIL AU* - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.(10 GM)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: MAR 20 1998 **DATE REPORT MAILED:** March 26/98 **SIGNED BY**......D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

 Data ___ FA ____

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
1+00S 1+50E (B)	1	41	32	189	.3	18	24	1276	4.96	19	<8	<2	<2	15	.7	<3	<3	123	.15	.076	5	35	.54	27	.15	<3	5.21	.02	.04	<2	2
1+00S 1+75E (B)	1	43	6	90	<.3	11	16	678	5.84	4	<8	<2	<2	8	<.2	<3	<3	107	.07	.077	4	25	.51	22	.13	<3	7.20	.01	.02	<2	3
RE 1+00S 1+75E (B)	1	45	5	92	<.3	11	16	709	6.02	7	<8	<2	<2	8	<.2	<3	<3	111	.07	.080	4	27	.51	23	.14	<3	7.45	.01	.02	<2	2
1+00S 2+00E (B)	3	22	9	35	<.3	9	7	267	7.69	12	<8	<2	<2	7	<.2	<3	<3	250	.07	.044	2	45	.46	13	.33	<3	3.73	.01	.02	<2	1
2+00S 2+00W (A+T)	<1	14	<3	29	<.3	36	8	185	2.13	<2	<8	<2	<2	13	<.2	<3	<3	92	.35	.030	<1	111	1.09	21	.17	<3	1.26	.05	.09	<2	1
2+00S 1+75W (B)	1	82	<3	44	.3	30	10	103	2.58	<2	<8	<2	<2	7	.2	<3	<3	52	.09	.083	7	118	.35	15	.11	3	7.98	.01	.02	<2	<1
2+00S 1+50W (B)	1	39	7	78	<.3	107	22	356	6.87	<2	<8	<2	<2	13	<.2	<3	<3	222	.35	.022	<1	232	2.55	18	.35	<3	4.11	.05	.05	<2	<1
2+00S 1+25W (B)	1	32	16	28	<.3	20	5	142	7.95	<2	<8	<2	<2	7	<.2	<3	<3	319	.17	.036	<1	193	.42	7	.60	<3	1.96	.01	.01	<2	1
2+00S 1+00W (B)	1	34	4	55	<.3	24	7	165	9.39	8	<8	<2	<2	8	<.2	<3	<3	262	.16	.051	<1	216	.54	10	.50	<3	3.98	.02	.02	<2	2
2+00S 0+75W (B)	1	36	11	19	<.3	7	2	104	2.27	<2	<8	<2	<2	32	<.2	<3	<3	116	.19	.021	2	15	.37	12	.38	<3	1.13	.02	.02	<2	<1
2+00S 0+50W (B)	4	867	3	123	3.1	26	87	1827	8.10	<2	<8	<2	2	52	<.2	<3	4	65	.27	.091	2	24	.22	41	.11	<3	6.27	.03	.02	<2	6
2+00S 0+25W (B)	3	751	5	249	2.6	9	28	717	6.47	<2	<8	<2	<2	15	.7	<3	<3	85	.24	.068	3	20	.16	12	.20	<3	5.78	.01	.01	<2	7
2+00S BL (B)	1	97	15	987	.4	13	25	1128	4.34	8	<8	<2	<2	35	1.4	<3	<3	91	.64	.060	1	13	.35	47	.18	<3	2.82	.03	.02	<2	<1
2+00S 0+25E (B)	2	57	4	85	<.3	5	8	500	6.15	<2	<8	<2	<2	55	.3	<3	<3	199	.20	.071	1	18	1.25	187	.40	<3	2.41	.04	.34	<2	1
2+00S 0+50E (B)	2	77	<3	104	.5	6	14	371	5.67	<2	<8	<2	<2	18	<.2	<3	<3	173	.14	.066	5	23	.88	85	.39	<3	5.04	.03	.13	<2	1
2+00S 0+75E (B)	1	129	4	623	.3	16	21	1230	4.99	89	<8	<2	<2	20	1.6	<3	<3	112	.25	.072	5	41	.54	31	.20	<3	4.94	.02	.02	<2	2
2+00S 1+00E (B)	1	106	<3	342	.8	18	28	970	5.73	2	<8	<2	<2	35	.3	<3	<3	123	.80	.068	5	49	.32	41	.26	<3	5.41	.01	.01	<2	2
2+00S 1+25E (B)	2	20	14	54	<.3	7	6	260	7.92	<2	<8	<2	<2	22	<.2	<3	<3	292	.75	.044	<1	38	.13	11	.55	<3	1.39	.01	.01	<2	1
2+00S 1+50E (B)	2	25	17	59	<.3	8	8	384	10.31	<2	<8	<2	<2	10	<.2	<3	<3	278	.17	.049	2	45	.14	14	.49	<3	3.28	.01	.01	<2	2
2+00S 1+75E (B)	2	35	15	335	<.3	31	29	8796	4.43	2	<8	<2	5	38	1.4	<3	<3	125	.52	.094	4	49	.93	62	.09	<3	4.16	.04	.06	<2	11
2+00S 2+00E (B)	1	43	10	158	<.3	23	20	597	5.67	6	<8	<2	<2	20	.2	<3	<3	149	.19	.076	2	73	.95	34	.22	<3	6.65	.02	.04	<2	7
3+00S 2+00W (B)	2	282	18	92	.7	44	13	141	12.62	11	<8	<2	<2	17	<.2	<3	11	243	.10	.049	<1	220	.22	13	.42	<3	2.14	.01	.01	<2	9
3+00S 1+75W (A+B)	<1	229	<3	177	1.1	102	19	302	6.22	5	<8	<2	<2	11	<.2	<3	<3	102	.55	.024	1	372	2.22	14	.26	<3	6.25	.05	.05	<2	2
3+00S 1+50W "	2	484	<3	313	1.6	67	49	382	7.54	<2	<8	<2	<2	38	.3	<3	3	51	.29	.071	1	75	.25	22	.13	<3	8.26	.02	.02	<2	4
3+00S 1+25W "	1	388	<3	287	.6	26	45	2075	5.01	<2	<8	<2	<2	52	1.4	<3	4	35	.48	.077	3	24	.10	20	.08	<3	4.88	.04	.01	<2	2
3+00S 1+00W "	2	160	4	206	1.1	24	11	323	5.39	12	<8	<2	<2	10	<.2	<3	5	115	.09	.063	4	73	.56	19	.25	<3	6.18	.01	.01	<2	5
3+00S 0+75W "	1	589	6	556	1.2	50	54	1592	9.97	<2	<8	<2	3	15	1.1	3	<3	106	.14	.102	2	118	.12	10	.21	<3	4.69	.01	.01	4	5
3+00S 0+50W "	2	205	46	645	.4	15	21	2952	6.48	472	<8	<2	<2	19	1.6	<3	<3	118	.14	.041	3	47	.28	21	.20	<3	2.74	.01	.02	<2	63
3+00S 0+25W "	1	360	9	1330	.3	30	28	1501	6.20	46	<8	<2	2	34	1.8	<3	<3	129	.23	.068	5	62	.68	57	.33	<3	5.94	.03	.02	<2	10
3+00S BL "	2	323	6	2409	<.3	13	25	1080	5.72	354	<8	<2	<2	63	2.1	<3	5	106	.88	.050	6	40	.72	40	.19	<3	4.53	.02	.03	<2	63
3+00S 0+25E "	1	40	5	560	.3	10	30	829	5.73	56	<8	<2	<2	22	2.0	<3	<3	162	.37	.058	3	20	.59	40	.27	<3	3.30	.02	.08	<2	3
3+00S 0+50E "	1	34	8	76	<.3	5	14	422	6.27	<2	<8	<2	<2	22	.2	<3	<3	158	.21	.044	1	15	.90	73	.29	<3	2.85	.01	.14	<2	2
3+00S 0+75E "	1	93	<3	849	<.3	12	20	585	3.77	260	<8	<2	<2	20	3.6	<3	<3	95	.47	.085	5	47	.45	13	.13	<3	3.98	.02	.02	<2	2
3+00S 1+00E "	2	49	15	190	.3	16	28	559	6.44	8	<8	<2	<2	52	.2	<3	<3	122	.52	.068	4	26	.33	29	.31	<3	4.78	.02	.01	<2	2
STANDARD C3/AU-S	25	62	37	177	5.1	34	12	730	3.18	50	24	2	15	29	24.0	15	22	79	.55	.084	17	158	.58	147	.10	18	1.83	.04	.16	22	43
STANDARD G-2	1	4	3	45	<.3	7	4	483	1.89	<2	<8	<2	3	70	<.2	<3	<3	38	.61	.090	7	68	.55	219	.13	<3	.90	.08	.44	2	1

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ✓ FA ____

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
3+00S 1+25E (A+B)	2	45	6	109	.7	6	5	143	6.13	3	<8	<2	<2	29	.4	<3	5	219	.91	.048	1	22	.25	23	.39	<3	2.36	.01	.02	<2	1
3+00S 1+50E "	2	21	8	54	<.3	6	7	341	5.55	13	<8	<2	<2	37	.3	<3	<3	194	1.83	.034	1	21	.15	19	.38	<3	2.15	.01	.01	<2	4
3+00S 1+75E "	2	85	9	765	<.3	12	24	745	6.42	<2	<8	<2	<2	33	1.0	<3	<3	149	.75	.053	6	31	.71	41	.28	<3	6.29	.03	.03	<2	12
3+00S 2+00E "	2	40	4	204	<.3	14	18	577	6.02	<2	<8	<2	<2	14	<.2	<3	<3	143	.24	.062	6	31	1.09	30	.25	<3	7.65	.03	.05	2	4
4+00S 1+50W "	3	171	5	269	.4	23	11	1131	3.51	<2	<8	<2	<2	39	1.7	<3	<3	43	.27	.063	4	18	.07	12	.10	<3	4.39	.03	.01	<2	1
4+00S 1+25W "	2	147	6	666	.5	23	15	4401	3.75	4	<8	<2	<2	126	5.6	<3	<3	42	1.06	.123	4	21	.20	34	.04	3	3.38	.12	.02	<2	2
4+00S 1+00W "	2	54	<3	103	.4	17	10	347	5.49	5	<8	<2	<2	11	<.2	<3	<3	128	.07	.051	5	55	.29	22	.26	<3	4.66	.01	.01	2	1
4+00S 0+75W "	3	85	8	226	<.3	12	17	1831	4.28	2	<8	<2	<2	24	1.5	<3	<3	87	.20	.048	2	31	.09	17	.18	<3	3.61	.02	.01	<2	1
4+00S 0+50W "	2	176	3	502	.6	28	19	5101	4.22	6	<8	<2	2	208	4.0	<3	3	34	2.19	.140	4	16	.17	43	.05	<3	3.29	.22	.02	<2	1
4+00S 0+25W "	3	53	5	142	.4	23	12	372	6.58	8	<8	<2	<2	10	<.2	5	<3	142	.09	.048	3	80	.48	22	.28	<3	5.77	.01	.01	<2	3
4+00S BL "	1	22	7	246	.4	15	18	744	6.06	3	<8	<2	<2	37	<.2	<3	<3	93	.23	.059	5	59	.12	57	.22	<3	6.08	.03	.01	<2	2
4+00S 0+25E "	1	147	6	438	.4	35	21	1569	4.62	<2	<8	<2	<2	40	1.0	<3	<3	91	.30	.073	4	77	.75	22	.18	<3	5.18	.06	.02	<2	2
RE 4+00S 0+25E "	1	151	7	448	.4	36	22	1615	4.69	3	<8	<2	<2	41	.9	<3	<3	93	.30	.074	4	79	.76	22	.18	<3	5.31	.06	.03	2	2
4+00S 0+50E "	3	146	14	161	.3	14	9	362	4.84	261	<8	<2	<2	22	.4	5	<3	133	.15	.073	5	90	.27	11	.24	<3	4.98	.03	.02	2	1
4+00S 0+75E "	2	27	5	68	.3	13	7	195	6.43	109	<8	<2	<2	22	<.2	3	<3	213	.43	.043	2	77	.33	25	.33	<3	3.37	.01	.02	<2	1
4+00S 1+00E "	1	23	22	214	.4	9	19	962	4.28	14	<8	<2	<2	28	.8	<3	<3	80	1.79	.063	9	37	.19	17	.18	3	3.04	.01	.02	<2	22
4+00S 1+25E "	1	214	9	2195	<.3	9	23	1292	6.32	<2	<8	<2	<2	82	5.7	<3	<3	89	.80	.094	3	18	1.08	33	.15	<3	4.37	.17	.05	<2	1
4+00S 1+50E "	1	33	3	59	<.3	9	8	500	5.88	<2	<8	<2	<2	18	<.2	<3	<3	172	.13	.067	1	41	.64	18	.30	<3	6.27	.02	.04	<2	1
4+00S 1+75E "	1	20	5	48	<.3	5	4	191	5.96	<2	<8	<2	2	5	<.2	<3	<3	147	.05	.048	2	29	.55	8	.29	<3	5.93	.01	.02	<2	1
4+00S 2+00E "	2	18	3	119	<.3	7	14	283	6.41	32	<8	<2	<2	9	<.2	4	<3	187	.08	.039	4	27	.46	22	.14	<3	3.82	.01	.02	<2	3
5+00S 2+25W (B)	2	35	<3	292	<.3	16	8	93	3.42	<2	<8	<2	<2	184	.6	<3	<3	42	.92	.027	3	32	.07	12	.14	<3	3.45	.18	.01	<2	<1
5+00S 2+00W (B)	4	185	<3	318	<.3	28	18	529	5.04	<2	<8	<2	<2	38	.6	<3	<3	92	.23	.050	3	55	.09	20	.24	<3	4.52	.04	.02	2	2
5+00S 1+75W (B)	3	172	3	399	.3	34	15	498	6.98	6	<8	<2	<2	17	.4	<3	<3	125	.10	.051	1	97	.51	20	.31	<3	5.14	.01	.02	<2	2
5+00S 1+50W (T)	3	3179	7	2918	17.6	46	184	6738	12.67	4	<8	<2	7	137	14.7	<3	38	41	.56	.213	3	30	.28	89	.04	<3	3.13	.02	.03	<2	34
5+00S 1+25W (B)	2	138	<3	174	3.0	23	17	461	4.25	2	<8	<2	<2	8	.4	<3	<3	87	.09	.064	3	85	.37	10	.20	<3	5.55	.01	.02	<2	1
5+00S 1+00W (C)	2	17	3	27	.9	5	3	37	1.60	2	<8	<2	<2	3	<.2	<3	3	66	.02	.010	2	5	.02	4	.09	<3	.23	.01	.01	<2	1
5+00S 0+75W (C)	2	26	6	40	<.3	16	7	141	6.39	5	<8	<2	2	6	<.2	<3	4	240	.04	.040	1	42	.06	7	.43	<3	.91	.01	.01	<2	1
5+00S 0+50W (B)	2	35	9	71	.6	16	8	177	5.68	10	<8	<2	<2	10	<.2	<3	<3	178	.07	.031	2	57	.34	13	.29	<3	2.10	.01	.02	<2	2
5+00S 0+25W (B)	4	24	12	66	1.3	9	3	95	3.53	3	<8	<2	<2	6	<.2	<3	<3	111	.03	.031	2	27	.14	5	.16	<3	1.63	.01	.01	<2	1
5+00S BL (C)	7	7	5	17	<.3	6	2	31	2.55	3	<8	<2	<2	10	.2	<3	<3	116	.04	.013	1	10	.06	7	.16	<3	.48	<.01	.01	<2	<1
5+00S 0+25E (B)	2	44	17	125	<.3	23	20	574	5.15	10	<8	<2	<2	59	<.2	<3	<3	148	.32	.047	2	58	1.49	21	.18	<3	5.19	.08	.03	<2	6
5+00S 0+50E (B)	2	66	16	573	.4	23	14	2387	3.22	104	<8	<2	<2	182	10.2	3	<3	108	2.73	.103	5	73	.95	29	.06	4	3.22	.16	.04	<2	9
5+00S 0+75E (B)	1	20	6	33	<.3	20	7	204	6.08	<2	<8	<2	<2	18	.2	<3	<3	210	.13	.034	1	90	.70	18	.53	<3	2.74	.01	.03	<2	1
5+00S 1+00E (B)	1	31	6	197	<.3	20	7	217	8.15	19	<8	<2	<2	23	<.2	5	<3	349	.15	.037	1	139	.75	25	.69	<3	3.84	.01	.02	<2	1
STANDARD C3/AU-S	25	61	38	173	5.2	35	12	746	3.23	55	18	2	17	30	23.8	17	22	79	.57	.085	17	159	.58	149	.10	18	1.81	.04	.16	22	51
STANDARD G-2	2	3	4	47	<.3	8	4	521	2.03	<2	<8	<2	3	75	<.2	<3	<3	41	.65	.094	7	72	.59	232	.13	<3	.94	.08	.47	3	<1

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

 Data FA

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Au*
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppb
5+00S 1+25E (B)	2	22	4	32	.6	12	7	200	5.56	10	<8	<2	<2	8	<.2	<3	<3	187	.06	.020	1	55	.37	17	.25	<3	1.67	.01	.02	<2	2
RE 5+00S 1+25E (B)	2	22	9	32	.6	12	7	204	5.57	11	<8	<2	<2	8	<.2	<3	<3	190	.06	.020	1	55	.40	16	.26	<3	1.71	.01	.02	<2	2
5+00S 1+50E (B)	2	45	17	114	<.3	36	13	337	9.23	18	<8	<2	2	9	<.2	<3	<3	245	.10	.041	2	235	1.11	21	.54	<3	5.78	.01	.03	<2	9
5+00S 1+75E (B)	1	32	<3	157	<.3	24	29	771	5.34	42	<8	<2	<2	63	1.1	<3	<3	100	1.46	.186	4	38	1.48	28	.12	<3	5.73	.07	.02	<2	2
5+00S 2+00E (B)	1	55	6	157	.5	51	22	411	4.45	9	<8	<2	<2	75	<.2	<3	<3	108	.54	.040	3	188	1.88	52	.29	<3	4.18	.11	.13	<2	1
6+00S BL (B)	2	31	21	55	1.7	12	6	185	5.89	9	<8	<2	<2	9	<.2	<3	<3	170	.05	.035	3	65	.40	18	.31	<3	4.62	.01	.02	<2	2
6+00S 0+25E (B)	3	49	47	114	.3	22	11	279	7.24	41	<8	<2	<2	20	<.2	<3	<3	160	.11	.045	6	68	.55	19	.27	<3	5.93	.01	.02	<2	7
6+00S 0+50E (B)	3	14	10	47	<.3	9	4	107	4.11	12	<8	<2	<2	4	<.2	<3	<3	110	.02	.022	4	21	.10	12	.10	<3	1.41	<.01	.01	<2	2
6+00S 0+75E (B)	4	40	5	116	.3	23	13	384	5.37	36	<8	<2	<2	10	<.2	<3	3	84	.08	.055	13	30	.54	30	.09	<3	2.98	.01	.04	<2	3
6+00S 1+00E (B)	1	35	17	57	.3	38	11	224	7.82	9	<8	<2	2	5	<.2	<3	<3	282	.13	.020	1	183	1.07	9	.57	<3	2.32	.01	.03	<2	3
6+00S 1+25E (B)	3	28	27	54	.5	18	8	189	5.68	16	<8	<2	<2	12	.2	<3	<3	177	.33	.045	2	76	.33	12	.28	<3	3.63	.01	.02	<2	3
6+00S 1+50E (S)	3	20	9	69	<.3	18	10	503	4.29	29	<8	<2	<2	40	.5	<3	<3	134	.80	.033	1	43	.29	22	.15	<3	1.51	.01	.03	<2	2
6+00S 1+75E CLAY	5	19	4	46	<.3	11	4	184	2.65	8	<8	<2	<2	3	<.2	<3	<3	58	.01	.015	1	25	.09	5	.08	<3	.97	.01	.02	<2	1
6+00S 2+00E (B)	5	28	3	59	<.3	13	6	156	5.42	15	<8	<2	<2	5	<.2	<3	<3	105	.02	.024	2	33	.41	20	.11	<3	2.23	.01	.02	<2	1
7+00S BL (B)	2	26	9	59	<.3	16	8	170	6.33	11	<8	<2	2	6	<.2	<3	<3	171	.02	.032	3	82	.27	14	.16	<3	3.13	.01	.01	<2	3
7+00S 0+25E (B)	1	36	<3	67	<.3	26	13	333	5.27	13	<8	<2	<2	8	<.2	<3	<3	118	.03	.051	5	108	.51	41	.18	<3	5.15	.01	.02	<2	2
7+00S 0+50E (B)	1	46	4	83	.4	35	22	977	6.21	7	<8	<2	2	9	<.2	<3	<3	144	.06	.177	5	143	.73	30	.18	<3	5.73	.01	.02	<2	2
7+00S 0+75E (B)	1	54	13	116	<.3	41	32	1744	6.57	28	<8	<2	2	12	<.2	<3	<3	162	.13	.099	9	128	.87	37	.21	<3	5.51	.01	.03	<2	2
7+00S 1+00E (B)	3	7	4	18	<.3	7	3	49	2.57	3	<8	<2	<2	3	<.2	<3	<3	49	.01	.013	1	1	.01	2	.01	<3	.07	<.01	.01	<2	1
7+00S 1+25E (B)	2	14	20	123	<.3	13	9	951	4.05	16	<8	<2	<2	6	.6	<3	3	59	.05	.056	12	26	.37	25	.02	<3	2.35	.01	.03	<2	2
7+00S 1+50E (B)	2	22	10	143	.3	21	10	501	5.00	83	<8	<2	<2	20	.7	<3	<3	115	.17	.040	6	44	.22	33	.05	<3	2.38	.01	.02	<2	2
7+00S 1+75E (B)	4	49	4	104	<.3	27	19	2052	6.50	114	<8	<2	<2	31	1.0	<3	<3	148	.46	.059	13	76	.52	29	.20	<3	4.17	.01	.02	<2	3
7+00S 2+00E (B)	1	27	<3	64	<.3	18	14	456	6.40	11	<8	<2	<2	16	<.2	<3	<3	163	.14	.058	6	48	.78	20	.42	<3	5.91	.01	.02	<2	1
STANDARD C3/AU-S	25	63	34	177	5.5	36	13	763	3.34	57	19	3	18	31	23.8	19	22	81	.59	.087	18	166	.60	152	.10	20	1.91	.04	.17	25	43
STANDARD G-2	1	3	5	47	<.3	7	4	532	2.07	<2	<8	<2	2	78	<.2	<3	<3	41	.68	.095	8	74	.60	235	.14	<3	.98	.09	.47	2	1

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

ACME ANALYTICAL LABORATORIES LTD [redacted] 852 E. HASTINGS ST. VANCOUVER BC [redacted] 1R6 [redacted] PHONE(604)253-3158 FAX(604)253-1716 [redacted]
[redacted] 90[redacted] Accredited [redacted])

GEOCHEMICAL ANALYSIS CERTIFICATE

Fitch, Bernard File # 9801726 Page 1

402 - 420 - 7th St., New Westminster BC V3M 3L1 Submitted by: Bernard Fitch

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
0+000S 1+000W (B)	2	14	31	107	.4	14	21	2915	6.12	37	<8	<2	<2	39	.6	<3	<3	78	.25	.099	7	54	1.69	34	.06	<3	3.71	.05	.02	<2	1
0+000S 0+875W "	2	15	12	99	<.3	16	18	773	6.68	14	<8	<2	<2	9	.4	<3	3	129	.13	.035	7	70	2.27	37	.14	<3	3.53	.02	.02	<2	1
0+000S 0+750W "	2	24	12	72	.5	19	10	258	6.17	16	<8	<2	2	6	<.2	<3	3	111	.05	.036	4	57	.63	31	.14	<3	4.24	.01	.01	<2	4
0+000S 0+625W "	2	24	10	45	<.3	13	4	104	4.60	13	<8	<2	<2	5	<.2	<3	4	96	.02	.026	3	29	.24	11	.07	<3	1.69	.01	.01	<2	2
0+000S 0+500W "	2	47	18	88	.7	24	19	871	5.53	25	<8	<2	<2	6	.3	<3	<3	72	.09	.056	9	39	.93	49	.06	<3	2.82	.02	.02	<2	5
0+000S 0+375W "	2	32	12	75	.4	22	19	802	5.43	14	<8	<2	<2	8	<.2	<3	<3	97	.09	.055	6	38	.68	36	.08	<3	3.23	.01	.02	<2	2
0+000S 0+250W "	2	34	11	81	.7	18	16	613	5.39	15	<8	<2	<2	4	.3	<3	3	93	.04	.054	8	37	.51	36	.06	<3	3.68	.01	.02	<2	2
0+000S 0+125W "	2	577	20	254	2.0	38	28	1199	4.73	75	<8	<2	<2	98	1.1	<3	6	71	1.43	.069	5	54	1.08	49	.10	<3	3.10	.12	.08	3	28
0+000S BL "	2	445	18	212	1.9	32	23	983	3.95	76	<8	<2	<2	88	1.3	<3	<3	64	1.15	.063	4	42	.93	51	.08	<3	2.44	.10	.07	<2	8
0+00S 0+25E "	2	563	20	279	1.9	40	28	1291	4.32	69	8	<2	<2	102	1.8	<3	3	72	1.30	.079	5	55	.98	51	.09	<3	3.11	.11	.07	<2	4
0+00S 0+75E "	1	90	31	101	<.3	14	19	377	3.61	9	<8	<2	<2	15	<.2	<3	<3	173	.23	.092	5	59	1.30	35	.34	<3	3.26	.02	.02	<2	9
RE 0+00S 0+75E "	1	90	31	102	.4	12	18	376	3.62	10	<8	<2	<2	15	.4	<3	3	175	.23	.094	5	60	1.30	32	.35	<3	3.36	.02	.03	<2	6
0+00S 1+00E "	1	12	9	15	<.3	2	5	182	4.67	5	<8	<2	2	18	<.2	<3	<3	252	.10	.036	6	14	.23	13	.16	<3	2.11	.01	.06	<2	60
0+00S 1+25E (C)	<1	21	71	57	<.3	5	2	118	1.58	8	<8	<2	<2	14	<.2	<3	19	100	.14	.048	3	22	.28	21	.42	<3	1.42	.01	.03	<2	26
0+00S 1+50E "	<1	21	30	21	<.3	7	2	113	1.85	5	<8	<2	<2	15	<.2	<3	<3	127	.15	.026	3	8	.04	18	.25	4	.56	.02	.03	<2	1
0+00S 1+75E "	1	40	19	26	<.3	9	10	1073	6.10	3	<8	<2	2	15	.2	<3	<3	299	.24	.082	3	17	.51	9	.31	<3	1.92	.05	.04	<2	1
0+00S 2+00E (B)	2	78	18	61	<.3	20	69	1719	9.74	20	<8	<2	2	5	.4	<3	<3	224	.13	.117	6	45	1.04	16	.24	<3	8.41	.06	.02	<2	8
1+000S 1+500W (B)+T	2	61	9	81	.3	14	26	754	5.93	18	<8	<2	<2	52	1.0	<3	<3	118	1.09	.054	11	28	.53	54	.13	<3	5.59	.01	.02	<2	1
1+000S 1+375W (B)	3	41	10	68	.3	9	13	617	7.63	31	<8	<2	2	9	.2	<3	6	114	.05	.062	5	38	.94	28	.06	<3	5.80	.02	.02	<2	6
1+000S 1+250W "	1	30	8	63	.7	9	13	542	6.37	19	<8	<2	3	11	.6	<3	<3	84	.06	.062	5	23	1.08	38	.03	<3	6.58	.02	.03	<2	1
1+000S 1+125W "	2	18	7	27	.3	6	5	142	4.85	15	<8	<2	<2	21	.4	<3	<3	130	.49	.033	3	15	.25	27	.04	<3	2.16	.01	.03	<2	1
1+000S 1+000W "	8	2	17	37	<.3	5	2	176	7.22	13	<8	<2	2	5	<.2	<3	<3	169	.04	.035	4	34	.40	15	.14	<3	2.10	.01	.02	<2	3
1+000S 0+875W "	2	25	13	35	<.3	5	5	161	7.64	15	<8	<2	2	4	<.2	<3	5	206	.06	.031	2	48	.39	9	.19	<3	2.95	.02	.03	<2	1
1+000S 0+750W "	2	15	3	35	.5	9	5	85	1.80	10	<8	<2	<2	12	<.2	<3	<3	54	.28	.019	2	9	.05	23	.01	<3	.85	.01	.01	<2	2
1+000S 0+625W "	4	20	13	37	.8	9	4	76	4.57	22	<8	<2	<2	3	.3	<3	<3	100	.03	.025	2	35	.15	14	.02	<3	2.17	.01	.01	<2	4
1+000S 0+500W "	2	25	12	78	.4	22	12	229	5.21	12	<8	<2	2	8	<.2	<3	<3	74	.07	.058	4	26	.58	26	.01	<3	2.80	.02	.02	2	<1
1+000S 0+375W "	2	29	9	68	.8	19	10	280	4.59	13	<8	<2	<2	11	.5	<3	<3	53	.05	.079	9	24	.43	17	.01	<3	3.28	.01	.03	<2	<1
1+000S 0+250W "	2	584	17	180	2.4	20	23	1545	4.49	61	<8	<2	<2	46	1.2	<3	<3	76	.57	.066	7	56	.68	45	.10	<3	3.63	.05	.03	<2	11
1+000S 0+125W "	2	498	17	206	1.6	27	19	600	4.77	68	<8	<2	2	43	1.1	<3	<3	86	.51	.057	3	62	.65	42	.13	3	4.49	.04	.03	<2	9
1+000S BL "	2	608	19	259	1.4	36	32	1363	4.78	118	<8	<2	<2	48	1.6	<3	<3	79	.65	.077	6	65	.96	45	.11	<3	4.90	.06	.05	<2	17
1+00S 0+25E "	3	170	16	108	1.0	12	9	428	4.18	86	<8	<2	<2	26	<.2	<3	<3	116	.40	.025	3	38	.41	22	.12	<3	1.64	.01	.02	<2	18
1+00S 0+50E "	3	411	29	197	.9	20	12	566	8.06	130	<8	<2	2	27	.7	<3	6	90	.63	.050	3	84	.67	29	.11	<3	3.61	.01	.03	<2	23
1+00S 0+75E "	3	649	30	315	1.9	41	40	1882	5.03	144	<8	<2	<2	30	1.6	<3	<3	70	.36	.096	8	79	.97	45	.09	<3	6.25	.04	.04	<2	8
1+00S 1+00E "	3	537	33	406	.7	39	33	2269	6.43	132	<8	<2	<2	41	1.6	<3	<3	112	.52	.106	6	76	1.21	51	.07	<3	5.13	.04	.04	<2	20
1+00S 1+25E "	1	16	25	39	<.3	4	8	281	6.44	20	<8	<2	2	4	<.2	3	<3	173	.03	.049	5	21	.18	13	.01	<3	2.52	.01	.03	<2	12
STANDARD C3/AU-S	25	65	38	167	5.2	41	12	786	3.50	55	25	<2	22	29	24.6	16	24	80	.56	.093	18	170	.64	150	.09	21	2.01	.04	.17	17	45
STANDARD G-2	1	6	<3	42	<.3	8	4	532	2.06	<2	<8	<2	4	79	<.2	<3	<3	40	.65	.097	8	77	.61	235	.13	<3	1.05	.10	.51	2	<1

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
- SAMPLE TYPE: SOIL AU* - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.(10 GM)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: MAY 15 1998 **DATE REPORT MAILED:** May 26/98 **SIGNED BY** .... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

Data ✓ FA ____

ACME ANALYTICAL

Fitch, Bernard FILE # 9801726 Page 2

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
1+00S 1+50E (B)	11	87	524	177	.7	13	30	895	9.66	417	12	<2	3	3	1.0	<3	<3	176	.04	.056	4	23	.23	12	<.01	7	3.36	.01	.04	<2	231
1+00S 1+75E "	1	45	191	86	1.6	6	9	262	9.71	86	<8	<2	2	5	.9	<3	<3	333	.04	.041	3	25	.22	28	.02	<3	3.15	.01	.02	<2	170
2+000S 1+500W S	2	715	21	551	1.8	52	25	1341	3.92	94	<8	<2	<2	206	4.3	<3	<3	63	1.95	.068	4	67	1.06	59	.08	<3	3.33	.21	.20	<2	40
2+000S 1+375W (B)	2	758	23	339	2.2	38	33	988	4.87	78	<8	<2	2	77	1.8	<3	6	82	.67	.049	7	62	.98	44	.11	<3	4.45	.09	.04	<2	43
2+000S 1+250W "	2	509	18	248	1.2	25	19	218	3.31	85	<8	<2	2	37	1.5	3	4	65	.54	.047	7	42	.53	43	.12	<3	5.34	.03	.03	<2	36
2+000S 1+125W "	2	348	14	166	1.4	20	19	574	4.83	82	<8	<2	2	42	1.2	<3	<3	83	.45	.044	4	53	.68	27	.11	<3	3.36	.04	.04	<2	7
2+000S 1+000W "	2	812	15	335	2.3	37	32	1572	4.83	100	<8	<2	2	90	1.9	<3	<3	75	.95	.074	6	61	.98	57	.10	3	4.23	.11	.06	<2	73
2+000S 0+875W "	3	376	18	242	1.2	18	18	397	7.26	167	<8	<2	3	38	1.6	<3	<3	117	.75	.036	5	40	.46	44	.15	<3	3.64	.02	.03	<2	18
RE 2+000S 1+25E "	3	56	27	113	.7	28	13	739	2.95	100	<8	<2	2	105	1.0	3	3	72	.70	.088	5	54	.70	36	.07	3	3.65	.10	.03	<2	10
2+000S 0+750W "	3	335	15	149	.8	15	9	224	6.48	111	<8	<2	3	11	1.3	<3	6	106	.17	.045	4	39	.35	21	.13	<3	5.30	.02	.02	<2	7
2+000S 0+625W "	3	176	12	149	.4	21	31	582	6.05	49	<8	<2	2	32	1.2	<3	<3	96	.47	.054	4	35	.70	37	.08	<3	4.85	.02	.02	<2	6
2+000S 0+500W "	3	150	10	86	.6	14	7	127	6.10	41	11	<2	2	10	1.3	<3	<3	80	.09	.047	4	40	.46	8	.08	<3	5.83	.01	.03	<2	1
2+000S 0+375W "	3	61	14	66	.8	11	10	109	4.67	31	<8	<2	2	6	.9	<3	<3	145	.06	.039	4	21	.09	11	.01	<3	2.94	.01	.02	<2	6
2+000S 0+250W "	2	75	13	94	.8	20	14	1037	4.97	29	<8	<2	2	28	1.8	<3	<3	96	.35	.073	6	30	.37	45	.02	<3	4.18	.02	.03	<2	1
2+000S 0+125W "	2	58	9	73	.7	15	21	1065	5.82	16	<8	<2	2	13	1.3	<3	<3	119	.18	.060	5	40	.69	58	.05	<3	4.24	.01	.03	<2	2
2+000S BL "	2	76	19	95	.8	32	21	1275	4.73	135	<8	<2	<2	37	1.4	<3	<3	93	.40	.053	7	73	.90	27	.13	<3	5.04	.05	.04	<2	20
2+00S 0+25E (B)+S	2	61	18	99	.7	29	17	958	4.45	76	8	<2	2	71	1.1	<3	3	97	.66	.059	5	59	1.11	43	.12	<3	4.06	.10	.06	<2	7
2+00S 0+50E (B)	2	43	25	108	.7	27	13	632	4.59	109	<8	<2	2	43	1.1	<3	<3	85	.18	.050	5	74	.82	39	.11	<3	4.84	.05	.04	<2	11
2+00S 0+75E "	3	39	27	98	.3	21	52	8440	5.20	148	8	<2	<2	31	2.6	<3	<3	102	.51	.045	5	55	.46	49	.12	<3	3.39	.01	.02	<2	16
2+00S 1+00E "	4	31	23	87	<.3	14	43	20801	8.40	111	<8	<2	2	36	1.7	<3	<3	119	.42	.058	6	31	.19	152	.06	7	2.24	.01	.03	<2	6
2+00S 1+25E "	3	52	27	110	.6	27	12	802	2.85	93	<8	<2	<2	102	1.0	<3	3	69	.66	.083	5	51	.67	29	.07	<3	3.53	.10	.04	<2	12
2+00S 1+50E "	1	5	23	8	.3	2	2	44	1.01	22	<8	<2	2	4	<.2	<3	<3	121	.01	.010	1	13	.02	4	.46	<3	.43	.01	.01	<2	41
2+00S 1+75E "	3	36	32	65	.6	13	32	500	6.83	75	10	<2	3	6	1.1	<3	<3	153	.06	.040	4	57	.27	17	.17	<3	6.63	.01	.02	<2	8
2+00S 2+00E "	2	47	23	99	1.4	23	16	1290	5.14	79	11	<2	<2	76	1.6	<3	<3	116	.99	.057	6	46	.62	45	.08	<3	3.39	.07	.04	<2	10
3+000S 1+500W	2	147	7	105	1.0	14	23	387	5.36	37	<8	<2	2	26	1.0	<3	<3	132	.37	.040	4	30	.74	30	.21	<3	6.12	.04	.04	<2	1
3+000S 1+375W	2	61	24	117	.9	36	14	916	3.40	94	<8	<2	<2	153	1.1	<3	<3	79	.80	.089	6	69	.74	32	.08	<3	4.62	.16	.05	<2	7
3+000S 1+250W	2	42	11	103	.6	26	15	1077	4.25	35	<8	<2	<2	74	1.4	<3	<3	64	.89	.094	6	30	.64	23	.05	<3	3.64	.12	.05	<2	4
3+000S 1+125W	2	38	9	81	.7	14	19	747	5.43	33	<8	<2	2	70	1.3	<3	<3	111	.48	.046	4	41	1.93	33	.10	<3	5.88	.20	.05	<2	6
3+000S 1+000W	2	39	12	65	.6	17	11	392	4.23	32	<8	<2	2	30	1.4	<3	<3	100	.17	.047	5	54	.86	23	.14	<3	4.89	.04	.03	<2	1
3+000S 0+875W	1	20	11	44	.7	7	5	199	5.20	15	<8	<2	2	6	1.2	<3	8	106	.05	.053	3	48	.69	20	.09	<3	5.34	.02	.03	<2	1
3+000S 0+750W	2	36	15	78	.9	19	27	573	5.69	15	<8	<2	3	9	1.7	<3	<3	126	.11	.040	8	45	.45	26	.15	4	5.22	.01	.02	<2	1
3+000S 0+625W	3	36	12	64	.5	15	19	265	7.32	14	<8	<2	2	4	.7	<3	<3	167	.03	.034	7	39	.48	23	.15	<3	5.23	.02	.02	<2	3
3+000S 0+500W	2	21	16	59	.5	9	9	558	5.37	7	<8	<2	2	26	1.2	<3	7	94	.62	.051	4	22	.62	29	.11	<3	3.89	.02	.03	<2	1
3+000S 0+375W	3	43	15	112	.5	17	35	6698	6.19	16	<8	<2	2	12	1.2	<3	<3	74	.15	.147	8	25	.69	45	.04	<3	4.31	.02	.04	<2	2
3+000S 0+250W (A+B)	2	35	10	55	.6	12	12	673	6.25	11	<8	<2	2	5	1.2	<3	<3	126	.03	.037	3	26	1.12	19	.08	<3	2.74	.01	.04	<2	2
3+000S 0+125W	3	22	13	44	.5	9	7	352	5.62	40	<8	<2	<2	30	.5	<3	<3	146	.74	.027	3	20	.40	22	.16	<3	1.37	.01	.04	<2	4
STANDARD C3/AU-S	25	62	34	164	5.4	34	11	748	3.23	52	26	3	22	28	23.6	20	23	77	.53	.088	17	165	.59	151	.08	18	1.88	.04	.16	14	59
STANDARD G-2	2	3	3	44	<.3	7	5	528	2.02	<2	<8	<2	4	72	<.2	<3	3	41	.61	.094	8	76	.59	219	.12	3	1.00	.07	.48	2	<1

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ✓ FA ____

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
3+000S BL	2	22	4	63	.4	10	13	422	5.29	3	<8	<2	2	12	1.0	<3	<3	128	.15	.042	5	30	.54	21	.11	<3	4.12	.01	.02	<2	<1
3+00S 0+25E (A+B)	2	57	3	126	.8	50	53	5453	10.55	12	<8	<2	2	42	1.9	<3	<3	144	1.04	.131	11	48	2.26	56	.09	<3	5.34	.07	.01	<2	8
3+00S 0+50E "	3	47	10	117	.5	39	21	3006	4.61	15	<8	<2	<2	66	1.3	<3	<3	97	.65	.100	6	73	1.37	49	.08	<3	4.65	.11	.05	<2	5
3+00S 0+75E (B)	3	12	34	85	.7	4	7	244	7.60	15	<8	<2	<2	36	.8	<3	<3	116	.80	.049	2	20	.27	46	<.01	<3	2.73	.02	.03	<2	3
3+00S 1+00E "	2	53	7	78	1.2	38	24	2190	3.55	14	<8	<2	<2	71	1.7	<3	<3	78	1.24	.061	9	80	.90	58	.09	4	4.27	.04	.04	<2	1
3+00S 1+25E "	2	18	47	71	.3	11	9	299	7.47	89	<8	<2	<2	4	.8	<3	<3	181	.04	.034	2	57	.49	9	.12	<3	2.47	.01	.02	<2	151
3+00S 1+50E "	1	12	11	19	.7	9	6	101	3.40	27	<8	<2	<2	6	.3	<3	<3	174	.03	.018	2	22	.08	14	.16	<3	1.08	.01	.02	<2	21
3+00S 1+75E "	2	26	64	134	.6	13	24	772	9.09	76	<8	<2	3	6	.9	<3	<3	187	.08	.043	5	90	.35	25	.18	3	6.42	.01	.02	<2	47
3+00S 2+00E "	2	26	53	110	.9	17	13	1227	4.00	44	10	<2	<2	17	1.4	3	<3	91	.37	.056	6	37	.62	45	.03	<3	2.65	.01	.03	<2	65
4+000S 1+25W	1	166	<3	89	<.3	158	50	727	4.89	13	<8	<2	<2	332	1.1	<3	4	102	2.76	.065	4	339	3.37	75	.18	<3	6.72	.72	.22	<2	2
4+000S 1+125W (A+B)	2	131	4	78	.6	104	47	4830	4.40	11	<8	<2	<2	86	1.0	<3	3	88	.58	.081	3	200	2.68	34	.11	<3	4.43	.21	.11	<2	1
4+000S 1+00W (B)	1	36	11	111	.7	47	20	1397	5.07	16	<8	<2	<2	247	1.4	<3	<3	93	2.58	.084	7	86	2.37	41	.10	4	4.21	.42	.14	<2	3
4+000S 0+875W "	1	40	3	86	<.3	17	20	1551	6.54	5	<8	<2	<2	360	1.6	<3	<3	146	2.27	.077	6	30	1.80	50	.09	<3	5.62	.77	.09	<2	1
4+000S 0+75W "	1	51	3	101	.6	25	17	2817	4.31	7	<8	<2	<2	106	1.1	<3	3	89	1.49	.094	5	45	1.33	49	.06	3	3.56	.16	.04	<2	1
4+000S 0+625W "	2	28	11	65	.4	18	17	971	6.12	16	<8	<2	2	13	.9	<3	4	134	.16	.049	4	66	1.18	25	.16	3	4.65	.03	.03	<2	6
4+000S 0+50W "	2	39	8	71	<.3	19	18	952	5.03	21	<8	<2	<2	11	1.3	<3	3	112	.09	.054	6	58	1.04	25	.15	<3	5.52	.02	.03	2	2
4+000S 0+375W "	2	29	11	69	.3	22	17	974	3.69	22	<8	<2	<2	24	1.0	3	<3	82	.21	.067	4	68	.79	15	.09	<3	5.43	.04	.02	<2	<1
4+000S 0+25W "	3	39	22	95	.7	27	15	1451	3.88	36	<8	<2	<2	63	1.5	<3	<3	85	.33	.074	7	58	.89	37	.06	<3	4.20	.09	.04	<2	5
4+000S 0+125W "	3	38	23	89	.8	32	14	1426	3.56	29	<8	<2	<2	104	1.4	<3	<3	73	.60	.085	7	54	.83	37	.06	<3	4.06	.15	.05	<2	10
4+00S BL "	2	35	16	86	.9	34	12	1217	3.29	30	<8	<2	<2	111	.9	3	<3	71	.80	.079	7	55	.81	27	.06	4	3.77	.14	.04	<2	2
RE 4+00S BL (B)	2	34	14	87	.7	34	13	1205	3.28	28	<8	<2	<2	109	1.3	3	<3	70	.79	.080	7	55	.81	24	.06	3	3.77	.14	.04	<2	2
4+00S 0+25E "	2	40	19	91	.7	32	15	1159	3.49	24	<8	<2	<2	107	1.1	<3	<3	82	.92	.082	6	58	.99	34	.07	4	4.03	.16	.05	<2	1
4+00S 0+50E "	3	37	8	54	.9	23	12	1128	3.11	15	<8	<2	<2	81	1.0	<3	<3	67	2.40	.063	5	70	.56	30	.09	<3	2.78	.03	.02	<2	1
4+00S 0+75E "	2	41	7	143	.5	31	25	6529	5.22	11	<8	<2	<2	46	2.7	<3	4	111	1.02	.081	6	50	1.15	88	.13	3	4.61	.04	.04	<2	1
4+00S 1+00E "	2	32	15	70	.4	9	15	531	5.82	26	<8	<2	<2	8	.9	<3	3	83	.15	.043	4	23	.72	25	.10	<3	3.77	.01	.03	<2	3
4+00S 1+25E "	2	73	15	142	<.3	27	26	6857	5.38	13	<8	<2	2	11	1.8	<3	<3	89	.20	.090	11	41	.82	53	.14	<3	6.67	.01	.03	<2	5
4+00S 1+50E "	2	20	13	51	<.3	8	5	277	5.14	14	<8	<2	<2	8	.8	<3	<3	103	.06	.033	2	29	.51	18	.09	<3	3.06	.01	.02	<2	1
4+00S 1+75E "	2	31	105	119	1.1	19	35	926	6.64	190	<8	<2	<2	28	1.0	<3	<3	128	.72	.051	9	46	1.19	50	.07	<3	4.37	.01	.02	<2	44
4+00S 2+00E "	2	32	147	133	.6	25	26	493	7.43	222	<8	<2	2	8	1.3	<3	4	193	.13	.031	8	73	.48	47	.22	<3	4.93	.01	.01	<2	225
5+000S 1+500W (B)	2	31	24	75	.9	39	16	764	3.79	47	<8	<2	<2	104	1.0	<3	<3	94	.64	.057	8	86	1.31	28	.08	<3	5.05	.18	.05	<2	3
5+000S 1+375W "	2	27	19	65	.9	17	10	1059	3.39	52	<8	<2	<2	114	1.2	<3	<3	81	.63	.058	9	38	.84	21	.07	3	4.20	.14	.04	<2	2
5+000S 1+250W "	2	53	15	85	.9	32	16	1223	4.11	60	<8	<2	<2	100	1.2	<3	5	92	.61	.063	10	69	.97	22	.11	<3	5.16	.15	.04	<2	6
5+000S 1+125W "	1	69	7	78	.4	75	21	564	4.16	23	<8	<2	<2	126	1.1	<3	6	92	.85	.038	6	145	1.80	41	.15	5	5.21	.25	.07	<2	7
5+000S 1+000W "	<1	61	<3	51	.4	102	21	267	3.55	10	<8	<2	<2	187	.5	<3	<3	89	1.00	.034	2	212	2.17	32	.13	<3	5.19	.48	.09	<2	<1
5+000S 0+875W "	1	104	3	78	<.3	97	25	494	4.63	13	<8	<2	<2	158	.8	<3	<3	94	.89	.039	4	153	2.20	73	.16	<3	4.76	.34	.11	<2	1
STANDARD C3/AU-S	26	63	33	170	5.4	37	12	778	3.32	55	19	3	22	30	24.1	19	24	79	.56	.089	18	167	.62	145	.09	25	1.98	.04	.17	16	53
STANDARD G-2	2	2	5	41	<.3	6	4	511	1.95	<2	<8	<2	5	70	<.2	<3	<3	40	.61	.093	8	74	.58	224	.12	<3	.99	.07	.47	2	<1

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ____

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
5+000S 0+750W (B)	1	40	7	108	.4	34	35	2012	8.72	24	<8	<2	<2	71	1.3	<3	<3	204	.87	.080	9	90	2.75	42	.12	<3	4.28	.10	.04	<2	2
5+000S 0+625W "	1	46	12	65	.4	38	16	655	3.91	21	<8	<2	<2	38	.7	<3	3	97	.23	.049	6	95	1.12	26	.14	<3	4.55	.07	.03	<2	3
5+000S 0+500W "	1	53	14	73	.3	39	13	358	4.30	18	<8	<2	<2	17	.7	<3	<3	108	.11	.042	4	124	1.14	20	.20	<3	5.34	.03	.03	<2	3
5+000S 0+375W "	1	42	10	55	.6	30	12	592	5.06	15	<8	<2	<2	7	1.1	<3	<3	138	.10	.040	4	125	.87	11	.25	<3	4.13	.02	.02	<2	2
5+000S 0+250W "	2	28	16	75	.6	11	14	797	5.60	4	<8	<2	2	6	.8	<3	<3	159	.05	.061	4	48	1.08	21	.16	<3	5.82	.02	.02	<2	2
5+000S 0+125W "	1	52	7	107	<.3	23	29	3831	7.14	<2	<8	<2	2	41	1.4	<3	<3	193	.17	.052	8	38	4.99	93	.21	<3	7.93	.04	.07	<2	1
5+000S BL "	2	63	36	101	.8	19	26	1733	6.39	<2	<8	<2	2	45	1.0	<3	<3	173	.44	.060	5	35	3.15	39	.18	<3	7.31	.14	.11	<2	2
5+00S 0+25E "	1	40	115	85	4.5	12	11	470	6.47	<2	<8	<2	2	14	1.1	<3	15	206	.11	.051	2	25	.70	17	.28	<3	3.86	.03	.03	<2	2
5+00S 0+50E "	1	38	9	54	.4	10	7	214	4.26	<2	<8	<2	2	9	.8	<3	<3	106	.06	.040	5	27	.84	20	.18	<3	5.84	.02	.03	<2	2
5+00S 0+75E "	2	30	18	67	.7	12	9	217	6.77	<2	11	<2	2	6	.5	<3	<3	231	.04	.024	3	39	.65	30	.25	<3	5.05	.01	.02	<2	10
5+00S 1+00E "	3	38	<3	45	1.1	10	4	153	5.00	3	<8	<2	2	8	1.2	<3	<3	138	.06	.038	3	45	.59	20	.21	<3	5.42	.01	.02	<2	1
RE 5+00S 1+25E "	2	28	5	61	.7	12	7	320	6.30	6	<8	<2	<2	8	.8	<3	3	158	.05	.027	3	35	.91	32	.24	<3	7.03	.02	.02	<2	5
5+00S 1+25E "	2	30	6	64	.8	13	8	328	6.46	4	<8	<2	2	8	1.1	<3	<3	162	.04	.027	3	37	.93	36	.25	<3	7.25	.02	.03	<2	2
5+00S 1+50E "	2	32	20	59	.8	13	13	265	6.35	22	<8	<2	<2	9	.5	<3	<3	149	.04	.025	5	35	.76	69	.10	3	5.05	.01	.03	<2	6
5+00S 1+75E "	1	43	7	67	.5	18	17	387	7.23	24	<8	<2	2	7	1.0	<3	4	210	.04	.034	4	58	.85	23	.31	<3	5.95	.02	.02	<2	1
5+00S 2+00E "	<1	41	25	181	.5	40	28	717	5.40	26	<8	<2	<2	32	1.0	<3	<3	130	.82	.050	7	79	.90	35	.17	3	5.03	.03	.04	<2	2
BL 6+00 1+50W "	3	92	3	60	.4	44	20	268	4.25	4	<8	<2	<2	10	.7	<3	3	98	.10	.030	7	111	.77	10	.32	<3	4.27	.02	.04	<2	2
6+000S 1+375W "	5	47	11	46	<.3	23	7	130	5.29	12	9	<2	2	4	.9	<3	<3	130	.04	.022	6	88	.22	7	.27	<3	4.24	.01	.01	<2	4
BL 6+00 1+25W "	5	40	6	68	.9	39	16	159	4.05	22	10	<2	<2	71	.9	<3	<3	91	.41	.035	7	79	.58	16	.14	<3	4.82	.12	.02	<2	3
6+000S 1+125W "	3	45	64	150	1.9	33	16	268	4.06	42	<8	<2	2	59	1.3	<3	<3	92	.35	.046	6	66	.65	19	.12	<3	5.55	.11	.02	<2	5
BL 6+00 1+00W "	4	39	23	75	.9	27	13	165	4.17	35	<8	<2	<2	30	.9	<3	<3	111	.20	.033	6	73	.83	13	.14	3	5.93	.06	.02	<2	3
6+000S 0+875W "	4	29	26	62	1.1	26	9	126	3.87	20	<8	<2	2	24	.7	<3	<3	110	.16	.036	5	52	.62	10	.14	<3	3.94	.04	.01	<2	2
BL 6+00 0+75W "	3	19	22	71	.5	18	12	330	3.74	19	<8	<2	<2	28	1.0	<3	<3	101	.19	.032	5	43	.65	13	.11	<3	4.06	.04	.01	<2	3
6+000S 0+625W "	2	32	17	56	.6	38	20	973	4.40	14	<8	<2	<2	23	.7	<3	<3	112	.21	.048	4	96	1.12	37	.14	<3	3.17	.04	.05	<2	2
BL 6+00 0+50W "	1	35	27	80	.8	51	22	471	4.15	14	<8	<2	<2	26	1.0	<3	5	102	.23	.044	4	109	1.24	28	.16	<3	4.96	.06	.05	<2	3
6+000S 0+375W "	1	31	14	63	.9	47	16	512	4.11	6	<8	<2	<2	13	1.0	<3	<3	112	.18	.051	4	132	1.23	16	.20	3	4.78	.03	.04	<2	2
BL 6+00 0+25W "	1	36	14	63	.8	41	15	544	4.10	11	<8	<2	2	17	1.0	<3	<3	105	.16	.050	4	107	.99	19	.18	<3	4.37	.02	.03	<2	1
6+000S 0+125W "	3	33	23	65	.6	42	15	305	6.06	25	<8	<2	<2	6	.7	3	<3	174	.07	.036	5	146	.91	13	.33	<3	4.56	.02	.02	<2	4
BL 6+00 BL "	1	137	16	203	.6	76	26	633	4.59	12	<8	<2	<2	122	2.2	<3	4	115	.71	.056	5	161	2.27	47	.20	<3	5.19	.21	.16	<2	3
6+00S 0+25E "	2	65	37	441	1.2	39	22	1419	4.45	23	<8	<2	<2	65	2.6	<3	5	80	1.43	.049	8	89	.56	37	.15	<3	4.13	.03	.03	<2	2
6+00S 0+50E "	1	22	8	35	.5	6	7	105	4.97	<2	10	<2	<2	8	.9	<3	<3	163	.05	.023	3	34	.46	6	.21	<3	4.58	.02	.02	<2	1
6+00S 0+75E "	1	38	3	63	.4	9	10	126	6.38	2	16	<2	<2	3	.8	<3	<3	159	.05	.036	3	37	.44	7	.34	<3	5.57	.02	.02	<2	2
6+00S 1+00E "	1	69	<3	97	.3	10	6	185	4.46	<2	13	<2	<2	11	.6	<3	<3	87	.09	.046	4	24	.30	15	.21	<3	5.34	.03	.02	<2	2
6+00S 1+25E "	1	58	<3	75	.4	17	11	170	4.22	5	<8	<2	2	9	1.0	<3	<3	62	.07	.046	5	27	.40	19	.17	<3	7.53	.02	.02	<2	2
6+00S 1+50E "	2	49	<3	60	.4	15	8	200	5.47	<2	11	<2	2	7	1.0	<3	<3	108	.06	.038	4	52	.30	12	.25	<3	6.52	.02	.02	<2	1
STANDARD C3/AU-S	25	61	33	164	5.0	36	11	730	3.16	55	27	3	21	29	23.0	19	21	76	.52	.087	18	163	.58	145	.08	16	1.89	.04	.16	14	53
STANDARD G-2	2	<1	3	41	<.3	8	5	495	1.88	<2	<8	<2	5	69	<.2	<3	<3	39	.59	.091	8	75	.56	210	.12	3	.92	.07	.46	2	<1

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ____

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
6+00S 1+75E (B)	3	67	6	97	<.3	22	13	235	7.08	22	<8	<2	2	10	.8	<3	<3	150	.09	.026	5	61	.62	24	.33	<3	7.52	.01	.04	<2	6
6+00S 2+00E "	3	96	8	102	<.3	22	21	424	6.83	30	<8	<2	<2	10	1.2	<3	<3	138	.09	.044	7	58	.41	18	.29	<3	5.74	.01	.02	<2	5
7+000S 1+375W "	1	63	5	54	<.3	85	27	275	4.45	13	<8	<2	<2	102	1.1	<3	<3	131	.79	.036	1	206	3.65	88	.20	<3	4.98	.25	.30	<2	4
7+000S 1+250W "	4	111	6	39	<.3	18	8	105	7.00	12	<8	<2	2	19	.3	3	12	154	.24	.027	2	78	.31	9	.41	<3	2.27	.02	.03	<2	50
7+000S 1+125W "	2	91	9	86	<.3	61	23	248	6.49	12	<8	<2	2	70	.6	<3	6	162	.53	.027	2	196	2.67	65	.35	<3	4.73	.12	.11	<2	29
7+000S 1+000W "	3	245	<3	130	<.3	72	25	214	6.24	13	<8	<2	<2	35	1.4	<3	3	143	.41	.027	2	185	1.70	22	.47	<3	5.81	.07	.05	2	27
7+000S 0+875W "	1	143	6	126	<.3	71	21	155	5.41	9	<8	<2	2	21	1.1	<3	3	138	.26	.028	2	231	1.92	19	.47	<3	6.55	.05	.07	<2	9
7+000S 0+750W "	3	117	5	98	.5	40	14	217	5.28	9	<8	<2	<2	14	1.0	<3	<3	116	.12	.036	3	177	.81	19	.37	7	6.58	.03	.03	<2	3
7+000S 0+625W "	4	63	68	156	<.3	21	12	295	5.53	33	<8	<2	2	14	.8	<3	3	123	.07	.033	5	100	.28	4	.30	<3	5.57	.02	.02	<2	16
RE 7+000S 0+625W "	4	59	64	153	.3	22	10	288	5.42	26	<8	<2	<2	15	.9	<3	4	121	.07	.030	5	96	.27	10	.30	5	5.43	.02	.02	<2	10
7+000S 0+500W "	3	64	127	127	.5	24	19	282	4.26	34	<8	<2	<2	21	1.4	<3	3	82	.13	.046	7	68	.28	16	.16	<3	4.92	.02	.02	<2	2
7+000S 0+375W "	2	45	97	175	.4	30	20	2190	5.86	49	<8	<2	2	84	1.8	<3	<3	128	.19	.039	8	63	.96	92	.17	5	4.97	.04	.05	<2	10
7+000S 0+250W "	2	44	4	78	<.3	12	21	1852	6.90	34	<8	<2	<2	126	1.4	<3	<3	201	.50	.029	9	58	3.40	60	.18	<3	5.13	.14	.11	<2	4
7+000S 0+125W "	1	42	43	92	<.3	13	14	1475	3.45	15	<8	<2	<2	101	1.1	<3	<3	82	.39	.054	7	29	.76	31	.06	3	2.50	.13	.05	<2	4
7+000S BL "	<1	25	3	60	<.3	57	30	365	4.46	10	<8	<2	<2	124	1.0	<3	<3	81	2.01	.103	5	70	2.56	87	.20	<3	4.61	.54	.64	<2	1
7+00S 0+25E "	2	84	29	155	.3	95	25	850	4.63	23	<8	<2	<2	154	1.7	<3	<3	116	.93	.056	6	176	2.27	57	.18	<3	5.63	.30	.18	<2	4
7+00S 0+50E "	2	46	41	97	.7	32	15	839	4.09	25	<8	<2	<2	106	.9	<3	<3	109	.56	.061	6	75	1.26	17	.11	<3	5.15	.19	.04	<2	9
7+00S 0+75E "	2	48	30	97	.7	42	18	790	4.35	19	<8	<2	<2	132	1.1	<3	<3	112	.98	.051	7	84	1.26	35	.13	<3	5.28	.21	.05	<2	8
7+00S 1+00E "	2	100	22	91	.6	58	22	550	4.83	20	<8	<2	<2	71	1.0	<3	<3	119	.49	.044	5	136	1.36	32	.22	<3	5.45	.13	.06	2	2
7+00S 1+25E (B) + T	2	194	4	124	.4	82	29	801	4.79	15	<8	<2	<2	144	1.9	<3	<3	104	1.44	.053	6	99	1.48	73	.21	5	5.48	.23	.14	<2	9
7+00S 1+50E (B)	1	292	5	105	<.3	48	45	582	6.13	29	<8	<2	<2	145	1.4	<3	<3	172	1.39	.033	5	57	2.32	61	.30	<3	7.50	.43	.13	<2	4
7+00S 1+75E "	2	160	9	87	<.3	31	22	373	6.14	18	<8	<2	2	23	.9	<3	<3	121	.26	.036	5	64	.96	33	.26	<3	5.24	.05	.04	<2	1
7+00S 2+00E "	1	210	6	118	<.3	45	27	1637	6.19	69	<8	<2	<2	180	1.6	<3	<3	130	1.35	.051	6	44	1.27	158	.25	<3	3.72	.12	.08	<2	12
8+000S 0+375W (A+B)	1	256	<3	67	.4	63	22	218	4.18	4	<8	<2	<2	148	1.0	<3	<3	103	1.40	.042	2	149	1.58	57	.27	<3	4.52	.22	.17	<2	1
8+000S 0+25W T	1	2977	10	347	5.8	100	53	499	6.57	14	<8	<2	<2	130	2.1	<3	<3	99	2.40	.037	2	167	2.20	65	.22	<3	4.39	.30	.44	2	38
8+000S 0+125W (A+B)	2	121	18	153	.8	56	20	1070	3.67	14	<8	<2	<2	231	1.4	<3	<3	72	2.28	.061	4	107	1.15	42	.13	<3	3.77	.34	.10	<2	6
8+000S BL (B)	1	55	45	139	.7	34	22	1209	5.43	23	<8	<2	<2	281	1.3	<3	<3	66	1.74	.071	6	59	.48	36	.05	4	2.97	.50	.06	<2	7
9+00S 1+00W "	3	120	11	31	.5	16	7	95	4.89	8	<8	<2	2	73	.8	<3	<3	145	.33	.031	3	56	.56	26	.37	5	2.41	.05	.04	<2	1
9+00S 0+875W "	3	195	6	61	<.3	99	24	193	4.32	54	<8	<2	<2	80	1.1	<3	<3	136	.82	.026	4	191	2.10	15	.45	<3	6.82	.14	.06	<2	3
9+00S 0+750W (A+B)	4	124	11	34	<.3	13	4	85	4.90	4	<8	<2	<2	90	.4	<3	<3	214	.37	.017	2	41	.30	20	.49	<3	1.39	.03	.04	<2	8
9+00S 0+625W (B) + T	1	6844	<3	629	18.4	87	95	758	7.47	4	<8	<2	2	144	3.3	<3	<3	60	4.16	.030	3	76	1.04	34	.13	3	3.03	.31	.17	5	204
9+00S 0+500W "	1	3868	3	399	10.8	70	73	847	6.62	9	<8	<2	2	125	2.0	<3	<3	56	4.14	.039	2	67	.93	34	.11	<3	2.69	.27	.11	2	89
9+00S 0+375W (B)	3	2039	3	243	4.2	35	38	480	5.44	7	<8	<2	2	83	1.5	<3	<3	111	2.08	.029	3	50	.56	24	.25	<3	1.88	.12	.06	<2	377
9+00S 0+250W "	2	215	11	85	.4	24	9	129	4.75	12	9	<2	2	21	.9	<3	<3	113	.20	.034	3	70	.35	15	.28	<3	3.54	.02	.02	<2	3
9+00S 0+125W ?	2	438	27	163	.8	29	18	320	4.16	6	<8	<2	<2	143	.5	<3	4	82	.93	.044	3	47	.57	42	.16	4	2.78	.09	.07	<2	11
STANDARD C3/AU-S	25	64	37	166	5.2	33	12	761	3.29	59	26	2	21	30	23.1	17	24	79	.54	.086	18	169	.59	152	.09	22	1.92	.04	.17	16	53
STANDARD G-2	2	6	3	43	<.3	9	5	512	1.98	<2	<8	<2	5	72	<.2	<3	5	41	.62	.094	8	76	.58	233	.13	<3	1.00	.07	.47	2	1

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ___ FA ____

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
9+00S BL (B)+T	2	3142	13	717	5.4	117	62	487	4.91	4	<8	<2	<2	295	5.1	<3	6	81	3.31	.035	2	103	1.47	62	.19	<3	5.09	.58	.38	<2	34
9+50S 0+750W (B)	2	242	3	76	.7	94	27	354	3.65	2	<8	<2	2	278	1.3	<3	4	101	1.36	.034	2	214	2.46	43	.24	4	5.92	.52	.13	<2	1
9+50S 0+625W "	2	328	6	58	1.7	43	14	208	5.34	12	<8	<2	<2	66	1.4	3	31	127	.40	.035	3	95	.35	43	.33	<3	3.94	.03	.02	18	2
RE 10+000S 0+750W "	2	652	5	61	.9	127	35	104	5.02	<2	<8	<2	2	59	1.3	<3	3	109	.29	.017	3	229	2.12	68	.32	3	7.14	.08	.17	<2	5
9+50S 0+500W (B)	3	609	7	50	1.9	41	18	308	3.71	9	<8	<2	<2	30	1.3	<3	12	83	.35	.048	3	83	.29	30	.19	<3	4.18	.02	.03	18	4
9+50S 0+375W (B)	4	1225	4	77	4.6	34	24	408	5.13	<2	<8	<2	2	23	1.2	<3	17	81	.38	.048	3	99	.34	31	.18	3	4.44	.02	.02	12	32
9+50S 0+250W (A+B)	2	1445	3	127	2.1	50	47	763	4.22	<2	<8	<2	2	41	1.5	<3	12	78	.57	.044	3	123	.72	21	.20	3	4.84	.08	.06	5	16
9+50S 0+125W (B)	2	256	7	39	1.9	18	4	135	5.61	5	<8	<2	2	14	1.1	<3	27	121	.44	.031	2	73	.16	12	.36	<3	1.74	.01	.02	14	11
9+50S BL "	2	354	3	352	1.4	37	38	778	5.55	<2	<8	<2	2	34	2.5	<3	<3	90	.50	.054	7	137	.52	31	.25	<3	5.28	.06	.04	2	12
10+000S 1+000W "	2	390	<3	87	.8	141	44	139	6.38	9	<8	<2	2	28	1.1	<3	<3	116	.24	.012	3	274	2.90	66	.40	3	7.50	.06	.19	<2	22
10+000S 0+875W "	2	340	3	80	.8	107	32	308	4.93	9	<8	<2	<2	70	1.2	<3	<3	95	.66	.026	2	207	2.17	65	.28	<3	5.74	.13	.25	<2	17
10+000S 0+750W "	2	645	4	62	.8	129	35	101	5.07	4	<8	<2	2	58	1.3	<3	<3	109	.29	.018	3	232	2.17	68	.31	<3	7.10	.09	.16	<2	10
10+000S 0+625W "	2	514	7	151	.8	99	128	1024	5.37	5	<8	<2	2	97	1.4	<3	<3	74	1.24	.053	3	153	1.64	81	.18	4	5.65	.10	.18	<2	2
10+000S 0+500W "	6	904	5	177	1.6	109	48	455	7.79	7	<8	<2	2	77	1.5	<3	7	104	1.42	.023	3	194	2.49	75	.32	3	5.12	.09	.19	<2	25
10+000S 0+375W "	5	1380	3	343	.9	98	35	299	7.47	9	<8	<2	2	71	1.7	<3	5	84	1.02	.017	2	196	2.59	44	.28	<3	5.77	.17	.16	<2	23
10+000S 0+250W "	5	1262	<3	242	1.6	115	53	519	7.33	2	<8	<2	<2	85	1.3	<3	<3	89	.96	.020	2	227	3.29	60	.31	<3	6.94	.18	.27	2	11
10+000S 0+125W "	4	843	5	201	1.1	94	29	221	6.00	5	10	<2	2	76	1.6	<3	<3	74	.95	.019	3	182	2.32	40	.24	<3	5.12	.16	.17	<2	6
10+000S BL "	3	850	<3	237	1.8	102	51	1537	5.06	3	<8	<2	<2	152	2.2	<3	<3	67	2.07	.036	2	187	2.51	65	.21	5	5.30	.29	.16	<2	2
BL 10+50 1+00W T	11	3629	<3	152	24.2	34	102	2607	7.10	16	<8	<2	2	24	1.2	<3	4	26	2.19	.054	6	24	.16	40	.04	<3	1.58	.01	.01	3	241
BL 10+50 0+875W (B)	24	1281	5	113	2.4	20	35	570	8.57	35	<8	<2	2	21	1.3	<3	<3	73	2.32	.038	3	38	.21	19	.10	<3	2.00	.02	.01	7	37
BL 10+50 0+75W "	9	723	4	96	1.2	19	19	679	5.68	25	<8	<2	<2	30	1.2	<3	<3	51	2.92	.035	2	29	.22	18	.04	<3	1.41	.02	.02	4	9
BL 10+50 0+62.5W "	2	1069	3	153	1.2	124	32	500	4.10	26	<8	<2	<2	254	1.3	<3	<3	92	2.76	.036	2	195	2.69	59	.21	3	5.51	.45	.50	<2	8
BL 10+50 0+50W "	3	2179	<3	471	1.2	143	42	393	5.21	25	<8	<2	2	96	1.6	<3	4	101	1.15	.024	4	210	2.64	44	.26	<3	6.11	.23	.16	<2	43
BL 10+50 0+37.5W "	5	1462	<3	250	.9	77	31	312	4.85	46	<8	<2	<2	39	1.0	<3	<3	87	.76	.033	4	133	1.29	18	.19	5	4.75	.09	.08	<2	4
BL 10+50 0+25W "	9	1125	4	241	1.1	59	34	980	5.30	31	<8	<2	<2	48	2.0	<3	13	91	1.40	.043	3	92	.45	34	.21	<3	2.61	.03	.03	2	3
10+50S 0+125W "	105	20395	<3	1452	31.5	179	195	1436	9.44	33	<8	<2	2	48	10.4	5	17	43	2.44	.048	4	55	.42	22	.08	4	2.18	.05	.03	9	48
10+50S BL "	24	7051	<3	697	21.6	105	94	1809	6.24	52	<8	4	<2	85	4.0	<3	19	36	3.84	.061	3	52	.50	37	.06	10	2.04	.09	.06	7	112
BL 11+00 1+00W "	9	1043	<3	167	1.2	191	47	775	6.19	12	10	<2	3	27	1.4	<3	<3	99	1.09	.020	4	443	3.78	37	.14	<3	4.45	.02	.06	<2	13
BL 11+00 0+87.5W (B)+T	4	5434	99	414	19.6	57	41	531	11.65	38	<8	<2	2	62	2.9	15	3	29	2.95	.050	3	44	.43	22	.04	5	1.65	.06	.03	6	360
BL 11+00 0+75W (B)	12	1582	9	579	3.2	141	35	428	6.03	55	9	<2	2	48	3.9	<3	4	73	1.17	.036	7	185	1.40	34	.07	<3	4.22	.03	.04	<2	10
BL 11+00 0+62.5W (B)	5	5202	9	554	11.5	107	67	1132	8.29	36	<8	<2	2	41	4.5	5	<3	37	4.55	.049	4	52	.52	25	.04	14	1.81	.03	.03	7	112
BL 11+00 0+50W "	6	7335	8	752	22.6	139	99	1737	11.96	46	<8	<2	2	43	5.7	<3	<3	37	5.08	.051	3	34	.44	28	.04	5	1.50	.03	.03	6	98
BL 11+00 0+37.5W T	6	7967	23	4170	19.1	171	139	922	8.20	462	<8	<2	2	63	25.6	6	10	34	3.07	.053	3	47	.48	25	.03	8	1.52	.04	.04	3	20
BL 11+00 0+25W (B)	4	4447	49	2722	44.3	43	45	561	14.49	610	<8	<2	2	22	13.0	6	40	30	3.23	.043	2	36	.40	22	.04	<3	1.27	.02	.03	8	357
BL 11+00 0+12.5W (B)	5	714	4	191	1.4	102	26	494	4.63	18	<8	<2	<2	50	1.2	<3	<3	79	1.78	.039	3	185	1.73	31	.09	<3	3.09	.10	.06	<2	7
STANDARD C3/AU-S	25	60	35	163	5.3	38	11	735	3.12	51	21	3	23	28	22.3	18	20	76	.52	.082	18	163	.55	150	.08	22	1.86	.04	.17	15	51
STANDARD G-2	1	6	<3	44	<.3	10	5	525	1.98	2	<8	<2	5	71	<.2	<3	<3	40	.62	.095	8	76	.59	231	.13	<3	.98	.07	.48	<2	1

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ✓ FA ____

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
BL 11+00 BL (B)	23	759	3	114	1.7	119	12	12201	3.71	16	<8	<2	<2	129	1.3	<3	6	24	1.54	.125	8	47	.15	104	.03	4	1.51	.06	.02	2	15
RE 12+000S 0+750W "	8	7085	24	270	26.1	64	62	1325	9.79	479	<8	<2	3	24	1.0	10	9	72	3.01	.082	4	23	.63	20	.12	<3	1.84	.05	.08	<2	383
BL 11+50 0+50W "	13	230	9	112	1.5	28	27	2858	5.92	16	<8	<2	2	31	.3	<3	<3	72	.72	.047	3	64	.29	29	.10	<3	1.78	.02	.07	<2	106
BL 11+50 0+37.5W T	11	351	8	115	2.2	48	28	723	6.43	34	<8	<2	2	19	.2	<3	6	104	.45	.046	2	120	.60	29	.18	<3	4.29	.02	.02	<2	69
BL 11+50 0+25W (B)	8	185	9	47	.8	18	8	666	5.54	22	9	<2	2	17	.7	<3	9	93	.49	.040	2	70	.32	22	.19	<3	1.40	.02	.02	<2	10
BL 11+50 0+12.5W (B)	10	1063	7	158	3.5	52	32	1567	8.07	39	<8	<2	3	24	.2	<3	9	104	.63	.052	4	116	.44	32	.14	<3	3.90	.02	.02	2	120
BL 11+50 BL ← (B)	12	846	11	83	2.5	32	14	592	8.10	37	<8	<2	2	17	<.2	<3	7	108	.42	.074	3	123	.32	16	.15	<3	3.12	.01	.01	<2	36
12+000S 2+000W "	5	261	<3	270	2.7	56	65	780	4.17	41	<8	<2	3	51	1.3	<3	3	76	1.06	.061	10	142	.74	41	.13	<3	6.74	.07	.05	2	1
12+000S 1+875W (B+A)	9	778	6	272	2.0	126	43	840	4.59	36	<8	<2	3	43	1.1	<3	<3	101	1.08	.043	9	264	2.04	43	.15	7	5.69	.06	.08	<2	12
12+000S 1+375W T	5	527	4	83	2.6	19	21	1507	7.05	11	<8	<2	2	19	<.2	<3	<3	30	5.24	.057	1	17	.90	18	.02	<3	.96	.01	.01	4	86
12+000S 1+250W (B)	16	2637	6	66	9.1	42	53	2118	8.04	14	<8	<2	3	10	<.2	<3	8	77	1.74	.067	4	116	.30	12	.09	<3	3.27	.02	.02	<2	106
12+000S 1+125W T	18	14439	15	430	58.2	127	111	1299	17.00	515	<8	<2	3	8	1.4	30	10	32	6.73	.037	2	15	.10	12	.02	<3	.98	<.01	.02	4	1341
12+000S 1+000W T	14	7310	3	230	27.0	47	63	1773	13.05	431	<8	<2	3	6	1.2	13	11	37	6.75	.057	3	21	.10	8	.03	<3	1.06	<.01	.02	6	540
12+000S 0+750W T	8	7189	29	272	25.1	61	63	1310	9.92	475	<8	<2	3	23	.5	13	<3	73	3.09	.083	5	24	.64	21	.13	<3	1.90	.05	.08	<2	460
12+000S 0+625W (B)	3	369	6	66	.6	18	11	393	5.39	14	11	<2	3	10	.4	<3	5	142	.17	.044	4	39	.70	26	.25	<3	2.72	.02	.04	<2	3
12+000S 0+500W T	4	149	9	157	.3	37	29	1416	6.08	25	<8	<2	3	27	.6	<3	<3	127	.25	.065	7	41	1.49	83	.25	<3	4.38	.02	.05	<2	23
12+000S 0+375W (B)	3	235	6	114	1.2	28	11	362	7.01	28	<8	<2	4	8	.2	<3	4	153	.10	.044	5	73	.83	48	.28	<3	6.34	.02	.02	<2	5
12+000S 0+250W (B)	3	122	11	98	.3	25	8	266	6.74	30	<8	<2	3	8	<.2	<3	<3	158	.07	.036	4	68	.64	29	.23	<3	5.11	.01	.02	<2	1
12+000S 0+125W (B)	3	91	6	73	.4	17	7	242	8.06	26	<8	<2	3	6	<.2	<3	4	201	.08	.038	6	70	.51	13	.30	<3	4.04	.02	.02	<2	2
12+000S BL (B)	3	122	15	89	.3	14	8	241	5.87	52	<8	<2	3	10	<.2	<3	3	133	.08	.042	4	42	.61	22	.22	<3	5.01	.02	.03	<2	2
STANDARD C3/AU-S	26	65	33	172	5.6	35	12	794	3.38	56	32	<2	23	29	24.6	15	25	80	.55	.092	18	170	.62	158	.09	16	1.96	.04	.17	16	53
STANDARD G-2	1	7	6	44	<.3	8	5	530	1.98	2	<8	<2	6	72	<.2	<3	<3	41	.63	.098	8	78	.60	221	.13	<3	.97	.07	.48	2	1

Sample type: SOIL. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

APPENDIX III

ANALYTICAL PROCEDURES

SUMMARY

Gold was analyzed using wet extraction and Graphite Furnace Atomic Absorption. The sample charge in this method is a 0.00002 ml organic extract (methyl isobutyl ketone). The charge is prepared by wet extraction from a 10 gram sample pulp. This method is considered adequate for low level gold content (< 1000 ppb).

ICP emission spectrograph was used for the analysis of the other elements. A solution charge is obtained through the preparation stage and digestion of 0.50 gram pulp in Aqua Regia. The instrument analyzes the content of 30 elements in each charge. The silver and base metal content was reported in ppm. The method is considered reliable where concentrations do not exceed 5,000 ppm. Check copper and zinc assays were done by the same method for selected samples that assayed more than 5,000 ppm Cu and 10,000 ppm Zn. Adequate matching of assays was obtained. A larger pulp size was used during the check analyses. All samples containing more than 15,000 ppm copper (1.5 %) were re-assayed. All of the check assays were reported in percent on the Assay Certificates.

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4662909

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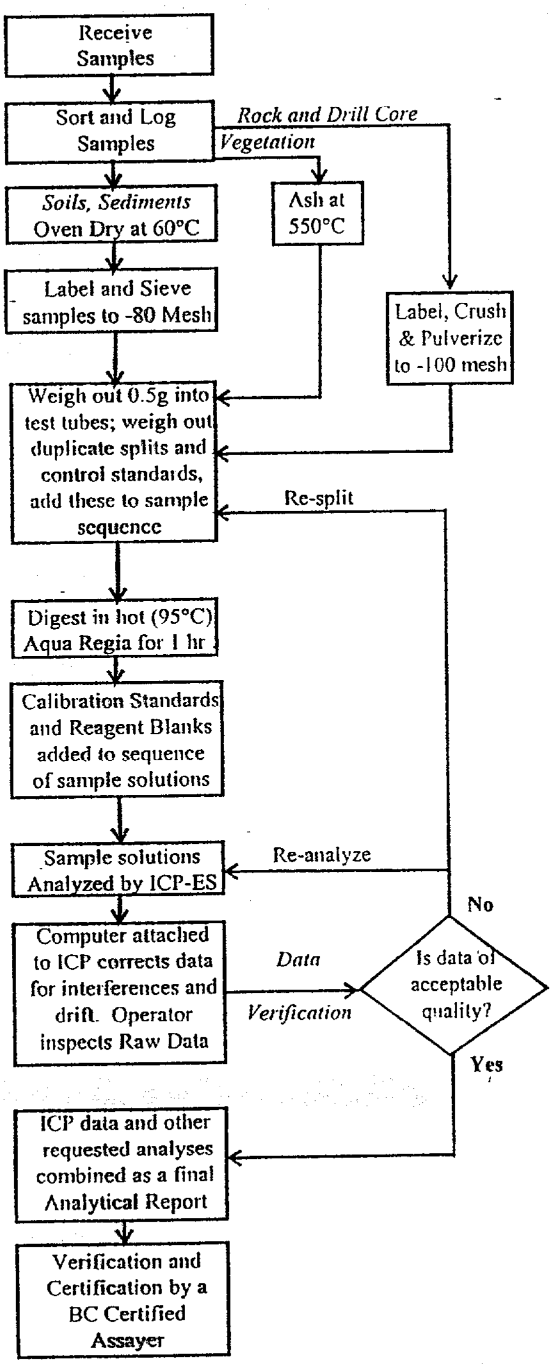
Methods and Specifications for Analytical Package
Group 1D - 30 Element ICP by Aqua Regia

Analytical Process



Comments

Sample Preparation

Soils and sediments are dried (60°C) and sieved to -80 mesh (-177 microns), rocks and drill core are crushed and pulverized to -100 mesh (-150 microns). Plant samples are dried (60°C) and pulverized or dry ashed (550°C). Moss-mat samples are dried (60°C), pounded to loosen trapped sediment then sieved to -80 mesh. At the clients request, moss mats can be ashed at 550°C then sieved to -80 mesh although this can result in the potential loss by volatilization of Hg, As, Sb, Bi and Cr. A 0.5 g split from each sample is placed in a test tube. A duplicate split is taken from 1 sample in each batch of 34 samples for monitoring precision. A sample standard is added to each batch of samples to monitor accuracy.

Sample Digestion

Aqua Regia is a 3:1:2 mixture of ACS grade conc. HCl, conc. HNO_3 and demineralized H_2O. Aqua Regia is added to each sample and to the empty reagent blank test tube in each batch of samples. Sample solutions are heated for 1 hr in a boiling hot water bath (95°C).

Sample Analysis

Sample solutions are aspirated into and ICP emission spectrograph (Jarrel Ash AtomComp model 800 or 975) for the determination of 30 elements comprising: Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, Ti, U, V, W, Zn.

Data Evaluation

Raw and final data from the ICP-ES undergoes a final verification by a British Columbia Certified Assayer who then signs the Analytical Report before it is released to the client. Chief Assayer is Clarence Leong, other certified assayers are Dean Toye and Jacky Wang.

Document: ICP30M&S.doc	Date: November 15, 1995	Prepared By: J. Gravel

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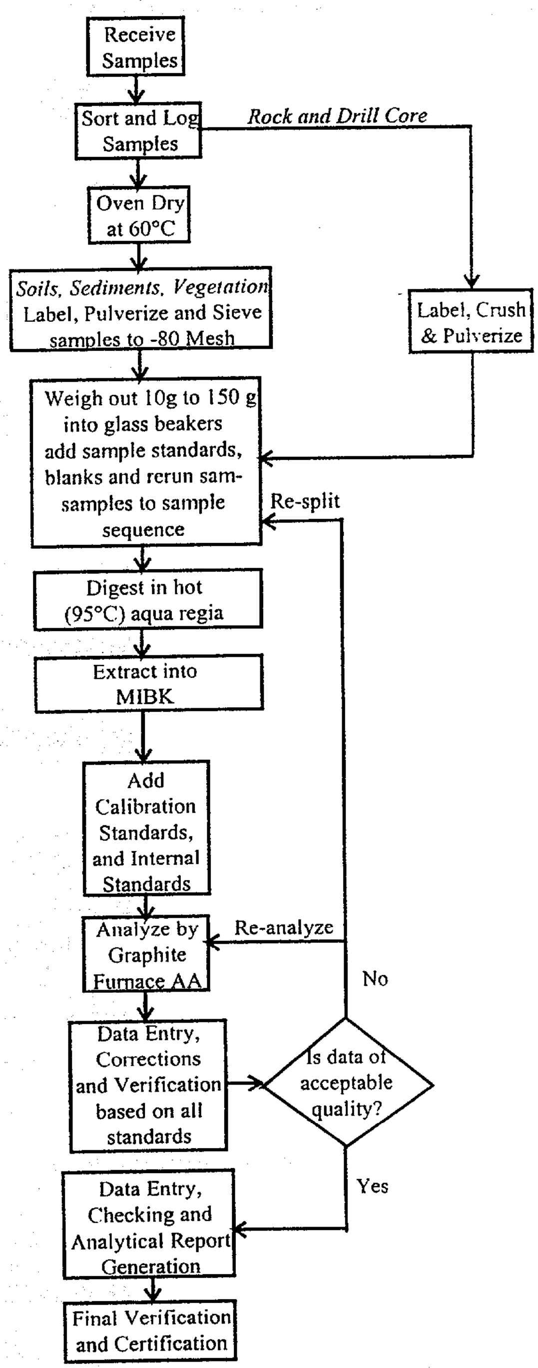
METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE
GROUP 3A - AU BY WET EXTRACTION

Analytical Process



Comments

Sample Preparation

Soils and sediments are dried (60°C) and sieved to -80 mesh (-177 microns), rocks and drill core are crushed and pulverized to -100 mesh (-150 microns). Plant samples are dried (60°C) and pulverized or ashed (550°C). Sediment in moss mats is recovered by disaggregation then sieved to -80 mesh. A precise quantity of the fine fraction (client may select from 10 g to 150 g sample weights) is weighed. In every analytical batch (34 samples) a duplicate split is added from a randomly selected sample to monitor precision. Reference materials (in-house control standards) are also added to each batch to monitor accuracy.

Sample Digestion and Extraction

Aqua Regia is a 3:1:2 mixture of ACS grade conc. HCl, conc. HNO_3 and demineralized H_2O. Aqua Regia is added to each sample and to the empty reagent blank test tube in each batch of samples. Sample solutions are heated for 1 hr in a boiling hot water bath (95°C). After cooling, MIBK is added and the samples are shaken to extract Au into the MIBK phase.

Sample Analysis

Sample extracts are aspirated into a graphite furnace AAS (Varian model SpectrAA 10Plus) for the determination of Au.

Data Evaluation

Raw and final data from the undergoes a final verification by a British Columbia Certified Assayer who then signs the Analytical Report before it is released to the client. Chief Assayer is Clarence Leong, other certified assayers are Dean Toye and Jacky Wang.

Document: meth3A.doc	Date: January 31, 1997	Prepared By: J. Gravel

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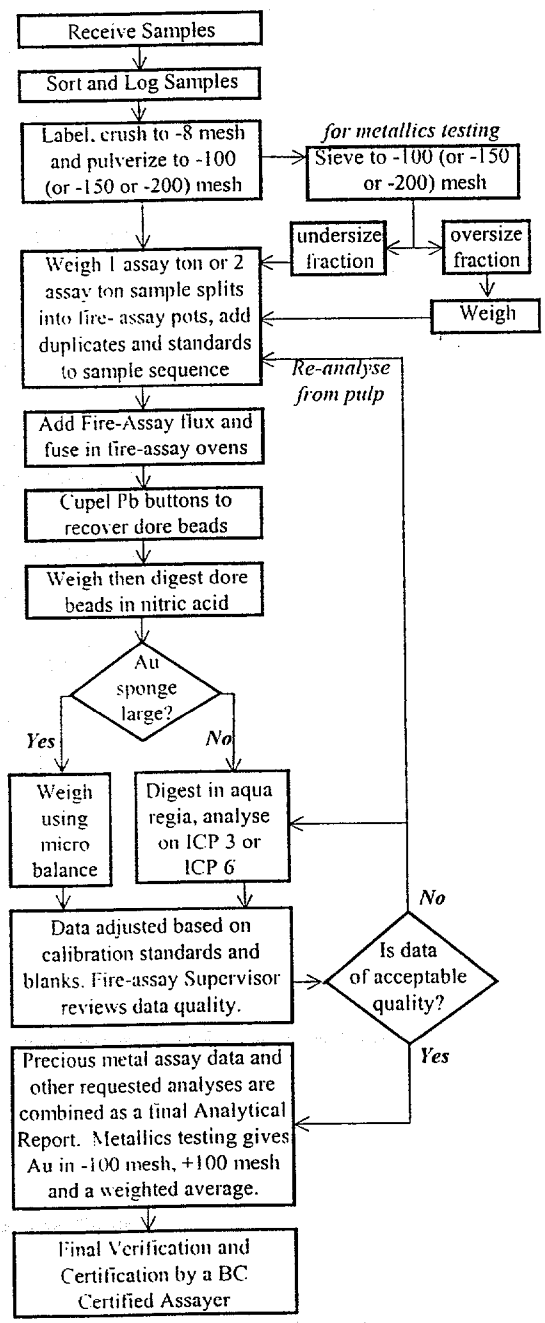
METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE
GROUP 6 - PRECIOUS METAL ASSAY

Analytical Process



Comments

Sample Preparation

Rocks and drill core are crushed to -8 mesh (-0.25 cm), riffle split to 250 g splits then pulverized to -100 mesh (-150 or -200 at client's request). Duplicates of crushed (rejects) and pulverized (pulp) material are added in each analytical batch (34 samples) to monitor sample inhomogeniety and analytical precision, respectively. One assay ton (29.2 ±0.01g) or two assay ton (58.4 ±0.01g) splits are weighed. High-grade gold standard STD Au-1 (Ag-2 if Ag assay requested) and a blank are added to each analytical batch to monitor accuracy. Results are reported in imperial (oz/t) or metric (gm/tonne) measure. For metallics testing, a 1Kg (or larger) split is pulverized and sieved to -100 mesh (-150 or -200 mesh at client's request). A representative 1 or 2 assay ton split of the undersize (-100, -150 or -200 mesh) fraction is assayed. Material remaining in the sieve (oversize fraction) is collected, weighed and assayed in total.

Sample Digestion

Fusing at 1000°C for 1 hour with fire-assay fluxes containing a PbO litharge and Ag inquart liberates all Au, Pt and Pd. After cooling, lead buttons are recovered and cupelled at 950°C to render Ag ±Au ±Pt ±Pd dore beads. Beads are weighed then leached in 1 mL of conc. HNO_3 at >95°C to dissolve Ag leaving Au sponges.

Sample Analysis

Large Au sponges >2 mm weighed by micro-balance (gravimetric determination). Small flakes are digested by adding 6 mL of 50% HCl to the HNO_3 solution then determined by ICP-ES (Jarrel Ash Atom-Comp model 800 or 975). Pt and Pd are also determined by ICP-ES. Every Ag fire assay is accompanied by a wet assay. Ag concentrations <10 oz/t are reported from the wet assay, results >10 oz/t are from the fire assay. Au metallics testing reports concentrations of Au in the -100 mesh fraction, the +100 mesh fraction and the calculated weighted average of these fractions.

Data Evaluation

Raw and final data undergoes a final verification by a British Columbia Certified Assayer who then signs the Analytical Report before it is released to the client. Chief Assayer is Clarence Leong, other certified assayers are Dean Toye and Jacky Wang.

Document: AssayAu.doc	Date: March 5, 1997	Prepared By: J. Gravel

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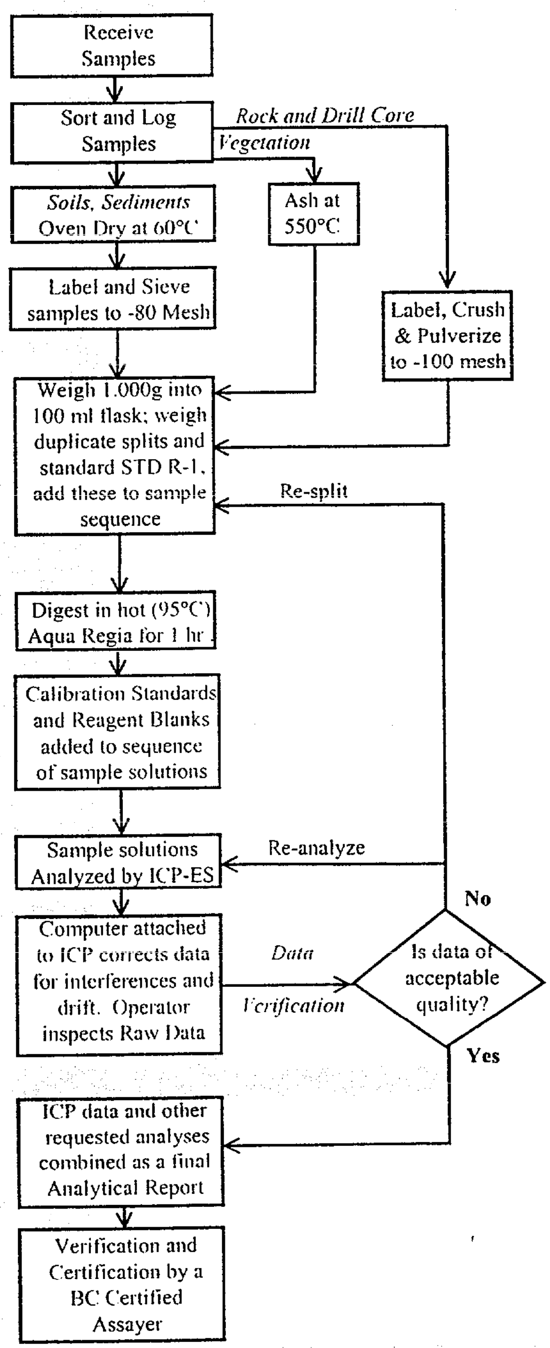
METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE
GROUP 8 - WET ASSAY FOR COPPER, Lead, Zinc, Co, Ni.

Analytical Process



Comments

Sample Preparation

Soils and sediment samples are rarely assayed, however the procedure is provided for completeness. Assaying is recommended for rocks and drill core where concentrations exceed 5000 ppm. Rocks are crushed to -8 mesh (-0.25 cm) prior to riffle splitting. 250 g splits are pulverized to -100 mesh. A reject duplicate split and pulp duplicate split is taken from one sample in every 34. These measure the subsampling error due to sample inhomogeniety (reject split) and precision of the analysis (pulp split). Precisely 1.000 ±0.002g of pulp are added to 100 ml volumetric flasks. Standard STD R-1 and a blank are added to each batch of 34 samples during weighing to monitor accuracy.

Sample Digestion

30 ml of Aqua Regia (3:1:2 ACS grade conc. HCl, conc. HNO_3 and demineralized H_2O) is added to each flask. Sample solutions are heated for 1 hr in a boiling water bath (95°C) then cooled for 3 hrs. Demineralized H_2O is added to bring the volume to the 100 ml mark.

Sample Analysis

Sample solutions are aspirated into and ICP emission spectrograph (Jarrel Ash AtomComp model 800 or 975) for the determination of Cu. A concentrated Cu solution standard is analysed together with the samples to monitor accuracy.

Data Evaluation

Raw and final data from the ICP-ES undergoes a final verification by a British Columbia Certified Assayer who then signs the Analytical Report before it is released to the client. Chief Assayer is Clarence Leong, other certified assayers are Dean Toye and Jacky Wang.

Document: AssayCu.doc	Date: November 20, 1995	Prepared By: J. Gravel

APPENDIX IV

SOIL GEOCHEMISTRY STATISTICS

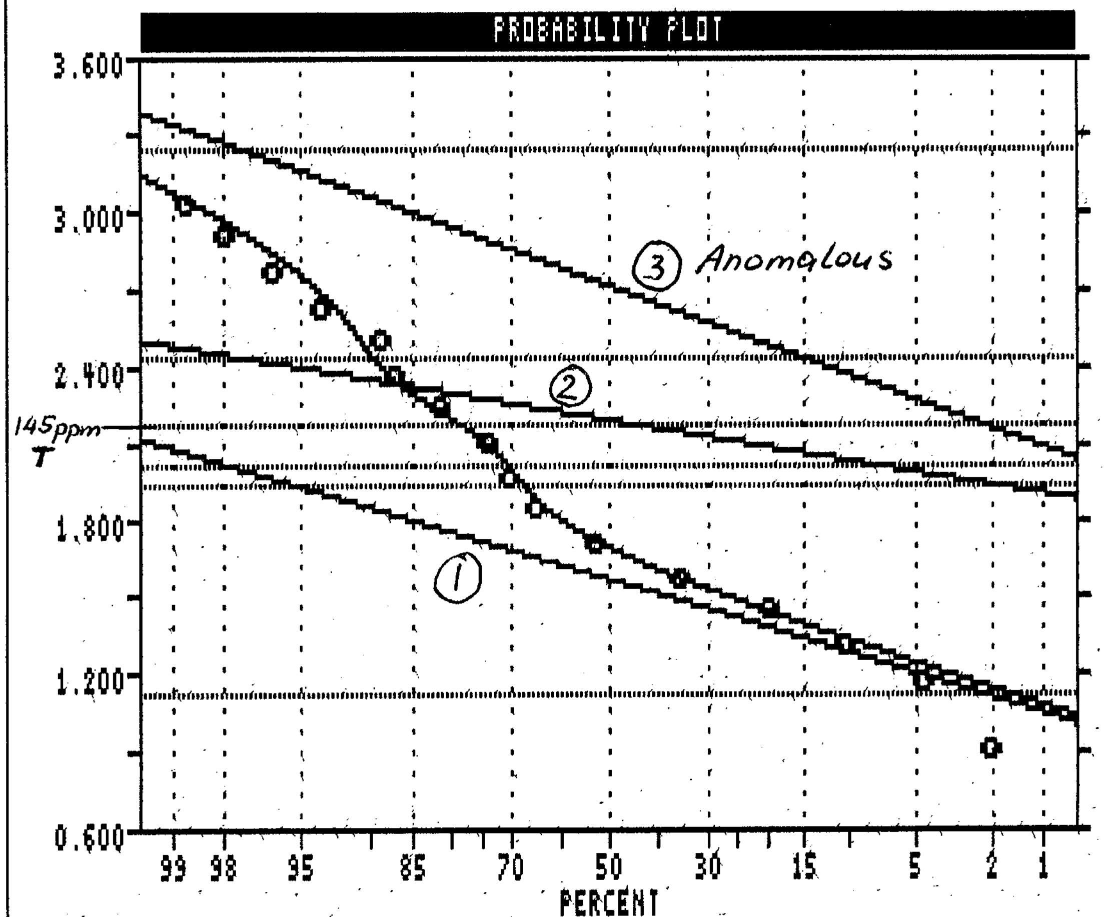
SUMMARY

Probability plots were constructed using best fitting curves with the aid of PROBPLOT computer software (Stanley, C.R. 1987) to establish the number and the parameters of sub-populations (called "populations" below). Trimodal lognormal distribution curves defined most of the data sets very well. There were generally 2 background and 1 anomalous populations in each data set. Thresholds were calculated for each population as T = mean +/- 2 standard deviations. Anomalous population thresholds were selected accordingly with consideration given to population overlap. Third quartile value was used for single lognormal population of gold values on the Grid # 2. The 11 ppb value defined an anomaly ? coincident with copper, zinc and silver anomalies which were defined by polymodal distributions.

Appendix IV

```
################################################################################
SUMMARY STATISTICS and HISTOGRAM                               LOGARITHMIC VALUES

 Variable = COPPER              Unit =      PPM                    N =    120

     Mean =     1.8088           Min =    0.8451  1st Quartile =    1.5185
Std. Dev. =     0.4633           Max =    3.5023        Median =    1.6902
     CV % =    25.6152      Skewness =    0.8348  3rd Quartile =    2.1399

        Anti-Log Mean =     64.390     Anti-Log Std. Dev. : (-)    22.156
                                                            (+)   187.134

================================================================================
  %    cum %    antilog  cls int  (# of bins = 21   -  bin size =    0.1329)
-----  -----   --------  -------  ---------------------------------------------
 0.00  0.41      6.007    0.7787
 1.67  2.07      8.157    0.9115  *
 0.00  2.07     11.076    1.0444
 2.50  4.55     15.040    1.1772  **
 5.83 10.33     20.422    1.3101  *****
 9.17 19.42     27.731    1.4430  ********
15.83 35.12     37.655    1.5758  *************
17.50 52.48     51.131    1.7087  ***************
12.50 64.88     69.430    1.8415  ***********
 5.00 69.83     94.277    1.9744  ****
 4.17 73.97    128.016    2.1073  ****
 7.50 81.40    173.830    2.2401  ******
 5.83 87.19    236.039    2.3730  *****
 1.67 88.84    320.511    2.5058  *
 5.00 93.80    435.214    2.6387  ****
 2.50 96.28    590.966    2.7716  **
 1.67 97.93    802.458    2.9044  *
 0.83 98.76   1089.637    3.0373  *
 0.00 98.76   1479.590    3.1701
 0.00 98.76   2009.098    3.3030
 0.00 98.76   2728.103    3.4359
 0.83 99.59   3704.421    3.5687  *
--------------------------------------------------------------------------------
                                  0         1         2         3         4

################################################################################
```

VREKA 1998 SOIL GEOCHEMISTRY - GRID #1



LOGARITHMIC VALUES

VARIABLE = COPPER
UNIT = PPM
N = 120
N CI = 21

POPULATIONS

Pop.	Mean	Std.Dev.	%
1	1.5568	0.2245	70.0
2	2.1826	0.1254	18.0
3	2.6982	0.2677	12.0

Pop.	THRESHOLDS	
1	1.1078	2.0058
2	1.9319	2.4334
3	2.1627	3.2337

USERS VISUAL
PARAMETER ESTIMATES

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = Y-4EL.PP

Variable = COPPER Unit = PPM N = 120
N CI = 21

Transform = Logarithmic Number of Populations = 3

# of Missing Observations = 0.

==

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	36.043	-	21.494	70.00
		+	60.440	
2	152.275	-	114.090	18.00
		+	203.239	
3	499.117	-	269.449	12.00
		+	924.547	

==

Default Thresholds.

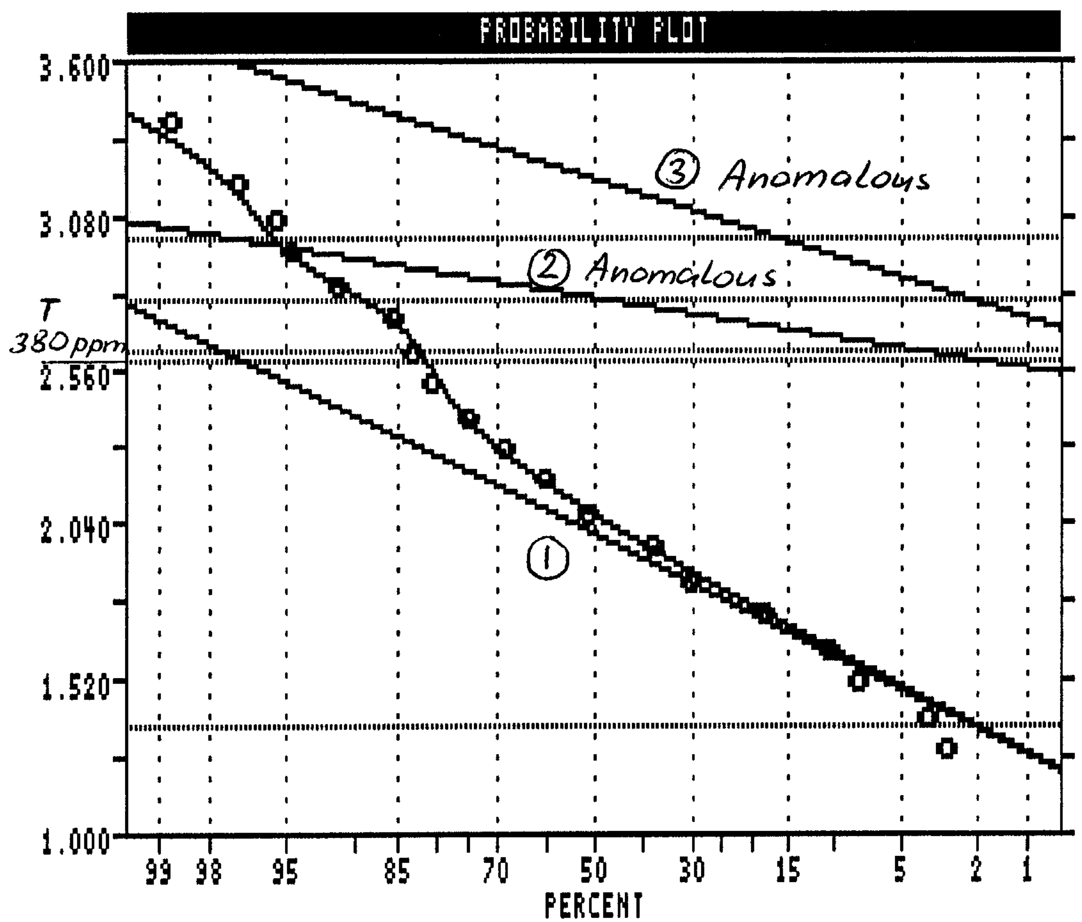
Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	12.818	101.351
2	85.481	271.260
3	145.462	1712.597

##

```
################################################################################
SUMMARY STATISTICS and HISTOGRAM                              LOGARITHMIC VALUES

 Variable = ZINC                Unit =      PPM                    N =    120

     Mean =     2.1405           Min =     1.2304   1st Quartile =     1.8062
Std. Dev. =     0.4679           Max =     3.4651         Median =     2.0645
     CV % =    21.8572      Skewness =     0.5845   3rd Quartile =     2.4298

        Anti-Log Mean =    138.208      Anti-Log Std. Dev. : (-)     47.062
                                                             (+)    405.876

================================================================================
  %    cum %    antilog  cls int  (# of bins = 21   -  bin size =    0.1117)
 ----- -----   --------  -------  ----------------------------------------------
  0.00  0.41     14.948   1.1746
  2.50  2.89     19.334   1.2863  **
  0.83  3.72     25.006   1.3980  *
  4.17  7.85     32.343   1.5098  ****
  2.50 10.33     41.832   1.6215  **
  7.50 17.77     54.106   1.7332  ******
 12.50 30.17     69.980   1.8450  ***********
  7.50 37.60     90.512   1.9567  ******
 13.33 50.83    117.068   2.0684  ***********
  9.17 59.92    151.415   2.1802  ********
  8.33 68.18    195.840   2.2919  *******
  6.67 74.79    253.299   2.4036  ******
  5.83 80.58    327.616   2.5154  *****
  2.50 83.06    423.737   2.6271  **
  2.50 85.54    548.060   2.7388  **
  5.83 91.32    708.860   2.8506  *****
  3.33 94.63    916.837   2.9623  ***
  0.83 95.45   1185.834   3.0740  *
  1.67 97.11   1533.754   3.1858  *
  0.00 97.11   1983.753   3.2975
  1.67 98.76   2565.780   3.4092  *
  0.83 99.59   3318.572   3.5210  *
 -------------------------------------------------------------------------------
                                  0         1         2         3         4

################################################################################
```

VREKA 1998 SOIL GEOCHEMISTRY - GRID #1



LOGARITHMIC VALUES

VARIABLE = ZINC
UNIT = PPM
N = 120
N CI = 21

POPULATIONS

Pop.	Mean	Std.Dev.	%
①	1.9817	0.3153	83.0
②	2.7926	0.1064	12.0
③	3.1944	0.2010	5.0

Pop.	THRESHOLDS	
1	1.3511	2.6122
2	2.5798	3.0055
3	2.7924	3.5965

USERS VISUAL
PARAMETER ESTIMATES

15:08:02 YREKA 1998 SOIL GEOCHEMISTRY - GRID #1 05/21/98

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = Y-4EL.PP

Variable = ZINC Unit = PPM N = 120
N CI = 21

Transform = Logarithmic Number of Populations = 3

# of Missing Observations = 0.

==

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	95.865	-	46.388	83.00
		+	198.115	
2	620.337	-	485.526	12.00
		+	792.578	
3	1564.682	-	984.941	5.00
		+	2485.660	

==

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	22.446	409.427
2	380.013	1012.645
3	620.004	3948.731

##

##

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = SILVER Unit = PPM N = 65

Mean =	-0.2220	Min =	-0.5229	1st Quartile =	-0.5229
Std. Dev. =	0.3362	Max =	1.2455	Median =	-0.3010
CV % =	151.4388	Skewness =	1.7411	3rd Quartile =	-0.0969

Anti-Log Mean = 0.600 Anti-Log Std. Dev. : (-) 0.277
(+) 1.301

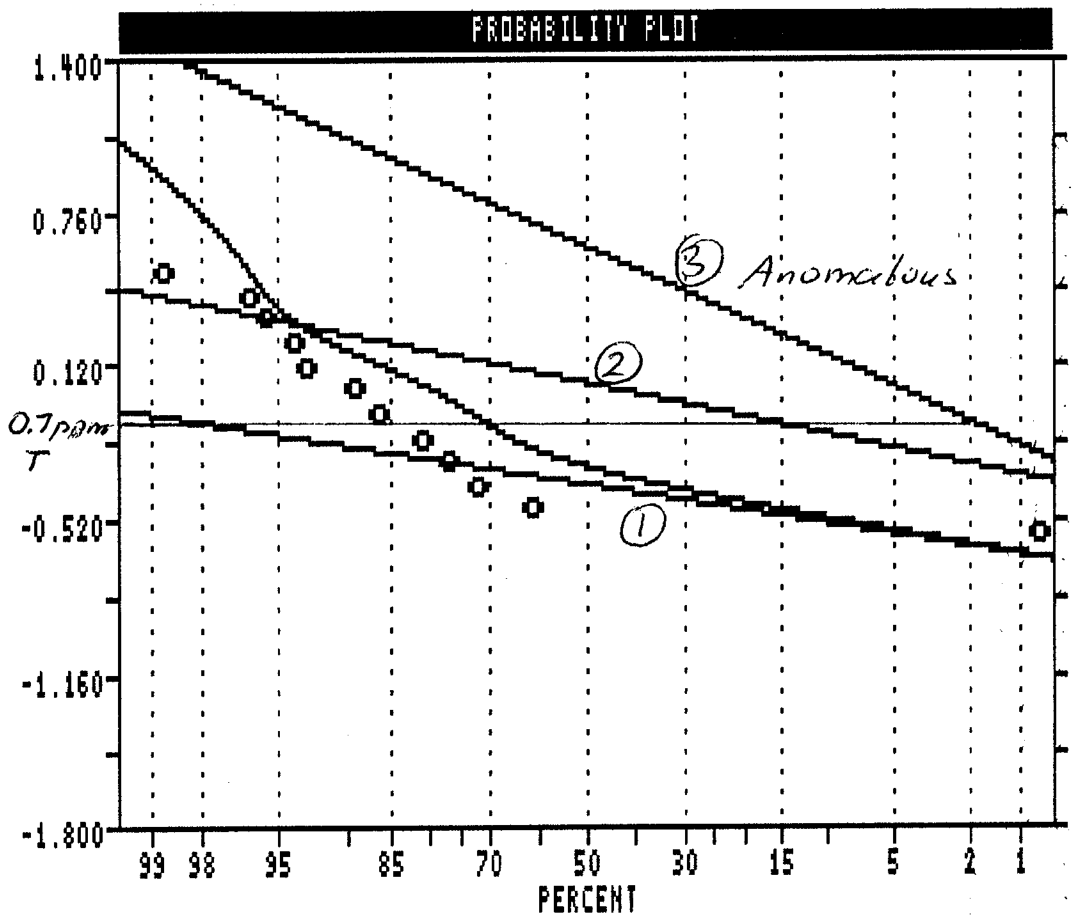
==

%	cum %	antilog	cls int	(# of bins = 19 - bin size = 0.0982)
0.00	0.76	0.268	-0.5720	
27.69	28.03	0.336	-0.4738	******************
20.00	47.73	0.421	-0.3755	*************
9.23	56.82	0.528	-0.2773	******
7.69	64.39	0.662	-0.1790	*****
10.77	75.00	0.830	-0.0808	*******
4.62	79.55	1.041	0.0175	***
7.69	87.12	1.305	0.1157	*****
1.54	88.64	1.637	0.2140	*
3.08	91.67	2.052	0.3122	**
1.54	93.18	2.573	0.4104	*
4.62	97.73	3.226	0.5087	***
0.00	97.73	4.045	0.6069	
0.00	97.73	5.072	0.7052	
0.00	97.73	6.359	0.8034	
0.00	97.73	7.974	0.9017	
0.00	97.73	9.998	0.9999	
0.00	97.73	12.536	1.0981	
0.00	97.73	15.718	1.1964	
1.54	99.24	19.708	1.2946	*

0 1 2 3 4

##

YREKA 1998 SOIL GEOCHEMISTRY - GRID #1



LOGARITHMIC VALUES
=========== ======

VARIABLE = SILVER
UNIT = PPM
N = 65
N CI = 19

POPULATIONS
===========

Pop.	Mean	Std.Dev.	%
①	-0.3939	0.1272	67.0
②	0.0232	0.1608	27.0
③	0.6054	0.3600	6.0

USERS VISUAL
PARAMETER ESTIMATES

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = Y-4EL.PP

Variable = SILVER Unit = PPM N = 65
N CI = 19

Transform = Logarithmic Number of Populations = 3

# of Missing Observations = 55.

Lower Truncation Correction of 46 percent.

==

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	0.404	-	0.301	67.00
		+	0.541	
2	1.055	-	0.728	27.00
		+	1.528	
3	4.031	-	1.759	6.00
		+	9.235	

==

Default Thresholds.

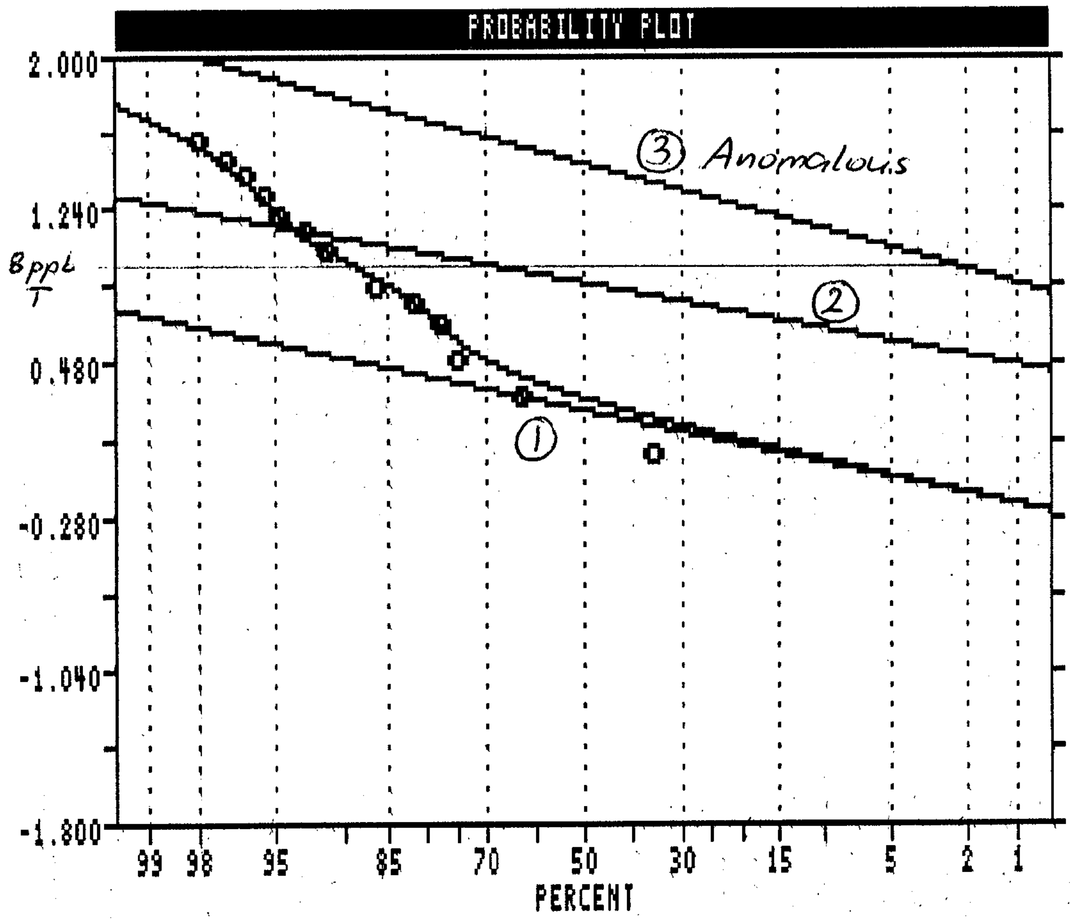
Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	0.225	0.725
2	0.503	2.212
3	0.768	21.157

##

```
15:18:49          YREKA 1998 SOIL GEOCHEMISTRY - GRID #1            05/21/98

##########################################################################
SUMMARY STATISTICS and HISTOGRAM                        LOGARITHMIC VALUES

 Variable = GOLD              Unit =     PPB                 N =    112

     Mean =     0.4171         Min =    0.0000   1st Quartile =    0.0000
Std. Dev. =     0.4174         Max =    1.7993         Median =    0.3010
     CV % =   100.0757    Skewness =    1.1832   3rd Quartile =    0.6021

        Anti-Log Mean =       2.613     Anti-Log Std. Dev. : (-)     0.999
                                                            (+)     6.832

==========================================================================
  %    cum %    antilog  cls int  (# of bins = 21  -  bin size =  0.0900)
----- -----    -------- --------  --------------------------------------
 0.00  0.44      0.902  -0.0450
30.36 30.53      1.109   0.0450   ************************
 0.00 30.53      1.364   0.1350
 0.00 30.53      1.678   0.2249
29.46 59.73      2.065   0.3149   ***********************
 0.00 59.73      2.540   0.4049
13.39 73.01      3.125   0.4948   ***********
 0.00 73.01      3.844   0.5848
 2.68 75.66      4.729   0.6748   **
 4.46 80.09      5.817   0.7647   ****
 5.36 85.40      7.156   0.8547   ****
 0.00 85.40      8.803   0.9447
 5.36 90.71     10.830   1.0346   ****
 1.79 92.48     13.323   1.1246   *
 1.79 94.25     16.389   1.2146   *
 0.89 95.13     20.161   1.3045   *
 0.89 96.02     24.802   1.3945   *
 0.89 96.90     30.511   1.4845   *
 0.89 97.79     37.534   1.5744   *
 0.00 97.79     46.173   1.6644
 0.00 97.79     56.801   1.7544
 1.79 99.56     69.875   1.8443   *
--------------------------------------------------------------------------
                                  0        1         2         3         4

##########################################################################
```

VREKA 1998 SOIL GEOCHEMISTRY - GRID #1



LOGARITHMIC VALUES
=========== ======

VARIABLE = GOLD
UNIT = PPB
N = 112
N CI = 21

POPULATIONS
===========

Pop.	Mean	Std.Dev.	%
①	0.2223	0.1979	76.0
②	0.8525	0.1750	18.0
③	1.4397	0.2563	6.0

USERS VISUAL
PARAMETER ESTIMATES

17:01:30 YREKA 1998 SOIL GEOCHEMISTRY - GRID #1 05/21/98

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = Y-4EL.PP

Variable = GOLD Unit = PPB N = 112
N CI = 21

Transform = Logarithmic Number of Populations = 3

# of Missing Observations = 8.

Lower Truncation Correction of 7 percent.

==

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	1.668	-	1.058	76.00
		+	2.632	
2	7.121	-	4.759	18.00
		+	10.654	
3	27.523	-	15.254	6.00
		+	49.660	

==

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	0.671	4.152
2	3.181	15.939
3	8.455	89.601

##

##

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = COPPER Unit = PPM N = 187

Mean =	1.9379	Min =	0.3010	1st Quartile =	1.5218
Std. Dev. =	0.6252	Max =	4.3095	Median =	1.6989
CV % =	32.2646	Skewness =	0.9420	3rd Quartile =	2.3684

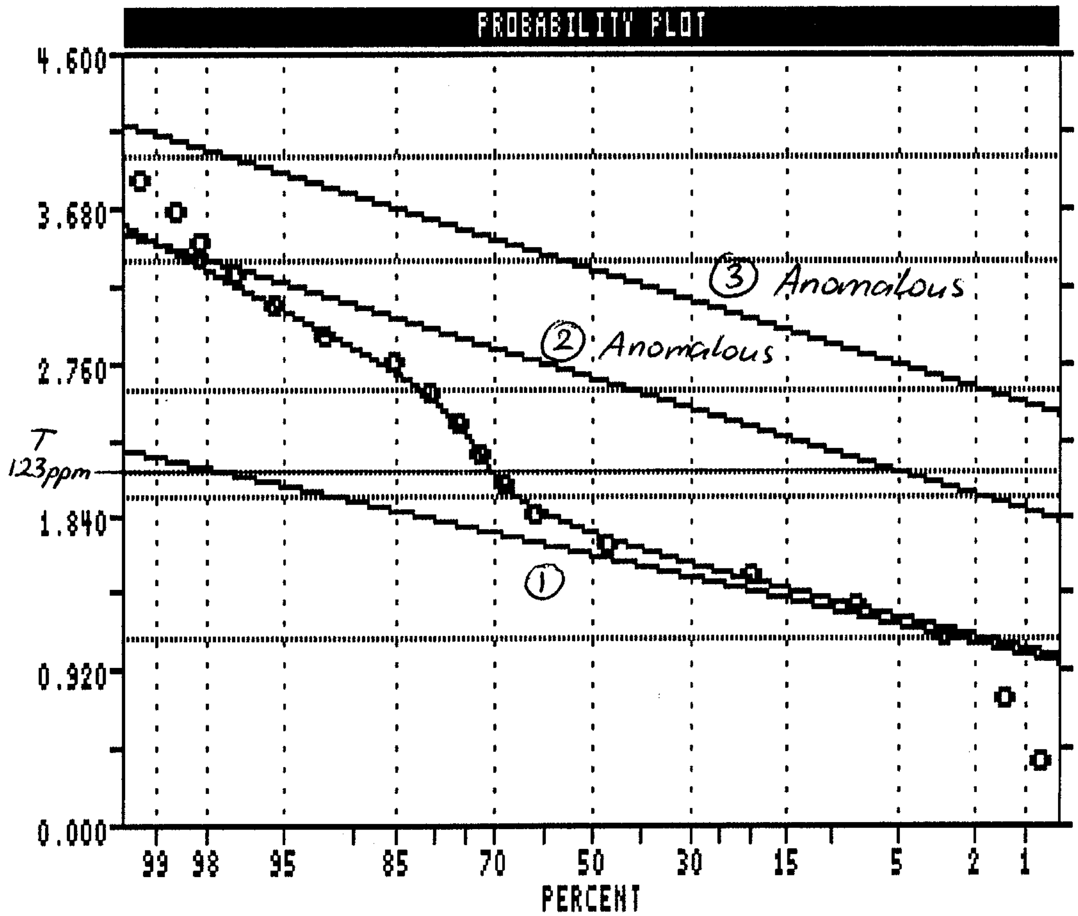
Anti-Log Mean = 86.668 Anti-Log Std. Dev. : (-) 20.541
(+) 365.678

%	cum %	antilog	cls int	(# of bins = 23 - bin size = 0.1822)
0.00	0.27	1.622	0.2099	
0.53	0.80	2.467	0.3921	*
0.00	0.80	3.753	0.5743	
0.53	1.33	5.709	0.7565	*
0.00	1.33	8.685	0.9387	
1.60	2.93	13.211	1.1209	**
4.81	7.71	20.098	1.3032	******
11.76	19.41	30.574	1.4854	****************
27.27	46.54	46.512	1.6676	************************************
14.97	61.44	70.756	1.8498	********************
6.42	67.82	107.639	2.0320	********
4.28	72.07	163.748	2.2142	******
3.74	75.80	249.103	2.3964	*****
4.81	80.59	378.951	2.5786	******
4.81	85.37	576.484	2.7608	******
6.95	92.29	876.984	2.9430	*********
3.21	95.48	1334.123	3.1252	****
1.60	97.07	2029.552	3.3074	**
1.07	98.14	3087.483	3.4896	*
0.53	98.67	4696.873	3.6718	*
0.53	99.20	7145.178	3.8540	*
0.00	99.20	10869.694	4.0362	
0.00	99.20	16535.662	4.2184	
0.53	99.73	25155.088	4.4006	*

0 1 2 3 4

##

VREKA 1998 SOIL GEOCHEMISTRY - GRID #2



LOGARITHMIC VALUES

VARIABLE = COPPER
UNIT = PPM
N = 187
N CI = 23

POPULATIONS

Pop.	Mean	Std.Dev.	%
①	1.5839	0.2535	69.7
②	2.6521	0.3457	27.8
③	3.2931	0.3467	2.5

Pop.	THRESHOLDS	
1	1.0768	2.0910
2	1.9606	3.3435
3	2.5997	3.9865

INCOMPLETE ITERATION
PARAMETER ESTIMATES

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = Y-4EL2.PP

Variable = COPPER Unit = PPM N = 187
N CI = 23

Transform = Logarithmic Number of Populations = 3

# of Missing Observations = 0.

==

Incomplete Iteration Parameter Estimates

Population	Mean		Std Dev	Percentage
1	38.360	-	21.396	69.69
		+	68.774	
2	448.836	-	202.471	27.84
		+	994.977	
3	1963.851	-	883.918	2.47
		+	4363.201	

==

Default Thresholds.

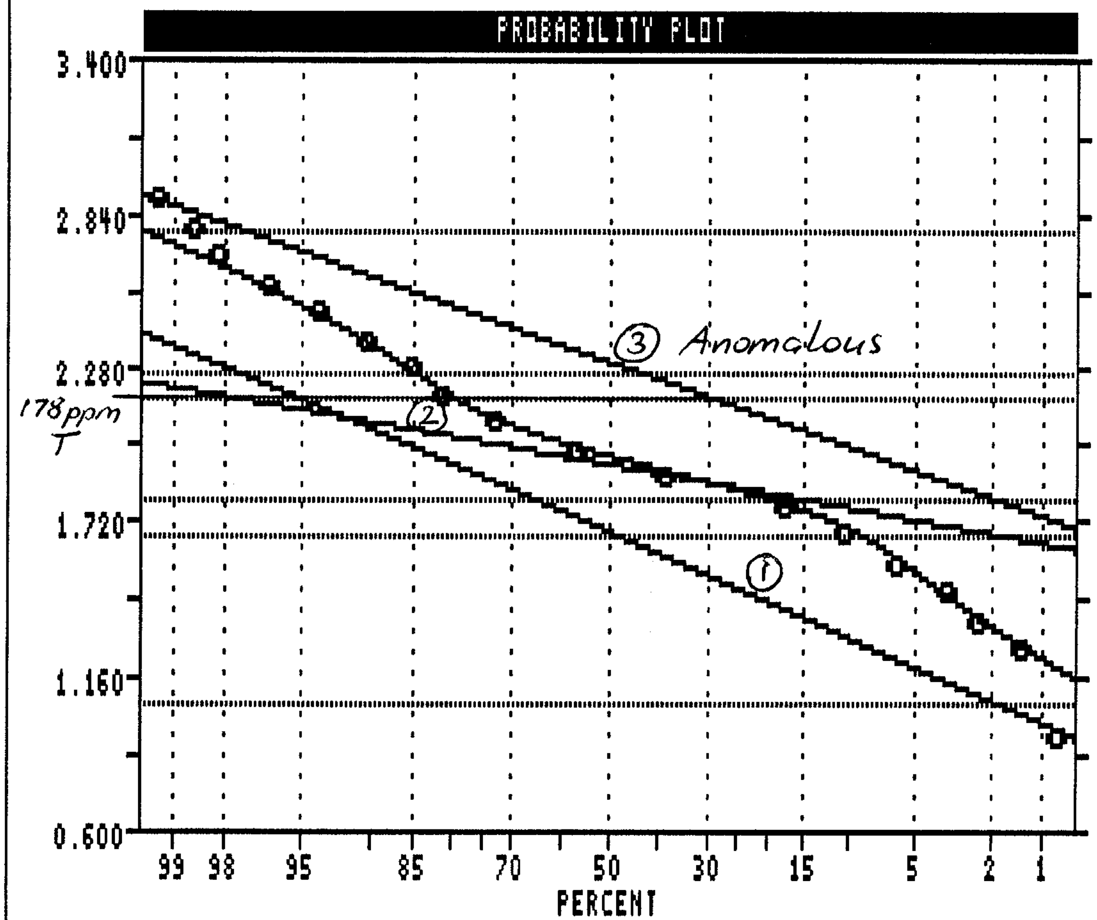
Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	11.934	123.300
2	91.335	2205.657
3	397.846	9693.976

##

```
12:45:58          YREKA 1998 SOIL GEOCHEMISTRY - GRID #2           06/01/98

##########################################################################
SUMMARY STATISTICS and HISTOGRAM                         LOGARITHMIC VALUES

 Variable = ZINC              Unit =       PPM                 N =   187

     Mean =     1.9760         Min =     0.9031  1st Quartile =    1.8129
Std. Dev. =     0.2951         Max =     3.1620        Median =    1.9345
     CV % =    14.9339    Skewness =     0.4220  3rd Quartile =    2.1038

        Anti-Log Mean =     94.627     Anti-Log Std. Dev. : (-)    47.964
                                                            (+)   186.686

==========================================================================
  %    cum %    antilog  cls int  (# of bins = 23  -  bin size =   0.1027)
-----  -----   --------  -------  ----------------------------------------
 0.00  0.27      7.108   0.8518
 0.53  0.80      9.004   0.9544   *
 0.00  0.80     11.405   1.0571
 0.00  0.80     14.447   1.1598
 0.53  1.33     18.300   1.2625   *
 1.07  2.39     23.181   1.3651   *
 1.07  3.46     29.364   1.4678   *
 2.67  6.12     37.195   1.5705   ****
 4.28 10.37     47.115   1.6732   ******
 6.95 17.29     59.681   1.7758   *********
20.86 38.03     75.599   1.8785   ****************************
18.72 56.65     95.761   1.9812   *************************
16.04 72.61    121.302   2.0839   *********************
 8.56 81.12    153.654   2.1865   ***********
 4.28 85.37    194.634   2.2892   ******
 4.81 90.16    246.544   2.3919   ******
 3.74 93.88    312.299   2.4946   *****
 2.67 96.54    395.592   2.5972   ****
 1.60 98.14    501.099   2.6999   **
 0.53 98.67    634.746   2.8026   *
 0.53 99.20    804.037   2.9053   *
 0.00 99.20   1018.480   3.0080
 0.00 99.20   1290.115   3.1106
 0.53 99.73   1634.198   3.2133   *
--------------------------------------------------------------------------
                                  0         1         2         3         4

##########################################################################
```

YREKA 1998 SOIL GEOCHEMISTRY - GRID #2



LOGARITHMIC VALUES

VARIABLE = ZINC
UNIT = PPM
N = 187
N CI = 23

POPULATIONS

Pop.	Mean	Std.Dev.	%
①	1.6591	0.2966	14.8
②	1.9089	0.1249	58.6
③	2.2848	0.2474	26.6

Pop.	THRESHOLDS	
1	1.0660	2.2522
2	1.6591	2.1587
3	1.7900	2.7797

CLASS INTERVAL ML
PARAMETER ESTIMATES

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = Y-4EL2.PP

Variable = ZINC Unit = PPM N = 187
N CI = 23

Transform = Logarithmic Number of Populations = 3

# of Missing Observations = 0.

==

Class Interval Data Maximum Likelihood Parameter Estimates

Maximum LN Likelihood Value = -440.672

Parameterized Degrees of Freedom = 5

Population	Mean		Std Dev	Percentage
1	45.611	-	23.042	14.80
		+	90.287	
2	81.070	-	60.809	58.62
		+	108.083	
3	192.677	-	108.992	26.58
		+	340.617	

==

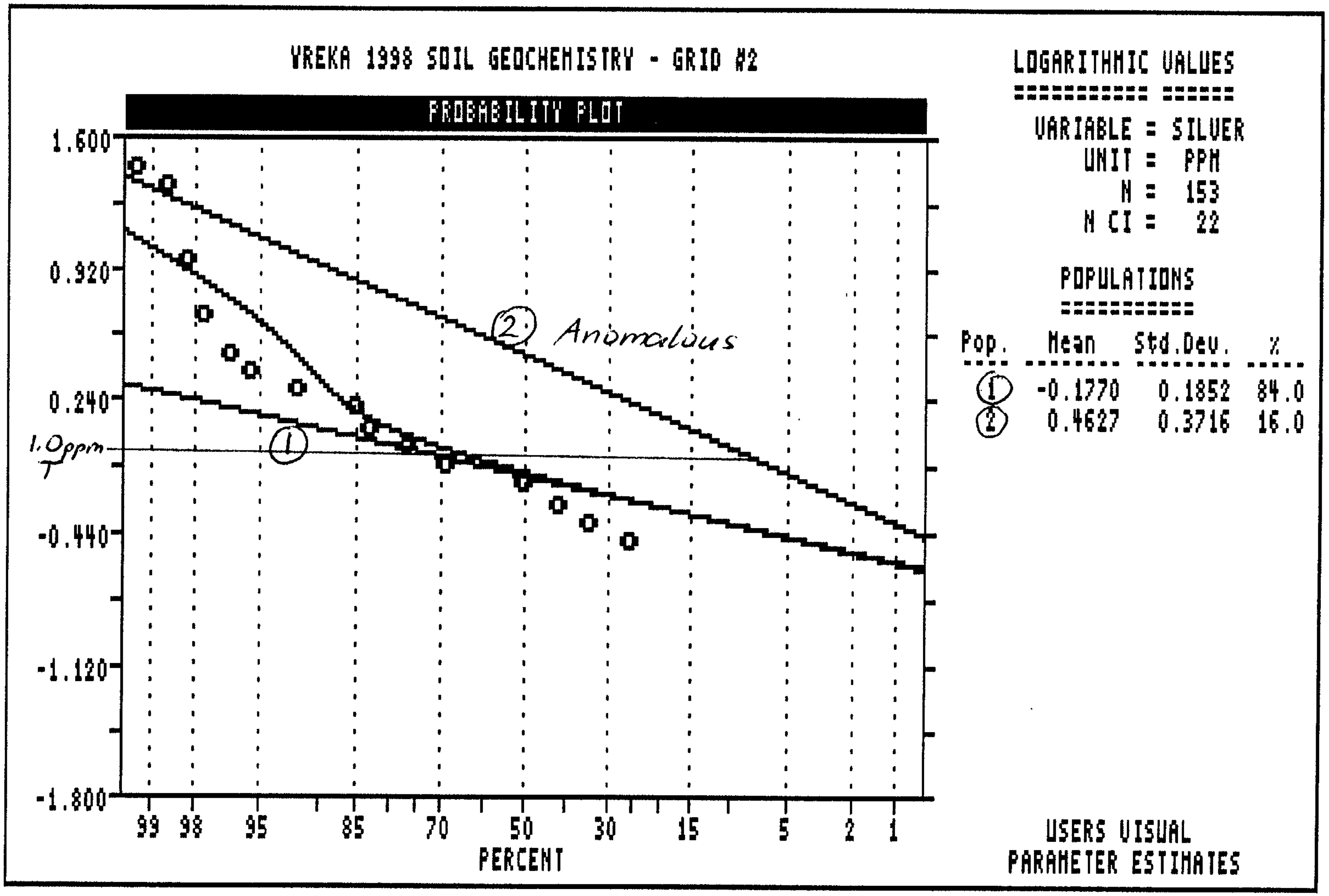
Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	11.640	178.721
2	45.611	144.096
3	61.654	602.148

##

```
12:52:22          YREKA 1998 SOIL GEOCHEMISTRY - GRID #2                06/01/98

##########################################################################
SUMMARY STATISTICS and HISTOGRAM                            LOGARITHMIC VALUES

 Variable = SILVER              Unit =      PPM                     N =   153

     Mean =     -0.0698          Min =    -0.5229  1st Quartile =    -0.3010
Std. Dev. =      0.3368          Max =     1.4983        Median =    -0.1259
     CV % =    482.1993     Skewness =     1.8985  3rd Quartile =     0.0508

        Anti-Log Mean =        0.851     Anti-Log Std. Dev. : (-)       0.392
                                                              (+)       1.849

==========================================================================
  %    cum %    antilog  cls int  (# of bins = 22  -  bin size =    0.0962)
-----  -----   --------  -------  ----------------------------------------
 0.00   0.32      0.269  -0.5710
 6.54   6.82      0.335  -0.4748  *******
11.11  17.86      0.418  -0.3785  ************
 9.15  26.95      0.522  -0.2823  **********
10.46  37.34      0.652  -0.1860  ***********
23.53  60.71      0.813  -0.0898  *************************
10.46  71.10      1.015   0.0065  ***********
 7.84  78.90      1.267   0.1027  ********
 2.61  81.49      1.581   0.1990  ***
 8.50  89.94      1.973   0.2952  *********
 4.58  94.48      2.463   0.3915  *****
 1.31  95.78      3.074   0.4877  *
 0.00  95.78      3.837   0.5840
 1.31  97.08      4.789   0.6802  *
 0.00  97.08      5.977   0.7765
 0.00  97.08      7.459   0.8727
 0.65  97.73      9.310   0.9690  *
 0.00  97.73     11.620   1.0652
 0.00  97.73     14.503   1.1614
 0.00  97.73     18.101   1.2577
 0.65  98.38     22.591   1.3539  *
 0.65  99.03     28.196   1.4502  *
 0.65  99.68     35.191   1.5464  *
--------------------------------------------------------------------------
                                  0         1         2         3         4

##########################################################################
```


YREKA 1998 SOIL GEOCHEMISTRY - GRID #2
PROBABILITY PLOT
1.600
0.920
0.240
-0.440
-1.120
-1.800
1.0ppm
99 98 95 85 70 50 30 15 5 2 1
PERCENT
(2) Anomalous
(1)
LOGARITHMIC VALUES
VARIABLE = SILVER
UNIT = PPM
N = 153
N CI = 22
POPULATIONS
Pop. Mean Std.Dev. %
(1) -0.1770 0.1852 84.0
(2) 0.4627 0.3716 16.0
USERS VISUAL
PARAMETER ESTIMATES

##

PARAMETER SUMMARY STATISTICS FOR PROBABILITY PLOT ANALYSIS

Data File Name = E:Y-4EL2.PP

Variable = SILVER Unit = PPM N = 153
N CI = 22

Transform = Logarithmic Number of Populations = 2

# of Missing Observations = 34.

Lower Truncation Correction of 20 percent.

==

Users Visual Parameter Estimates

Population	Mean		Std Dev	Percentage
1	0.665	-	0.434	84.00
		+	1.019	
2	2.902	-	1.234	16.00
		+	6.828	

==

Default Thresholds.

Standard Deviation Multiplier = 2.0

Pop.	Thresholds	
1	0.284	1.561
2	0.524	16.064

1.0 ppm

##

```
12:55:54          YREKA 1998 SOIL GEOCHEMISTRY - GRID #2                06/01/98

##########################################################################
SUMMARY STATISTICS and HISTOGRAM                             ARITHMETIC VALUES

 Variable = GOLD              Unit =      PPB                  N =   182

     Mean =     16.209          Min =     1.000   1st Quartile =     2.000
Std. Dev. =     36.584          Max =   241.000         Median =     4.000
     CV % =    225.703     Skewness =     4.367   3rd Quartile =    [11.000]

==========================================================================
  %    cum %    cls int          (# of bins = 23   -  bin size =    10.909)
 -----  -----  --------          -----------------------------------------
  0.00   0.27    -4.455
 60.44  60.38     6.455          ******************************* -->    78
 20.33  80.60    17.364          **************************
  6.59  87.16    28.273          ********
  2.20  89.34    39.182          ***
  4.40  93.72    50.091          ******
  0.55  94.26    61.000          *
  0.55  94.81    71.909          *
  0.55  95.36    82.818          *
  0.55  95.90    93.727          *
  0.00  95.90   104.636
  1.10  96.99   115.545          *
  0.00  96.99   126.455
  0.00  96.99   137.364
  0.00  96.99   148.273
  0.55  97.54   159.182          *
  0.55  98.09   170.091          *
  0.00  98.09   181.000
  0.00  98.09   191.909
  0.00  98.09   202.818
  0.00  98.09   213.727
  0.00  98.09   224.636
  1.10  99.18   235.545          *
  0.55  99.73   246.455          *
 -------------------------------------------------------------------------
                                 0        1        2        3        4

##########################################################################
```

12:56:13 YREKA 1998 SOIL GEOCHEMISTRY - GRID #2 06/01/98

##

SUMMARY STATISTICS and HISTOGRAM LOGARITHMIC VALUES

Variable = GOLD Unit = PPB N = 182

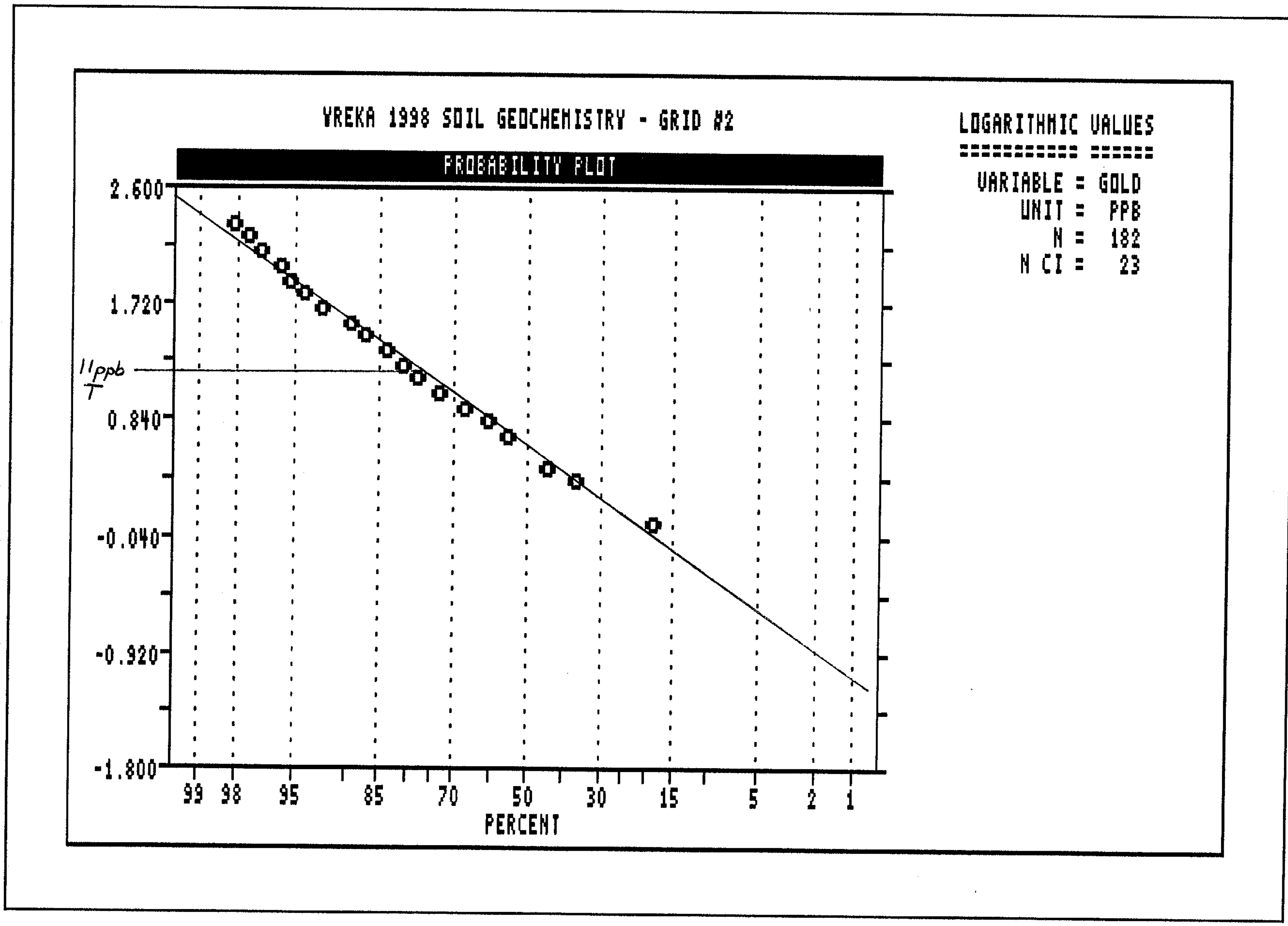
Mean =	0.7282	Min =	0.0000	1st Quartile =	0.3010
Std. Dev. =	0.5877	Max =	2.3820	Median =	0.6021
CV % =	80.7084	Skewness =	0.7242	3rd Quartile =	1.0414

Anti-Log Mean = 5.348 Anti-Log Std. Dev. : (-) 1.382
(+) 20.698

==

%	cum %	antilog	cls int	(# of bins = 23 - bin size = 0.1083)
0.00	0.27	0.883	-0.0541	
18.13	18.31	1.133	0.0541	***********************
0.00	18.31	1.453	0.1624	
0.00	18.31	1.865	0.2707	
17.58	35.79	2.393	0.3790	***********************
8.24	43.99	3.071	0.4872	***********
0.00	43.99	3.940	0.5955	
10.99	54.92	5.056	0.7038	**************
5.49	60.38	6.487	0.8121	*******
6.59	66.94	8.324	0.9203	********
6.04	72.95	10.681	1.0286	********
4.95	77.87	13.705	1.1369	******
2.75	80.60	17.585	1.2451	****
3.30	83.88	22.564	1.3534	****
3.30	87.16	28.953	1.4617	****
2.20	89.34	37.151	1.5700	***
3.30	92.62	47.669	1.6782	****
1.65	94.26	61.166	1.7865	**
1.10	95.36	78.485	1.8948	*
0.55	95.90	100.707	2.0031	*
1.10	96.99	129.221	2.1113	*
0.55	97.54	165.808	2.2196	*
0.55	98.09	212.755	2.3279	*
1.65	99.73	272.994	2.4362	**
				0 1 2 3 4

##



VREKA 1998 SOIL GEOCHEMISTRY - GRID #2
PROBABILITY PLOT
2.600
1.720
11ppb
T
0.840
-0.040
-0.920
-1.800
99
98
95
85
70
50
30
15
5
2
1
PERCENT
LOGARITHMIC VALUES
VARIABLE = GOLD
UNIT = PPB
N = 182
N CI = 23