MAP NO.: 115I 6,7

ASSESSMENT REPORT X
PROSPECTUS
CONFIDENTIAL
OPEN FILE

DOCUMENT NO: 093130
MINING DISTRICT: WHITEHORSE
TYPE OF WORK: GEOCHEMISTRY
GEOPHYSICS

REPORT FILED UNDER: AURUM GEOLOGICAL CONSULTANTS

DATE PERFORMED: JULY 11 1993 **DATE FILED:** AUGUST 30, 1993

LOCATION: **LAT.:** 60°18'N **AREA:** GRANITE MOUNTAIN

LONG.: 136°59'W **VALUE $:** 8,800

CLAIM NAME & NO.: LEACH 1-24 (YB36315-338), 25-30 (YB38007-012), 33-36 (YB36339-342) 61-70 (YB36343-352)

WORK DONE BY: RICHARD DIMENT

WORK DONE FOR: PINTAIL RESOURCES LTD

DATE TO GOOD STANDING:

REMARKS: 1172 SOIL AND 78 ROC SAMPLES COLLECTED.
TOTAL FIELD MAGNETICS AND VLF SURVEYS CONDUCTED.

ASSESSMENT REPORT
on the
GRANITE MOUNTAIN PROPERTY

Whitehorse Mining District, Y.T.

093130

Location:

1. 45 km NW of Carmacks, Y.T.
2. NTS 115 I/6&7
3. Latitude 60°18' N
   Longitude 136°59' W

For:

Pintail Minerals Ltd.
1601-675 West Hastings Street
Vancouver, B.C.,
V6B 1N2

By:

Richard M. Diment, B.Sc., P.Geo.
Aurum Geological Consultants Inc.
P.O. Box 4367
205-100 Main Street
Whitehorse, Yukon
Y1A 3T5

July 27, 1993

Aurum Geological Consultants Inc.

SUMMARY

The Granite Mountain Property, held under option by Pintail Minerals Ltd., consists of 58 contiguous mineral claims located in the Mount Nansen area, 45 km northwest of Carmacks, Yukon. The property is accessible by road from Carmacks.

The property is within the Yukon Crystalline Terrane schist and gneiss. Late Triassic to Early Jurassic Klotassin Meta-Plutonic Suite, which consists of foliated hornblende biotite granodiorite, intrude these Yukon Crystalline Terrane basement rocks. An Early Cretaceous porphyritic biotite quartz monzonite stock outcrops in the centre of the property and hosts porphyry copper-gold-molybdenum style mineralization.

Exploration on the property between 1965 and 1971 included geological mapping, geochemistry, trenching, IP and Magnetometer surveys, and 10 diamond drill holes. Canex Aerial Exploration Ltd., outlined an area of 1500 m by 250 m with copper in soil anomalies greater than 320 ppm. Follow up diamond drilling on copper soil geochemical anomalies and IP anomalies intersected 0.23% Cu over 60 feet in DDH 1 and 0.28% Cu over 50 feet in DDH 3. Samples were not analyzed for gold during these earlier exploration programs.

Work completed in 1993 was directed at evaluating the copper-gold-molybdenum porphyry potential of the Granite Mountain property. Work consisted of mapping, prospecting, trenching, and magnetometer and VLF surveys.

Results from this program confirmed the previous soil geochemical results for copper but also revealed coincident gold in soil anomalies in the 100-300 ppb range. An area of argillic and sericitic altered granodiorite returned a 20 m section of 0.24% Cu; This zone is open to both the north and east.

The highest gold in soil geochemical anomalies (471 & 417 ppb Au) are located on the extreme west side of the grid and are open to the west.

Based on the results of the 1993 work program, known mineralization, favourable geology, and coincident gold and copper geochemistry, a two-stage success contingent exploration program is warranted and recommended for the Granite Mountain Property. Further prospecting, mapping, trenching and diamond drilling are recommended at an estimated total cost of $500,000.

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INTRODUCTION

This report was prepared at the request of the directors of Pintail Minerals Ltd. Its purpose is to assess the economic potential of the Granite Mountain Property mainly through a description of work carried out in June of 1993, and through a review and compilation of previous exploration results.

The property is located 45 km northwest of Carmacks, Yukon in the Whitehorse Mining District and is accessible by road.

Previous exploration during the late 1960's and early 1970's evaluated the porphyry copper potential of the property. Samples were analyzed for copper and molybdenum; the gold potential on the property was not investigated.

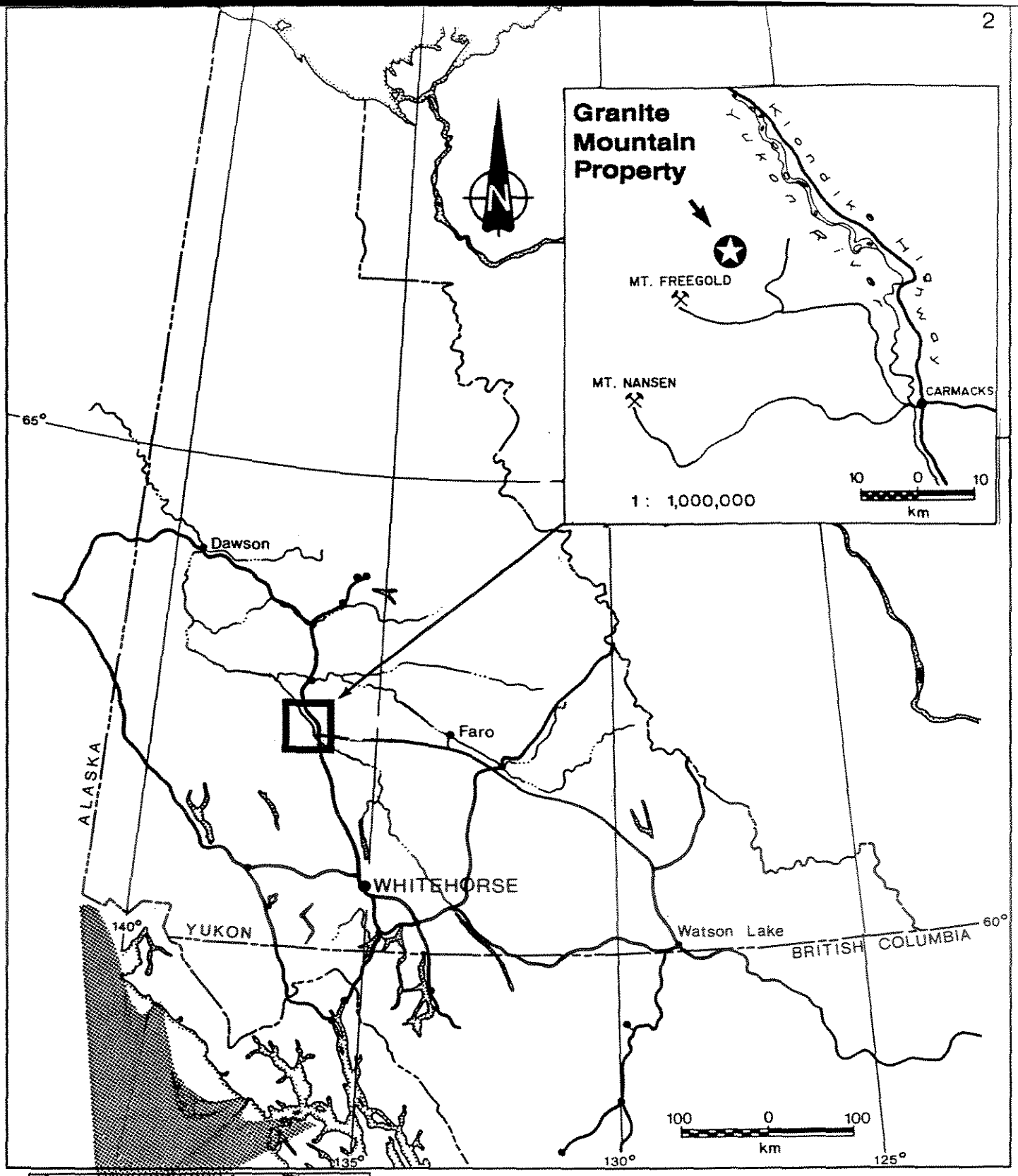
Work programs completed between 1987 and 1992, consisted of very limited soil and rock sampling (22 soil and 25 rock samples), which identified elevated gold, silver, arsenic, and antimony values associated with porphyry breccias and felsic volcanic rocks.

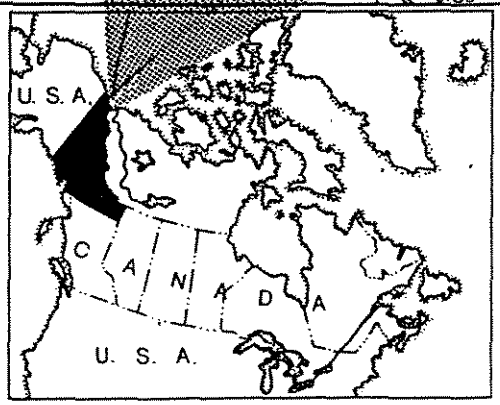
Exploration work carried out in June of 1993 by Aurum Geological Consultants Inc., is described in this report. The program was directed at evaluating the copper-gold porphyry and epithermal precious metal potential of the Granite Mountain property. Work consisted of geological mapping, prospecting, geochemical sampling, bulldozer trenching, and proton magnetometer and VLF geophysical surveys.

LOCATION AND ACCESS

The Granite Mountain property (Figure 1) is located in the Dawson Range, approximately 45 km northwest of Carmacks, Yukon. A point at the centre of the claim block is located at 60°18'N latitude and 136°59'W longitude, one kilometre west of Granite Mountain. The property straddles the boundary between the 1:50,000 NTS map areas 115 I/6 and 115 I/7.

Access is via the government-maintained Mt. Freegold road, a summer road that leads west from the Klondike Highway at the town of Carmacks, to Mount Freegold. At km 51 of the Mt. Freegold road a gravel road branches northeast to Granite Mountain. The total road distance from Carmacks to the property is 65 km. Numerous four-wheel drive roads and trails cross the property.





PROFESSIONAL GEOSCIENTIST
PROVINCE OF BRITISH COLUMBIA

PINTAIL MINERALS LTD.

Granite Mountain Property

WHITEHORSE MINING DISTRICT

LOCATION

Aurum Geological Consultants Inc.		July , 1993
NTS 115I/6&7	Drawn by GS	Figure 1

HISTORY

In 1930, P.F. Guder discovered gold bearing quartz veins at Mt. Freegold. The discovery led to a staking rush in the area that resulted in the location of several polymetallic vein occurrences during the early 1930's (Yukon Minfile 1992).

The Tinta Hill Vein, two kilometres south of the Granite Mountain Property, was discovered in 1930 and has undergone extensive drilling and underground development work by several mining companies. The most recent mineral reserve, calculated by Tinta Hill Mines Ltd. in 1975, is 5589 tonnes per vertical metre grading 2.6 g/t Au, 183 g/t Ag, 4.71% Pb, 6.03% Zn, 0.37% Cu and 0.049% Cd (Morin 1981). Yukon Minfile reports reserves of 515,300 tonnes grading 222.9 g/t Ag, 4.1 g/t Au, 7.2% Pb, 2.6% Zn, and 0.4 % Cu.

During the late 1960's considerable exploration was directed at porphyry copper occurrences in the Dawson Range. In 1968, Casino Silver Mines Ltd. discovered the Casino porphyry copper deposit 90 km northwest of Mt. Freegold. Drilling between 1969 and 1973 outlined a reserve of 179 million tonnes grading 0.37% copper and 0.039% molybdenum (Eaton and Main 1986). Pacific Sentinel Gold Corp., is currently re-evaluating the Casino property as a copper-gold-molybdenum porphyry deposit. Pacific Sentinel Gold Corp., reports a current mineral inventory of 417 million Tons grading 0.30% Cu, 0.025% Mo, and 0.01 oz/t Au (Pacific Sentinel Gold Corp., May 17, 1993)

Low grade gold mineralization has been recognized in leached caps overlying porphyry breccias in the Mt Nansen area. These leached caps, amenable to heap leach mining techniques, became attractive exploration targets when the Antoniuk gold deposit was outlined on Mt. Freegold in 1987. Reserves calculated by Nordac Mining Corp., and Permian Resources Ltd. are reported as 4.2 million tonnes grading 1.2 g/t Au (Yukon Minfile 1992).

The Granite Mountain property, originally staked as the March claims, was explored by Canex Aerial Exploration Ltd. (Canex) between 1965 and 1967. Canex conducted magnetometer and I.P. surveys and outlined a 1500 m by 250 m copper in soil geochemical anomaly defined by the >320 ppm copper contour. The copper geochemical anomaly is associated with a mid-Cretaceous stock. Six wide-spaced diamond drill holes (totalling 915 m) and two rotary holes (totalling 275 m) were drilled on either I.P. or geochemical anomalies. The best results from the drilling program were 0.23% copper over 60 feet in DDH-1 and 0.28% copper over 50 feet in DDH-3 (Phillips 1971). The core from this drill program was not assayed for its precious metal content. DDH-1 was drilled within the >320 ppm copper anomaly contour interval, and DDH-3, was located approximately 500 m north of DDH-1, and 250 m outside the >320 ppm

copper anomaly contour interval. Copper in soil anomalies around the DDH-3 drill collar area are below the 80 ppm contour interval.

In 1971 additional exploration on the property was completed by Archer Cathro and Associates for the Dawson Range Joint Venture (DRJV). A 22 km bulldozer line grid was established over the existing Canex grid in order to improve soil sample quality and geological control. Diamond drilling, totalling 305 m in four holes, outlined new areas of brecciation but failed to intersect any significant mineralization. The best intersection in drill core returned 0.13% Cu over a 10 foot interval in DDH-8, (Phillips 1971).

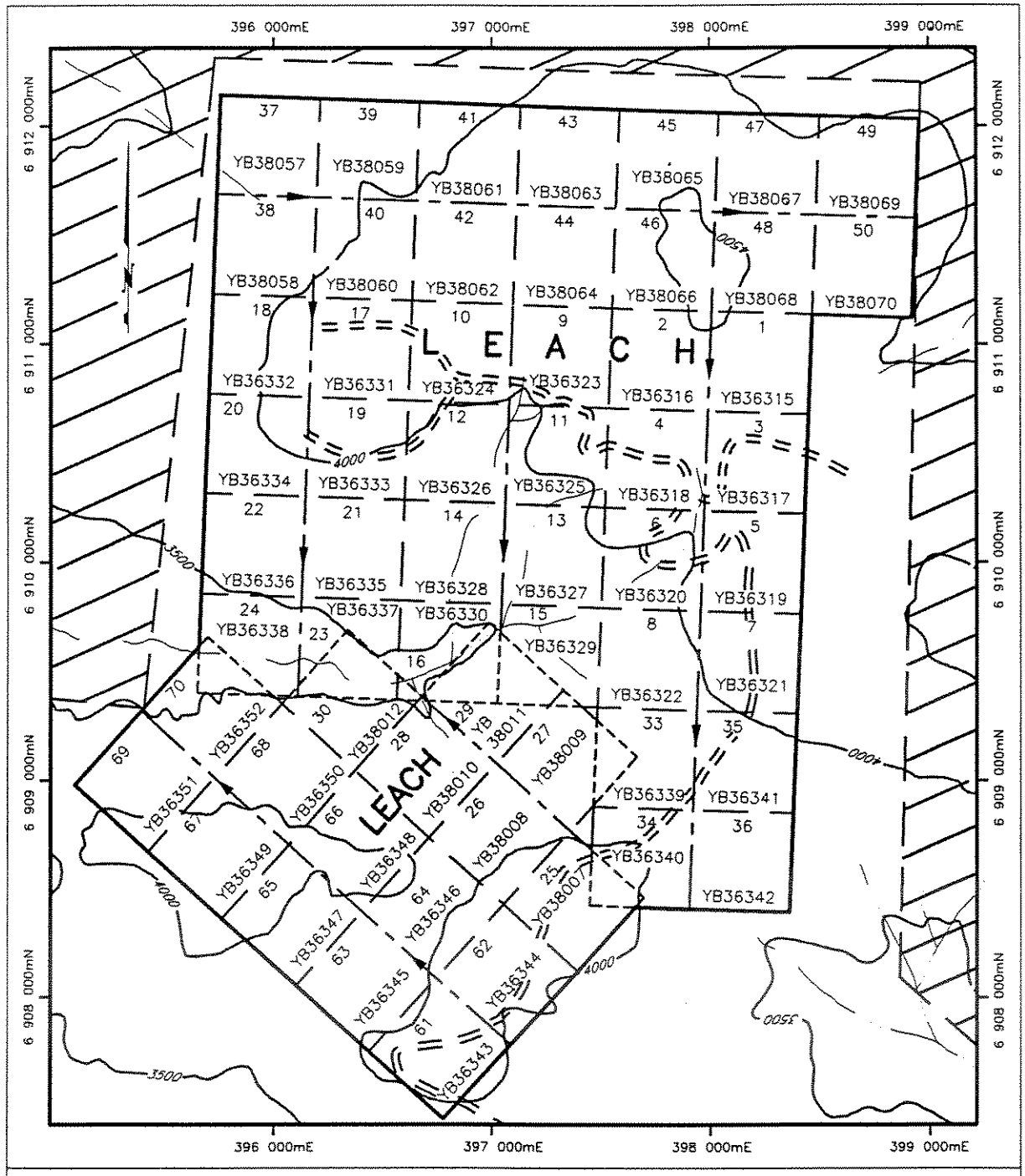
Limited exploration has been completed on the property since 1971, mainly to satisfy assessment requirements. The property was staked by Harris and Associates as the Windy and City claims in 1987 and later as the Leach claims in 1991. Exploration between 1987 and 1992 focussed on evaluating the precious metal potential of the property. A total of 22 soil and 26 surface rock samples were collected and analyzed for 30 elements by ICP and fire assay for gold. Gold values in soil averaged 39 ppb Au with a maximum of 110 ppb Au (Davidson 1993). Rock samples averaged 313 ppb Au with a maximum of 5580 ppb Au (Lueck 1989; Davidson 1993). One rock sample returned a value of 546 ppm antimony and 1520 ppm arsenic (Lueck 1989).

In 1993, Pintail Minerals Ltd., optioned the property from Harris and Associates. The exploration program (June 1-28) consisted of geological mapping, prospecting, grid establishment, a 56 line km magnetometer survey, a 16.25 line km VLF survey, 119 m of bulldozer trenching, and the collection of 1,172 soil and 78 rock samples. Total cost of the 1993 exploration program was $100,000.

PROPERTY

The property consists of 58 contiguous mineral claims (Leach 1-30, 33-50, 61-70 claims), staked under the Yukon Quartz Mining Act totalling approximately 1211 ha (2991 acres), shown on Figure 2.

The Leach 37-50 claims were added to the existing property on June 28, 1993. No assessment credits have been applied to these claims.



claim boundary

36 claim number

YB36342 tag number

land withdrawl

4WD trail

creek

3500 elevation contour: 500ft. interval

500 0 500 1000 1500

Note : adapted from D.I.A.N.D. map sheet

PINTAIL MINERALS LTD.

Granite Mountain Property

WHITEHORSE MINING DISTRICT

PROFESSIONAL GEOSCIENTIST PROVINCE OF BRITISH COLUMBIA R. M. DIMENT

CLAIM MAP

Aurum Geological Consultants Inc.			JUNE 1993
NTS:115I/6,7	DRAWN BY S. HANSEN	1:30,000	FIGURE 2

Claim data are as follows:

Claim Name	Grant No.'s	Recording Date	Expiry Date*
Leach 1-24	YB36313-38	20/08/91	20/08/95
Leach 25-30	YB38007-12	11/06/93	11/06/95
Leach 33-36	YB36339-42	20/08/91	20/08/95
Leach 37-50	YB38057-70	28/06/93	28/08/94
Leach 61-70	YB36343-52	20/08/91	20/08/95

*expiry dates are subject to approval of 1993 assessment work.

The claims are subject to an option agreement made between Harris and Associates and Pintail Minerals Ltd, whereby Pintail Minerals Ltd., has an option to acquire a 100% interest in the Leach Group of claims in the Whitehorse Mining District, subject to certain terms and conditions. The claims are shown on Yukon Quartz and Placer sheet 115 I/6&7, and are known collectively as the Granite Mountain Property.

TOPOGRAPHY, CLIMATE, VEGETATION

Granite Mountain lies within the Dawson Range, a gently rolling unglaciated upland. Elevations range from 750 m to 1500 m above sea level. Valley floors are commonly flat and swampy with valley walls rising sharply at 20°-30° to the upland. Ridge tops are rounded and punctuated by castellated outcrops.

The climate in the area is variable with warm dry summers and long cold winters. Precipitation is low to moderate averaging 10 cm annually. Temperatures average 15°C in summer and -20°C in winter.

Vegetation on the property consists of black spruce and poplar forest below 1200 m of elevation. Above treeline, vegetation consists of a thick ground cover of dwarf birch and willow, alpine grasses and moss. North facing slopes and valley floors are covered with thick moss underlain by permafrost.

GEOLOGY

Regional Geology

The geology of the Carmacks area (NTS 115 I) has been recently mapped by Tempelman-Kluit (1984) at a scale of 1:250,000, and the Mt. Nansen and Stoddart Creek areas (NTS 115 I/6 & 7) at a scale of 1:50,000 by Carlson (1987).

The Granite Mountain Property is situated within the Yukon Cataclastic Terrane, eight kilometres northeast of a major northwest structure known as the Big Creek Fault (Figure 3). This structure separates schists and gneiss of the Yukon Crystalline Terrane to the south from the highly sheared metamorphic rocks of the Yukon Cataclastic Terrane to the north. Basement rocks north of the Big Creek Fault are poorly represented due to large Late Triassic to Early Jurassic intrusions of foliated hornblende granodiorite and syenite (Klotassin and Big Creek Meta-Plutonic Suites). The latest metamorphism in the area is likely related to emplacement of these suites (Carlson 1987). To the east Triassic Pavoas greenstone volcanics and Jurassic sedimentary rocks of the Whitehorse Trough are bounded by the northwest trending Hoochekoo and Braeburn Faults.

The Early Cretaceous was marked by the intrusion of the Dawson Range Batholith consisting of granodiorite, local granitic plugs, and cogenetic Mt. Nansen Group andesite and rhyolite. Lithologies representing this plutonic-volcanic event are localized along and south of the Big Creek Fault.

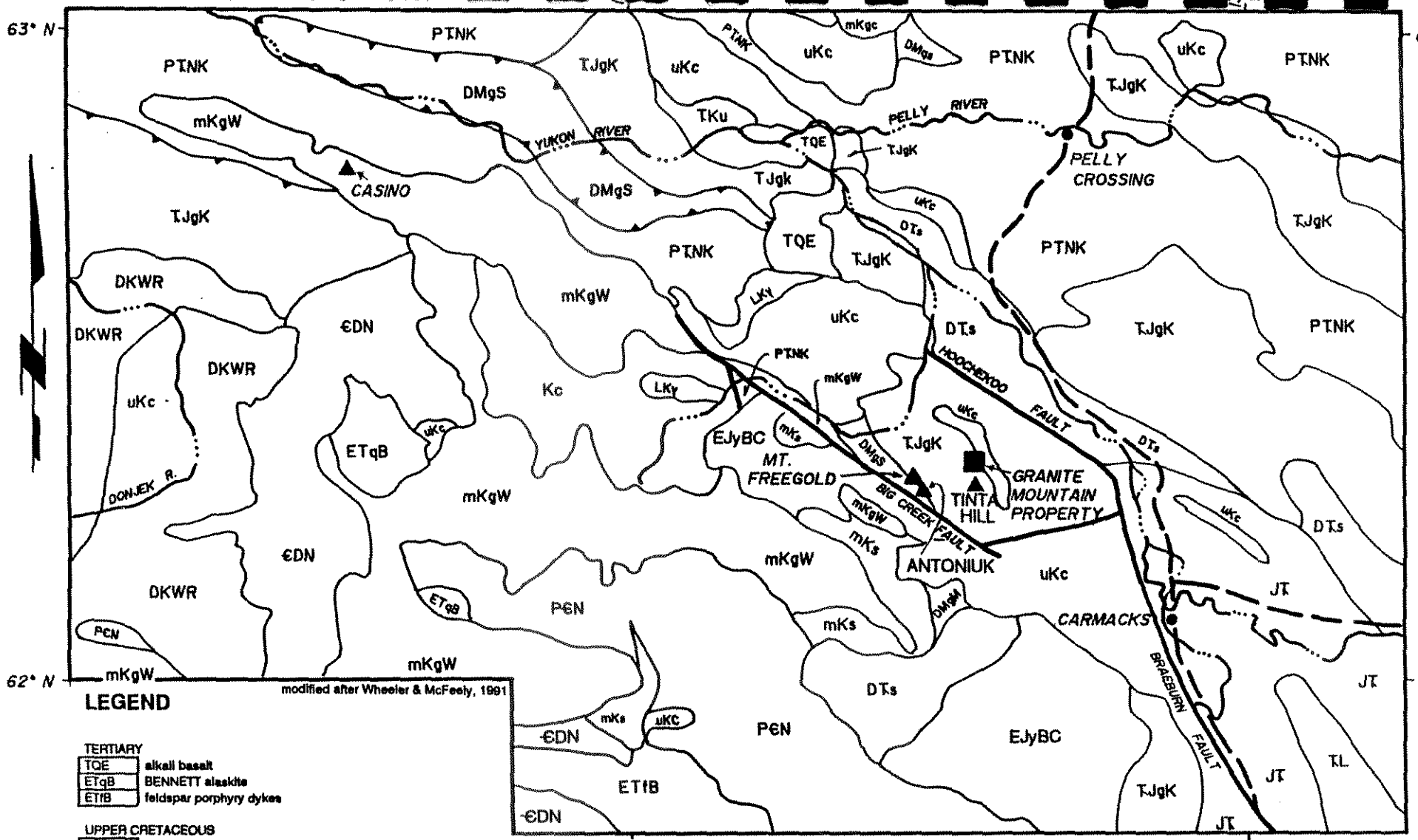
The Late Cretaceous to Paleocene Carmacks Suite comprise the youngest rocks in the area and consist of extensive flat lying basalt flows with lesser andesite and rhyolite pyroclastics. Late intermediate to mafic dykes are interpreted as feeders for the Carmacks basaltic volcanics (Carlson 1987).

Regional structures generally trend northwest with some younger subsidiary northeast structures. Mineral deposits in the area are associated with Cretaceous porphyry stocks and volcanics in proximity to major regional structures such as Big Creek Fault, and secondary northwest and northeast trending faults (Carlson 1987).

Property Geology

In 1993, geological mapping was conducted over the entire claim block at a scale of 1:5,000. Outcrops were mapped in trenches, on ridges, and steeper creek draws. Areas of felsenmeer were assumed to reflect underlying bedrock lithologies.

Property geology (Figure 4) is primarily underlain by the Late Triassic Klotassin



modified after Wheeler & McFeely, 1991

LEGEND

TERTIARY

TQE	alkali basalt
ETqB	BENNETT alaskite
ETfB	feldspar porphyry dykes

UPPER CRETACEOUS

uKc	CARMACKS andesite flows & pyroclastics
LKy	*CARMACKS syenite & granite*

MID CRETACEOUS

mKgW	DAWSON RANGE hmblde granodiorite to qtz monzonite
mKS	MT NANSEN andesite to rhyolite flows

JURASSIC

EJyBC	BIG CREEK foliated hornblende syenite
JT	LABERGE sediments- congim, greywacke, siltst, & shale

TRIASSIC

TJgK	KLOTASSIN foliated hornblende biotite granodiorite
TL	LEWES RIVER clastic volcanic tuff, sandst siltst & limestone
TKU	PAVOUS basalt to rhyolite, phyllites, sandstone & limestone

DEVONIAN - MISSISSIPPIAN

DMgS	SIMPSON RANGE foliated megacrystic hrnblde granodiorite
DMgM	MINK CREEK granite, augen gneiss

DEVONIAN - TRIASSIC

DTs	*SLIDE MOUNTAIN sheared oceanic volcanics & seds*
DKwR	WHITE RIVER oceanic clastics & volcanics

UPPER PROTEROZOIC - TRIASSIC

PTNK	NISUTLIN cataclastic sediments & volcanics

CAMBRIAN - DEVONIAN

€DN	NASINA quartzite, schist, marble

UPPER PROTEROZOIC-LOWER CAMBRIAN

P€N	NISLING schist, phyllite, slate, amphibolite

SYMBOLS

- Thrust Fault
- Fault
- Highway
- River
- Granite Mountain Property

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA R. K. DIMEETI GEOSCIENTIST

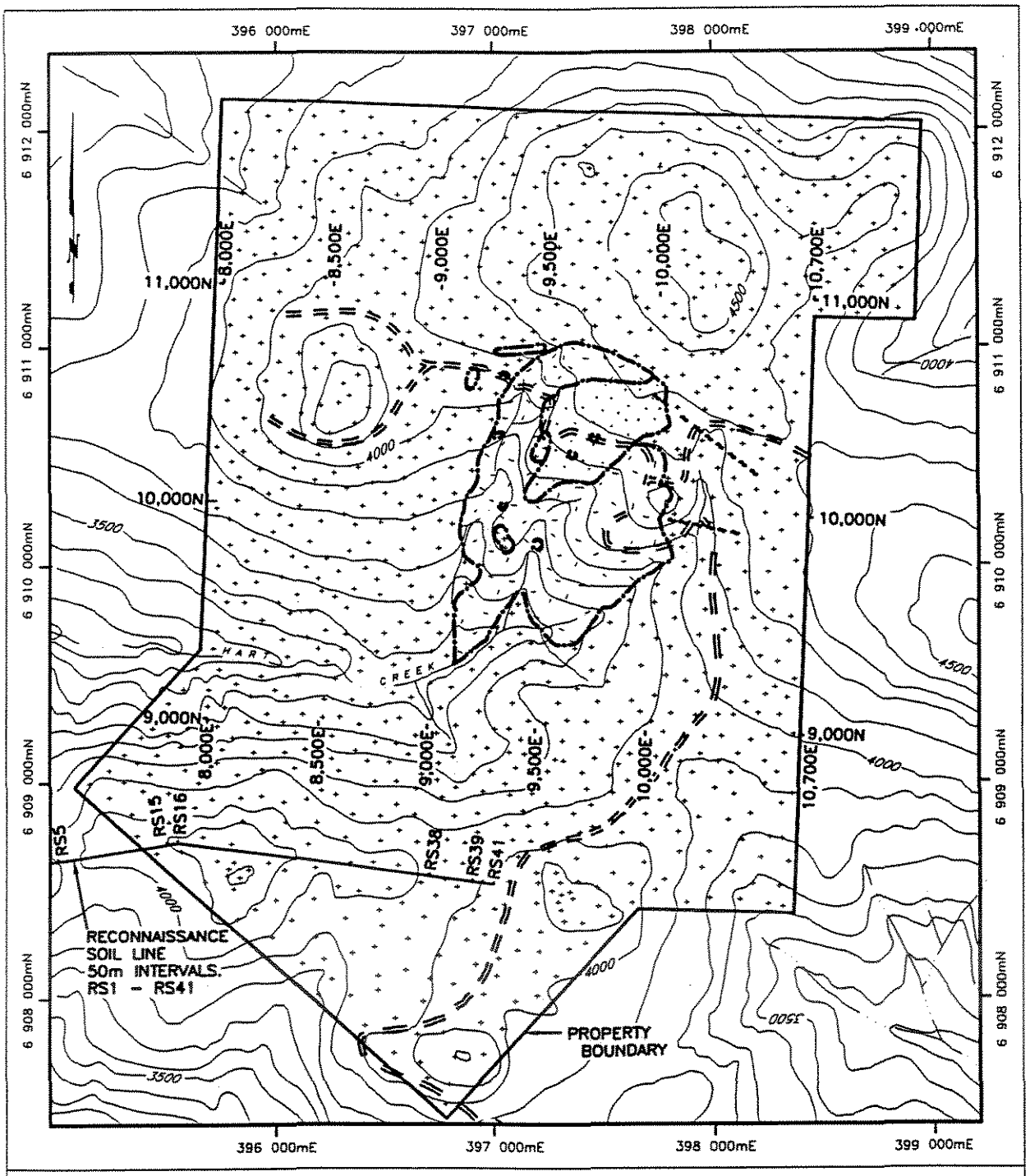
PINTAIL MINERALS LTD.

GRANITE MOUNTAIN PROPERTY
WHITEHORSE MINING DISTRICT

REGIONAL GEOLOGY

Aurum Geological Consultants Inc.			JUNE 1993
NTS 115 I/16,17	DRAWN BY ALANGE /JvR	1:1000000	FIGURE 3

∞



LEGEND

LATE CRETACEOUS TO PALEOCENE

- CARMACKS SUITE – QUARTZ PORPHYRY RHYOLITE (UKc)

EARLY CRETACEAOUS

- PORPHYRITIC BIOTITE QUARTZ MONZONITE (mKgDR)

JURASSIC

- KLOTASSIN META-PLUTONIC SUITE – FOLIATED HORNBLENDE BIOTITE GRANODIORITE (TJgK)

- CONTACT (INFERRED)
- FAULT
- ROAD

500 0 500 1000 1500

PINTAIL MINERALS LTD.

Granite Mountain Property
WHITEHORSE MINING DISTRICT

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA GEOSCIENTIST

PROPERTY GEOLOGY

Aurum Geological Consultants Inc.			JUNE 1993
NTS: 115I/6,7	DRAWN BY S. HANSEN	1:30,000	FIGURE 4

Meta-Plutonic Suite consisting of weakly foliated hornblende granodiorite and granite (map unit TJgK). This lithology forms prominent castellated outcrops on ridge tops. Hornblende is commonly altered to fine shredded biotite, and chlorite, near contacts with younger intrusive phases.

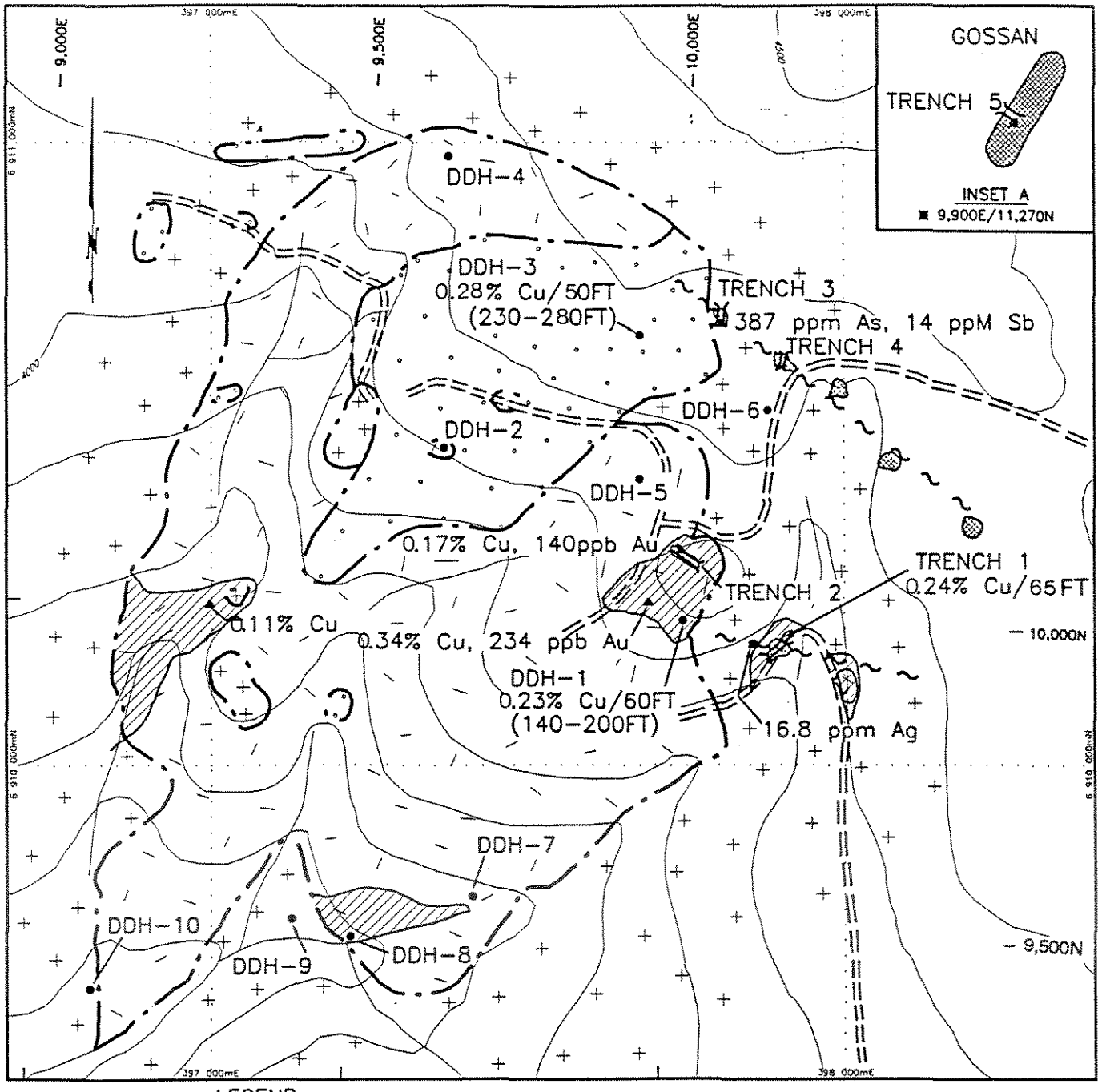
Foliated Klotassin rocks are intruded by a semi-circular porphyritic biotite quartz monzonite stock (map unit mKgDR). The stock is characterized by megacrysts of potassium-feldspar (1 to 2 cm in diameter) with 5-10% subhedral biotite books and minor hornblende. Chlorite is the most common mafic mineral and appears to have formed from the propylitic alteration of biotite and hornblende. This unit is similar to the Cretaceous Dawson Range quartz monzonites, that outcrop along the Big Creek Fault, as described by Carlson (1987). Brecciation and quartz stockwork veining are localized along contacts with the Klotassin granodiorite.

Late Cretaceous rhyolite quartz porphyry of the Carmacks Suite (map unit uKc) intrudes all older rocks and is restricted to the north-central part of the property. This unit contains 1-3 mm size quartz phenocrysts within a white to buff coloured aphanitic matrix. Minor brecciation and quartz stockwork veining are common along contacts where biotite quartz monzonite intrudes Klotassin Granodiorite.

Faulting on the property follows a predominant northwest trend (100-125°), crosscutting both the Klotassin granodiorite and biotite quartz monzonite. Minor northeasterly trending structures are associated with gossanous zones on the northern part of the property. Hart Creek (Figure 4) defines the southern contact between the quartz monzonite and Klotassin granodiorite and may represent a major fault.

MINERALIZATION

Previous exploration conducted by Canex Aerial Exploration Ltd., and Archer Cathro and Associates between 1965 and 1971, identified porphyry copper style mineralization around the margins of the biotite quartz monzonite stock. Sulphides are restricted to breccia and quartz stockwork zones and consist of 0.5-1% chalcopyrite, 1-2% pyrite with minor chalcocite, and molybdenite. Malachite and azurite staining are common along fracture surfaces. Alteration is predominantly propylitic consisting of pervasive chloritization of mafic minerals and the introduction of calcite, magnetite, and minor epidote. Narrow discontinuous zones of phyllic and potassic alteration are related to northwest trending dykes and shear zones. Diamond drilling by Canex returned copper values up to 0.23% Cu over 60 feet and 0.28% Cu over 50 feet in DDH's 1 and 3 respectively (Phillips 1971). Drill collar locations are shown in Figure 5.



LEGEND

- RHYOLITE
- QUARTZ MONZONITE
- GRANODIORITE
- COPPER MINERALIZATION (TR – 1% DISSEMINATED CHALCOPYRITE MALACHITE STAINING)
- STRONG ARGILLIC/PHYLLIC ALTERATION
- CONTACT (INFERRED)
- CAT TRENCH (1993)
- DDH-7 • DIAMOND DRILL HOLES
- ▲ ROCK SAMPLE LOCATION

PINTAIL MINERALS LTD.

Granite Mountain Property

WHITEHORSE MINING DISTRICT

PROFESSIONAL GEOSCIENTIST — PROVINCE OF BRITISH COLUMBIA — R. M. DUMONT

COMPILATION

Aurum Geological Consultants Inc.			JUNE 1993
NTS:115I/6,7	DRAWN BY S. HANSEN	1:10,000	FIGURE 5

Exploration work completed in 1993 was directed at evaluating the gold potential in the porphyry system and defining the bedrock source and extent of epithermal mineralization found in float. Five bulldozer trenches were completed in 1993, and 52 samples were collected. The trenching program resulted in the discovery of two areas of intense alteration. They are: 1) a copper-molybdenum shear zone centred at 10150E/9940N exposed in Trench 1; and 2) a quartz-tourmaline stockwork zone centred at 10175E/10400N exposed in Trenches 3 & 4.

Trench 2 is located 200 m northwest of Trench 1, and was excavated over an area of surface copper mineralization. Trench 5, exposed an altered northeast trending fault zone, located approximately 700 m northwest of Trench 3.

The copper-molybdenum shear zone is exposed in Trench 1 (Figure 6). Chloritized hornblende granodiorite is cut by east-west striking vertical shears (0.3 to 3.5 m wide) across a 50 m width. Phyllic and argillic alteration facies are dominant, consisting of sericitization of plagioclase, moderate to intense silicification, and destruction of K-feldspars to clay. Limonite staining, resulting from the oxidation of pyrite is pervasive. Intense argillic alteration is localized along shear zones and consists of white kaolinite and minor silicified fragments. The distribution of sulphides is restricted to minor molybdenite rosettes along quartz veinlets and 10% pyrite with minor molybdenite in a one-metre wide fault gouge zone (Figure 6). Malachite staining is common in the weakly altered hornblende granodiorite.

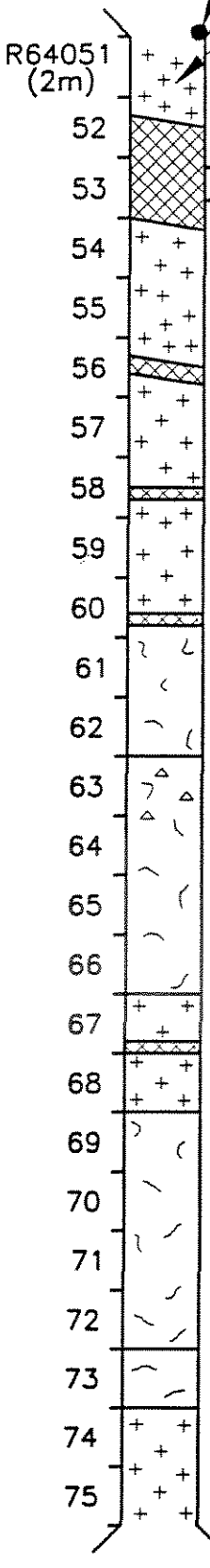
An area of quartz-tourmaline vein float containing 546 ppm Sb, and 1520 ppm As was reported by Lueck(1989), and was relocated at 10050E/10400N on the current grid. Lueck also reported a composite grab sample of weathered siderite (located at 10175E/9950N) which assayed 5580 ppb Au, and 1110 ppm Ag. These samples were collected near an area of rhyolite quartz porphyry and may indicate potential for locating epithermal precious metal mineralization in this area of the property.

A total of 25 continuous two-metre wide chip samples were collected in bedrock from Trench 1. Analytical results for copper, molybdenum, silver, and gold are tabulated on Figure 6. Significant results include 0.24% Cu over 20 m and includes a 4 m section, which returned 31.4 ppm Ag, across fault gouge. The maximum values for gold and molybdenum are 116 ppb and 281 ppm respectively.

Higher copper values are associated with the malachite stained chloritic granodiorite and fault gouge. The first sample at the north end of Trench 1 returned 5270 ppm Cu leaving the 20 m mineralized zone open to the north. Strong phyllic alteration zones average only 617 ppm copper. The presence of limonite in these areas suggest

Mo ppm	Cu ppm	Ag ppm	Au ppb
192	5270	3	95
144	3256	30.7	116
134	1229	32.1	77
38	3028	0.5	30
26	3317	0.4	36
41	2601	0.4	42
28	1468	0.5	43
39	1218	0.6	69
33	1129	0.5	39
65	1412	0.6	45
71	687	0.7	51
136	270	0.7	43
171	233	0.7	39
281	157	0.4	57
122	247	0.5	31
107	559	0.6	42
93	941	1.4	43
60	1766	0.4	30
90	1625	2.8	54
97	628	1.4	50
60	1268	0.6	36
37	92	0.3	34
43	1026	0.4	34
36	924	0.4	30
17	1073	0.3	32

0.24 % Cu



HORNBLENDE GRANODIORITE; HORNBLENDE ALTERED TO FINE, SHREDDED BIOTITE AND CHLORITE; MINOR MALACHITE STAINING

WHITE CLAY FAULT GOUGE (R64076), 10% DISSEMINATED PYRITE, MINOR MOLYBDENITE

FAULT–100°/ VERTICAL WHITE TO LIGHT BROWN CLAY WITH SILICIFIED AND AND SERICITIZED FRAGMENTS

HORNBLENDE GRANODIORITE: MINOR Qz STOCKWORK VEINLETS, AND MALACHITE STAINING

FAULT GOUGE 100°/85°N –5m WIDE

FAULT GOUGE 090°/90° –3m WIDE

FAULT GOUGE 090°/90°

MOD–STRONG ARGILLIC ALTERATION/ SERICITIZATION HORNBLENDE BIOTIZED MALACHITE STAINING ON FRACTURE SURFACES

STRONG TO INTENSE ARGILLIC ALTERATION WITH STRONG PERVASIVE SILICIFICATION. INTRUSIVE TEXTURES DESTROYED– BLEACHED 3–5% LIMONITE

INTENSE SILICIFICATION Qz STWK VEINING MOLYBDENITE ALONG Qz VEINLETS

JOINTING 090°/85°N
FAULT GOUGE 090°/90°

STRONG ARGILLIC ALTERATION WITH Qz STWK VEINING/LIMONITIC

MOD ARGILLIC ALTERATION MINOR Qz STWK VEINING

WEAKLY ALTERED HORN– BLENDE GRANO– DIORITE

5m 0 5 10m

*R64076–SAMPLE OF WHITE, SULPHIDE RICH FAULT GOUGE. 1179 ppm Cu, 50 ppm Ag, 145 ppm Mo, 401 ppm Sb

PINTAIL MINERALS LTD.

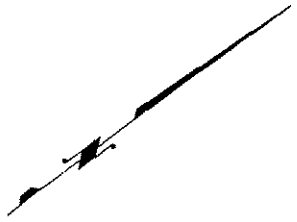
Granite Mountain Property

WHITEHORSE MINING DISTRICT

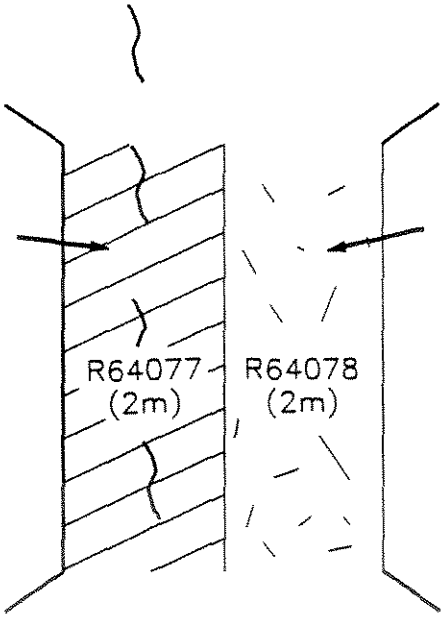
PROFESSIONAL GEOSCIENTIST — PROVINCE OF BRITISH COLUMBIA — R. M. DIMENT

TRENCH No. 1

Aurum Geological Consultants Inc.			JUNE 1993
NTS:115I/6,7	DRAWN BY S. HANSEN	SCALE 1:250	FIGURE 6



10,000E/10,135N



FROZEN (PERMAFROST) FAULT GOUGE STRIKE APPROX. 160°/VERTICAL WHITE TO LIGHT BROWN (LIMONITIC) KAOLINITE. MINOR DISSEMINATED PYRITE. (OPEN TO THE SOUTHWEST).
141 ppb Au,
1922 ppm Cu,
3.2 ppm Ag,
809 ppm As,
71 ppm Mo.

CHLORITIZED BIOTITE Qz MONZONITE. MINOR Qz STWK WITH .5–1% DISSEMINATED CHALCO–PYRITE. MALACHITE STAINING ON FRACTURE SURFACES. 140 ppb Au, 3145ppm Cu, 1.2 ppm Ag, 20 ppm As, 62 ppm Mo.

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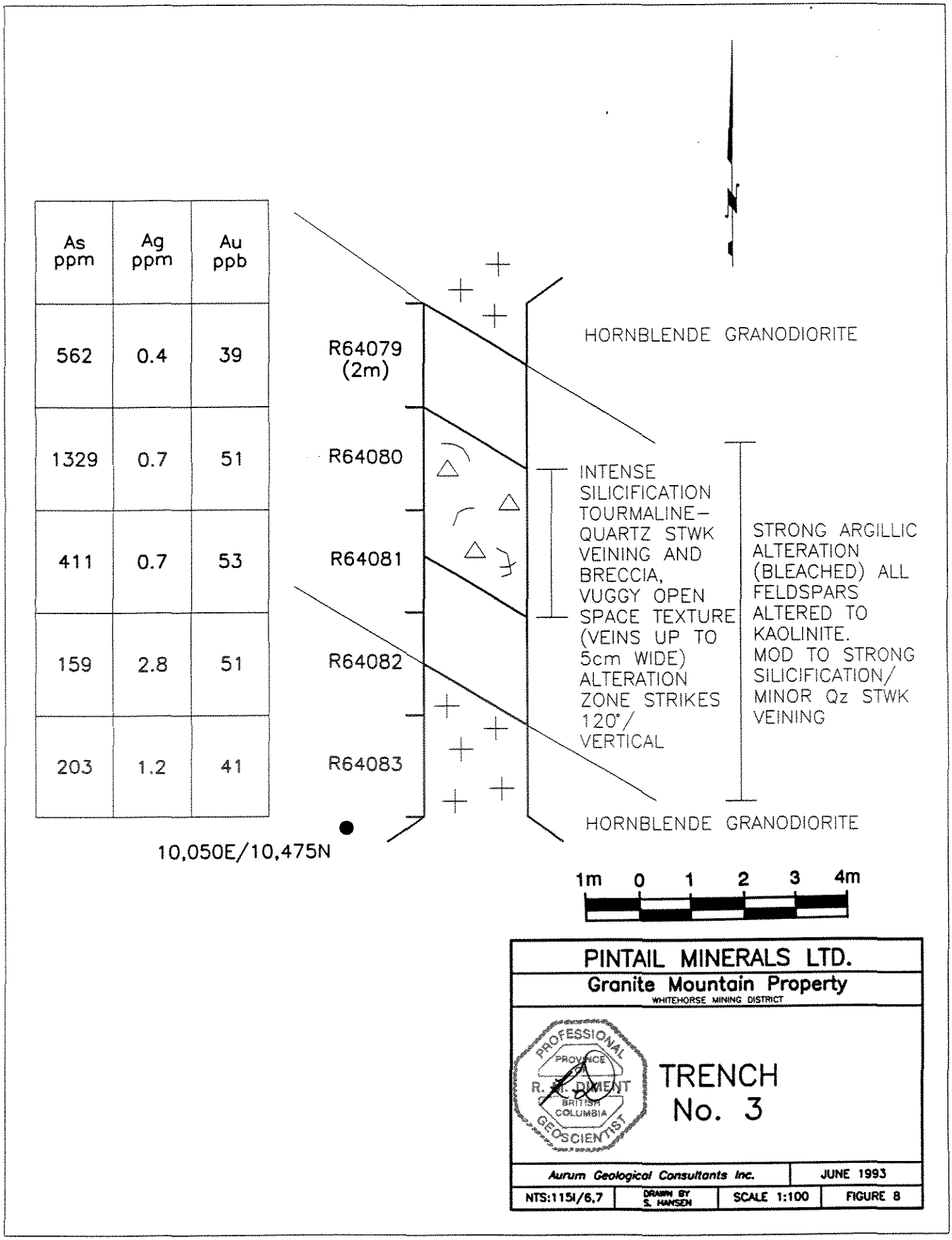
Granite Mountain Property
WHITEHORSE MINING DISTRICT

PROFESSIONAL GEOSCIENTIST — PROVINCE OF BRITISH COLUMBIA — R. M. SUMMENT

TRENCH No. 2

Aurum Geological Consultants Inc.			JUNE 1993
NTS:115I/6,7	DRAWN BY S. HANSEN	SCALE 1:100	FIGURE 7


As ppm
Ag ppm
Au ppb
562
0.4
39
1329
0.7
51
411
0.7
53
159
2.8
51
203
1.2
41
R64079 (2m)
R64080
R64081
R64082
R64083
HORNBLENDE GRANODIORITE
INTENSE SILICIFICATION TOURMALINE–QUARTZ STWK VEINING AND BRECCIA, VUGGY OPEN SPACE TEXTURE (VEINS UP TO 5cm WIDE) ALTERATION ZONE STRIKES 120°/ VERTICAL
STRONG ARGILLIC ALTERATION (BLEACHED) ALL FELDSPARS ALTERED TO KAOLINITE. MOD TO STRONG SILICIFICATION/ MINOR Qz STWK VEINING
HORNBLENDE GRANODIORITE
10,050E/10,475N
1m 0 1 2 3 4m
PINTAIL MINERALS LTD.
Granite Mountain Property
WHITEHORSE MINING DISTRICT
PROFESSIONAL GEOSCIENTIST
PROVINCE OF BRITISH COLUMBIA
TRENCH No. 3
Aurum Geological Consultants Inc.
JUNE 1993
NTS:115I/6,7
DRAWN BY S. HANSEN
SCALE 1:100
FIGURE 8

possible leaching of copper sulphides at surface. Silver mineralization is associated with the pyritic fault gouge which assayed 50 ppm Ag (1.46 oz/ton) over one metre (Sample # R64076, Figure 6).

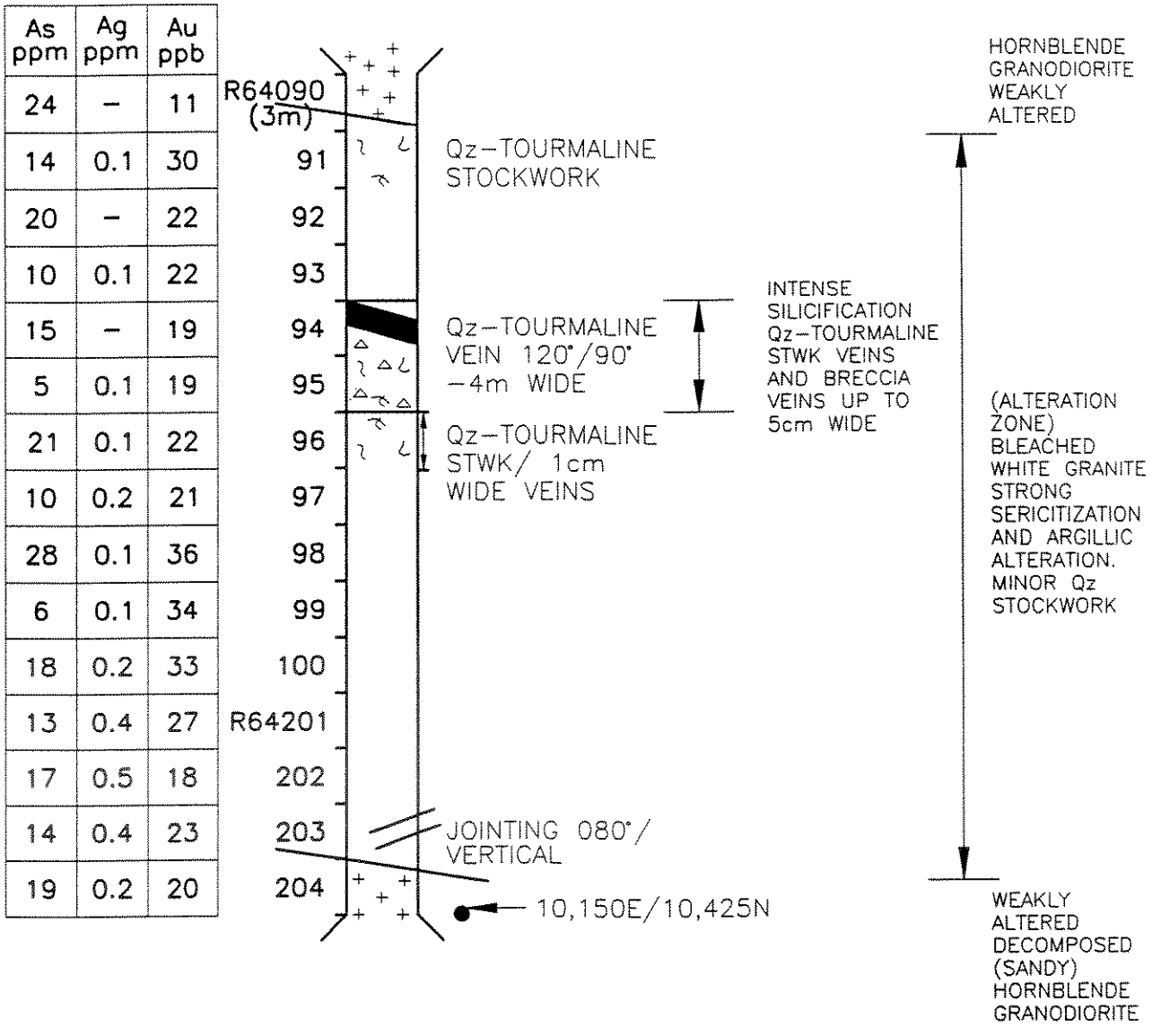
Trench 1 was centred on the composite grab sample, taken by Lueck in 1989, which assayed 5580 ppb Au, and 1110 ppm Ag. Although similar rock type and alteration were found in the trench, assay values could not be reproduced. Similar alteration is found along trend in float at 10125E/9925N and at 10275E/9875N. Rock samples at these locations returned 16.8 ppm silver, and 666 ppm copper respectively. Further trenching is required to define the alteration zone both to the north and along strike.

Trench 2, located at 10000E/10130N, is centred over a narrow zone of fault gouge cutting chloritized biotite quartz monzonite (Figure 7). Two continuous chip samples across the trench had a weighted average of 141 ppb Au, and 0.25% Cu over four metres. Further trenching to determine the true width of the shear zone could not be completed because of permafrost. The anomalous area remains open in all directions.

Argillically altered granodiorite with quartz-tourmaline stockwork veining is exposed in Trenches 3 and 4 (Figures 8 and 9). Quartz-tourmaline veins are found in a clay matrix of montmorillonite and lesser kaolinite. Vein widths are between 0.5 cm to 40 cm. Sulphides have been leached, producing a limonitic vuggy texture. The alteration zone widens from 10 m in Trench 3 to 40 m in Trench 4 and trends northwesterly at 126°. Similar alteration is found along strike in outcrop at 10225E/10325N and in felsenmeer at 10300E/10275N and 10550E/10175N.

A total of 20 continuous chip samples were collected in bedrock exposed in Trenches 3 & 4. Trench 3 was sampled at two-metre intervals over 10 m and Trench 4 was sampled at three-metre intervals across 45 m. Analytical results for gold, silver, and arsenic are tabulated on Figures 8 and 9. Gold values range from 11 to 53 ppb, averaging 30 ppb. Trench 3 averages 533 ppm As over its entire 10 m length, ranging up to 1329 ppm across a two-metre interval of strong quartz-tourmaline stockwork. Arsenic values in Trench 4 are less than 30 ppm. Silver values in both trenches are less than 3 ppm.

Trench 5 (Figure 10, and Inset on Figure 5) is located at 9900E/11270N, and exposes a northeasterly trending fault structure cutting foliated hornblende granodiorite. Alteration consists of pervasive silicification bordering a two-metre wide sericitized shear zone. Six continuous two-metre chip samples returned values averaging 19 ppb gold and 17 ppm arsenic.



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Granite Mountain Property

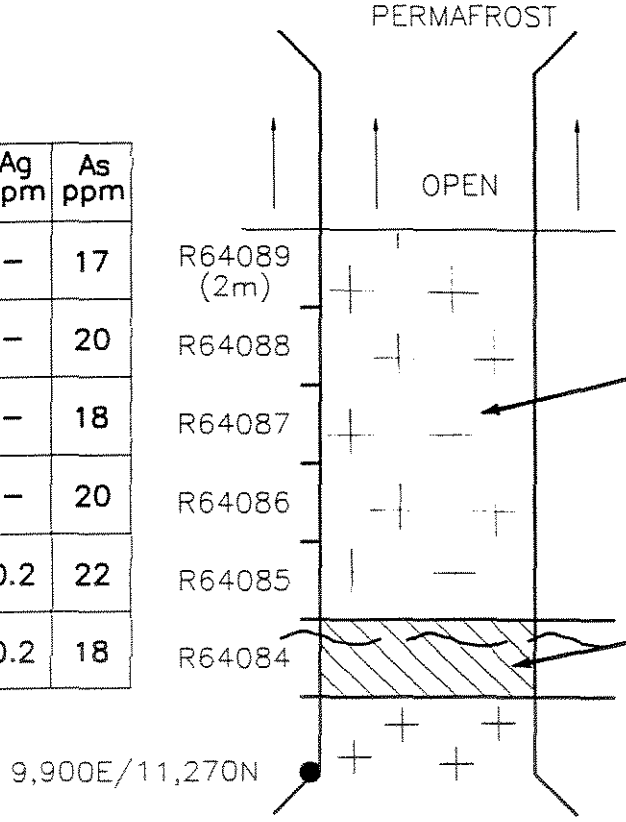
WHITEHORSE MINING DISTRICT

PROFESSIONAL GEOSCIENTIST — PROVINCE OF BRITISH COLUMBIA — R. M. DIMENT

TRENCH No. 4

Aurum Geological Consultants Inc.			JUNE 1993
NTS:115I/6,7	DRAWN BY S. HANSEN	SCALE 1:250	FIGURE 9

Au ppb	Ag ppm	As ppm
20	–	17
18	–	20
12	–	18
16	–	20
17	0.2	22
17	0.2	18



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Granite Mountain Property

WHITEHORSE MINING DISTRICT

PROFESSIONAL GEOSCIENTIST — PROVINCE OF BRITISH COLUMBIA — R. M. DIMENT

TRENCH No. 5

Aurum Geological Consultants Inc.			JUNE 1993
NTS:115I/6,7	DRAWN BY S. HANSEN	SCALE 1:200	FIGURE 10

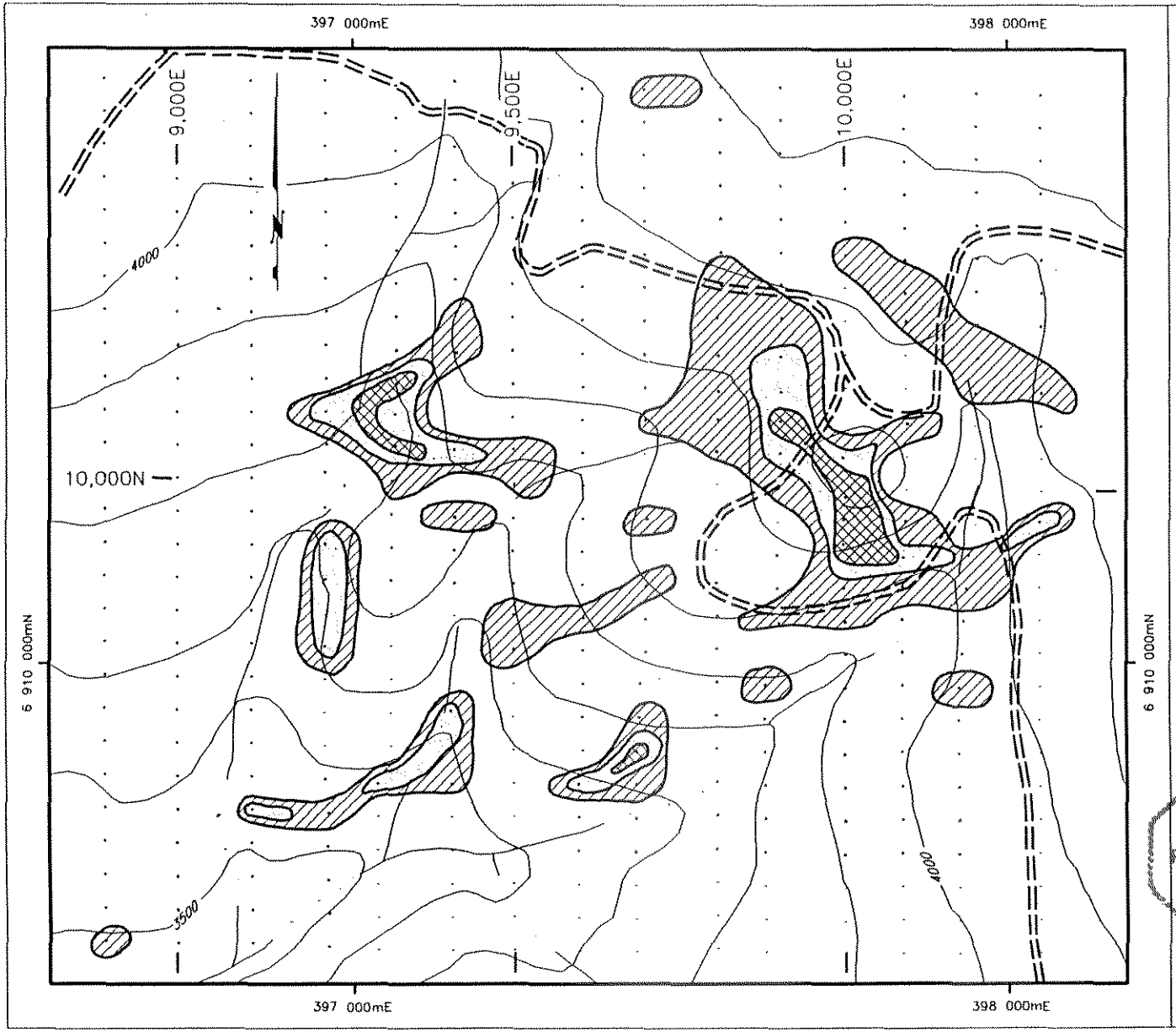
GEOCHEMISTRY

A total of 1,172 soil samples and 78 rock samples were collected on the property in 1993. The majority (1,131) of the soil samples were collected across a 2.7 km by 2 km grid (8000E to 10700E; 9000N to 11000N). Samples were collected at 50 m intervals on lines spaced 100 m apart. All samples were analyzed for 30 elements by ICP at IPL Laboratories Ltd. in Vancouver, and 10 g fire assay for gold at Northern Analytical Laboratories Limited in Whitehorse. Analytical data are tabulated in Appendix A.

All rock samples were collected by the author. Descriptions and locations for rock samples other than those described under the Trenching and Mineralization sections can be found in Appendix B. Soil sample geochemical results have been compiled on Figures 11 & 12.

The 1993 soil geochemical survey outlined gold, and copper in soil anomalies associated with the margins of a biotite quartz monzonite stock. Gold ranges up to 477 ppb, averaging 15 ppb. Copper ranges up to 7714 ppm, averaging 80 ppm. Copper in soil geochemical values above the 300 ppm contour interval, and gold values above the 50 ppb contour interval are compiled on Figures 11 and 12 respectively. The 1993 survey was successful in reproducing the copper anomaly defined by Canex and Archer Cathro but failed to extend it in any direction. Gold values are spotty but correlate well with copper along Hart Creek and the eastern edge of the quartz monzonite stock. Three isolated soil anomalies, exceeding 350 ppb Au, straddle Hart Creek near the western edge of the claim block. Analytical results for copper from these samples are between 15 and 56 ppm Cu. These gold anomalies are situated in an area of extensive overburden and remain open to the west.

A two kilometre reconnaissance soil line (Figure 4) was completed along an east-west trending ridge on the southern part of the claim block. A total of 41 soil samples were collected at 50 m intervals. One sample (RS-4) returned 205 ppm zinc and 10 ppm antimony.



LEGEND

- 300 — COPPER (300 ppm)
- 600 — COPPER (600 ppm)
- 900 — COPPER (900 ppm)
- SOIL LOCATION
- CREEK
- 3500 — CONTOUR
- 4 WD ROAD

500 0 500 1000 1500

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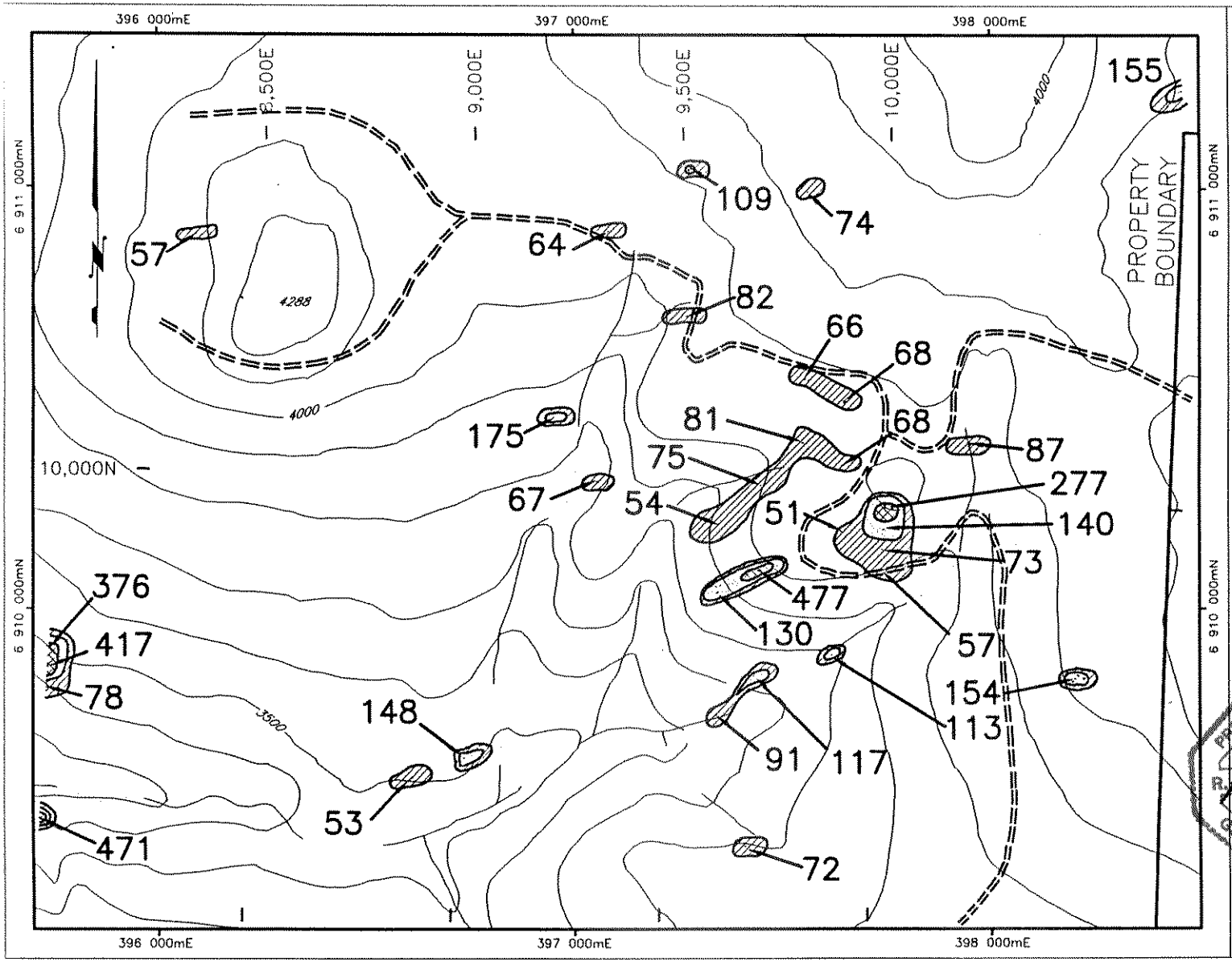
WHITEHORSE MINING DISTRICT

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA

COPPER GEOCHEMISTRY

Aurum Geological Consultants Inc.			JUNE 1993
NTS: 115I/6,7	DRAWN BY S. HANSEN	1:10,000	FIGURE 11



LEGEND

- GOLD (50 ppb)
- GOLD (100 ppb)
- GOLD (200 ppb)
- 4 WD ROAD
- CREEK
- CONTOUR

500 0 500 1000 1500

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Granite Mountain Property
WHITEHORSE MINING DISTRICT

PROFESSIONAL GEOSCIENTIST — PROVINCE OF BRITISH COLUMBIA

GOLD GEOCHEMISTRY

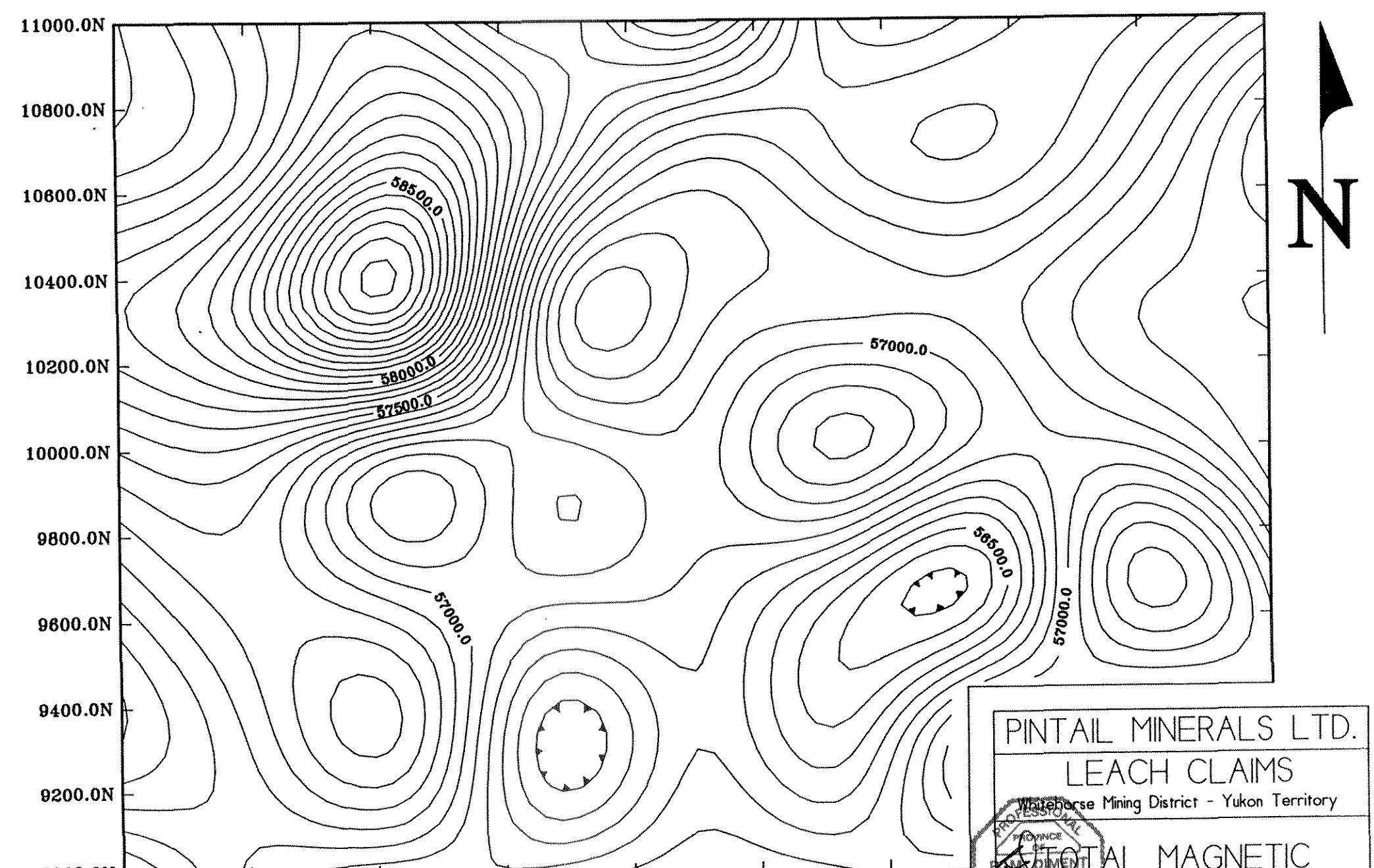
Aurum Geological Consultants Inc.			JUNE 1993
NTS:115I/6,7	DRAWN BY S. HANSEN	1:15,000	FIGURE 12

GEOPHYSICS

Total field magnetic and VLF surveys were conducted on the property by Amerok Geophysics of Whitehorse. Data interpretation was done by Michael Power, M.Sc.

The magnetic survey (Figure 13) was conducted over the entire grid (56 line km) using 12.5 m station spacing. Very high gradient and total field values in the northwest corner of the grid correlate with magnetite veining in granodiorite float. The northeasterly trending magnetic low to the south, paralleling Hart Creek, is interpreted as a fault which defines the contact between the biotite quartz monzonite and Klotassin Granodiorite.

The VLF survey (Figure 14), consisting of 16.25 line km, was centred over Trench 2 and Trenches 3 & 4. Lines 9500 to 10700E were surveyed from 9500 to 10750N. The survey was conducted at 25 m station intervals using the NPM (Lualualei, Hawaii) transmitter. The data were interpreted using a northwest facing direction. Conductor axes generally trend east-west to northeast and follow creek drainages. No response was found over the northwest trending mineralized zones.



PINTAIL MINERALS LTD.

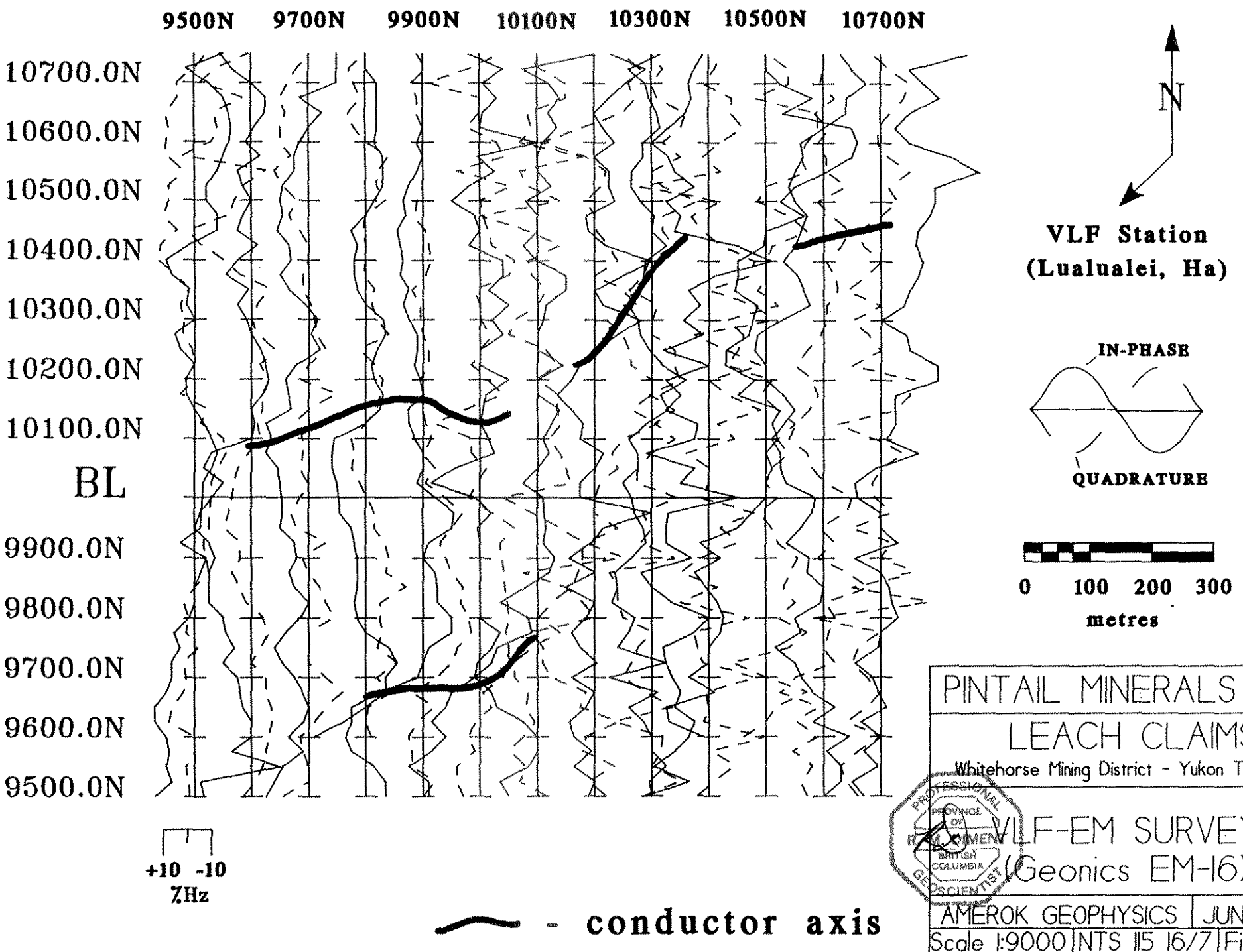
LEACH CLAIMS

Whitehorse Mining District - Yukon Territory

TOTAL MAGNETIC FIELD

AMEROK GEOPHYSICS | JUNE 1993

Scale 1:2000 | NTS 115 16/7 | Figure 13



PINTAIL MINERALS LTD.

LEACH CLAIMS

Whitehorse Mining District - Yukon Territory

VLF-EM SURVEY

(Geonics EM-16)

AMEROK GEOPHYSICS	JUNE 1993	
Scale 1:9000	NTS 115 16/7	Figure 14

CONCLUSIONS AND RECOMMENDATIONS

The Granite Mountain Property is underlain by late Triassic Klotassin granodiorite which has been intruded by a Cretaceous biotite quartz monzonite stock. These rocks are intruded and overlain by Late Cretaceous rhyolite quartz porphyry of the Carmacks suite. Steeply dipping northwest and northeast trending faults cut both the Klotassin granodiorite and biotite quartz monzonite.

Exploration in the late 1960's and early 1970's identified porphyry copper mineralization around the propylitically altered margins of the biotite quartz monzonite stock. Limited work between 1987 and 1992 resulted in the discovered of elevated gold, silver, arsenic, and antimony values in porphyry breccias and altered felsic rocks.

Work conducted in 1993 was directed at evaluating gold potential in the porphyry system, and in epithermal alteration zones outlined by areas of altered felsenmeer. Trenching exposed a 50 m wide area of strong phyllic and argillic alteration associated with a northwest trending vertical shear zone. Significant results from this program include 0.24% Cu over 20 m and 31.4 ppm Ag over 4 m, in Trench 1. Pervasive limonite staining is common and indicates possible leaching of copper sulphides from surface and higher grade supergene and hypogene mineralization at depth. The mineralization exposed in Trench 1 is located 150 m east of any previously discovered mineralization, and this zone is open to the east.

Previous diamond drilling on the property in 1967 and 1971 was widely spaced and the results do not correlate well with surface copper in soil anomalies. The discovery of similar grade mineralization in Trench 1 located 150 m east of previously known mineralization indicates that more detailed trenching is required in this area.

Anomalous gold and copper in soil samples correlate well with the margins of the quartz monzonite stock, however, rock samples collected in trenches returned lower gold values, yielding a maximum of 141 ppb over four metres.

Three soil samples containing greater than 300 ppb Au were collected on the western edge of the property. These anomalies were not trenched and remain open to the west.

An extensive zone of quartz-tourmaline stockwork veining and pervasive silicification associated with a northeasterly striking fault was trenched. Analytical results for gold, silver, arsenic, and antimony were all low; further work is not recommended in this area.

Results of the 1993 exploration program warrant additional work to evaluate the potential for higher grade copper mineralization below an extensive leached zone of strong phyllic and argillic alteration. The following two-stage exploration program, where the second stage is contingent on an economic evaluation of results obtained in the first, is warranted and recommended:

Stage 1

1. Further exploration including trenching along strike of the phyllic/argillic alteration zone to determine its extent on surface. Trench 1 should be extended to the north and the zone should be trenched to extend it to the east.

2. Diamond drilling over areas of greatest alteration and surface leaching to test for supergene and hypogene mineralization at depth. Drill holes should be orientated at -45°, since controls to mineralization are vertical.

Stage 2 (Implemented if Stage 1 yields positive results)

1. Begin systematic drilling over alteration zone in order to define reserves.

2. Carry out additional trenching and drilling focussing on similar northwest trending shear zones around the margins of the quartz monzonite stock.

The costs for the recommended work programs are estimated below:

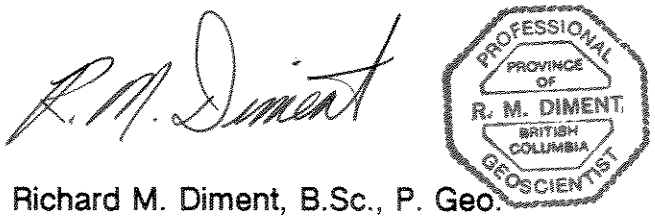
Stage 1

Excavator trenching:	$10,000
Drill pad preparation and road building:	$5,000
HQ diamond drilling: (500 m @ $100/m)	$50,000
Geology and sampling:	$10,000
Support costs (camp, truck, supplies):	$10,000
Analytical:	$10,000
Report preparation:	$7,500
Contingencies:	$7,500
Total Cost, Stage 1	**$110,000**

Stage 2

Excavator trenching:	$25,000
Drill pad preparation and road building:	$15,000
Diamond drilling: (2500 m @ $100/m)	$250,000
Geology and sampling:	$20,000
Analytical:	$30,000
Support costs (camp, truck, supplies):	$30,000
Report preparation:	$10,000
Contingencies:	$10,000
Total Cost, Stage 2:	$390,000
Total Estimated Cost, Stages 1 and 2:	**$500,000**

Respectfully submitted,
Aurum Geological Consultants Inc.



July 27, 1993

Richard M. Diment, B.Sc., P. Geo.

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Yukon Minfile, 1992. Northern Cordilleran Mineral Inventory; Exploration and Geological Services, Department of Indian and Northern Affairs, Whitehorse Yukon.

STATEMENT OF QUALIFICATIONS

I, RICHARD M. DIMENT, with business address:

Aurum Geological Consultants Inc.
P.O. Box 4367
205 - 100 Main Street
Whitehorse, Yukon
Y1A 3T5

do hereby certify that:

1. I am a geologist with AURUM GEOLOGICAL CONSULTANTS INC., P.O. Box 4367, 205-100 Main Street, Whitehorse, Yukon Territory, Y1A 3T5.

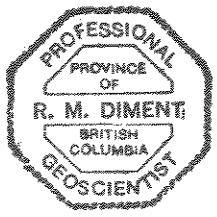
2. I am a graduate of University of British Columbia, with a degree in geology (B.Sc., 1986) and have been involved in geology and mineral exploration continuously since 1980.

3. I am a member of The Association of Professional Engineers and Geoscientists of the Province of British Columbia, Registration No. 20288.

4. I have no direct or indirect interest in the properties or securities of Pintail Minerals Ltd.

5. I am the author of this report on the LEACH 1-30, and LEACH 33-70 claims, Whitehorse Mining District, Yukon, which is based on my personal examination of the ground during June 9-28th, 1993 and on referenced sources.

6. I consent to the use of this report by Pintail Minerals, provided no portion is used out of context in such a manner as to convey a meaning differing from that set out in the whole.



July 27, 1993

Richard M. Diment, B.Sc., P.Geo.

STATEMENT OF COSTS

1993 Assessment Work Valuation: Granite Mountain, Leach Claims

1.	Geological Field Work	
	R. Diment, B.Sc., P.Geol. June 1-30; 30 days @ $300/day	$9,000.00
	M. Elson, B.Sc., May 22-June 30: 35 Days @ $272.25/day	$9,528.75
	L. Steigenburger, B.Sc., May 22-June 30; 35 Days @ $272.25/Day	$9,528.75
	R. Quovadis, Sampler June 1-30; 30 Days @ $181.50	$5,445.00
	Mark Elson, Sampler June 20-30; 10 Days @ $151.23/day	$1,512.30
	J. Miller, Sampler June 12-18; 6.5 Days @ $181.50/day	$1,179.75
	C. Wheeler, Sampler June 12-16; 4 Days @$181.50/day	$726.00
	B. Sauer, Prospector June 25-28; 4 days @$181.50/day	$726.00
	H. MacDonald, Sampler June 15-24; 6 Days @ $151.25	$907.38
	TOTAL FIELD LABOUR	$38,553.93
	Total Assessment Credits Claimed:	$8,800.00

APPENDIX A

Analytical Results

Northern Analytical Laboratories ltd.

01-Jul-93date | Assay Certificate | Page1

Aurum Geological | WO 13949 | Proj. 18

Sample	Au ppb
L8000E 9000N	11
9050N	13
9100N	16
9150N	15
9200N	29
9250N	471
9350N	14
9400N	14
9450N	17
9550N	78
9600N	417
9650N	376
9700N	20
9750N	16
9800N	27
9850N	14
9900N	16
9950N	14
L8000E 10000N	9
10050N	15
10100N	13
10150N	15
10200N	7
10250N	9
10300N	10
10350N	10
10400N	12
10450N	17
10500N	14
10550N	11
10600N	15
10650N	12
10700N	14
10750N	10
10800N	14
10850N	17
10900N	20
10950N	22
L8000E 11000N	12
L8100E 9000N	18
9050N	18
9100N	11

Certified by

105 Copper Road, Whitehorse, YT, Y1A 2Z7 Ph: (403) 668-4968 Fax: (403) 668-4890

Northern Analytical Laboratories ltd.

Aurum Geological

WO 13949

Proj. 18

Sample	Au ppb
9150N	11
9200N	8
9250N	16
9300N	10
9350N	17
9400N	15
9450N	11
9500N	16
9550N	10
9600N	17
9650N	13
9700N	18
9750N	20
9800N	10
9850N	9
9900N	20
9950N	13
L8100E 10000N	12
10050N	18
10100N	18
10150N	15
10200N	17
10250N	17
10300N	20
10350N	18
10400N	17
10450N	21
10500N	19
10550N	18
10600N	18
10650N	9
10700N	57
10750N	13
10800N	10
10850N	15
10900N	18
10950N	14
L8100E 11000N	13
L8200E 9000N	9
9050N	9
9100N	11
9150N	10

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Northern Analytical Laboratories ltd.

01-Jul-93date | Assay Certificate | Page3

Aurum Geological | WO 13949 | Proj. 18

Sample	Au ppb
9200N	11
9250N	7
9300N	11
9350N	8
9400N	16
9450N	15
9500N	13
9550N	7
9600N	15
9650N	22
9700N	15
9750N	17
9800N	13
9850N	17
9900N	17
9950N	13
L8200E 10000N	9
10050N	5
10100N	5
10150N	<5
10200N	10
10250N	11
10300N	5
10350N	8
10400N	24
10450N	7
10500N	29
10550N	9
10600N	9
10650N	6
10700N	<5
10750N	9
10800N	8
10850N	6
10900N	7
10950N	7
L8200E 11000N	9
L8300E 9000N	10
9050N	9
9100N	7
9150N	7
9200N	9

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Northern
Analytical
Laboratories ltd.

Aurum Geological WO 13949

Proj. 18

Sample	Au ppb
9250N	11
9300N	11
9350N	13
9400N	11
9450N	15
9500N	7
9550N	10
9600N	7
9650N	5
9700N	11
9750N	13
9800N	10
9850N	8
9900N	9
9950N	6
L8300E 10000N	7
10050N	12
10100N	9
10150N	<5
10200N	8
10250N	5
10300N	9
10350N	9
10400N	<5
10450N	6
10500N	9
10550N	19
10600N	7
10650N	6
10700N	18
10750N	8
10800N	8
10850N	9
10900N	6
10950N	13
L8300E 11000N	10
L8400E 9050N	9
9100N	11
9150N	5
9200N	9
9250N	5
9300N	6

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Sample	Au ppb
9350N	10
9400N	8
9450N	6
9500N	52
9550N	5
9600N	8
9650N	9
9700N	10
9750N	9
9800N	11
9850N	14
9900N	8
9950N	5
L8400E 10000N	<5
10050N	12
10100N	<5
10150N	<5
10200N	6
10250N	6
10300N	5
10350N	9
10400N	<5
10450N	5
10500N	5
10550N	5
10600N	5
10650N	5
10700N	<5
10750N	5
10800N	<5
10850N	5
10900N	6
10950N	5
L8400E 11000N	10
L8500E 9000N	8
9050N	8
9100N	7
9150N	13
9200N	6
9250N	13
9300N	15
9350N	9

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Sample	Au ppb
9400N	16
9450N	14
9500N	8
9550N	6
9600N	8
9650N	10
9700N	9
9750N	6
9800N	7
9850N	5
9900N	10
9950N	<5
L8500E 10000N	9
10050N	10
10100N	6
10150N	6
10200N	7
10250N	16
10300N	6
10350N	7
10400N	7
10450N	7
10500N	9
10550N	11
10600N	5
10650N	6
10700N	12
10750N	16
10800N	10
10850N	12
10900N	6
10950N	7
L8500E 11000N	9
L8600E 9000N	26
9050N	20
9100N	26
9150N	30
9200N	27
9250N	24
9300N	31
9350N	18
9400N	14

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Sample	Au ppb
9450N	16
9500N	23
9550N	16
9600N	10
9650N	17
9700N	13
9750N	23
9800N	40
9850N	29
9900N	37
9950N	26
L9600E 10000N	13
10050N	13
10100N	9
10150N	11
10200N	7
10250N	8
10300N	11
10350N	6
10400N	<5
10450N	5
10500N	6
10550N	6
10600N	5
10650N	<5
10700N	5
10750N	5
10800N	18
10850N	7
10900N	7
10950N	6
L8600E 11000N	13
L8700E 9000N	47
9050N	11
9100N	10
9150N	11
9200N	14
9250N	8
9300N	9
9350N	6
9400N	<5
9450N	7

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Sample	Au ppb
9500N	<5
9550N	7
9600N	15
9650N	10
9700N	28
9750N	11
9800N	6
9850N	15
9900N	5
9950N	8
L8700E 10000N	14
10050N	18
10100N	14
10150N	9
10200N	9
10250N	10
10300N	9
10350N	11
10400N	15
10450N	8
10500N	32
10550N	9
10600N	8
10650N	7
10700N	10
10750N	10
10800N	3
10850N	7
10900N	7
10950N	11
L8700E 11000N	8
L9800E 9000N	7
9050N	7
9100N	10
9150N	9
9200N	11
9250N	12
9300N	38
9350N	53
9400N	18
9450N	11
9500N	6

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Sample	Au ppb
9550N	7
9600N	5
9650N	9
9700N	6
9750N	5
9800N	6
9850N	5
9900N	7
9950N	12
L8800E 10000N	6
10050N	8
10100N	9
10150N	6
10200N	19
10250N	8
10300N	6
10350N	<5
10400N	14
10450N	5
10500N	8
10550N	6
10600N	6
10650N	7
10700N	15
10750N	7
10800N	9
10850N	9
10900N	9
10950N	9
L8800E 11000N	22
L8900E 9000N	9
9050N	7
9100N	8
9150N	13
9200N	7
9250N	8
9300N	5
9350N	7
9400N	7
9450N	<5
9500N	<5
9550N	6

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Sample	Au ppb
9600N	14
9650N	7
9700N	8
9750N	5
9800N	9
9850N	6
9900N	7
9950N	8
L8900E 10000N	6
10050N	6
10100N	<5
10150N	5
10200N	5
10250N	<5
10300N	<5
10350N	7
10400N	<5
10450N	5
10500N	<5
10550N	6
10600N	I.S.
10650N	<5
10700N	6
10750N	9
10800N	6
10850N	7
10900N	7
10950N	7
L8900E 11000N	10
L9000E 9050N	<5
9100N	8
9150N	8
9200N	5
9250N	5
9300N	5
9350N	5
9400N	148
9450N	12
9500N	12
9550N	<5
9600N	<5
9650N	5

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Sample	Au ppb
9700N	7
9750N	6
9800N	<5
9850N	12
9900N	6
9950N	7
L9000E 10000N	8
10050N	8
10100N	13
10150N	5
10200N	<5
10250N	7
10300N	11
10350N	5
10400N	11
10450N	14
10500N	11
10550N	7
10600N	37
10650N	8
10700N	16
10750N	9
10800N	14
10850N	8
10900N	9
10950N	24
L9000E 11000N	11
L9100E 9000N	10
9050N	11
9100N	8
9150N	13
9200N	9
9250N	5
9300N	6
9350N	5
9450N	40
9500N	8
9550N	17
9600N	8
9650N	11
9700N	10
9750N	8

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Sample	Au ppb
9800N	7
9850N	6
9900N	39
9950N	8
L9100E 10000N	10
10050N	13
10100N	8
10150N	27
10200N	12
10250N	8
10300N	3
10350N	30
10400N	14
10450N	10
10500N	11
10550N	<5
10600N	5
10650N	12
10700N	14
10750N	21
10800N	33
10850N	23
10900N	31
10950N	27
L9100E 11000N	18
L9200E 9000N	19
9050N	18
9100N	31
9150N	17
9200N	22
9250N	15
9300N	16
9350N	14
9400N	14
9450N	14
9500N	11
9550N	5
9600N	<5
9650N	15
9700N	10
9750N	6
9800N	7

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Sample	Au ppb
9850N	16
9900N	13
9950N	8
L9200E 10000N	10
10050N	10
10100N	7
10150N	8
10200N	175
10250N	20
10300N	10
10350N	16
10400N	14
10450N	11
10500N	25
10550N	16
10600N	11
10650N	15
10700N	7
10750N	16
10800N	7
10850N	13
10900N	10
10950N	10
L9200E 11000N	10
L9300E 9000N	14
9050N	9
9100N	11
9150N	7
9200N	<5
9250N	5
9300N	11
9350N	13
9400N	16
9450N	8
9500N	26
9550N	17
9600N	10
9650N	<5
9700N	<5
9750N	12
9800N	10
9850N	5

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Sample	Au ppb
9900N	29
9950N	12
L9300E 10000N	12
10050N	67
10100N	22
10150N	25
10200N	8
10250N	7
10300N	10
10350N	27
10400N	11
10450N	10
10500N	9
10550N	26
10600N	36
10650N	64
10700N	10
10750N	24
10800N	28
10850N	18
10900N	13
10950N	20
L9300E 11000N	31
L9400E 9000N	10
9050N	9
9100N	10
9150N	14
9200N	8
9250N	11
9300N	8
9350N	14
9400N	9
9450N	5
9500N	10
9550N	30
9600N	5
9650N	33
9700N	13
9750N	10
9800N	12
9850N	16
9900N	25

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Sample	Au ppb
9950N	31
L9400E 10000N	5
10050N	37
10100N	13
10150N	20
10200N	20
10250N	36
10300N	36
10350N	11
10400N	19
10450N	15
10500N	11
10550N	11
10600N	9
10650N	7
10700N	9
10750N	12
10800N	7
10850N	9
10900N	9
10950N	10
L9400E 11000N	11
L9500E 9000N	6
9050N	<5
9100N	<5
9150N	8
9200N	9
9250N	5
9300N	6
9350N	<5
9400N	9
9450N	7
9500N	13
9550N	7
9600N	13
9650N	15
9700N	12
9750N	15
9800N	17
9850N	10
9900N	29
9950N	33

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Sample	Au ppb
L9500E 10000N	19
10050N	9
10100N	15
10150N	10
10200N	11
10250N	8
10300N	12
10350N	5
10400N	13
10450N	82
10500N	7
10550N	16
10600N	15
10650N	26
10700N	11
10750N	18
10800N	109
10850N	8
10900N	8
10950N	7
L9500E 11000N	9
L9600E 9000N	5
9050N	5
9100N	16
9200N	8
9250N	7
9300N	8
9350N	5
9400N	7
9450N	15
9500N	91
9550N	44
9600N	8
9650N	19
9700N	10
9750N	21
9800N	130
9850N	29
9900N	27
9950N	54
L9600E 10000N	11
10050N	15

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Sample	Au ppb
10100N	13
10150N	13
10200N	7
10250N	6
10300N	17
10350N	11
10400N	9
10450N	<5
10500N	15
10550N	<5
10600N	5
10650N	9
10700N	11
10750N	26
10800N	27
10850N	9
10900N	8
10950N	7
L9600E 11000N	10
L9700E 9000N	14
9100N	9
9150N	8
9200N	72
9250N	27
9300N	15
9350N	7
9400N	7
9450N	5
9500N	21
9550N	28
9600N	117
9650N	24
9700N	12
9750N	21
9800N	17
9850N	477
9900N	33
9950N	41
L9700E 10000N	13
10050N	75
10100N	19
10150N	5

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Sample	Au ppb
10200N	12
10250N	17
10300N	12
10350N	7
10400N	7
10450N	6
10500N	12
10550N	12
10600N	17
10650N	13
10700N	6
10750N	7
10800N	25
10850N	13
10900N	10
10950N	5
L9700E 11000N	6
L9800E 9000N	6
9050N	<5
9100N	6
9150N	11
9200N	6
9250N	12
9300N	6
9350N	11
9400N	5
9450N	5
9500N	11
9550N	7
9600N	10
9650N	29
9700N	14
9750N	6
9800N	16
9850N	8
9900N	15
9950N	7
L9800E 10000N	8
10050N	18
10100N	39
10150N	81
10200N	46

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Sample	Au ppb
10250N	35
10300N	66
10350N	11
10400N	6
10450N	9
10500N	7
10550N	25
10600N	10
10650N	14
10700N	9
10750N	74
10800N	22
10850N	8
10900N	7
10950N	9
L9800E 11000N	8
L9900E 9000N	12
9050N	8
9100N	8
9150N	7
9200N	7
9250N	6
9300N	8
9350N	6
9400N	8
9450N	11
9500N	10
9550N	16
9600N	15
9700N	28
9750N	12
9800N	32
9850N	11
9900N	12
9950N	51
L9900E 10000N	36
10050N	35
10100N	68
10150N	23
10200N	33
10250N	68
10300N	16

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Sample	Au ppb
10350N	<5
10400N	18
10450N	9
10500N	12
10550N	7
10600N	13
10650N	113
10700N	9
10750N	11
10800N	10
10850N	27
10900N	14
10950N	15
L9900E 11000N	6
L10000E 9000N	8
9050N	6
9100N	9
9150N	6
9200N	6
9350N	6
9400N	9
9450N	7
9500N	6
9550N	9
9600N	11
9650N	10
9700N	8
9750N	14
9800N	42
9850N	57
9900N	73
9950N	140
L10000E 10000N	277
10050N	49
10100N	17
10150N	10
10200N	16
10250N	9
10300N	13
10350N	8
10400N	5
10450N	10

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Sample	Au ppb
10500N	19
10550N	15
10600N	19
10650N	10
10700N	10
10750N	<5
10800N	11
10850N	13
10900N	6
10950N	7
L10000E 11000N	8
L10100E 9000N	<5
9050N	7
9100N	5
9150N	<5
9200N	5
9250N	8
9300N	8
9350N	5
9400N	8
9450N	<5
9500N	8
9550N	6
9600N	10
9650N	12
9700N	<5
9750N	7
9800N	6
9850N	47
9900N	18
9950N	39
L10100E 10000N	20
10050N	8
10100N	43
10150N	20
10200N	13
10250N	29
10300N	17
10350N	5
10400N	9
10450N	11
10500N	12

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Sample	Au ppb
10550N	8
10600N	12
10650N	5
10700N	15
10750N	23
10800N	7
10850N	7
10900N	11
10950N	8
L10100E 11000N	7
L10200E 9000N	7
9050N	6
9100N	7
9150N	6
9200N	5
9250N	13
9300N	7
9350N	<5
9400N	10
9450N	5
9500N	<5
9550N	<5
9600N	7
9650N	6
9700N	14
9750N	10
9800N	13
9850N	21
9900N	24
9950N	9
L10200E 10000N	43
10050N	15
10100N	22
10150N	87
10200N	27
10250N	19
10300N	5
10350N	16
10400N	5
10450N	6
10500N	8
10550N	14

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Sample	Au ppb
10600N	5
10650N	13
10700N	9
10750N	13
10800N	7
10850N	6
10900N	9
10950N	<5
L10200E 11000N	6
L10300E 9000N	34
9050N	7
9100N	<5
9150N	8
9200N	6
9250N	<5
9300N	7
9350N	<5
9400N	5
9450N	9
9500N	7
9550N	5
9600N	12
9650N	7
9700N	8
9750N	5
9800N	10
9850N	13
9900N	7
9950N	36
L10300E 10000N	7
10050N	<5
10100N	7
10150N	31
10200N	7
10250N	9
10300N	11
10350N	12
10400N	17
10450N	13
10500N	6
10550N	6
10600N	14

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Sample	Au ppb
10650N	16
10700N	7
10750N	8
10800N	11
10850N	8
10900N	7
10950N	12
L10300E 11000N	8
L10400E 9000N	7
9050N	7
9100N	5
9150N	6
9200N	<5
9250N	5
9300N	<5
9350N	<5
9400N	8
9450N	<5
9500N	5
9550N	8
9600N	10
9650N	6
9700N	6
9750N	<5
9800N	<5
9850N	10
9900N	8
9950N	6
L10400E 10000N	6
10050N	5
10100N	8
10150N	5
10200N	<5
10250N	9
10300N	8
10350N	11
10400N	6
10450N	<5
10500N	<5
10550N	<5
10600N	<5
10650N	15

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Sample	Au ppb
10700N	6
10750N	5
10800N	5
10850N	<5
10900N	6
10950N	10
L10400E 11000N	<5
L10500E 9000N	6
9050N	9
9100N	5
9150N	9
9200N	6
9350N	7
9400N	15
9550N	7
9600N	154
9650N	6
9700N	7
9750N	6
9800N	9
9850N	12
9900N	12
9950N	10
L10500E 10000N	7
10050N	10
10100N	6
10150N	10
10200N	7
10250N	11
10300N	13
10350N	6
10400N	6
10450N	18
10500N	6
10550N	8
10600N	14
10650N	7
10700N	5
10750N	9
10800N	7
10850N	<5
10900N	7

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Sample	Au ppb
10950N	7
L10500E 11000N	8
L10600E 9000N	8
9050N	7
9100N	6
9150N	7
9200N	7
9250N	9
9300N	11
9350N	10
9400N	11
9450N	10
9500N	13
9550N	12
9600N	12
9650N	13
9750N	12
9800N	10
9850N	16
9900N	11
9950N	7
L10600E 10000N	22
10050N	<5
10150N	5
10200N	5
10250N	6
10300N	<5
10350N	8
10400N	11
10450N	15
10500N	11
10550N	8
10600N	21
10650N	34
10700N	18
10750N	13
10800N	6
10850N	9
10900N	7
10950N	15
L10600E 11000N	9
L10700E 9000N	19

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01-Jul-93date | Assay Certificate | Page27

Aurum Geological | WO 13949 | Proj. 18

Sample	Au ppb
9050N	10
9100N	6
9150N	8
9200N	<5
9250N	5
9300N	<5
9350N	<5
9400N	<5
9450N	<5
9500N	6
9550N	5
9600N	5
9650N	7
9700N	13
9750N	44
9800N	15
9850N	14
9900N	12
9950N	17
L10700E 10000N	14
10050N	12
10100N	12
10150N	17
10200N	<5
10250N	5
10300N	<5
10350N	<5
10400N	<5
10450N	<5
10500N	<5
10550N	<5
10600N	<5
10650N	<5
10700N	17
10750N	<5
10800N	11
10850N	<5
10900N	<5
10950N	<5
L10700E 11000N	155
RS 1	<5
RS 2	<5

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Aurum Geological

WO 13949

Proj. 18

Sample	Au ppb
RS 3	<5
RS 4	8
RS 5	15
RS 6	<5
RS 7	7
RS 8	<5
RS 9	5
RS 10	10
RS 11	11
RS 12	5
RS 13	6
RS 14	6
RS 15	8
RS 16	5
RS 17	<5
RS 18	10
RS 19	6
RS 20	5
RS 21	<5
RS 22	5
RS 23	7
RS 24	<5
RS 25	5
RS 26	9
RS 27	5
RS 28	5
RS 29	<5
RS 30	<5
RS 31	<5
RS 32	<5
RS 33	<5
RS 34	<5
RS 35	7
RS 36	8
RS 37	7
RS 38	5
RS 39	<5
RS 40	<5
RS 41	7
R 64051	95
64052	116
64053	77

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Aurum Geological

WO 13949

Proj. 18

Sample	Au ppb
64054	30
64055	36
64056	42
64057	43
64058	69
64059	39
64060	45
R 64061	51
64062	43
64063	39
64064	57
64065	31
64066	42
64067	43
64068	30
64069	54
64070	50
R 64071	36
64072	34
64073	34
64074	30
64075	32
64076	179
64077	140
64078	141
64079	39
64080	51
R 64081	53
64082	51
64083	41
64084	17
64085	17
64086	16
64087	12
64088	18
64089	20
64090	11
R 64091	30
64092	22
64093	22
64094	19
64095	19

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Aurum Geological WO 13949

Proj. 18

Sample	Au ppb
64096	22
64097	21
64098	36
64099	34
64100	33
R 64101	21
64102	30
64103	19
64104	23
64105	18
64106	19
64107	10
64108	17
64109	39
64110	25
R 64111	9
64112	7
64113	14
64114	12
64115	234
64116	57
64117	41
64118	140
64119	18
64120	27
R 64121	15
64122	14
64123	11
64124	19
R 64201	27
64202	18
64203	23
64204	20

Note: L8100E 9500N noted as no sample was received

Certified by

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CERTIFICATE OF ANALYSIS
iPL 93G0201

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Northern Analytical Laboratories 1251 Samples 0= Rock 0= Soil 0= Core 0=RC Ct 1251= Pulp 0=Other [024716:40:24:39070793]

Out: Jul 07, 1993 Project: 13949 Raw Storage: -- -- -- -- 12Mon/Dis -- Mon=Month Dis=Discard
In : Jul 02, 1993 Shipper: Norm Smith Pulp Storage: -- -- -- -- 12Mon/Dis -- Rtn=Return Arc=Archive
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Analytical Summary

##	Code	Method	Title	Low Limit	High Limit	Units	Description	Element	##
01	721P	ICP	Ag	0.1	100	ppm	Ag ICP	Silver	01
02	711P	ICP	Cu	1	20000	ppm	Cu ICP	Copper	02
03	714P	ICP	Pb	2	20000	ppm	Pb ICP	Lead	03
04	730P	ICP	Zn	1	20000	ppm	Zn ICP	Zinc	04
05	703P	ICP	As	5	9999	ppm	As ICP 5 ppm	Arsenic	05
06	702P	ICP	Sb	5	9999	ppm	Sb ICP	Antimony	06
07	732P	ICP	Hg	3	9999	ppm	Hg ICP	Mercury	07
08	717P	ICP	Mo	1	9999	ppm	Mo ICP	Molydenum	08
09	747P	ICP	Tl	10	999	ppm	Tl ICP 10 ppm	Thallium	09
10	705P	ICP	Bi	2	999	ppm	Bi ICP	Bismuth	10
11	707P	ICP	Cd	0.1	100	ppm	Cd ICP	Cadmium	11
12	710P	ICP	Co	1	999	ppm	Co ICP	Cobalt	12
13	718P	ICP	Ni	1	999	ppm	Ni ICP	Nickel	13
14	704P	ICP	Ba	2	9999	ppm	Ba ICP	Barium	14
15	727P	ICP	W	5	999	ppm	W ICP	Tungsten	15
16	709P	ICP	Cr	1	9999	ppm	Cr ICP	Chromium	16
17	729P	ICP	V	2	999	ppm	V ICP	Vanadium	17
18	716P	ICP	Mn	1	9999	ppm	Mn ICP	Manganese	18
19	713P	ICP	La	2	9999	ppm	La ICP	Lanthanum	19
20	723P	ICP	Sr	1	9999	ppm	Sr ICP	Strontium	20
21	731P	ICP	Zr	1	999	ppm	Zr ICP	Zirconium	21
22	736P	ICP	Sc	1	99	ppm	Sc ICP	Scandium	22
23	726P	ICP	Ti	0.01	1.00	%	Ti ICP	Titanium	23
24	701P	ICP	Al	0.01	99.99	%	Al ICP	Aluminum	24
25	708P	ICP	Ca	0.01	99.99	%	Ca ICP	Calcium	25
26	712P	ICP	Fe	0.01	99.99	%	Fe ICP	Iron	26
27	715P	ICP	Mg	0.01	9.99	%	Mg ICP	Magnesium	27
28	720P	ICP	K	0.01	9.99	%	K ICP	Potassium	28
29	722P	ICP	Na	0.01	5.00	%	Na ICP	Sodium	29
30	719P	ICP	P	0.01	5.00	%	P ICP	Phosphorus	30

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CERTIFICATE OF ANALYSIS
iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 07, 1993 Page 1 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L 8000E	9000NP	0.1	9	15	51	<	<	<	<	<	<	0.2	6	12	165	<	19	31	220	8	23	1	2	0.04	1.20	0.28	1.53	0.47	0.06	0.02	0.06
L 8000E	9050NP	0.1	10	17	54	8	<	<	1	<	<	0.1	16	12	153	<	23	61	1699	9	23	<	2	0.06	1.40	0.27	2.45	0.53	0.07	0.02	0.06
L 8000E	9100NP	0.1	12	18	55	12	<	<	1	<	<	0.2	12	17	128	<	27	56	383	10	28	1	3	0.08	1.82	0.36	2.65	0.68	0.08	0.02	0.07
L 8000E	9150NP	<	11	17	35	7	<	<	1	<	<	<	8	9	68	<	19	50	196	7	27	<	2	0.07	1.46	0.23	2.02	0.34	0.06	0.02	0.07
L 8000E	9200NP	1.5	24	818	531	19	<	<	<	<	<	2.7	7	14	131	<	22	54	241	10	26	1	3	0.05	1.78	0.27	2.52	0.51	0.07	0.02	0.05
L 8000E	9250NP	0.2	15	22	35	11	<	<	3	<	<	0.1	4	6	66	<	12	43	124	5	51	<	1	0.05	1.30	0.14	1.96	0.25	0.04	0.03	0.06
L 8000E	9350NP	0.1	13	32	63	8	<	<	<	<	<	0.4	22	10	125	<	21	45	1910	7	21	<	2	0.04	1.42	0.19	1.81	0.49	0.07	0.03	0.06
L 8000E	9400NP	0.2	18	15	60	9	<	<	1	<	<	0.1	7	9	154	<	21	52	281	12	41	1	3	0.05	1.17	0.57	2.25	0.52	0.05	0.02	0.14
L 8000E	9450NP	0.1	18	14	59	11	<	<	1	<	<	0.2	9	13	163	<	28	53	435	12	34	1	3	0.07	1.36	0.44	2.42	0.70	0.07	0.03	0.09
L 8000E	9550NP	<	21	17	73	25	<	<	1	<	<	0.4	13	20	226	<	36	75	531	8	23	2	4	0.08	2.42	0.20	3.39	0.76	0.08	0.02	0.04
L 8000E	9600NP	0.4	22	18	54	13	<	<	1	<	<	0.3	10	22	159	<	32	60	235	10	23	2	4	0.08	2.07	0.21	2.73	0.66	0.09	0.02	0.04
L 8000E	9650NP	0.4	56	17	44	14	<	<	2	<	<	<	7	9	121	<	20	49	178	8	31	<	2	0.07	1.58	0.27	2.01	0.52	0.08	0.03	0.06
L 8000E	9700NP	0.5	193	24	70	45	<	<	4	<	<	0.2	13	19	184	<	35	75	373	10	30	2	5	0.10	3.00	0.24	3.53	0.75	0.11	0.02	0.05
L 8000E	9750NP	0.3	206	16	52	35	<	<	2	<	<	<	16	15	188	6	28	68	815	11	33	1	4	0.09	2.10	0.31	2.94	0.63	0.09	0.02	0.06
L 8000E	9800NP	0.3	26	12	45	17	<	<	1	<	<	0.1	11	17	191	<	29	69	372	10	29	1	3	0.10	1.93	0.28	2.71	0.58	0.07	0.02	0.04
L 8000E	9850NP	0.1	89	16	54	25	<	<	3	<	<	0.1	12	20	171	5	32	72	300	9	39	2	4	0.11	2.72	0.27	3.26	0.72	0.08	0.03	0.05
L 8000E	9900NP	<	26	13	50	19	<	<	1	<	<	<	11	21	160	<	37	71	243	9	30	3	4	0.11	2.76	0.26	3.07	0.74	0.08	0.02	0.03
L 8000E	9950NP	<	15	13	49	21	<	<	1	<	<	0.1	10	16	136	<	31	67	310	10	22	2	3	0.09	2.23	0.25	2.94	0.64	0.08	0.02	0.06
L 8000E	10000NP	0.2	13	8	36	12	<	<	1	<	<	<	8	8	90	<	17	69	183	6	19	1	2	0.10	1.20	0.18	2.30	0.31	0.04	0.03	0.04
L 8000E	10050NP	0.2	15	10	38	29	<	<	<	<	<	0.1	8	14	110	<	26	53	216	7	30	1	3	0.09	1.69	0.27	2.11	0.53	0.06	0.03	0.04
L 8000E	10100NP	0.2	12	7	37	19	<	<	1	<	<	<	8	11	93	<	20	71	166	7	22	1	2	0.11	1.42	0.20	2.41	0.36	0.05	0.03	0.04
L 8000E	10150NP	0.1	11	2	16	<	<	<	<	<	<	0.1	4	5	64	<	9	23	54	3	12	<	1	0.04	0.93	0.10	0.90	0.12	0.05	0.05	0.03
L 8000E	10200NP	<	22	5	18	<	<	<	<	<	<	0.2	5	2	16	<	4	48	71	2	12	<	<	0.07	0.22	0.14	1.30	0.06	0.03	0.04	0.05
L 8000E	10250NP	0.1	19	11	45	14	<	<	1	<	<	<	11	21	186	<	39	71	221	9	35	1	4	0.11	2.47	0.32	2.91	0.71	0.08	0.02	0.03
L 8000E	10300NP	<	10	2	12	<	<	<	<	<	<	0.1	2	3	33	<	6	21	41	2	12	1	1	0.03	0.43	0.09	0.68	0.08	0.03	0.04	0.02
L 8000E	10350NP	<	9	13	27	6	<	<	1	<	<	<	6	10	89	<	20	52	145	7	20	<	2	0.08	1.34	0.20	1.92	0.38	0.06	0.02	0.03
L 8000E	10400NP	<	22	14	54	21	<	<	1	<	<	0.1	11	23	154	<	32	74	236	9	23	1	3	0.09	2.62	0.20	3.30	0.68	0.12	0.02	0.04
L 8000E	10450NP	<	20	12	52	22	<	<	1	<	<	0.1	14	25	128	<	44	72	335	8	33	3	4	0.13	2.63	0.25	3.25	0.86	0.11	0.02	0.04
L 8000E	10500NP	<	11	11	38	14	<	<	1	<	<	0.2	9	14	100	<	26	64	232	8	16	1	2	0.09	1.56	0.15	2.65	0.47	0.07	0.02	0.04
L 8000E	10550NP	0.2	14	15	33	6	<	<	1	<	<	0.2	8	12	102	<	23	54	173	9	19	1	2	0.08	1.55	0.15	2.08	0.40	0.07	0.03	0.03
L 8000E	10600NP	0.2	28	10	45	13	<	<	1	<	<	<	9	13	108	<	26	66	165	7	23	1	3	0.09	1.74	0.23	2.51	0.44	0.06	0.03	0.05
L 8000E	10650NP	0.2	13	8	25	<	<	<	<	<	<	<	5	6	59	<	11	46	79	3	13	<	1	0.06	0.95	0.12	1.57	0.15	0.04	0.04	0.04
L 8000E	10700NP	<	14	16	42	9	<	<	1	<	<	<	8	13	117	<	28	62	174	8	23	1	3	0.11	2.01	0.26	2.38	0.51	0.07	0.02	0.04
L 8000E	10750NP	0.1	20	13	41	9	<	<	1	<	<	<	8	14	100	<	28	55	189	9	23	1	3	0.09	1.98	0.26	2.30	0.53	0.06	0.02	0.05
L 8000E	10800NP	0.1	32	18	48	21	<	<	1	<	<	<	9	13	98	<	30	64	243	10	26	<	3	0.10	1.72	0.35	2.65	0.60	0.06	0.03	0.09
L 8000E	10850NP	<	19	17	45	17	<	<	1	<	<	<	11	19	115	<	36	63	240	9	28	2	3	0.12	1.96	0.33	2.67	0.76	0.06	0.02	0.05
L 8000E	10900NP	0.2	30	38	37	12	<	<	1	<	<	<	5	11	109	<	20	36	87	5	17	1	2	0.04	1.76	0.14	1.66	0.31	0.06	0.04	0.04
L 8000E	10950NP	<	30	18	41	28	<	<	1	<	2	<	8	13	103	<	25	50	166	7	20	<	3	0.07	1.71	0.22	2.21	0.50	0.07	0.03	0.03
L 8000E	11000NP	<	12	20	44	17	<	<	1	<	<	<	9	16	99	<	32	71	196	9	19	1	3	0.10	1.82	0.22	2.80	0.60	0.07	0.02	0.04
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS

iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 07, 1993 Page 2 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L 8100E	9000NE	<	18	21	46	7	<	<	1	<	<	0.2	7	10	178	<	17	43	429	7	30	1	2	0.05	1.11	0.33	1.73	0.32	0.04	0.03	0.06
L 8100E	9100NE	<	15	26	52	7	<	<	<	<	<	<	10	9	83	<	16	91	243	5	17	1	2	0.11	0.84	0.22	2.80	0.28	0.04	0.04	0.06
L 8100E	9150NE	<	12	19	52	11	<	<	<	<	<	<	7	10	116	<	18	46	309	6	21	<	2	0.05	1.28	0.28	1.79	0.46	0.04	0.03	0.06
L 8100E	9200NE	0.1	29	35	25	<	<	<	<	<	<	<	2	3	47	<	5	14	33	3	13	<	<	0.01	0.55	0.11	0.66	0.08	0.03	0.04	0.04
L 8100E	9250NE	<	23	149	208	26	5	<	1	<	<	0.8	5	8	89	<	12	45	148	8	21	<	1	0.03	1.21	0.19	1.88	0.35	0.06	0.03	0.04
L 8100E	9300NE	0.1	12	22	34	<	<	<	<	<	<	0.1	5	4	32	<	6	52	83	2	11	1	1	0.07	0.62	0.08	1.61	0.07	0.03	0.04	0.02
L 8100E	9350NE	0.2	22	71	160	37	8	<	<	<	<	0.5	12	14	131	<	22	61	432	15	53	1	4	0.06	1.94	0.56	2.68	0.81	0.08	0.03	0.14
L 8100E	9400NE	<	21	22	60	18	<	<	1	<	<	<	8	11	208	<	23	50	336	12	56	1	4	0.07	1.63	0.63	2.21	0.66	0.07	0.03	0.12
L 8100E	9450NE	<	16	21	54	14	<	<	1	<	<	<	8	12	139	<	25	60	261	9	24	1	3	0.07	1.52	0.29	2.49	0.58	0.06	0.02	0.06
L 8100E	9500NE	<	28	25	60	14	<	<	2	<	<	<	8	10	190	<	24	49	263	10	51	1	3	0.07	1.61	0.57	2.15	0.73	0.06	0.03	0.09
L 8100E	9550NE	<	18	24	83	18	<	<	1	<	2	0.1	10	14	173	<	31	56	392	10	32	1	4	0.04	1.59	0.39	2.91	0.73	0.08	0.02	0.07
L 8100E	9600NE	<	39	33	126	28	<	<	2	<	<	0.3	16	19	189	<	38	72	819	10	28	1	5	0.05	2.42	0.30	3.81	0.89	0.09	0.02	0.13
L 8100E	9650NE	<	50	22	51	18	<	<	3	<	<	0.1	10	14	152	<	28	64	278	9	28	2	3	0.09	1.99	0.28	2.66	0.65	0.08	0.03	0.04
L 8100E	9700NE	0.4	84	25	49	27	<	<	3	<	<	<	11	16	184	<	30	73	325	11	30	1	4	0.09	2.21	0.30	2.95	0.63	0.08	0.02	0.04
L 8100E	9750NE	0.7	106	19	38	32	<	<	2	<	<	<	9	11	126	<	18	55	211	6	23	1	3	0.07	1.76	0.21	2.23	0.39	0.06	0.04	0.05
L 8100E	9800NE	0.1	42	20	47	21	<	<	2	<	<	<	11	21	121	5	28	55	247	9	16	2	3	0.08	2.03	0.20	2.56	0.63	0.08	0.02	0.05
L 8100E	9850NE	0.2	49	25	54	27	<	<	3	<	<	<	12	20	153	<	33	75	281	8	28	3	4	0.10	2.51	0.27	3.31	0.75	0.07	0.02	0.05
L 8100E	9900NE	0.1	19	21	49	23	<	<	2	<	<	<	14	18	181	<	34	77	462	9	20	2	3	0.10	2.31	0.18	3.08	0.64	0.06	0.02	0.03
L 8100E	9950NE	0.2	18	17	44	22	<	<	1	<	<	<	9	16	178	5	30	65	257	8	30	1	4	0.09	2.18	0.29	2.60	0.61	0.04	0.03	0.03
L 8100E	10000NE	<	15	16	47	21	<	<	1	<	<	<	12	20	152	<	32	65	306	7	20	2	3	0.09	2.27	0.21	2.75	0.65	0.07	0.02	0.03
L 8100E	10050NE	<	16	27	47	21	<	<	1	<	<	<	12	21	167	<	38	70	273	9	29	3	4	0.12	2.59	0.28	2.99	0.77	0.08	0.03	0.03
L 8100E	10100NE	0.1	18	24	46	14	<	<	1	<	<	<	10	16	130	<	29	64	255	9	21	2	3	0.10	1.93	0.20	2.49	0.55	0.07	0.03	0.03
L 8100E	10150NE	<	15	22	44	19	<	<	1	<	<	<	10	17	114	<	33	59	247	9	38	1	3	0.11	2.00	0.29	2.43	0.62	0.07	0.03	0.04
L 8100E	10200NE	<	16	23	43	23	<	<	1	<	<	<	10	14	96	<	26	71	225	7	23	1	2	0.10	1.64	0.20	2.58	0.50	0.05	0.03	0.03
L 8100E	10250NE	0.2	20	26	34	15	<	<	1	<	<	<	8	12	98	<	22	52	221	7	22	1	2	0.07	1.53	0.19	1.99	0.37	0.06	0.04	0.04
L 8100E	10300NE	<	20	34	51	25	<	<	1	<	2	<	13	18	109	<	38	71	306	9	30	2	3	0.12	2.19	0.27	2.92	0.71	0.09	0.02	0.07
L 8100E	10350NE	<	13	21	39	29	<	<	1	<	<	<	12	19	87	<	48	60	243	7	78	1	3	0.14	2.56	0.40	2.74	0.91	0.10	0.03	0.08
L 8100E	10400NE	<	15	17	38	13	<	<	1	<	<	<	9	14	89	<	25	57	191	6	17	2	2	0.09	1.62	0.15	2.31	0.46	0.06	0.03	0.03
L 8100E	10450NE	<	13	15	41	23	<	<	1	<	<	<	10	17	112	<	32	62	250	7	23	1	3	0.09	1.87	0.20	2.67	0.59	0.07	0.02	0.03
L 8100E	10500NE	<	14	18	41	21	<	<	1	<	<	<	11	15	115	<	33	65	346	7	29	1	3	0.11	1.87	0.24	2.66	0.62	0.07	0.02	0.04
L 8100E	10550NE	0.2	12	9	14	5	<	<	<	<	<	<	2	4	48	<	7	13	27	2	11	<	1	0.02	0.74	0.08	0.62	0.08	0.04	0.05	0.02
L 8100E	10600NE	<	18	19	41	13	<	<	1	<	<	<	7	13	107	<	25	52	145	6	19	<	2	0.07	1.80	0.22	2.14	0.42	0.06	0.03	0.05
L 8100E	10650NE	<	16	20	31	6	<	<	1	<	<	<	5	10	93	<	17	42	78	5	19	<	1	0.06	1.38	0.17	1.59	0.25	0.05	0.04	0.05
L 8100E	10700NE	<	30	19	46	14	<	<	1	<	<	<	9	14	123	<	31	56	259	13	33	2	4	0.11	1.51	0.38	2.24	0.63	0.05	0.03	0.06
L 8100E	10750NE	<	15	18	42	18	<	<	1	<	<	<	10	18	110	<	31	57	194	8	19	2	3	0.09	2.08	0.24	2.61	0.60	0.07	0.02	0.04
L 8100E	10800NE	<	15	14	23	7	<	<	1	<	<	<	5	7	72	<	14	34	91	4	16	<	1	0.05	1.26	0.14	1.35	0.24	0.05	0.04	0.04
L 8100E	10850NE	<	13	16	46	25	<	<	1	<	<	<	9	17	96	<	32	68	207	7	22	1	3	0.11	2.03	0.24	2.68	0.64	0.07	0.02	0.03
L 8100E	10900NE	<	14	19	48	34	<	<	1	<	<	<	9	17	139	6	34	70	199	11	21	2	4	0.11	2.21	0.21	2.71	0.65	0.07	0.02	0.01
L 8100E	10950NE	<	14	31	49	19	<	<	1	<	<	<	9	17	130	<	32	71	221	9	21	1	3	0.11	2.07	0.24	2.81	0.64	0.08	0.03	0.03
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS

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Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 07, 1993 Page 3 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L 8100E	11000NP	<	16	22	41	12	<	<	1	<	<	<	8	16	125	<	28	55	182	8	18	1	3	0.09	1.87	0.23	2.42	0.57	0.06	0.02	0.04
L 8200E	9000NP	<	15	52	125	11	<	<	1	<	<	0.1	10	12	244	<	23	49	777	8	25	<	2	0.04	1.57	0.34	2.06	0.56	0.04	0.02	0.08
L 8200E	9050NP	<	16	49	94	7	<	<	1	<	<	0.2	11	11	212	<	19	43	1211	9	28	<	2	0.04	1.31	0.36	2.03	0.44	0.05	0.03	0.09
L 8200E	9100NP	<	15	48	112	11	<	<	1	<	<	0.3	10	12	186	<	23	47	669	10	23	<	3	0.05	1.42	0.31	2.11	0.55	0.06	0.02	0.07
L 8200E	9150NP	0.2	13	27	71	7	<	<	<	<	<	0.2	9	9	106	5	18	44	354	10	17	<	2	0.04	1.11	0.24	1.83	0.43	0.04	0.02	0.07
L 8200E	9200NP	<	9	27	68	9	<	<	<	<	<	0.2	6	9	113	<	18	41	286	8	21	1	2	0.04	1.08	0.30	1.56	0.50	0.05	0.03	0.07
L 8200E	9250NP	<	10	48	90	24	6	<	<	<	<	0.4	12	12	136	<	21	71	767	8	23	<	2	0.05	1.37	0.31	2.42	0.61	0.06	0.03	0.08
L 8200E	9300NP	<	12	28	21	<	<	<	<	<	<	0.1	3	3	35	<	5	28	58	4	13	<	<	0.03	0.36	0.10	1.10	0.08	0.02	0.03	0.04
L 8200E	9350NP	<	72	24	87	22	<	<	19	<	<	<	14	10	103	<	28	86	1016	13	28	<	2	0.10	0.98	0.54	3.24	0.55	0.06	0.02	0.17
L 8200E	9400NP	<	31	16	16	<	<	<	1	<	<	0.1	5	4	162	<	5	33	191	3	67	1	<	0.04	0.47	1.25	1.05	0.09	0.03	0.04	0.06
L 8200E	9450NP	<	35	24	70	14	<	<	1	<	<	<	10	14	173	<	30	58	523	13	40	2	5	0.04	1.56	0.56	2.82	0.72	0.06	0.02	0.13
L 8200E	9500NP	0.2	25	26	64	18	<	<	2	<	<	<	9	12	171	<	25	55	321	10	44	1	3	0.07	1.59	0.49	2.42	0.68	0.07	0.02	0.09
L 8200E	9550NP	0.3	18	31	88	16	<	<	1	<	<	0.1	9	14	133	<	30	58	385	8	24	1	4	0.03	1.91	0.26	3.05	0.72	0.07	0.02	0.08
L 8200E	9600NP	<	51	25	49	14	<	<	1	<	<	<	7	9	99	<	19	53	213	6	23	<	2	0.06	1.27	0.22	2.12	0.42	0.06	0.02	0.06
L 8200E	9650NP	<	35	28	38	29	<	<	1	<	<	<	6	10	169	<	18	41	154	5	28	<	2	0.05	2.07	0.19	1.98	0.37	0.06	0.04	0.03
L 8200E	9700NP	0.2	56	16	32	11	<	<	1	<	2	<	7	8	126	<	13	57	145	5	27	1	1	0.07	1.24	0.20	2.02	0.25	0.05	0.04	0.05
L 8200E	9750NP	0.1	82	30	58	76	<	<	4	<	<	<	19	18	249	<	32	83	840	10	36	2	4	0.10	2.54	0.30	3.49	0.68	0.08	0.03	0.05
L 8200E	9800NP	<	33	19	46	22	<	<	2	<	<	<	10	20	162	<	30	62	221	8	24	2	3	0.09	2.21	0.23	2.75	0.65	0.06	0.03	0.03
L 8200E	9850NP	<	120	15	35	20	<	<	1	<	<	<	9	13	186	<	21	51	247	13	27	1	3	0.07	1.65	0.30	2.11	0.47	0.05	0.03	0.04
L 8200E	9900NP	<	21	23	47	37	<	<	2	<	<	<	9	15	187	<	28	72	439	7	39	2	4	0.09	2.15	0.39	2.80	0.70	0.06	0.03	0.04
L 8200E	9950NP	0.1	12	19	39	20	<	<	1	<	<	<	8	15	121	<	27	60	238	8	22	2	3	0.09	1.76	0.21	2.35	0.58	0.05	0.02	0.03
L 8200E	10000NP	<	12	20	31	16	<	<	<	<	<	<	6	8	107	<	15	54	137	5	17	1	2	0.08	1.40	0.14	1.88	0.23	0.04	0.03	0.03
L 8200E	10050NP	<	13	15	14	<	<	<	<	<	<	<	1	2	40	<	5	10	25	<	8	<	<	0.01	0.52	0.06	0.42	0.07	0.03	0.04	0.02
L 8200E	10100NP	0.2	12	13	18	<	<	<	<	<	3	0.1	3	6	71	<	9	23	64	2	11	1	1	0.04	0.81	0.08	0.89	0.13	0.04	0.04	0.02
L 8200E	10150NP	<	18	21	50	17	<	<	1	<	<	<	11	16	136	5	28	72	348	9	24	1	3	0.11	1.94	0.22	2.73	0.56	0.05	0.03	0.03
L 8200E	10200NP	<	14	19	41	15	<	<	1	<	<	<	9	15	115	<	25	64	198	7	16	2	3	0.10	1.80	0.17	2.45	0.47	0.07	0.03	0.03
L 8200E	10250NP	<	14	14	45	20	<	<	1	<	<	<	10	20	100	<	31	62	217	9	18	2	3	0.10	2.21	0.20	2.69	0.62	0.08	0.02	0.03
L 8200E	10300NP	<	36	29	30	5	<	<	1	<	<	0.3	5	8	62	<	14	40	109	5	14	1	2	0.07	1.20	0.13	1.54	0.26	0.05	0.04	0.03
L 8200E	10350NP	<	16	16	45	11	<	<	1	<	<	<	10	20	109	<	28	62	240	7	16	4	3	0.09	1.85	0.20	2.70	0.59	0.07	0.03	0.04
L 8200E	10400NP	<	18	19	51	16	<	<	1	<	<	<	12	23	121	<	30	69	264	7	18	4	3	0.10	2.03	0.20	3.00	0.64	0.07	0.02	0.04
L 8200E	10450NP	<	15	17	48	34	<	<	1	<	<	<	9	19	118	<	32	65	235	8	20	2	3	0.10	2.12	0.22	2.81	0.67	0.06	0.02	0.03
L 8200E	10500NP	<	16	19	58	105	6	<	1	<	<	0.2	13	24	160	<	44	80	323	9	30	3	4	0.12	2.83	0.31	3.39	0.88	0.09	0.03	0.05
L 8200E	10550NP	<	17	17	45	21	<	<	1	<	<	<	11	21	128	<	33	59	241	8	22	2	4	0.10	2.30	0.23	2.64	0.67	0.06	0.03	0.03
L 8200E	10600NP	<	12	15	42	15	<	<	1	<	<	<	8	14	92	<	28	59	170	9	23	1	3	0.11	1.74	0.26	2.29	0.58	0.06	0.02	0.04
L 8200E	10650NP	<	16	19	48	17	<	<	1	<	<	<	10	18	109	<	32	65	232	9	24	1	3	0.11	2.00	0.31	2.67	0.66	0.07	0.02	0.06
L 8200E	10700NP	<	14	18	50	17	<	<	1	<	<	<	11	19	117	<	33	71	268	9	24	2	4	0.12	2.18	0.28	2.97	0.69	0.08	0.02	0.04
L 8200E	10750NP	<	16	17	54	17	<	<	1	<	<	<	13	20	113	<	36	64	309	12	37	3	4	0.14	1.98	0.40	2.63	0.77	0.07	0.03	0.05
L 8200E	10800NP	<	15	16	94	14	<	<	1	<	<	<	9	17	120	<	29	61	199	7	25	1	3	0.10	1.94	0.24	2.45	0.56	0.07	0.03	0.04
L 8200E	10850NP	<	14	17	115	15	<	<	1	<	<	<	9	17	123	5	33	64	222	9	28	1	3	0.12	1.85	0.29	2.50	0.67	0.06	0.02	0.05
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 07, 1993 Page 4 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L 8200E	10900NP	<	11	10	22	16	<	<	1	<	<	<	4	5	62	<	9	33	69	3	12	<	1	0.05	0.84	0.13	1.22	0.13	0.04	0.04	0.04
L 8200E	10950NP	0.3	7	7	11	<	<	<	<	<	<	<	2	2	31	<	3	18	30	2	10	<	<	0.02	0.29	0.08	0.57	0.04	0.04	0.04	0.02
L 8200E	11000NP	<	13	13	45	13	<	<	1	<	<	<	9	17	128	<	26	58	234	9	21	1	3	0.08	1.68	0.29	2.44	0.58	0.07	0.02	0.05
L 8300E	9000NP	0.1	29	23	57	<	<	<	1	<	<	0.2	7	6	128	<	13	43	375	5	16	<	1	0.04	0.80	0.18	1.46	0.25	0.04	0.03	0.06
L 8300E	9050NP	0.1	10	15	49	5	<	<	<	<	<	<	11	7	126	<	14	41	999	5	16	<	1	0.05	0.83	0.19	1.49	0.31	0.03	0.03	0.05
L 8300E	9100NP	<	14	19	61	6	<	<	1	<	<	0.3	8	9	142	<	20	45	474	8	19	1	2	0.05	1.09	0.23	1.68	0.42	0.05	0.03	0.06
L 8300E	9150NP	<	19	21	59	11	<	<	<	<	<	0.1	6	9	109	<	15	55	285	10	20	<	2	0.06	0.95	0.24	2.03	0.38	0.04	0.03	0.06
L 8300E	9200NP	0.1	27	20	61	6	<	<	1	<	<	0.2	9	8	116	<	17	49	774	7	19	<	2	0.04	1.14	0.22	1.73	0.43	0.06	0.03	0.06
L 8300E	9250NP	<	9	16	68	13	<	<	<	<	<	0.2	8	11	75	<	25	65	291	9	22	<	3	0.06	1.32	0.33	2.29	0.65	0.06	0.03	0.08
L 8300E	9300NP	0.1	238	23	69	16	<	<	<	<	<	0.2	6	8	60	<	18	39	191	7	23	<	2	0.04	1.00	0.27	1.67	0.48	0.05	0.03	0.08
L 8300E	9350NP	<	82	26	83	16	<	<	5	<	<	0.2	8	10	131	<	20	43	318	9	41	1	3	0.05	1.17	0.67	1.88	0.50	0.05	0.03	0.10
L 8300E	9400NP	<	54	32	74	16	<	<	3	<	<	0.2	17	11	140	<	22	52	1807	10	35	<	3	0.04	1.28	0.45	2.16	0.55	0.06	0.02	0.11
L 8300E	9450NP	0.2	60	39	74	34	<	<	3	<	<	<	12	11	230	<	25	63	1075	14	52	1	3	0.04	1.54	0.61	3.00	0.54	0.05	0.02	0.13
L 8300E	9500NP	<	210	47	122	29	<	<	3	<	<	0.3	13	15	184	<	32	64	885	14	50	1	5	0.06	1.69	0.69	3.22	0.85	0.08	0.03	0.15
L 8300E	9550NP	<	72	28	57	27	<	<	2	<	<	0.2	10	11	135	<	18	57	308	7	37	<	2	0.06	1.45	0.30	2.32	0.53	0.07	0.03	0.05
L 8300E	9600NP	<	44	24	59	28	<	<	2	<	<	<	8	10	123	<	18	58	207	8	36	1	3	0.09	1.69	0.35	2.35	0.63	0.06	0.03	0.08
L 8300E	9650NP	<	12	10	39	5	<	<	1	<	<	<	9	6	36	<	8	94	117	3	18	<	1	0.12	0.55	0.23	2.65	0.13	0.03	0.04	0.08
L 8300E	9700NP	0.5	32	19	38	28	<	<	1	<	<	<	6	8	161	<	12	40	149	7	32	1	3	0.06	1.69	0.27	1.75	0.36	0.08	0.04	0.05
L 8300E	9750NP	<	43	18	38	16	<	<	1	<	<	<	7	12	173	<	20	45	171	6	42	1	3	0.07	1.90	0.40	1.98	0.48	0.07	0.04	0.05
L 8300E	9800NP	<	26	15	35	12	<	<	1	<	<	<	8	9	107	<	15	57	151	5	27	1	2	0.09	1.21	0.27	1.93	0.36	0.04	0.03	0.05
L 8300E	9850NP	<	36	19	55	18	<	<	<	<	<	0.1	12	14	139	<	22	104	223	6	32	1	3	0.13	1.63	0.27	3.36	0.48	0.06	0.03	0.05
L 8300E	9900NP	<	26	10	24	6	<	<	<	<	<	0.1	5	4	36	<	6	51	74	2	12	<	1	0.07	0.50	0.10	1.50	0.10	0.02	0.03	0.02
L 8300E	9950NP	<	10	11	36	5	<	<	1	<	<	<	8	6	30	<	8	80	101	<	9	1	1	0.11	0.51	0.06	2.25	0.12	0.03	0.04	0.01
L 8300E	10000NP	<	13	12	21	16	<	<	<	<	<	<	4	6	71	<	10	30	71	2	14	<	1	0.05	1.04	0.10	1.11	0.14	0.05	0.05	0.03
L 8300E	10050NP	<	11	14	34	18	<	<	1	<	<	<	8	12	93	<	20	58	210	6	16	<	2	0.08	1.34	0.18	2.16	0.38	0.04	0.03	0.04
L 8300E	10100NP	<	15	15	28	10	<	<	<	<	<	<	6	10	85	<	15	44	156	4	14	<	2	0.07	1.25	0.12	1.60	0.26	0.05	0.03	0.02
L 8300E	10150NP	<	8	9	18	5	<	<	<	<	<	<	5	4	46	<	8	38	82	3	11	1	1	0.06	0.66	0.10	1.20	0.12	0.03	0.04	0.03
L 8300E	10200NP	<	16	17	27	8	<	<	<	<	<	0.1	6	8	61	<	17	46	96	6	15	1	2	0.08	1.12	0.13	1.53	0.28	0.06	0.03	0.02
L 8300E	10250NP	0.1	7	9	19	<	<	<	1	<	<	<	5	5	37	<	10	42	68	3	10	<	1	0.06	0.70	0.08	1.32	0.15	0.04	0.03	0.01
L 8300E	10300NP	<	15	9	29	8	<	<	<	<	<	0.2	6	12	103	<	20	42	125	6	16	3	2	0.07	1.84	0.13	1.79	0.35	0.06	0.03	0.02
L 8300E	10350NP	<	14	12	33	9	<	<	<	<	<	<	6	11	86	<	18	43	139	5	15	<	1	0.05	1.31	0.15	1.78	0.34	0.05	0.03	0.04
L 8300E	10400NP	<	13	14	36	10	<	<	1	<	<	0.2	8	14	100	<	23	52	216	8	18	1	2	0.08	1.50	0.21	2.12	0.44	0.07	0.02	0.05
L 8300E	10450NP	<	17	14	46	10	<	<	1	<	<	<	9	16	131	<	29	57	232	10	23	2	3	0.09	1.92	0.29	2.37	0.61	0.08	0.02	0.05
L 8300E	10500NP	<	14	9	45	42	12	5	<	<	<	0.8	9	21	121	<	29	58	215	8	20	2	3	0.09	2.02	0.23	2.51	0.63	0.09	0.02	0.04
L 8300E	10550NP	<	11	11	41	11	<	<	1	<	<	<	8	15	103	<	26	56	192	8	22	1	3	0.08	1.71	0.28	2.43	0.56	0.07	0.02	0.05
L 8300E	10600NP	0.1	16	14	54	22	5	4	<	<	<	0.3	10	20	142	<	34	71	224	11	26	1	3	0.10	2.31	0.28	2.85	0.70	0.10	0.02	0.05
L 8300E	10650NP	0.1	18	13	43	8	<	<	<	<	<	0.1	8	16	102	<	27	55	186	9	22	1	3	0.09	1.77	0.25	2.29	0.59	0.08	0.02	0.04
L 8300E	10700NP	<	19	11	59	31	8	3	<	<	<	0.3	12	24	183	<	36	70	345	11	32	2	4	0.12	2.28	0.36	3.01	0.77	0.10	0.03	0.07
L 8300E	10750NP	<	17	15	45	8	<	<	1	<	<	0.1	8	17	124	<	27	57	186	10	21	1	3	0.09	1.88	0.23	2.36	0.57	0.08	0.02	0.04
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS

iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 07, 1993 Page 5 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L 8300E	10800NE	<	14	13	41	10	<	<	1	<	<	<	10	18	88	<	30	55	208	8	22	3	3	0.10	2.17	0.24	2.44	0.61	0.07	0.02	0.05
L 8300E	10850NE	<	15	10	44	14	<	<	1	<	<	0.1	10	18	96	<	31	63	216	8	20	3	3	0.10	2.27	0.23	2.74	0.64	0.08	0.02	0.04
L 8300E	10900NE	<	13	13	23	17	<	<	<	<	<	0.1	5	5	54	<	9	40	135	3	14	<	1	0.05	0.73	0.14	1.38	0.13	0.04	0.04	0.05
L 8300E	10950NE	<	15	15	49	15	<	<	1	<	<	<	9	16	159	<	29	68	247	9	18	1	3	0.09	2.05	0.20	2.97	0.51	0.07	0.02	0.03
L 8300E	11000NE	<	13	14	51	20	6	<	<	<	<	0.2	10	17	138	<	29	61	291	10	28	1	3	0.10	1.79	0.28	2.42	0.55	0.06	0.03	0.04
L 8400E	9050NE	<	9	18	69	<	<	<	1	<	<	0.3	7	9	156	<	18	39	499	9	23	1	2	0.05	1.14	0.32	1.67	0.43	0.05	0.02	0.08
L 8400E	9100NE	<	19	21	71	6	<	<	1	<	<	0.2	10	11	200	<	21	53	818	10	26	<	2	0.05	1.35	0.33	2.11	0.48	0.06	0.03	0.08
L 8400E	9150NE	<	19	27	68	<	<	<	<	<	<	0.3	9	11	181	<	20	40	814	8	25	<	2	0.04	1.22	0.33	1.62	0.50	0.06	0.03	0.07
L 8400E	9200NE	<	8	25	57	8	<	<	1	<	<	0.3	14	8	111	<	18	58	1522	9	20	1	2	0.06	0.91	0.30	2.05	0.43	0.05	0.02	0.08
L 8400E	9250NE	<	14	17	69	7	<	<	1	<	<	0.3	9	11	123	<	24	48	509	10	26	1	3	0.04	1.16	0.40	1.94	0.62	0.06	0.03	0.09
L 8400E	9300NE	0.2	6	9	8	<	<	<	<	<	<	<	3	2	13	<	4	20	40	2	7	1	1	0.03	0.35	0.06	0.68	0.04	0.03	0.04	0.02
L 8400E	9350NE	<	96	22	89	24	<	<	16	<	<	0.3	10	11	124	<	23	45	561	12	26	<	3	0.05	1.19	0.48	2.10	0.53	0.06	0.02	0.14
L 8400E	9400NE	0.2	29	22	52	7	<	<	2	<	<	0.2	5	7	141	<	14	38	202	15	28	1	3	0.03	1.01	0.35	1.66	0.30	0.06	0.04	0.06
L 8400E	9450NE	<	10	18	19	<	<	<	<	<	<	<	2	<	21	<	2	16	25	<	8	<	<	0.02	0.23	0.05	0.49	0.03	0.04	0.04	0.02
L 8400E	9500NE	<	4	6	9	<	<	<	<	<	<	0.1	1	1	18	<	2	16	23	<	8	<	<	0.02	0.18	0.04	0.48	0.03	0.02	0.04	0.01
L 8400E	9550NE	0.1	14	11	25	<	<	<	<	<	<	0.3	3	3	46	<	6	26	59	2	11	<	1	0.04	0.52	0.07	0.89	0.08	0.04	0.04	0.02
L 8400E	9600NE	0.1	43	20	54	12	<	<	1	<	<	0.2	6	10	112	<	20	47	137	6	28	<	3	0.06	1.73	0.24	1.99	0.44	0.07	0.03	0.04
L 8400E	9650NE	0.1	27	13	22	<	<	<	1	<	<	0.1	3	5	72	<	8	18	43	3	22	<	1	0.03	0.88	0.17	0.86	0.13	0.05	0.04	0.03
L 8400E	9700NE	<	17	16	24	9	<	<	<	<	<	0.2	5	7	73	<	13	36	99	4	16	<	1	0.06	0.88	0.15	1.30	0.26	0.05	0.03	0.02
L 8400E	9750NE	<	15	15	33	18	<	<	1	<	<	0.2	7	9	53	<	17	62	133	7	13	1	2	0.09	1.25	0.14	2.12	0.37	0.04	0.02	0.03
L 8400E	9800NE	<	38	19	33	23	<	<	1	<	<	<	7	11	179	<	18	48	158	8	30	1	2	0.06	1.91	0.27	2.05	0.44	0.06	0.03	0.04
L 8400E	9850NE	<	45	30	47	27	<	<	1	<	<	<	8	12	216	<	23	50	185	9	36	1	4	0.07	2.80	0.28	2.36	0.53	0.08	0.03	0.07
L 8400E	9900NE	<	12	12	31	13	<	<	1	<	<	0.1	6	7	83	<	12	54	116	4	17	1	2	0.08	1.23	0.15	1.82	0.25	0.05	0.04	0.04
L 8400E	9950NE	<	12	11	33	12	<	<	1	<	<	0.1	8	9	90	<	16	65	217	4	16	<	2	0.09	1.25	0.15	2.11	0.26	0.05	0.03	0.04
L 8400E	10000NE	<	7	4	26	<	<	<	<	<	<	0.1	6	6	58	<	9	62	106	2	12	1	1	0.09	0.77	0.13	1.84	0.13	0.03	0.04	0.04
L 8400E	10050NE	0.2	17	17	46	16	<	<	1	<	<	<	11	16	133	<	30	81	326	9	24	2	3	0.12	2.09	0.20	2.98	0.61	0.06	0.02	0.02
L 8400E	10100NE	<	10	7	10	<	<	<	<	<	<	0.1	3	2	25	<	3	13	162	2	8	1	1	0.02	0.37	0.07	0.45	0.04	0.04	0.05	0.02
L 8400E	10150NE	<	10	11	33	7	<	<	<	<	<	0.1	8	9	68	<	15	71	146	5	17	1	2	0.10	1.00	0.17	2.25	0.27	0.04	0.03	0.03
L 8400E	10200NE	<	28	18	33	15	<	<	<	<	<	0.1	7	14	120	<	23	54	180	10	22	2	3	0.08	1.62	0.20	2.15	0.42	0.07	0.02	0.02
L 8400E	10250NE	0.1	12	12	29	13	<	<	<	<	<	0.3	8	13	104	<	19	46	177	6	17	2	2	0.08	1.50	0.17	1.87	0.34	0.07	0.04	0.03
L 8400E	10300NE	<	20	13	40	11	<	<	1	<	<	<	10	15	112	<	24	58	348	8	13	3	3	0.08	1.75	0.14	2.34	0.40	0.07	0.02	0.03
L 8400E	10350NE	0.1	18	14	43	13	<	<	1	<	<	0.1	10	19	102	<	30	60	215	9	21	3	3	0.09	1.91	0.21	2.53	0.58	0.07	0.02	0.03
L 8400E	10400NE	<	14	13	41	15	<	<	1	<	<	<	9	19	99	<	27	58	197	9	21	2	3	0.08	1.72	0.21	2.55	0.54	0.08	0.02	0.08
L 8400E	10450NE	0.1	10	5	18	<	<	<	<	<	4	<	4	6	62	<	14	36	67	3	11	<	1	0.06	0.90	0.09	1.29	0.18	0.03	0.04	0.03
L 8400E	10500NE	<	7	12	25	<	<	<	<	<	<	0.2	5	7	66	<	13	39	101	4	15	<	1	0.06	0.99	0.15	1.54	0.22	0.03	0.04	0.04
L 8400E	10550NE	<	13	13	26	13	<	<	1	<	<	<	5	8	91	<	16	37	121	5	18	1	1	0.05	1.36	0.17	1.45	0.27	0.06	0.04	0.04
L 8400E	10600NE	<	12	20	37	17	<	<	1	<	<	0.2	7	12	97	<	25	72	221	8	22	1	2	0.10	1.57	0.24	2.71	0.46	0.07	0.02	0.08
L 8400E	10650NE	<	15	15	34	9	<	<	1	<	<	0.1	7	11	106	<	18	41	204	7	21	<	2	0.06	1.36	0.22	1.79	0.37	0.06	0.03	0.04
L 8400E	10700NE	<	8	4	14	<	<	<	1	<	<	0.1	4	4	46	<	8	24	56	4	10	<	1	0.04	0.67	0.08	0.85	0.12	0.05	0.04	0.01
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS

iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 07, 1993 Page 6 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L 8400E 10750NE	<	10	5	43	<	<	<	1	<	<	0.2	4	4	50	<	8	28	59	4	11	1	1	0.05	0.74	0.08	1.02	0.11	0.04	0.04	0.02
L 8400E 10800NE	<	11	12	53	13	<	<	1	<	<	<	5	7	50	<	14	43	102	6	19	1	1	0.07	0.89	0.18	1.52	0.25	0.04	0.03	0.03
L 8400E 10850NE	<	18	17	50	16	<	<	1	<	<	<	9	16	137	<	27	55	309	8	29	1	3	0.08	1.82	0.35	2.29	0.50	0.07	0.03	0.06
L 8400E 10900NE	<	13	21	31	7	<	<	<	<	<	<	5	8	78	<	14	36	113	5	20	<	1	0.05	0.93	0.20	1.40	0.27	0.04	0.03	0.03
L 8400E 10950NE	<	6	4	16	<	<	<	<	<	<	0.2	3	3	35	<	5	24	36	2	11	<	<	0.04	0.35	0.12	0.74	0.07	0.03	0.04	0.04
L 8400E 11000NE	<	5	6	13	<	<	<	<	<	<	0.2	2	3	31	<	4	15	27	2	9	<	<	0.02	0.24	0.06	0.50	0.06	0.03	0.04	0.02
L 8500E 9000NE	0.1	9	11	35	<	<	<	1	<	<	0.3	4	4	115	<	8	32	151	5	19	<	1	0.04	0.47	0.23	1.11	0.16	0.04	0.04	0.05
L 8500E 9050NE	0.1	15	26	83	6	<	<	<	<	<	0.4	8	12	267	<	24	45	355	11	33	<	3	0.04	1.49	0.42	1.89	0.55	0.06	0.03	0.07
L 8500E 9100NE	0.1	15	32	74	5	<	<	1	<	<	0.3	10	9	169	<	19	43	818	8	26	<	2	0.04	1.15	0.34	1.67	0.48	0.05	0.03	0.07
L 8500E 9150NE	0.2	10	40	77	8	<	<	1	<	<	0.1	8	11	125	<	22	51	414	7	21	<	2	0.04	1.35	0.29	2.02	0.54	0.05	0.02	0.08
L 8500E 9200NE	0.1	10	15	58	5	<	<	1	<	<	0.2	6	9	99	<	21	45	303	7	21	1	3	0.02	1.07	0.32	1.86	0.51	0.04	0.02	0.09
L 8500E 9250NE	0.1	15	22	70	8	<	<	1	<	<	0.2	12	9	140	<	22	53	2009	8	23	<	3	0.03	1.19	0.35	2.18	0.56	0.05	0.02	0.09
L 8500E 9300NE	<	10	22	77	10	<	<	1	<	<	0.3	12	12	168	<	27	58	1104	14	29	<	4	0.03	1.47	0.47	2.51	0.68	0.05	0.02	0.12
L 8500E 9350NE	<	29	17	66	11	<	<	2	<	<	0.2	10	14	209	<	27	52	604	11	32	<	3	0.04	1.50	0.49	2.52	0.65	0.07	0.02	0.09
L 8500E 9400NE	<	28	21	70	10	<	<	2	<	<	<	9	14	89	<	28	53	356	9	26	1	4	0.04	1.60	0.42	2.55	0.69	0.08	0.02	0.09
L 8500E 9450NE	0.3	48	33	67	16	<	<	2	<	<	0.2	9	10	122	<	23	47	332	9	27	1	3	0.05	1.46	0.39	2.06	0.48	0.08	0.03	0.07
L 8500E 9500NE	<	52	35	80	21	<	<	4	<	<	<	8	10	59	<	27	67	278	8	20	<	3	0.07	1.67	0.29	2.55	0.60	0.06	0.02	0.07
L 8500E 9550NE	0.2	33	15	37	8	<	<	1	<	<	0.3	6	7	72	<	14	50	121	6	19	<	2	0.06	0.99	0.19	1.90	0.26	0.05	0.04	0.05
L 8500E 9600NE	0.2	29	13	27	9	<	<	1	<	<	<	5	6	86	<	12	33	127	5	23	1	1	0.04	1.07	0.21	1.55	0.20	0.04	0.04	0.05
L 8500E 9650NE	<	9	5	15	9	<	<	1	<	<	<	3	2	51	<	5	36	47	2	15	<	1	0.04	0.58	0.15	1.30	0.07	0.02	0.05	0.05
L 8500E 9700NE	<	17	13	38	14	<	<	2	<	<	<	8	13	119	<	25	53	211	8	16	1	3	0.08	1.73	0.16	2.26	0.48	0.06	0.02	0.03
L 8500E 9750NE	<	19	14	36	16	<	<	1	<	<	<	9	14	150	<	25	58	199	7	23	1	3	0.08	1.98	0.20	2.35	0.47	0.05	0.03	0.04
L 8500E 9800NE	<	22	17	45	21	<	<	1	<	<	<	11	18	156	<	31	72	267	9	23	3	4	0.10	2.47	0.20	2.95	0.64	0.07	0.02	0.04
L 8500E 9850NE	<	22	14	30	14	<	<	1	<	<	<	8	10	98	<	19	49	195	6	19	1	2	0.08	1.36	0.16	2.01	0.41	0.06	0.03	0.04
L 8500E 9900NE	<	15	15	25	14	<	<	1	<	<	0.1	6	10	138	<	17	43	124	4	19	1	2	0.06	1.83	0.11	1.73	0.32	0.07	0.04	0.02
L 8500E 9950NE	<	6	3	14	<	<	<	<	<	<	0.1	4	4	56	<	7	31	59	2	10	<	1	0.05	0.77	0.10	1.07	0.09	0.04	0.05	0.03
L 8500E 10000NE	<	16	15	39	18	<	<	1	<	<	<	9	18	130	<	29	53	165	8	19	3	3	0.08	2.20	0.22	2.49	0.59	0.06	0.02	0.04
L 8500E 10050NE	<	15	12	40	12	<	<	1	<	<	<	8	16	116	<	25	56	193	7	13	2	3	0.08	1.70	0.13	2.32	0.48	0.05	0.02	0.02
L 8500E 10100NE	<	5	<	12	<	<	<	<	<	<	0.1	3	3	34	<	4	24	42	2	9	<	<	0.04	0.40	0.10	0.77	0.05	0.03	0.04	0.03
L 8500E 10150NE	<	12	14	37	11	<	<	1	<	<	<	8	15	117	<	24	47	173	7	17	2	2	0.06	1.68	0.16	2.14	0.49	0.06	0.02	0.04
L 8500E 10200NE	0.1	10	15	34	8	<	<	1	<	<	<	7	12	109	<	21	55	162	5	17	1	2	0.07	1.57	0.16	2.05	0.39	0.05	0.02	0.02
L 8500E 10250NE	0.1	14	15	44	16	<	<	<	<	<	<	9	18	145	<	28	51	239	7	27	1	3	0.07	1.82	0.25	2.27	0.56	0.07	0.03	0.03
L 8500E 10300NE	0.1	7	12	25	6	<	<	1	<	<	0.1	5	8	52	<	14	41	107	4	12	<	1	0.06	0.84	0.11	1.49	0.26	0.06	0.03	0.04
L 8500E 10350NE	<	10	16	29	9	<	<	1	<	<	0.2	7	11	66	<	19	47	147	6	13	1	2	0.07	1.26	0.14	1.84	0.35	0.06	0.03	0.02
L 8500E 10400NE	<	11	11	32	6	<	<	<	<	<	<	7	12	80	<	20	51	181	6	15	1	2	0.08	1.40	0.16	2.04	0.37	0.06	0.03	0.03
L 8500E 10450NE	<	10	10	22	5	<	<	<	<	<	<	5	6	54	<	10	45	110	5	12	1	1	0.07	0.80	0.14	1.50	0.17	0.05	0.04	0.05
L 8500E 10500NE	<	13	17	35	8	<	<	1	<	<	0.3	6	11	97	<	17	48	157	6	20	1	2	0.07	1.13	0.16	1.88	0.31	0.05	0.03	0.03
L 8500E 10550NE	0.1	18	19	47	34	<	<	1	<	<	<	8	15	127	<	25	56	284	7	22	<	3	0.06	1.84	0.22	2.37	0.52	0.07	0.03	0.05
L 8500E 10600NE	<	4	4	17	<	<	<	<	<	<	<	4	3	20	<	5	43	71	2	8	<	<	0.06	0.30	0.07	1.29	0.09	0.03	0.03	0.02
Min Limit	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*	99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS

iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 07, 1993 Page 7 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L 8500E	10650NP	<	4	7	8	<	<	<	<	<	<	<	2	1	14	<	2	17	24	<	8	<	<	0.03	0.21	0.05	0.55	0.03	0.03	0.04	0.01
L 8500E	10700NP	<	14	14	41	19	<	<	1	<	4	<	10	17	107	<	28	54	281	9	21	2	3	0.08	1.66	0.27	2.37	0.57	0.07	0.02	0.05
L 8500E	10750NP	0.1	24	18	40	13	<	<	1	<	<	0.1	7	14	102	<	22	47	174	9	22	1	2	0.06	1.59	0.24	1.95	0.41	0.06	0.03	0.05
L 8500E	10800NP	<	4	6	13	<	<	<	<	<	<	0.2	3	2	15	<	3	24	47	2	7	<	<	0.04	0.23	0.05	0.74	0.05	0.03	0.04	0.01
L 8500E	10850NP	<	21	15	30	14	<	<	<	<	<	0.1	7	9	93	<	14	44	188	7	19	<	2	0.06	1.11	0.23	1.65	0.25	0.05	0.04	0.05
L 8500E	10900NP	<	2	3	8	<	<	<	<	<	<	<	1	1	12	<	2	17	32	<	7	<	<	0.02	0.26	0.05	0.56	0.03	0.02	0.04	0.03
L 8500E	10950NP	<	12	10	24	15	<	<	1	<	<	0.1	4	7	74	<	12	23	108	5	14	1	1	0.03	0.85	0.14	0.98	0.20	0.04	0.04	0.04
L 8500E	11000NP	<	14	15	34	13	<	<	1	<	<	0.2	7	11	126	<	19	43	130	9	18	1	2	0.05	1.25	0.24	1.66	0.34	0.05	0.03	0.07
L 8600E	9000NP	<	8	24	73	5	<	<	<	<	<	<	10	13	147	<	30	49	306	9	30	1	3	0.07	1.70	0.55	2.39	0.94	0.05	0.02	0.12
L 8600E	9050NP	<	64	12	10	<	<	<	<	<	<	0.1	2	2	56	<	4	11	44	3	16	1	1	0.02	0.25	0.18	0.41	0.06	0.03	0.05	0.04
L 8600E	9100NP	<	45	13	42	<	<	<	1	<	<	<	8	7	99	<	13	75	212	4	24	1	1	0.09	0.66	0.32	2.33	0.19	0.04	0.04	0.08
L 8600E	9150NP	<	12	21	58	7	<	<	1	<	<	<	9	11	158	<	24	44	326	9	21	1	3	0.06	1.53	0.35	2.02	0.63	0.04	0.02	0.08
L 8600E	9200NP	<	34	44	121	21	<	<	<	<	<	0.2	16	19	107	<	56	84	1034	10	32	1	6	0.01	2.17	0.71	3.99	1.60	0.04	0.02	0.16
L 8600E	9250NP	0.1	11	33	95	16	<	<	1	<	<	<	11	12	148	<	28	61	383	15	30	<	5	0.02	1.60	0.65	3.10	0.82	0.05	0.03	0.10
L 8600E	9300NP	0.1	66	30	70	36	<	<	21	<	<	0.2	15	10	152	<	23	72	566	10	36	1	3	0.05	1.33	0.69	3.64	0.47	0.04	0.03	0.12
L 8600E	9350NP	0.2	30	13	48	7	<	<	1	<	<	0.2	8	8	151	<	14	50	310	12	39	1	3	0.06	1.15	0.56	1.98	0.28	0.04	0.03	0.08
L 8600E	9400NP	<	32	21	68	11	<	<	2	<	<	0.2	10	12	128	<	28	51	322	10	27	1	3	0.07	1.61	0.37	2.32	0.61	0.06	0.02	0.06
L 8600E	9450NP	0.1	29	21	52	9	<	<	2	<	<	0.2	6	10	101	<	22	43	159	7	22	1	2	0.05	1.43	0.29	1.87	0.42	0.06	0.03	0.04
L 8600E	9500NP	<	23	17	49	10	<	<	1	<	<	0.2	7	9	83	<	19	51	165	8	20	<	2	0.07	1.06	0.31	1.85	0.39	0.05	0.02	0.06
L 8600E	9550NP	0.1	28	19	43	35	<	<	6	<	3	<	8	10	117	<	19	58	301	7	27	<	2	0.05	1.17	0.35	2.25	0.33	0.04	0.03	0.06
L 8600E	9600NP	<	23	15	40	14	<	<	2	<	<	0.2	8	9	104	<	19	44	242	9	23	1	2	0.07	1.08	0.30	1.74	0.37	0.05	0.02	0.06
L 8600E	9650NP	<	28	18	43	21	<	<	3	<	<	0.2	8	10	132	<	22	45	272	9	24	1	2	0.07	1.37	0.28	1.80	0.45	0.06	0.03	0.04
L 8600E	9700NP	0.1	26	14	33	13	<	<	1	<	<	0.1	9	11	166	<	19	38	281	7	24	<	2	0.05	1.36	0.34	1.77	0.40	0.05	0.03	0.05
L 8600E	9750NP	<	32	16	28	8	<	<	1	<	<	<	6	6	81	<	11	42	116	5	15	1	1	0.06	0.79	0.22	1.48	0.24	0.05	0.04	0.05
L 8600E	9800NP	<	22	10	42	18	<	<	2	<	<	<	8	14	137	<	28	55	241	10	25	1	4	0.11	1.50	0.34	2.23	0.67	0.06	0.03	0.04
L 8600E	9850NP	<	12	11	23	6	<	<	1	<	<	<	5	5	63	<	9	44	72	3	17	1	1	0.06	0.78	0.16	1.46	0.14	0.05	0.04	0.05
L 8600E	9900NP	0.1	18	17	42	15	<	<	1	<	<	<	9	17	122	<	28	61	199	8	18	2	3	0.09	1.95	0.17	2.44	0.57	0.06	0.02	0.03
L 8600E	9950NP	<	54	14	38	13	<	<	1	<	<	<	7	14	139	<	24	54	142	7	23	1	3	0.07	1.90	0.18	2.22	0.39	0.06	0.03	0.04
L 8600E	10000NP	<	19	18	48	18	<	<	<	<	<	<	10	20	180	<	34	66	282	9	26	1	4	0.08	2.48	0.21	2.86	0.62	0.08	0.02	0.03
L 8600E	10050NP	<	14	18	41	11	<	<	1	<	<	0.1	10	17	123	<	30	63	238	9	22	2	3	0.09	1.83	0.19	2.51	0.56	0.07	0.02	0.03
L 8600E	10100NP	<	13	15	43	11	<	<	1	<	<	<	9	18	133	<	31	63	208	8	17	1	3	0.09	2.14	0.17	2.60	0.59	0.07	0.02	0.03
L 8600E	10150NP	<	14	12	41	14	<	<	2	<	<	<	10	18	123	<	27	67	192	7	17	1	3	0.09	1.86	0.16	2.70	0.51	0.06	0.02	0.03
L 8600E	10200NP	<	18	15	46	16	<	<	2	<	<	<	12	24	160	<	31	58	276	9	24	1	3	0.09	2.27	0.22	2.65	0.61	0.09	0.02	0.04
L 8600E	10250NP	<	12	12	23	5	<	<	<	<	<	0.1	6	9	96	<	12	41	96	5	11	1	1	0.06	1.12	0.10	1.46	0.18	0.04	0.04	0.02
L 8600E	10300NP	<	15	19	48	15	<	<	1	<	<	<	11	21	129	<	31	67	220	8	21	4	3	0.10	2.21	0.20	2.88	0.62	0.09	0.02	0.04
L 8600E	10350NP	<	14	16	43	15	<	<	1	<	<	<	9	19	114	<	28	59	224	10	29	1	3	0.09	1.75	0.33	2.43	0.57	0.07	0.03	0.06
L 8600E	10400NP	<	12	17	39	9	<	<	<	<	<	<	8	16	99	<	25	53	201	9	27	2	3	0.08	1.51	0.32	2.20	0.52	0.07	0.03	0.06
L 8600E	10450NP	<	15	16	44	9	<	<	1	<	<	0.2	8	15	81	<	26	59	191	10	24	2	3	0.08	1.47	0.25	2.34	0.52	0.07	0.02	0.03
L 8600E	10500NP	<	20	24	59	19	<	<	1	<	<	<	12	28	148	<	37	65	235	9	20	2	4	0.09	2.89	0.22	2.99	0.71	0.07	0.02	0.04
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS

iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 07, 1993 Page 8 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L 8600E	10550NE	<	16	18	51	17	<	<	1	<	<	0.2	9	17	101	<	26	63	188	7	15	2	3	0.08	2.10	0.12	2.73	0.42	0.06	0.02	0.04
L 8600E	10600NE	<	18	19	53	16	<	<	1	<	<	<	10	20	136	<	29	65	282	9	24	1	3	0.09	2.04	0.29	2.74	0.66	0.08	0.02	0.05
L 8600E	10650NE	<	18	11	43	8	<	<	1	<	<	<	9	18	97	<	28	58	247	11	25	1	3	0.09	1.50	0.36	2.37	0.54	0.07	0.02	0.08
L 8600E	10700NE	<	18	12	42	8	<	<	<	<	<	0.1	9	18	96	<	27	56	233	11	24	1	3	0.08	1.45	0.35	2.30	0.53	0.07	0.02	0.08
L 8600E	10750NE	<	6	12	24	6	<	<	1	<	<	0.2	5	7	45	<	14	60	87	7	9	1	1	0.09	0.78	0.09	1.80	0.12	0.03	0.01	0.01
L 8600E	10800NE	<	15	13	40	14	<	<	1	<	<	<	8	12	81	<	21	41	161	9	24	1	2	0.07	1.29	0.32	1.81	0.47	0.06	0.03	0.07
L 8600E	10850NE	<	15	12	49	23	<	<	<	<	<	0.2	10	19	134	<	31	58	283	14	27	1	3	0.09	1.61	0.40	2.47	0.63	0.07	0.02	0.08
L 8600E	10900NE	<	14	8	30	13	<	<	<	<	<	<	6	9	82	<	14	41	178	7	19	<	1	0.06	0.95	0.26	1.53	0.27	0.04	0.03	0.07
L 8600E	10950NE	<	7	2	20	5	<	<	<	<	<	0.2	4	5	47	<	8	31	73	4	12	<	1	0.04	0.58	0.14	1.06	0.12	0.05	0.04	0.05
L 8600E	11000NE	<	12	6	28	9	<	<	<	<	<	0.1	4	8	101	<	14	24	82	6	16	1	1	0.04	0.98	0.17	1.03	0.26	0.05	0.03	0.05
L 8700E	9000NE	0.1	8	7	46	<	<	<	<	<	<	0.2	4	3	72	<	4	19	530	4	26	<	<	0.03	0.31	0.31	0.70	0.06	0.03	0.05	0.05
L 8700E	9050NE	<	6	5	23	<	<	<	<	<	<	0.2	6	4	80	<	5	37	1068	5	24	<	1	0.05	0.35	0.28	1.38	0.05	0.03	0.05	0.06
L 8700E	9100NE	<	10	9	57	<	<	<	1	<	<	0.2	12	7	102	<	13	96	918	6	31	1	1	0.12	0.62	0.44	2.92	0.20	0.03	0.03	0.11
L 8700E	9150NE	0.1	10	55	59	<	<	<	<	<	<	0.2	7	7	98	<	17	47	209	6	14	<	2	0.06	1.08	0.18	1.88	0.39	0.04	0.03	0.04
L 8700E	9200NE	<	20	94	127	12	<	<	<	<	3	0.5	9	6	184	<	11	40	452	7	38	<	1	0.03	1.21	0.42	2.53	0.60	0.06	0.02	0.10
L 8700E	9250NE	<	11	18	53	5	<	<	<	<	<	0.2	6	6	98	<	12	43	189	5	26	1	1	0.05	0.95	0.27	1.74	0.42	0.04	0.03	0.07
L 8700E	9300NE	<	17	20	66	19	<	<	6	<	<	0.2	28	11	249	<	22	66	4453	7	33	<	2	0.04	1.24	0.28	2.66	0.46	0.05	0.02	0.06
L 8700E	9350NE	<	9	18	46	5	<	<	1	<	<	0.2	6	10	81	<	20	53	195	6	14	<	2	0.06	1.21	0.13	2.00	0.41	0.04	0.02	0.04
L 8700E	9400NE	<	13	9	37	<	<	<	1	<	<	0.1	7	6	81	<	12	58	184	5	15	<	1	0.08	0.79	0.15	1.93	0.23	0.03	0.02	0.04
L 8700E	9450NE	<	12	11	23	<	<	<	<	<	<	<	3	4	62	<	9	21	56	4	11	<	1	0.03	0.69	0.07	0.83	0.13	0.04	0.03	0.03
L 8700E	9500NE	<	14	16	34	<	<	<	<	<	<	0.1	4	7	75	<	13	34	106	4	16	<	1	0.04	1.00	0.12	1.38	0.25	0.04	0.03	0.03
L 8700E	9550NE	<	20	21	49	7	<	<	1	<	2	0.1	7	9	164	<	18	35	183	7	31	<	1	0.03	1.43	0.23	1.78	0.33	0.05	0.03	0.05
L 8700E	9600NE	<	13	13	25	<	<	<	1	<	<	0.1	5	6	71	<	14	36	134	5	13	<	2	0.05	1.02	0.11	1.40	0.23	0.04	0.03	0.02
L 8700E	9650NE	<	3	7	29	<	<	<	<	<	<	0.1	6	3	16	<	5	66	72	<	8	<	<	0.08	0.20	0.06	1.78	0.06	0.02	0.03	0.01
L 8700E	9700NE	0.1	46	10	27	<	<	<	2	<	<	0.4	3	8	81	<	9	20	70	6	20	<	<	0.01	0.67	0.23	0.84	0.12	0.04	0.03	0.05
L 8700E	9750NE	0.1	24	13	26	6	<	<	1	<	<	0.1	3	3	77	<	8	21	43	3	15	<	1	0.03	0.72	0.22	0.90	0.11	0.04	0.04	0.03
L 8700E	9800NE	<	14	3	24	<	<	<	1	<	<	<	3	3	50	<	6	20	34	2	12	<	1	0.03	0.57	0.17	0.73	0.09	0.03	0.04	0.02
L 8700E	9850NE	<	73	21	58	71	<	<	3	<	<	0.2	10	15	145	<	24	53	174	8	23	<	2	0.05	2.11	0.21	2.52	0.51	0.10	0.03	0.05
L 8700E	9900NE	<	2	2	11	<	<	<	<	<	<	0.1	2	2	14	<	3	27	32	<	6	<	<	0.03	0.19	0.04	0.77	0.04	0.02	0.03	0.01
L 8700E	9950NE	<	4	4	11	<	<	<	<	<	<	<	3	3	33	<	4	21	35	<	7	<	<	0.03	0.41	0.06	0.70	0.06	0.03	0.03	0.02
L 8700E	10000NE	<	16	15	51	33	<	<	<	<	<	<	10	19	159	<	34	63	268	8	21	2	3	0.09	2.26	0.20	2.75	0.68	0.08	0.02	0.03
L 8700E	10050NE	<	20	13	52	46	<	<	1	<	<	<	11	28	181	<	38	58	368	9	28	1	3	0.08	2.11	0.24	2.60	0.72	0.07	0.02	0.04
L 8700E	10100NE	<	15	14	37	30	<	<	<	<	<	<	9	12	119	<	21	61	167	5	15	1	2	0.08	1.63	0.15	2.24	0.36	0.07	0.02	0.04
L 8700E	10150NE	<	8	10	25	6	<	<	<	<	<	0.1	5	8	66	<	16	36	99	4	12	1	1	0.06	1.04	0.11	1.33	0.30	0.05	0.03	0.02
L 8700E	10200NE	<	15	14	44	15	<	<	<	<	<	<	11	18	116	<	34	74	224	8	21	2	3	0.11	1.81	0.21	2.78	0.58	0.07	0.02	0.04
L 8700E	10250NE	<	21	15	44	8	<	<	<	<	<	<	7	14	192	<	22	46	210	8	26	1	3	0.06	2.22	0.22	2.00	0.35	0.08	0.04	0.05
L 8700E	10300NE	<	6	8	18	<	<	<	<	<	<	0.4	4	4	41	<	7	33	86	3	11	1	1	0.05	0.60	0.09	1.11	0.11	0.05	0.03	0.06
L 8700E	10350NE	<	11	13	47	10	<	<	<	<	<	0.1	8	13	141	<	24	53	274	7	16	2	3	0.08	1.68	0.17	2.17	0.43	0.06	0.02	0.03
L 8700E	10400NE	<	13	14	41	23	<	<	<	<	<	0.2	7	14	94	<	22	51	188	7	19	1	2	0.07	1.60	0.18	2.02	0.43	0.07	0.02	0.03
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 07, 1993 Page 9 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L 8700E	10450NP	<	15	16	51	10	<	<	1	<	<	<	11	21	108	<	28	57	245	10	19	1	3	0.09	2.09	0.25	2.58	0.59	0.09	0.02	0.06
L 8700E	10500NP	<	13	16	43	8	<	<	<	<	<	<	9	16	96	<	29	61	217	9	20	2	3	0.09	1.94	0.18	2.60	0.54	0.08	0.02	0.03
L 8700E	10550NP	<	15	15	41	16	<	<	<	<	<	0.2	9	17	119	<	27	63	213	8	32	1	3	0.09	1.87	0.25	2.58	0.53	0.06	0.02	0.04
L 8700E	10600NP	<	18	18	73	11	<	<	1	<	<	0.1	15	19	139	<	29	62	439	9	17	1	3	0.08	2.45	0.18	2.83	0.48	0.06	0.02	0.04
L 8700E	10650NP	0.2	14	17	54	27	12	4	<	<	<	0.6	12	23	119	<	40	82	269	12	17	3	4	0.12	3.14	0.20	3.81	0.64	0.10	0.02	0.05
L 8700E	10700NP	<	18	17	40	57	<	<	<	<	<	<	10	13	115	<	23	49	235	11	28	1	3	0.07	1.58	0.33	2.24	0.48	0.06	0.03	0.07
L 8700E	10750NP	<	28	24	47	27	<	<	<	<	<	0.6	8	10	87	<	17	48	273	9	33	1	2	0.05	1.28	0.24	2.07	0.30	0.06	0.03	0.04
L 8700E	10800NP	<	4	4	18	<	<	<	<	<	<	0.2	4	3	24	<	5	39	71	2	8	1	<	0.05	0.49	0.06	1.19	0.08	0.03	0.04	0.02
L 8700E	10850NP	<	15	10	43	19	<	<	1	<	<	0.1	8	13	89	<	23	52	187	9	22	1	2	0.07	1.27	0.28	2.08	0.41	0.06	0.03	0.06
L 8700E	10900NP	0.1	2	3	16	<	<	<	<	<	<	0.2	4	2	19	<	3	39	49	<	9	<	<	0.04	0.32	0.08	1.11	0.04	0.02	0.04	0.03
L 8700E	10950NP	<	15	15	48	12	<	<	1	<	<	<	8	16	128	<	27	50	152	11	24	1	3	0.07	1.59	0.32	2.20	0.53	0.05	0.03	0.08
L 8700E	11000NP	<	11	11	41	23	<	<	<	<	<	0.1	7	14	115	<	24	43	171	12	23	1	2	0.07	1.28	0.35	1.81	0.47	0.05	0.02	0.09
L 8800E	9000NP	<	33	23	74	5	<	<	1	<	<	0.1	12	14	187	<	32	69	489	9	43	1	3	0.06	1.68	0.55	2.85	0.65	0.05	0.03	0.10
L 8800E	9050NP	<	6	4	22	<	<	<	<	<	<	0.2	4	2	54	<	4	27	417	2	22	1	<	0.04	0.27	0.28	0.86	0.06	0.02	0.05	0.07
L 8800E	9100NP	<	11	22	62	<	<	<	1	<	<	0.1	13	14	165	<	31	56	573	12	30	1	3	0.07	1.66	0.52	2.56	0.75	0.06	0.02	0.10
L 8800E	9150NP	<	10	24	45	<	<	<	1	<	<	0.1	6	8	102	<	18	40	164	5	22	<	2	0.07	0.96	0.26	1.58	0.38	0.05	0.03	0.04
L 8800E	9200NP	<	18	15	72	6	<	<	<	<	<	0.1	9	13	203	<	30	47	349	7	42	1	3	0.06	1.58	0.51	2.20	0.63	0.06	0.03	0.08
L 8800E	9250NP	<	20	18	59	8	<	<	1	<	<	0.1	10	14	158	<	34	54	232	10	30	1	3	0.08	1.62	0.45	2.35	0.78	0.07	0.02	0.08
L 8800E	9300NP	0.1	554	27	113	44	<	<	48	<	<	0.3	13	14	186	<	25	44	399	18	35	<	3	0.05	1.50	0.44	2.25	0.57	0.06	0.02	0.11
L 8800E	9350NP	<	173	11	28	5	<	<	2	<	<	0.2	6	10	118	<	18	50	124	7	15	1	2	0.07	1.23	0.15	1.87	0.31	0.05	0.02	0.03
L 8800E	9400NP	<	61	15	51	9	<	<	2	<	<	0.1	10	16	127	<	30	66	203	7	11	2	3	0.08	2.12	0.11	2.77	0.56	0.08	0.02	0.04
L 8800E	9450NP	0.1	76	16	33	<	<	<	2	<	<	0.2	6	10	144	<	16	39	212	8	16	<	2	0.05	1.26	0.13	1.68	0.29	0.05	0.03	0.04
L 8800E	9500NP	0.2	11	6	12	<	<	<	<	<	<	0.1	3	2	26	<	3	30	40	<	8	<	<	0.04	0.36	0.04	0.93	0.04	0.02	0.04	0.03
L 8800E	9550NP	<	64	21	38	8	<	<	2	<	<	0.1	18	10	153	<	24	63	716	19	14	1	4	0.08	1.54	0.15	2.41	0.37	0.05	0.02	0.07
L 8800E	9600NP	<	15	12	38	7	<	<	1	<	<	0.2	6	9	90	<	19	51	156	6	16	<	2	0.06	1.20	0.15	1.90	0.33	0.04	0.03	0.03
L 8800E	9650NP	<	8	5	18	<	<	<	<	<	<	0.1	4	3	40	<	6	34	60	2	10	<	1	0.05	0.57	0.09	1.10	0.08	0.03	0.04	0.04
L 8800E	9700NP	0.1	11	8	15	<	<	<	<	<	<	0.1	2	4	44	<	6	17	33	2	8	<	1	0.03	0.67	0.05	0.69	0.08	0.04	0.04	0.02
L 8800E	9750NP	0.2	6	9	21	<	<	<	<	<	<	<	5	4	38	<	7	46	72	2	10	<	1	0.06	0.52	0.10	1.38	0.08	0.03	0.04	0.04
L 8800E	9800NP	<	13	8	35	<	<	<	1	<	<	<	7	7	64	<	12	68	110	3	13	<	1	0.08	0.99	0.12	2.16	0.16	0.04	0.03	0.05
L 8800E	9850NP	0.1	20	14	37	8	<	<	1	<	<	0.1	8	11	114	<	20	57	166	6	19	1	2	0.08	1.59	0.17	2.14	0.36	0.06	0.03	0.04
L 8800E	9900NP	<	15	8	24	7	<	<	<	<	<	0.2	5	7	67	<	11	43	121	4	14	1	1	0.06	0.96	0.13	1.52	0.20	0.05	0.04	0.05
L 8800E	9950NP	0.1	22	18	32	10	<	<	1	<	<	0.2	7	10	99	<	20	54	166	7	22	1	3	0.10	1.35	0.13	2.06	0.49	0.08	0.03	0.04
L 8800E	10000NP	<	37	18	55	19	<	<	2	<	<	<	12	21	177	<	46	79	263	10	38	4	6	0.15	2.92	0.22	3.37	1.05	0.16	0.03	0.04
L 8800E	10050NP	<	8	11	23	6	<	<	<	<	<	<	5	5	72	<	10	39	79	3	13	<	1	0.06	0.96	0.11	1.39	0.18	0.04	0.04	0.04
L 8800E	10100NP	<	19	14	49	14	<	<	1	<	<	<	10	17	170	<	30	68	236	9	40	1	4	0.11	2.18	0.21	2.85	0.77	0.10	0.03	0.04
L 8800E	10150NP	<	6	6	26	<	<	<	1	<	<	0.1	6	5	46	<	9	53	101	2	11	<	1	0.08	0.70	0.11	1.65	0.16	0.03	0.04	0.04
L 8800E	10200NP	<	10	7	20	6	<	<	<	<	<	<	5	6	92	<	12	38	77	3	11	1	1	0.06	1.28	0.09	1.38	0.18	0.05	0.04	0.02
L 8800E	10250NP	<	11	12	39	12	<	<	2	<	<	<	9	15	107	<	27	66	200	8	20	2	3	0.09	1.86	0.18	2.61	0.54	0.06	0.02	0.03
L 8800E	10300NP	<	4	8	22	<	<	<	<	<	<	0.1	5	6	40	<	10	43	82	3	10	<	1	0.06	0.59	0.08	1.37	0.16	0.03	0.03	0.01
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS

iPL 93G0201

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Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 07, 1993 Page 10 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L 8800E	10350NP	<	10	18	32	9	<	<	1	<	<	0.1	7	12	81	<	21	51	149	7	21	1	2	0.08	1.40	0.19	1.97	0.41	0.07	0.03	0.03
L 8800E	10400NP	<	14	16	41	22	<	<	1	<	<	<	12	16	102	<	28	61	234	9	34	1	3	0.11	1.89	0.27	2.52	0.58	0.09	0.03	0.04
L 8800E	10450NP	<	9	14	33	7	<	<	1	<	<	0.1	7	10	84	<	17	50	245	7	23	1	2	0.07	1.29	0.22	1.89	0.33	0.07	0.03	0.06
L 8800E	10500NP	<	13	15	39	10	<	<	1	<	<	<	9	17	89	<	27	56	185	9	19	2	3	0.09	1.80	0.18	2.36	0.56	0.09	0.02	0.02
L 8800E	10550NP	<	14	15	39	26	<	<	1	<	<	0.1	11	17	111	<	28	71	302	10	25	1	3	0.10	1.84	0.25	3.00	0.51	0.06	0.02	0.06
L 8800E	10600NP	<	4	4	11	<	<	<	<	<	<	0.1	3	2	16	<	3	27	70	2	9	<	<	0.04	0.44	0.08	0.83	0.04	0.03	0.04	0.03
L 8800E	10650NP	<	9	15	38	35	<	<	1	<	<	0.2	9	13	71	<	21	58	195	8	28	1	2	0.08	1.28	0.24	2.27	0.43	0.07	0.03	0.06
L 8800E	10700NP	0.2	12	16	38	49	<	<	1	<	<	0.2	7	11	86	<	16	36	165	6	26	1	2	0.05	1.19	0.26	1.51	0.32	0.06	0.04	0.05
L 8800E	10750NP	0.1	4	3	12	<	<	<	<	<	<	<	2	2	19	<	2	18	30	2	11	<	<	0.02	0.22	0.09	0.56	0.04	0.04	0.05	0.03
L 8800E	10800NP	<	3	6	20	<	<	<	<	<	<	0.2	5	3	17	<	4	49	57	<	10	<	<	0.06	0.18	0.07	1.34	0.05	0.03	0.04	0.02
L 8800E	10850NP	<	11	11	40	10	<	<	1	<	<	0.2	8	13	127	<	24	43	178	13	27	1	3	0.09	1.23	0.40	1.81	0.51	0.06	0.02	0.08
L 8800E	10900NP	0.1	2	<	13	<	<	<	<	<	<	0.1	3	2	18	<	3	33	40	<	10	<	<	0.04	0.20	0.06	0.94	0.04	0.02	0.04	0.01
L 8800E	10950NP	0.2	6	4	12	<	<	<	<	<	<	0.1	1	2	39	<	5	9	23	2	10	<	<	0.02	0.45	0.08	0.43	0.08	0.02	0.04	0.02
L 8800E	11000NP	<	42	18	53	18	<	<	2	<	<	<	7	11	108	<	26	47	182	12	30	1	3	0.09	1.39	0.41	1.94	0.54	0.05	0.02	0.08
L 8900E	9000NP	<	16	13	42	6	<	<	1	<	<	0.3	10	9	201	<	13	43	2276	7	63	1	2	0.05	0.78	0.67	1.74	0.22	0.05	0.04	0.06
L 8900E	9050NP	<	28	29	54	<	<	<	1	<	<	0.2	9	12	255	<	24	38	607	13	49	1	3	0.04	1.61	0.58	1.92	0.55	0.06	0.03	0.09
L 8900E	9100NP	<	9	15	41	<	<	<	1	<	<	0.1	8	7	112	<	17	38	358	3	29	1	2	0.04	1.06	0.34	1.70	0.35	0.04	0.04	0.05
L 8900E	9150NP	1.6	31	141	53	17	<	<	3	<	4	0.5	6	7	266	<	14	30	267	14	27	<	1	0.02	1.17	0.14	2.14	0.29	0.09	0.02	0.07
L 8900E	9200NP	<	34	19	46	9	<	<	3	<	<	<	12	14	151	<	35	63	313	7	18	1	3	0.08	2.07	0.16	2.75	0.76	0.07	0.02	0.02
L 8900E	9250NP	<	47	20	44	14	<	<	8	<	7	0.1	8	13	97	<	21	64	217	8	39	2	2	0.08	1.80	0.10	3.17	0.39	0.06	0.03	0.04
L 8900E	9300NP	<	4	3	23	<	<	<	1	<	<	0.2	6	3	10	<	4	61	67	<	8	<	<	0.07	0.15	0.04	1.66	0.05	0.03	0.04	0.01
L 8900E	9350NP	<	119	16	55	7	<	<	13	<	<	0.2	9	13	120	<	23	62	169	8	20	2	2	0.09	1.72	0.20	2.51	0.48	0.06	0.02	0.02
L 8900E	9400NP	0.2	11	4	14	<	<	<	<	<	<	0.1	4	3	46	<	6	31	59	2	9	<	1	0.05	0.52	0.06	1.04	0.11	0.03	0.03	0.02
L 8900E	9450NP	0.1	47	11	33	<	<	<	1	<	<	0.1	13	7	93	<	12	78	744	5	13	<	1	0.10	0.99	0.12	2.42	0.16	0.03	0.03	0.05
L 8900E	9500NP	<	5	2	11	<	<	<	<	<	<	0.1	3	1	14	<	2	29	42	<	8	<	<	0.04	0.23	0.07	0.82	0.04	0.02	0.04	0.02
L 8900E	9550NP	0.1	44	14	40	8	<	<	3	<	<	0.1	10	11	102	<	23	63	333	9	12	2	3	0.08	1.60	0.12	2.62	0.43	0.07	0.02	0.05
L 8900E	9600NP	<	68	13	45	11	<	<	4	<	<	<	9	16	110	<	30	69	235	8	16	1	3	0.10	2.03	0.16	3.07	0.57	0.08	0.02	0.05
L 8900E	9650NP	<	35	12	46	13	<	<	3	<	<	<	10	16	113	<	28	60	254	8	15	1	3	0.09	1.82	0.15	2.83	0.64	0.07	0.02	0.05
L 8900E	9700NP	<	24	17	51	11	<	<	1	<	<	<	8	11	115	<	24	50	195	6	21	<	3	0.06	1.73	0.20	2.19	0.48	0.06	0.02	0.04
L 8900E	9750NP	0.2	8	8	27	<	<	<	<	<	<	0.1	5	4	40	<	8	52	69	2	10	<	1	0.07	0.65	0.10	1.59	0.09	0.04	0.04	0.03
L 8900E	9800NP	<	23	15	36	8	<	<	1	<	<	<	6	8	110	<	18	55	102	4	18	1	2	0.07	1.90	0.12	2.11	0.20	0.06	0.04	0.04
L 8900E	9850NP	<	17	10	39	8	<	<	1	<	<	<	7	10	109	<	21	68	157	5	20	1	2	0.09	1.44	0.18	2.29	0.34	0.05	0.03	0.04
L 8900E	9900NP	<	22	15	50	14	<	<	1	<	<	<	10	19	160	<	34	71	211	9	24	1	4	0.11	2.49	0.22	2.86	0.67	0.09	0.02	0.04
L 8900E	9950NP	0.1	12	10	23	5	<	<	<	<	<	0.1	5	6	67	<	11	42	69	3	13	<	1	0.06	1.02	0.11	1.45	0.13	0.05	0.04	0.04
L 8900E	10000NP	<	7	10	27	<	<	<	<	<	<	<	5	5	41	<	9	48	80	2	12	<	1	0.07	0.69	0.10	1.50	0.14	0.04	0.04	0.04
L 8900E	10050NP	<	22	14	41	12	<	<	1	<	<	<	10	14	104	<	31	66	235	8	20	1	3	0.10	1.67	0.16	2.60	0.59	0.07	0.02	0.03
L 8900E	10100NP	<	12	10	28	<	<	<	<	<	<	0.2	6	7	63	<	14	54	122	4	13	1	1	0.08	0.86	0.10	1.79	0.24	0.04	0.03	0.02
L 8900E	10150NP	<	11	10	22	<	<	<	<	<	<	0.1	5	5	43	<	13	40	85	3	12	<	1	0.07	0.71	0.09	1.30	0.25	0.04	0.03	0.02
L 8900E	10200NP	<	12	14	28	6	<	<	<	<	4	<	5	8	86	<	15	32	83	5	17	<	1	0.05	1.18	0.12	1.33	0.25	0.05	0.03	0.04
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS

iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 07, 1993 Page 11 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L 8900E	10250NE	<	17	21	46	16	<	<	1	<	<	<	9	17	141	<	37	61	210	9	26	1	4	0.11	2.16	0.23	2.54	0.77	0.12	0.03	0.04
L 8900E	10300NE	0.1	8	12	25	8	<	<	<	<	<	0.2	6	7	70	<	12	49	85	4	13	1	1	0.07	1.11	0.12	1.62	0.19	0.05	0.04	0.04
L 8900E	10350NE	<	17	15	53	16	<	<	1	<	<	0.1	10	18	141	<	30	65	228	9	23	1	3	0.10	2.25	0.22	2.71	0.66	0.09	0.02	0.03
L 8900E	10400NE	<	15	17	47	18	<	<	1	<	<	<	11	18	120	<	31	66	238	10	25	2	4	0.11	2.27	0.22	2.82	0.71	0.09	0.02	0.03
L 8900E	10450NE	<	19	18	32	8	<	<	1	<	<	<	6	11	85	<	19	53	119	8	24	1	2	0.08	1.29	0.20	2.00	0.38	0.07	0.03	0.04
L 8900E	10500NE	<	13	18	44	17	<	<	<	<	<	<	10	17	108	<	30	59	222	9	25	2	3	0.10	1.94	0.28	2.52	0.65	0.09	0.02	0.05
L 8900E	10550NE	<	15	18	48	20	<	<	1	<	<	<	10	18	134	<	29	60	237	10	24	1	4	0.09	2.09	0.29	2.62	0.63	0.07	0.02	0.04
L 8900E	10600NE	<	15	17	51	17	<	<	<	<	<	<	10	18	127	<	31	60	212	10	23	1	4	0.09	2.05	0.28	2.47	0.66	0.07	0.02	0.04
L 8900E	10650NE	<	16	14	53	26	<	<	1	<	<	<	9	18	141	<	31	61	189	11	26	1	3	0.09	2.15	0.30	2.47	0.69	0.08	0.02	0.05
L 8900E	10700NE	<	17	14	65	50	9	4	<	<	<	0.3	12	23	156	<	39	74	287	13	31	2	5	0.12	2.39	0.44	3.01	0.83	0.10	0.02	0.08
L 8900E	10750NE	0.1	15	14	46	41	5	<	1	<	<	<	10	17	143	<	31	62	201	12	25	1	4	0.09	2.20	0.31	2.60	0.63	0.09	0.02	0.05
L 8900E	10800NE	<	2	2	10	<	<	<	<	<	<	0.1	2	1	19	<	2	19	28	<	11	<	<	0.03	0.20	0.10	0.55	0.04	0.03	0.05	0.03
L 8900E	10850NE	<	16	13	45	16	<	<	1	<	<	<	9	16	105	<	30	55	181	11	21	1	3	0.09	2.00	0.33	2.29	0.59	0.07	0.02	0.08
L 8900E	10900NE	<	27	16	53	18	<	<	1	<	<	<	10	17	134	<	33	55	233	13	30	1	3	0.09	2.08	0.39	2.35	0.62	0.07	0.02	0.08
L 8900E	10950NE	<	19	12	41	18	<	<	1	<	<	<	8	11	92	<	25	45	178	9	22	1	2	0.07	1.65	0.29	1.96	0.39	0.05	0.03	0.07
L 8900E	11000NE	<	23	16	49	13	<	<	<	<	<	<	9	15	115	<	31	55	229	12	26	3	4	0.10	1.82	0.36	2.30	0.60	0.04	0.02	0.07
L 9000E	9050NE	<	7	3	33	<	<	<	<	<	3	0.1	3	5	89	<	9	25	100	4	31	1	1	0.03	0.55	0.33	1.03	0.19	0.03	0.05	0.04
L 9000E	9100NE	<	29	16	62	10	<	<	1	<	<	0.1	14	12	191	<	26	44	1348	8	52	1	2	0.03	1.27	0.65	2.27	0.51	0.04	0.03	0.12
L 9000E	9150NE	<	25	46	67	10	<	<	3	<	<	0.1	11	13	280	<	26	49	365	11	27	1	3	0.06	1.93	0.28	2.42	0.64	0.08	0.03	0.03
L 9000E	9200NE	<	4	15	12	<	<	<	<	<	<	0.1	3	2	43	<	4	28	40	2	8	<	<	0.04	0.32	0.04	0.90	0.05	0.02	0.04	0.02
L 9000E	9250NE	<	69	14	59	18	<	<	5	<	<	<	13	21	156	<	73	89	309	12	56	2	6	0.18	3.05	0.15	3.79	1.22	0.18	0.03	0.07
L 9000E	9300NE	<	6	3	16	<	<	<	<	<	<	0.3	4	4	13	<	6	36	53	<	9	1	<	0.06	0.29	0.05	1.10	0.07	0.03	0.04	0.01
L 9000E	9350NE	<	31	7	17	<	<	<	2	<	<	<	3	4	93	<	13	20	69	5	21	<	1	0.04	0.80	0.10	0.98	0.27	0.06	0.04	0.04
L 9000E	9400NE	1.0	109	17	41	15	<	<	6	<	<	0.1	10	18	116	<	26	56	188	10	14	2	3	0.07	2.00	0.12	2.84	0.55	0.09	0.02	0.02
L 9000E	9450NE	0.2	117	8	27	<	<	<	3	<	<	0.1	5	4	95	<	7	56	79	4	17	<	1	0.07	0.65	0.21	1.72	0.12	0.04	0.04	0.05
L 9000E	9500NE	0.1	29	4	13	<	<	<	1	<	2	<	4	2	43	<	4	33	53	3	7	1	1	0.05	0.46	0.05	1.00	0.06	0.03	0.04	0.02
L 9000E	9550NE	<	6	3	11	<	<	<	<	<	<	0.2	3	2	25	<	3	26	62	2	7	1	<	0.04	0.35	0.05	0.78	0.04	0.03	0.04	0.02
L 9000E	9600NE	0.1	8	4	11	<	<	<	1	<	<	0.1	3	2	28	<	6	31	66	3	7	<	<	0.05	0.43	0.05	0.97	0.09	0.04	0.03	0.02
L 9000E	9650NE	<	3	4	10	<	<	<	<	<	<	0.2	3	2	16	<	3	26	33	2	6	1	<	0.04	0.21	0.04	0.78	0.04	0.03	0.04	0.01
L 9000E	9700NE	<	73	22	64	73	<	<	6	<	<	<	14	24	158	<	59	82	425	10	20	1	5	0.09	2.67	0.22	3.48	0.73	0.08	0.02	0.07
L 9000E	9750NE	0.1	5	11	27	<	<	<	1	<	<	0.1	7	4	25	<	7	70	95	3	12	1	1	0.10	0.35	0.14	1.95	0.11	0.04	0.04	0.05
L 9000E	9800NE	<	2	4	12	<	<	<	<	<	<	<	3	1	18	<	3	30	39	<	10	<	<	0.04	0.21	0.09	0.84	0.05	0.03	0.05	0.03
L 9000E	9850NE	<	20	11	41	9	<	<	1	<	<	<	7	12	109	<	24	60	141	8	21	1	2	0.09	1.65	0.22	2.22	0.45	0.06	0.03	0.04
L 9000E	9900NE	<	17	14	39	8	<	<	1	<	<	<	8	9	74	<	16	80	120	4	16	1	1	0.10	1.19	0.15	2.50	0.23	0.05	0.04	0.04
L 9000E	9950NE	<	17	14	43	13	<	<	1	<	<	<	9	16	131	<	30	59	187	10	21	1	3	0.10	2.05	0.25	2.41	0.61	0.09	0.02	0.04
L 9000E	10000NE	0.2	24	14	46	15	<	<	1	<	<	<	7	12	129	<	23	54	143	7	25	1	3	0.09	1.88	0.21	2.11	0.46	0.09	0.03	0.03
L 9000E	10050NE	<	69	16	52	20	<	<	3	<	<	<	11	13	145	<	31	65	269	13	33	1	4	0.13	1.74	0.35	2.65	0.83	0.11	0.02	0.07
L 9000E	10100NE	<	88	18	54	19	<	<	5	<	<	0.1	10	15	155	5	29	67	206	11	29	2	4	0.11	2.02	0.37	2.70	0.74	0.11	0.02	0.07
L 9000E	10150NE	0.1	27	9	23	<	<	<	1	<	<	<	2	4	49	<	6	12	38	2	12	<	1	0.03	0.60	0.10	0.55	0.17	0.04	0.04	0.03
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS

iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 08, 1993 Page 12 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L 9000E	10200NP	0.2	38	16	45	18	<	<	2	<	<	0.1	9	14	112	<	25	61	200	8	21	1	3	0.10	1.51	0.19	2.47	0.57	0.08	0.02	0.03
L 9000E	10250NP	<	17	21	37	25	<	<	1	<	<	<	9	11	130	<	22	50	296	6	26	1	2	0.07	1.48	0.22	1.99	0.47	0.07	0.03	0.04
L 9000E	10300NP	<	17	20	32	35	<	<	1	<	<	0.1	7	8	122	<	18	51	273	6	27	<	2	0.07	1.28	0.20	1.90	0.38	0.06	0.03	0.04
L 9000E	10350NP	<	26	13	33	44	<	<	1	<	<	<	7	8	172	<	18	62	268	5	29	<	4	0.12	1.38	0.16	2.31	0.65	0.09	0.04	0.04
L 9000E	10400NP	<	11	14	44	56	<	<	1	<	<	<	8	14	107	<	28	59	188	8	20	1	3	0.09	1.78	0.20	2.47	0.62	0.09	0.02	0.03
L 9000E	10450NP	<	11	15	49	61	<	<	1	<	<	0.2	9	13	194	<	29	53	269	11	27	1	4	0.09	1.51	0.30	2.34	0.66	0.17	0.03	0.06
L 9000E	10500NP	<	19	15	41	35	<	<	1	<	<	0.1	6	12	141	<	22	45	150	7	33	1	2	0.07	1.72	0.31	1.89	0.44	0.08	0.04	0.04
L 9000E	10550NP	<	17	12	53	28	<	<	1	<	<	<	11	21	151	<	32	59	323	9	24	2	4	0.10	2.14	0.28	2.71	0.70	0.09	0.02	0.05
L 9000E	10600NP	<	42	25	59	267	7	<	2	<	<	<	12	20	198	<	39	87	377	9	34	1	5	0.07	3.30	0.35	3.95	0.68	0.10	0.03	0.06
L 9000E	10650NP	<	16	14	48	34	<	<	1	<	<	<	11	20	115	<	32	59	274	9	21	1	4	0.09	2.26	0.24	2.80	0.67	0.09	0.02	0.05
L 9000E	10700NP	<	29	16	51	22	<	<	1	<	<	<	12	21	110	<	32	62	342	8	20	1	4	0.10	2.28	0.25	2.81	0.67	0.09	0.02	0.06
L 9000E	10750NP	0.1	14	13	34	10	<	<	1	<	<	0.3	6	10	68	<	19	48	132	8	14	<	2	0.06	1.27	0.15	1.92	0.36	0.06	0.03	0.04
L 9000E	10800NP	<	42	19	53	13	<	<	1	<	<	<	9	18	155	<	33	62	203	12	24	1	4	0.09	2.37	0.29	2.65	0.64	0.08	0.02	0.06
L 9000E	10850NP	<	32	15	49	9	<	<	1	<	<	<	11	18	167	<	33	55	270	13	32	3	5	0.10	1.66	0.41	2.29	0.67	0.05	0.02	0.07
L 9000E	10900NP	<	39	17	51	15	<	<	1	<	<	0.1	9	17	147	<	35	60	236	14	36	3	5	0.10	1.80	0.41	2.55	0.68	0.07	0.02	0.06
L 9000E	10950NP	<	45	22	67	22	<	<	1	<	<	<	15	24	171	<	45	80	437	10	27	4	5	0.11	3.32	0.30	3.61	0.76	0.08	0.02	0.06
L 9000E	11000NP	<	31	17	38	22	<	<	2	<	<	0.1	10	10	107	<	25	53	296	13	38	3	3	0.10	1.21	0.51	2.06	0.58	0.04	0.03	0.10
L 9100E	9000NP	<	25	33	88	19	<	<	2	<	2	0.3	13	12	290	<	24	52	927	15	46	1	3	0.04	1.53	0.75	2.76	0.55	0.05	0.03	0.11
L 9100E	9050NP	<	17	18	39	10	<	<	1	<	<	0.1	8	13	128	<	25	61	200	8	20	1	3	0.07	1.72	0.16	2.51	0.42	0.06	0.02	0.03
L 9100E	9100NP	<	21	13	53	12	<	<	1	<	<	0.1	9	14	176	<	24	58	262	7	26	1	3	0.08	1.66	0.28	2.45	0.50	0.06	0.03	0.05
L 9100E	9150NP	<	30	26	60	20	<	<	1	<	<	0.1	11	14	160	<	25	48	388	10	31	1	3	0.08	1.50	0.27	2.78	0.58	0.08	0.03	0.05
L 9100E	9200NP	<	19	18	44	<	<	<	<	<	<	<	7	11	151	<	20	32	176	7	26	1	2	0.06	1.21	0.27	1.56	0.44	0.05	0.03	0.05
L 9100E	9250NP	<	22	19	59	10	<	<	1	<	<	<	11	16	187	<	29	50	344	9	30	1	3	0.08	1.76	0.32	2.27	0.63	0.07	0.02	0.06
L 9100E	9300NP	<	31	13	37	10	<	<	2	<	<	0.1	7	9	83	<	21	50	173	5	22	2	2	0.08	1.48	0.12	2.08	0.31	0.04	0.02	0.04
L 9100E	9350NP	<	13	5	15	<	<	<	<	<	<	0.1	2	2	31	<	4	16	37	2	11	<	<	0.03	0.35	0.07	0.59	0.06	0.03	0.04	0.02
L 9100E	9400NP	0.2	108	11	44	<	<	<	3	<	<	<	7	17	287	<	25	51	192	11	16	1	3	0.06	1.58	0.22	2.38	0.56	0.08	0.02	0.04
L 9100E	9450NP	<	239	15	48	9	<	<	2	<	<	0.2	9	15	273	<	22	50	344	11	20	1	3	0.07	1.42	0.27	2.27	0.65	0.08	0.02	0.05
L 9100E	9500NP	1.9	631	23	51	13	<	<	5	<	<	<	9	12	505	<	22	44	309	22	29	<	4	0.03	1.98	0.26	2.25	0.43	0.10	0.04	0.06
L 9100E	9550NP	0.8	222	37	87	63	<	<	15	<	2	<	21	23	105	<	47	91	460	9	20	3	5	0.07	3.25	0.16	4.95	0.87	0.06	0.02	0.02
L 9100E	9600NP	<	142	10	32	13	<	<	5	<	<	0.2	6	6	106	<	14	44	165	8	16	1	2	0.05	0.99	0.18	1.86	0.27	0.05	0.03	0.05
L 9100E	9650NP	<	48	16	54	17	<	<	3	<	<	0.1	10	18	123	<	29	67	252	9	16	2	3	0.09	1.93	0.16	2.86	0.61	0.06	0.02	0.02
L 9100E	9700NP	<	115	19	70	21	<	<	6	<	<	0.2	18	21	142	<	41	75	804	9	22	1	4	0.12	2.26	0.24	3.31	0.89	0.08	0.02	0.05
L 9100E	9750NP	<	26	30	64	12	<	<	3	<	<	0.3	18	13	178	<	30	76	987	8	23	1	3	0.10	1.74	0.20	3.04	0.42	0.06	0.02	0.07
L 9100E	9800NP	<	22	13	37	14	<	<	1	<	<	0.1	8	11	79	<	21	53	176	7	19	1	2	0.08	1.26	0.19	2.03	0.42	0.07	0.02	0.03
L 9100E	9850NP	<	27	16	35	17	<	<	2	<	<	0.1	7	10	95	<	20	53	193	8	23	1	2	0.08	1.18	0.22	1.93	0.42	0.06	0.02	0.02
L 9100E	9900NP	<	45	21	61	22	<	<	2	<	<	<	11	14	93	<	31	68	386	8	31	2	4	0.08	1.92	0.29	3.05	0.66	0.08	0.02	0.04
L 9100E	9950NP	<	47	23	65	27	<	<	2	<	<	<	12	14	98	<	32	71	404	9	33	2	4	0.08	2.04	0.30	3.17	0.70	0.07	0.02	0.04
L 9100E	10000NP	<	49	17	44	11	<	<	2	<	<	0.1	5	8	95	<	17	36	134	5	24	<	2	0.04	1.30	0.21	1.56	0.31	0.06	0.04	0.05
L 9100E	10050NP	<	44	18	37	10	<	<	2	<	2	<	5	7	85	<	17	37	98	6	20	1	2	0.06	1.21	0.20	1.51	0.35	0.06	0.04	0.04
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 08, 1993 Page 13 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L 9100E	10100NP	<	29	7	25	<	<	<	1	<	<	0.1	4	3	59	<	8	29	68	2	13	<	1	0.04	0.57	0.09	1.02	0.10	0.03	0.04	0.03
L 9100E	10150NP	<	75	30	64	15	<	<	4	<	<	<	9	10	148	<	24	48	263	11	32	1	3	0.07	1.55	0.34	1.94	0.51	0.09	0.03	0.08
L 9100E	10200NP	<	14	10	30	<	<	<	1	<	<	0.1	7	5	47	<	7	64	112	3	18	<	1	0.09	0.41	0.17	1.84	0.12	0.03	0.04	0.05
L 9100E	10250NP	0.1	20	15	27	14	<	<	1	<	<	<	4	6	94	<	13	34	102	4	22	<	1	0.05	1.02	0.14	1.35	0.27	0.06	0.04	0.04
L 9100E	10300NP	<	22	9	27	15	<	<	1	<	<	<	4	7	114	<	16	30	78	5	24	<	2	0.05	1.19	0.15	1.28	0.30	0.08	0.05	0.05
L 9100E	10350NP	<	74	25	57	125	6	<	4	<	<	<	11	14	333	<	50	96	344	14	67	2	8	0.17	2.32	0.23	4.26	1.34	0.50	0.05	0.08
L 9100E	10400NP	<	14	14	35	21	<	<	<	<	<	<	7	12	206	<	42	62	198	9	50	1	5	0.13	1.80	0.41	2.30	0.99	0.14	0.03	0.09
L 9100E	10450NP	<	22	17	46	43	<	<	1	<	<	<	8	13	179	<	23	67	314	8	38	1	3	0.09	2.03	0.24	2.61	0.56	0.10	0.03	0.04
L 9100E	10500NP	<	21	17	41	64	<	<	1	<	<	<	9	12	186	<	30	66	235	8	35	1	4	0.10	2.12	0.22	2.97	0.70	0.17	0.04	0.05
L 9100E	10550NP	0.2	20	18	52	74	<	<	1	<	<	0.1	13	16	189	<	37	73	433	9	36	1	4	0.12	2.24	0.33	3.09	0.95	0.20	0.03	0.08
L 9100E	10600NP	0.1	13	4	17	7	<	<	<	<	<	0.2	2	4	55	<	8	22	44	3	20	<	<	0.03	0.70	0.18	0.73	0.13	0.03	0.05	0.08
L 9100E	10650NP	<	11	9	35	<	<	<	1	<	<	0.1	7	6	63	<	12	76	115	5	18	1	1	0.10	0.61	0.15	2.25	0.17	0.05	0.04	0.03
L 9100E	10700NP	<	12	21	53	19	<	<	1	<	<	<	10	12	251	<	44	85	343	15	46	2	7	0.16	2.22	0.46	3.53	1.49	0.21	0.03	0.08
L 9100E	10750NP	<	11	8	26	<	<	<	<	<	<	<	5	4	48	<	9	43	93	3	13	<	1	0.06	0.75	0.13	1.47	0.16	0.04	0.04	0.04
L 9100E	10800NP	<	11	12	33	<	<	<	<	<	<	0.1	6	5	36	<	9	71	85	2	13	<	1	0.08	0.63	0.13	2.08	0.10	0.02	0.04	0.05
L 9100E	10850NP	<	14	13	29	8	<	<	<	<	<	0.1	4	7	68	<	16	40	80	6	17	<	2	0.07	1.16	0.15	1.41	0.27	0.04	0.03	0.02
L 9100E	10900NP	0.1	16	17	38	11	<	<	1	<	<	<	8	14	107	<	25	55	163	8	19	1	3	0.08	1.86	0.21	2.34	0.49	0.07	0.02	0.05
L 9100E	10950NP	<	17	18	52	26	<	<	2	<	<	<	10	17	124	<	31	73	228	8	25	1	4	0.10	2.50	0.22	3.17	0.58	0.06	0.02	0.03
L 9100E	11000NP	<	12	13	24	6	<	<	<	<	<	0.1	4	7	64	<	15	41	86	6	14	<	2	0.06	1.04	0.13	1.40	0.25	0.05	0.03	0.02
L 9200E	9000NP	<	36	21	61	40	<	<	2	<	<	<	13	18	76	<	42	89	466	8	19	2	4	0.10	2.18	0.18	4.04	0.88	0.05	0.02	0.06
L 9200E	9050NP	<	76	28	65	15	<	<	1	<	<	0.2	10	19	168	<	35	59	278	13	32	2	4	0.09	1.99	0.28	2.59	0.69	0.06	0.02	0.03
L 9200E	9100NP	<	59	19	41	13	<	<	1	<	<	<	8	12	133	<	23	47	281	8	26	<	3	0.06	1.85	0.18	2.12	0.41	0.07	0.02	0.03
L 9200E	9150NP	<	10	13	26	6	<	<	1	<	<	0.2	5	4	39	<	11	50	198	4	12	1	1	0.06	0.97	0.08	1.85	0.11	0.03	0.03	0.03
L 9200E	9200NP	0.1	24	25	38	7	<	<	<	<	<	0.2	3	6	87	<	10	17	83	4	23	<	1	0.02	0.85	0.14	0.93	0.16	0.04	0.04	0.05
L 9200E	9250NP	<	30	14	54	11	<	<	1	<	<	<	9	17	150	<	31	51	209	10	31	<	3	0.08	2.01	0.28	2.36	0.62	0.07	0.02	0.06
L 9200E	9300NP	<	29	12	38	9	<	<	1	<	<	0.2	6	12	85	<	22	39	142	9	25	1	2	0.06	1.50	0.21	1.76	0.41	0.07	0.03	0.04
L 9200E	9350NP	<	37	14	47	11	<	<	1	<	<	0.1	7	11	121	<	24	37	217	7	43	1	2	0.05	1.56	0.23	1.77	0.48	0.06	0.03	0.06
L 9200E	9400NP	<	25	15	48	11	<	<	<	<	<	0.1	6	11	105	<	28	44	170	9	34	1	3	0.08	1.57	0.23	2.00	0.54	0.06	0.02	0.06
L 9200E	9450NP	<	25	15	47	<	<	<	1	<	<	0.1	6	10	91	<	25	39	173	8	37	<	2	0.06	1.47	0.22	1.60	0.53	0.05	0.02	0.05
L 9200E	9500NP	<	477	29	89	57	<	<	49	<	<	0.3	12	12	224	<	21	42	558	17	53	1	3	0.05	1.46	0.63	2.08	0.46	0.05	0.03	0.10
L 9200E	9550NP	<	253	17	85	39	<	<	17	<	<	0.2	19	20	150	<	44	80	575	12	14	2	5	0.13	2.49	0.25	3.83	1.04	0.19	0.02	0.10
L 9200E	9600NP	1.2	126	22	79	19	<	<	9	<	<	<	17	25	197	<	58	100	451	9	18	3	5	0.19	3.19	0.19	4.18	1.18	0.11	0.02	0.03
L 9200E	9650NP	<	74	22	65	7	<	<	10	<	<	0.2	11	18	241	<	31	63	657	9	21	1	3	0.08	2.07	0.21	2.71	0.57	0.08	0.02	0.06
L 9200E	9700NP	<	202	23	71	26	<	<	9	<	<	<	12	15	101	<	23	78	287	8	23	1	4	0.08	2.82	0.21	3.43	0.90	0.04	0.02	0.03
L 9200E	9750NP	<	896	24	66	24	<	<	14	<	<	<	17	21	132	<	44	75	718	12	26	1	5	0.12	2.39	0.42	3.44	1.07	0.13	0.02	0.13
L 9200E	9800NP	<	166	17	50	14	<	<	3	<	<	0.2	11	18	119	<	31	68	203	9	21	3	3	0.11	2.37	0.21	2.79	0.68	0.06	0.02	0.03
L 9200E	9850NP	0.6	790	31	52	19	<	<	4	<	<	<	11	17	155	<	21	53	206	12	37	2	3	0.06	3.23	0.29	2.44	0.52	0.06	0.03	0.06
L 9200E	9900NP	1.1	816	43	72	25	5	<	15	<	<	0.3	11	14	110	<	26	56	599	10	16	1	4	0.07	2.07	0.15	2.74	0.57	0.07	0.03	0.05
L 9200E	9950NP	<	40	12	12	<	<	<	<	<	<	0.1	3	2	21	<	5	27	45	3	7	2	1	0.06	0.64	0.04	0.97	0.07	0.03	0.03	0.02
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS

iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 08, 1993 Page 14 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L 9200E	10000NP	<	88	28	64	14	<	<	4	<	<	0.1	9	14	127	<	24	65	324	7	20	1	3	0.08	1.59	0.18	2.67	0.47	0.07	0.02	0.02
L 9200E	10050NP	<	41	23	52	14	<	<	2	<	<	0.2	11	9	101	<	21	53	610	7	23	1	3	0.07	1.22	0.23	2.07	0.41	0.07	0.02	0.04
L 9200E	10100NP	<	825	43	209	74	<	<	21	<	<	<	23	17	113	<	20	75	368	10	18	1	4	0.02	2.59	0.20	4.40	0.41	0.08	0.02	0.10
L 9200E	10150NP	<	57	20	62	12	<	<	2	<	<	0.1	10	10	153	<	21	65	434	8	29	<	3	0.08	1.52	0.25	2.43	0.41	0.08	0.03	0.05
L 9200E	10200NP	<	86	25	80	17	<	<	3	<	<	<	9	14	148	<	29	73	284	10	28	<	4	0.08	2.14	0.24	3.03	0.62	0.07	0.02	0.04
L 9200E	10250NP	<	53	16	44	8	<	<	2	<	<	0.1	6	8	99	<	16	51	119	6	23	<	2	0.06	1.26	0.17	1.94	0.28	0.06	0.03	0.04
L 9200E	10300NP	<	100	27	71	16	<	<	3	<	<	<	10	16	141	<	31	66	262	11	28	1	4	0.09	2.13	0.25	2.92	0.66	0.09	0.02	0.04
L 9200E	10350NP	<	47	20	54	11	<	<	2	<	<	0.2	10	14	103	<	28	63	264	9	20	1	3	0.09	1.73	0.21	2.59	0.59	0.10	0.02	0.04
L 9200E	10400NP	<	40	12	50	13	<	<	2	<	<	<	8	12	110	<	26	59	209	8	22	1	3	0.09	1.69	0.21	2.50	0.58	0.08	0.02	0.04
L 9200E	10450NP	<	55	17	49	13	<	<	3	<	<	<	8	13	118	<	29	62	182	9	21	1	4	0.09	1.87	0.21	2.61	0.64	0.09	0.02	0.03
L 9200E	10500NP	<	42	16	47	11	<	<	2	<	<	<	9	15	156	<	29	59	196	9	22	2	4	0.09	2.18	0.21	2.61	0.65	0.11	0.02	0.03
L 9200E	10550NP	<	23	18	36	15	<	<	4	<	2	<	8	12	185	<	31	71	206	12	44	1	5	0.09	2.47	0.20	3.28	0.89	0.19	0.03	0.05
L 9200E	10600NP	<	18	14	48	16	<	<	1	<	<	<	10	20	155	<	31	60	231	9	32	1	4	0.08	2.49	0.27	2.92	0.73	0.09	0.02	0.06
L 9200E	10650NP	<	4	<	16	<	<	<	<	<	3	0.1	3	2	32	<	5	31	53	2	14	<	1	0.05	0.44	0.12	0.97	0.09	0.03	0.05	0.04
L 9200E	10700NP	<	14	19	48	23	<	<	2	<	<	<	9	15	124	<	34	74	255	9	26	<	4	0.12	2.38	0.24	3.07	0.82	0.11	0.02	0.04
L 9200E	10750NP	<	18	18	64	28	<	<	1	<	<	<	20	22	473	<	75	116	558	12	96	2	6	0.23	3.07	0.66	4.86	1.78	0.51	0.03	0.16
L 9200E	10800NP	<	15	17	47	12	<	<	<	<	<	0.1	11	19	138	<	33	60	241	10	20	2	4	0.09	2.38	0.21	2.71	0.65	0.08	0.02	0.04
L 9200E	10850NP	<	16	16	42	12	<	<	1	<	<	<	11	18	104	<	30	54	242	9	20	2	3	0.09	2.01	0.21	2.42	0.63	0.08	0.02	0.04
L 9200E	10900NP	<	10	10	21	5	<	<	1	<	<	<	5	7	62	<	13	35	90	4	14	<	1	0.05	1.01	0.12	1.37	0.22	0.04	0.03	0.03
L 9200E	10950NP	<	20	14	47	16	<	<	1	<	<	<	10	19	146	<	34	66	225	9	24	1	4	0.09	2.10	0.25	3.00	0.66	0.07	0.02	0.04
L 9200E	11000NP	<	11	12	34	8	<	<	1	<	<	0.2	7	10	77	<	19	53	146	7	17	1	2	0.08	1.22	0.17	1.92	0.37	0.05	0.03	0.04
L 9300E	9000NP	0.1	20	15	49	14	<	<	1	<	<	0.1	10	19	113	<	28	58	196	9	16	2	3	0.08	1.82	0.16	2.54	0.58	0.07	0.02	0.02
L 9300E	9050NP	<	35	28	81	22	<	<	2	<	<	<	11	17	93	<	32	66	465	7	29	1	3	0.08	2.07	0.26	2.96	0.72	0.05	0.02	0.07
L 9300E	9100NP	<	53	62	97	29	<	<	2	<	<	0.1	12	18	148	<	36	70	326	8	37	1	3	0.10	2.59	0.25	3.29	0.66	0.07	0.02	0.04
L 9300E	9150NP	<	27	15	49	10	<	<	1	<	<	0.1	12	21	145	<	32	60	269	9	23	3	3	0.09	2.20	0.24	2.69	0.62	0.07	0.02	0.04
L 9300E	9200NP	<	16	14	29	11	<	<	1	<	<	<	5	9	92	<	21	62	145	8	20	1	2	0.07	1.32	0.16	2.28	0.26	0.04	0.02	0.06
L 9300E	9250NP	<	29	16	47	22	<	<	2	<	<	<	11	17	87	<	32	66	299	7	33	2	3	0.10	2.07	0.18	3.04	0.55	0.06	0.02	0.05
L 9300E	9300NP	0.2	70	20	60	12	<	<	1	<	<	<	10	18	133	<	32	48	273	11	43	1	3	0.08	2.00	0.30	2.38	0.69	0.08	0.02	0.06
L 9300E	9350NP	<	32	13	43	8	<	<	1	<	2	0.1	7	12	112	<	22	38	144	10	29	<	2	0.06	1.38	0.27	1.80	0.48	0.05	0.02	0.06
L 9300E	9400NP	<	9	9	36	5	<	<	1	<	<	0.1	8	9	73	<	17	41	237	8	31	<	2	0.07	0.89	0.26	1.50	0.38	0.04	0.02	0.05
L 9300E	9450NP	<	12	10	39	5	<	<	1	<	<	<	6	9	90	<	19	36	159	7	36	1	2	0.06	1.08	0.32	1.51	0.43	0.04	0.03	0.06
L 9300E	9500NP	<	16	15	36	5	<	<	1	<	<	0.1	5	7	75	<	15	37	150	5	30	<	1	0.05	0.92	0.25	1.48	0.32	0.04	0.03	0.04
L 9300E	9550NP	<	823	38	152	188	<	<	42	<	<	0.6	10	16	214	<	22	40	317	19	62	1	3	0.03	1.60	0.75	2.44	0.49	0.05	0.03	0.10
L 9300E	9600NP	<	155	13	38	11	<	<	7	<	<	0.1	9	10	156	<	19	52	502	12	20	<	3	0.07	1.28	0.19	2.00	0.36	0.06	0.02	0.03
L 9300E	9650NP	<	69	15	37	10	<	<	5	<	<	<	7	14	123	<	23	50	188	10	14	1	3	0.07	1.57	0.15	2.20	0.45	0.07	0.02	0.02
L 9300E	9700NP	0.1	81	15	45	10	<	<	3	<	<	0.2	9	13	123	<	24	60	235	9	16	1	3	0.09	1.61	0.16	2.49	0.53	0.06	0.02	0.04
L 9300E	9750NP	<	199	23	56	12	<	<	3	<	<	<	9	23	193	<	32	60	239	9	21	2	4	0.08	2.37	0.24	2.72	0.69	0.08	0.02	0.05
L 9300E	9800NP	<	92	26	43	9	<	<	3	<	<	0.1	8	15	105	<	27	59	204	9	19	1	3	0.08	1.73	0.21	2.45	0.48	0.07	0.02	0.04
L 9300E	9850NP	<	68	23	54	16	<	<	5	<	<	0.3	10	18	143	<	35	78	318	8	19	3	3	0.10	2.07	0.17	3.38	0.63	0.09	0.02	0.03
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS

iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 08, 1993 Page 15 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L 9300E	9900NP	<	158	138	75	24	8	<	13	<	<	0.1	9	15	160	<	31	72	305	10	18	1	3	0.08	2.29	0.18	3.21	0.57	0.07	0.02	0.06
L 9300E	9950NP	1.0	131	13	56	13	<	<	2	<	<	<	14	30	182	<	39	69	291	9	22	6	4	0.10	3.08	0.19	3.34	0.76	0.10	0.02	0.02
L 9300E	10000NP	0.7	350	14	56	7	<	<	5	<	<	<	10	14	158	<	31	64	397	10	21	1	2	0.07	2.55	0.19	2.85	0.48	0.06	0.03	0.09
L 9300E	10050NP	0.7	2137	397	380	19	<	<	67	<	<	1.1	15	23	140	<	39	75	475	20	23	1	5	0.10	1.98	0.43	3.39	0.98	0.15	0.02	0.13
L 9300E	10100NP	0.1	728	22	71	19	<	<	11	<	<	0.2	9	14	125	<	29	63	247	11	19	2	4	0.10	1.85	0.22	2.69	0.65	0.12	0.02	0.07
L 9300E	10150NP	0.3	1090	3	83	10	<	<	10	<	<	0.4	12	14	199	<	37	69	316	10	40	1	5	0.15	1.76	0.48	2.46	1.01	0.24	0.04	0.10
L 9300E	10200NP	<	180	11	54	24	<	<	4	<	<	<	10	14	137	<	30	70	286	10	24	1	5	0.13	1.85	0.19	2.54	0.75	0.16	0.02	0.04
L 9300E	10250NP	<	197	3	31	8	<	<	2	<	<	0.1	7	7	80	<	15	65	130	5	15	1	2	0.10	1.15	0.12	2.02	0.27	0.04	0.03	0.04
L 9300E	10300NP	0.1	122	17	52	6	<	<	3	<	<	<	9	12	165	<	36	83	224	10	27	1	5	0.16	1.97	0.23	2.91	0.89	0.23	0.03	0.05
L 9300E	10350NP	0.1	217	13	68	8	<	<	4	<	<	0.1	11	14	157	<	34	85	324	11	38	2	6	0.16	2.11	0.26	3.27	1.00	0.24	0.03	0.09
L 9300E	10400NP	0.2	166	10	55	<	<	<	3	<	<	0.1	9	10	129	<	30	73	191	8	29	1	4	0.14	1.65	0.19	2.63	0.71	0.14	0.04	0.04
L 9300E	10450NP	0.2	79	30	55	20	<	<	3	<	<	0.2	13	12	135	<	26	66	382	9	23	1	3	0.10	1.61	0.20	2.69	0.60	0.10	0.02	0.05
L 9300E	10500NP	0.2	62	25	43	21	<	<	3	<	<	0.1	8	11	117	<	25	81	185	8	21	1	3	0.10	1.49	0.14	3.22	0.42	0.07	0.01	0.06
L 9300E	10550NP	0.1	61	14	77	18	<	<	3	<	<	<	16	21	214	<	50	99	337	9	26	3	6	0.17	3.59	0.21	4.10	1.10	0.10	0.02	0.06
L 9300E	10600NP	<	24	8	47	10	<	<	2	<	<	<	12	17	173	<	36	76	296	8	23	1	4	0.11	2.40	0.19	3.26	0.76	0.09	0.02	0.05
L 9300E	10650NP	<	19	16	59	14	5	<	3	<	<	<	11	16	386	<	71	123	434	12	58	1	10	0.21	3.80	0.26	5.14	2.03	0.64	0.03	0.12
L 9300E	10700NP	<	16	11	53	6	<	<	3	<	<	<	12	17	507	<	104	167	529	15	125	2	16	0.33	4.32	0.30	6.53	3.01	1.06	0.04	0.14
L 9300E	10750NP	<	14	5	47	20	<	<	2	<	<	<	10	14	175	<	40	85	326	13	117	2	6	0.14	2.69	0.47	4.03	1.19	0.21	0.03	0.11
L 9300E	10800NP	<	18	9	61	34	<	<	2	<	<	<	16	16	187	<	42	100	437	13	59	3	6	0.20	2.43	0.46	3.98	1.25	0.16	0.03	0.10
L 9300E	10850NP	<	23	7	55	6	5	<	1	<	<	<	12	22	150	<	38	68	314	12	22	3	5	0.12	2.56	0.24	2.98	0.73	0.10	0.02	0.05
L 9300E	10900NP	<	16	<	26	<	<	<	<	<	<	0.1	5	6	101	<	14	41	116	8	17	1	1	0.06	1.15	0.15	1.44	0.23	0.04	0.03	0.04
L 9300E	10950NP	<	22	6	44	<	<	<	1	<	<	0.1	9	16	135	<	31	61	212	10	25	1	3	0.10	1.94	0.29	2.49	0.58	0.07	0.02	0.05
L 9300E	11000NP	<	24	6	46	7	<	<	1	<	<	<	10	19	126	<	31	58	264	11	36	1	4	0.09	2.11	0.37	2.57	0.65	0.07	0.02	0.08
L 9400E	9000NP	<	12	15	77	8	<	<	1	<	<	0.3	12	20	108	<	34	65	308	8	26	2	4	0.09	2.26	0.28	3.01	0.74	0.09	0.02	0.04
L 9400E	9050NP	0.4	15	36	124	15	<	<	1	<	<	0.4	13	24	160	<	61	76	471	10	47	2	5	0.13	2.57	0.56	3.33	1.25	0.09	0.03	0.07
L 9400E	9100NP	0.2	32	11	61	<	<	<	1	<	<	0.1	11	21	141	<	41	68	228	12	22	5	4	0.12	3.12	0.25	3.20	0.73	0.09	0.02	0.04
L 9400E	9150NP	<	16	8	54	8	<	<	2	<	<	<	10	19	144	<	35	87	221	9	25	3	3	0.12	2.60	0.19	3.47	0.56	0.06	0.02	0.03
L 9400E	9200NP	<	4	<	12	<	<	<	<	<	<	0.2	3	2	20	<	4	33	67	<	11	1	<	0.05	0.54	0.07	1.00	0.05	0.02	0.04	0.02
L 9400E	9250NP	<	34	3	61	9	<	<	2	<	<	0.1	12	19	115	<	31	62	378	10	54	2	3	0.10	2.61	0.33	3.03	0.58	0.06	0.03	0.08
L 9400E	9300NP	<	34	3	53	<	<	<	1	<	<	<	10	16	138	<	29	50	281	12	61	1	3	0.09	1.69	0.41	2.22	0.66	0.06	0.03	0.07
L 9400E	9350NP	<	43	11	56	<	<	<	2	<	<	<	13	12	147	<	24	77	427	8	37	1	2	0.09	1.74	0.31	2.83	0.47	0.06	0.03	0.07
L 9400E	9400NP	<	35	13	42	6	<	<	1	<	<	0.1	7	9	85	<	18	48	225	6	27	1	2	0.06	1.36	0.18	1.97	0.36	0.05	0.03	0.03
L 9400E	9450NP	0.1	3	<	11	<	<	<	1	<	<	0.1	2	1	17	<	3	24	32	<	10	1	<	0.04	0.46	0.09	0.75	0.04	0.02	0.04	0.02
L 9400E	9500NP	<	33	8	62	5	<	<	1	<	<	<	8	14	148	<	29	51	264	13	35	1	3	0.07	1.78	0.49	2.28	0.68	0.05	0.02	0.09
L 9400E	9550NP	<	417	22	117	58	<	<	20	<	<	0.2	9	12	191	<	23	43	560	15	57	1	3	0.05	1.53	0.73	2.02	0.52	0.03	0.02	0.13
L 9400E	9600NP	<	83	10	60	6	<	<	5	<	<	0.2	15	10	113	<	30	109	421	6	21	1	3	0.21	1.19	0.30	3.29	0.76	0.19	0.03	0.08
L 9400E	9650NP	1.0	671	19	95	28	<	<	40	<	<	0.1	10	15	244	<	24	45	531	13	36	1	3	0.05	2.15	0.42	2.13	0.56	0.08	0.03	0.09
L 9400E	9700NP	0.3	122	5	50	11	<	<	5	<	<	0.1	10	20	206	<	29	63	331	15	22	1	4	0.09	1.85	0.21	2.86	0.68	0.10	0.02	0.04
L 9400E	9750NP	0.5	138	8	74	7	<	<	5	<	<	<	11	22	200	<	43	75	284	12	22	2	5	0.13	2.64	0.21	3.21	0.90	0.11	0.02	0.03
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 08, 1993 Page 16 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L 9400E	9800NP	0.1	108	10	65	<	<	<	3	<	<	0.1	11	24	138	<	33	67	238	9	14	5	4	0.10	2.21	0.18	2.98	0.71	0.09	0.02	0.03
L 9400E	9850NP	0.3	288	67	91	12	7	<	8	<	<	0.1	13	26	163	<	39	77	282	8	16	5	4	0.10	3.23	0.15	3.58	0.80	0.07	0.01	0.03
L 9400E	9900NP	0.8	231	18	78	6	<	<	4	<	<	0.2	13	27	153	<	39	68	327	9	14	4	4	0.10	2.58	0.14	3.01	0.79	0.07	0.01	0.02
L 9400E	9950NP	0.6	576	49	145	18	7	<	17	<	<	0.1	15	22	159	<	42	86	474	10	20	3	5	0.10	3.15	0.17	3.79	0.96	0.09	0.01	0.04
L 9400E	10000NP	<	18	3	22	<	<	<	1	<	<	0.2	7	6	88	<	12	41	361	4	14	1	1	0.07	0.96	0.11	1.44	0.20	0.03	0.03	0.02
L 9400E	10050NP	0.2	723	16	85	9	5	<	5	<	<	0.1	17	25	160	<	62	96	400	11	18	2	6	0.19	3.00	0.24	3.60	1.50	0.13	0.02	0.07
L 9400E	10100NP	0.5	139	8	74	5	<	<	3	<	<	0.2	11	15	111	<	39	93	236	7	17	3	4	0.16	2.08	0.16	3.30	0.73	0.05	0.02	0.04
L 9400E	10150NP	<	174	3	29	<	<	<	8	<	<	0.2	6	9	77	<	20	53	115	6	18	1	2	0.09	1.04	0.15	1.96	0.41	0.06	0.03	0.05
L 9400E	10200NP	0.6	430	26	62	14	<	<	6	<	<	0.1	9	12	111	<	36	67	184	7	14	1	4	0.13	1.70	0.15	2.44	0.87	0.09	0.03	0.05
L 9400E	10250NP	0.5	320	14	55	20	<	<	3	<	<	0.2	12	14	96	<	44	106	188	6	16	3	5	0.24	2.14	0.17	3.28	1.11	0.10	0.03	0.04
L 9400E	10300NP	0.4	207	7	56	6	<	<	8	<	<	0.2	9	10	97	<	30	72	154	5	15	1	4	0.14	1.51	0.13	2.54	0.74	0.12	0.03	0.04
L 9400E	10350NP	<	35	<	16	<	<	<	1	<	<	0.2	4	2	27	<	6	39	49	2	10	1	1	0.07	0.51	0.09	1.14	0.10	0.04	0.04	0.03
L 9400E	10400NP	0.1	166	15	42	<	<	<	3	<	<	0.5	4	4	94	<	12	53	78	3	23	1	1	0.07	0.54	0.14	1.56	0.24	0.10	0.03	0.05
L 9400E	10450NP	<	109	13	56	11	<	<	3	<	<	0.1	15	11	160	<	30	79	471	13	28	1	4	0.13	1.62	0.35	2.98	0.78	0.14	0.02	0.11
L 9400E	10500NP	0.2	63	12	68	22	<	<	3	<	<	0.1	16	17	242	<	49	83	451	13	43	1	6	0.15	2.43	0.41	3.45	1.25	0.25	0.03	0.10
L 9400E	10550NP	0.1	48	4	49	16	<	<	2	<	<	<	10	14	152	<	36	70	285	7	32	1	4	0.12	1.99	0.22	2.89	0.84	0.16	0.03	0.06
L 9400E	10600NP	<	45	4	64	22	<	<	2	<	<	<	15	20	329	<	80	130	430	8	46	1	11	0.33	3.22	0.35	4.59	2.27	0.58	0.03	0.09
L 9400E	10650NP	<	25	4	47	9	<	<	2	<	<	<	10	16	134	<	33	75	230	8	32	1	3	0.11	2.16	0.21	3.11	0.73	0.10	0.02	0.05
L 9400E	10700NP	<	22	4	48	10	<	<	2	<	<	<	9	17	125	<	30	66	246	9	25	1	3	0.10	2.24	0.20	2.91	0.67	0.08	0.02	0.04
L 9400E	10750NP	<	18	6	54	37	<	<	1	<	<	<	13	18	170	<	36	76	374	10	44	2	5	0.12	2.74	0.27	3.67	0.94	0.12	0.02	0.06
L 9400E	10800NP	<	25	8	60	20	<	<	1	<	<	<	11	21	160	<	37	78	318	10	30	1	4	0.10	2.88	0.26	3.45	0.77	0.09	0.02	0.06
L 9400E	10850NP	<	15	<	25	<	<	<	1	<	<	0.1	6	8	80	<	16	39	181	5	22	1	2	0.06	1.30	0.18	1.61	0.28	0.05	0.04	0.06
L 9400E	10900NP	0.1	23	8	50	5	<	<	1	<	<	<	12	22	137	<	35	73	241	9	22	2	4	0.11	2.63	0.21	3.23	0.69	0.08	0.02	0.04
L 9400E	10950NP	<	19	6	50	<	<	<	1	<	<	<	11	21	133	<	34	68	268	8	20	2	4	0.11	2.40	0.22	3.07	0.68	0.07	0.02	0.05
L 9400E	11000NP	<	21	5	45	11	<	<	1	<	<	<	11	19	116	<	33	65	259	8	23	2	4	0.10	2.49	0.22	2.76	0.63	0.07	0.02	0.04
L 9500E	9000NP	<	11	4	42	<	<	<	<	<	<	0.4	8	6	63	<	11	66	199	7	21	1	1	0.09	0.80	0.21	2.04	0.19	0.03	0.04	0.06
L 9500E	9050NP	<	10	11	52	<	<	<	2	<	<	0.4	6	9	121	<	26	76	158	11	26	1	3	0.12	1.40	0.26	2.30	0.39	0.06	0.02	0.03
L 9500E	9100NP	<	8	8	131	17	<	<	1	<	<	<	18	17	102	<	66	126	470	10	47	1	9	0.11	3.87	0.89	5.58	1.65	0.07	0.02	0.25
L 9500E	9150NP	<	16	11	69	<	<	<	1	<	<	0.2	10	17	119	<	34	68	230	11	23	1	4	0.11	2.21	0.27	2.83	0.64	0.08	0.02	0.06
L 9500E	9200NP	0.8	51	20	117	6	<	<	1	<	<	<	18	26	370	<	53	82	603	18	94	2	8	0.04	5.26	0.90	4.16	0.89	0.12	0.04	0.12
L 9500E	9250NP	<	19	6	48	<	<	<	1	<	<	0.4	7	8	100	<	15	43	188	6	28	1	2	0.06	1.22	0.25	1.67	0.28	0.05	0.04	0.05
L 9500E	9300NP	0.1	25	5	63	<	<	<	1	<	<	<	10	15	145	<	30	55	334	11	38	1	4	0.08	1.93	0.37	2.47	0.64	0.06	0.03	0.07
L 9500E	9350NP	<	33	3	55	<	<	<	2	<	<	<	11	13	103	<	22	56	369	7	27	1	2	0.07	1.75	0.24	2.34	0.46	0.06	0.03	0.05
L 9500E	9400NP	0.1	55	9	68	16	<	<	2	<	<	<	14	17	101	<	29	65	532	9	28	2	3	0.08	2.20	0.24	2.99	0.61	0.06	0.02	0.04
L 9500E	9450NP	<	55	14	65	23	<	<	3	<	<	0.2	12	12	183	<	21	47	903	13	44	1	4	0.04	1.55	0.52	2.65	0.45	0.04	0.03	0.09
L 9500E	9500NP	0.3	87	19	109	10	<	<	1	<	<	<	7	13	261	<	29	37	264	14	70	2	5	0.04	2.00	0.81	1.97	0.64	0.06	0.03	0.11
L 9500E	9550NP	0.5	49	7	49	9	<	<	3	<	<	0.1	10	24	178	<	31	55	235	9	18	1	3	0.08	2.05	0.20	2.56	0.65	0.08	0.02	0.05
L 9500E	9600NP	1.0	178	18	135	7	<	<	22	<	<	0.2	11	16	205	<	31	77	318	9	17	2	4	0.08	2.67	0.17	3.42	0.72	0.07	0.01	0.03
L 9500E	9650NP	0.2	82	12	62	<	<	<	5	<	<	0.2	12	23	172	<	40	69	274	10	20	4	4	0.11	2.65	0.22	3.04	0.74	0.08	0.02	0.03
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS

iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 08, 1993 Page 17 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L 9500E	9700NP	0.8	70	11	71	<	<	<	5	<	<	0.1	15	23	217	<	41	80	332	10	22	3	4	0.11	2.89	0.22	3.34	0.64	0.07	0.02	0.04
L 9500E	9750NP	0.9	312	11	30	<	<	<	4	<	<	0.1	4	7	88	<	13	25	83	7	18	<	1	0.04	0.96	0.17	1.18	0.26	0.05	0.03	0.04
L 9500E	9800NP	0.9	377	18	63	18	<	<	16	<	<	0.2	10	21	137	<	37	83	255	10	22	3	4	0.10	2.63	0.25	3.60	0.77	0.08	0.01	0.06
L 9500E	9850NP	0.6	39	19	60	5	<	<	9	<	<	0.4	7	11	99	<	23	72	145	8	15	1	2	0.08	1.50	0.15	2.62	0.34	0.06	0.01	0.04
L 9500E	9900NP	1.0	270	40	66	7	<	<	10	<	<	0.2	9	11	135	<	22	57	262	10	19	<	2	0.08	1.41	0.26	2.32	0.47	0.05	0.02	0.06
L 9500E	9950NP	1.0	233	36	69	<	<	<	8	<	<	0.3	8	14	143	<	28	64	202	9	18	1	3	0.10	1.84	0.20	2.59	0.60	0.06	0.02	0.04
L 9500E	10000NP	0.5	448	11	64	9	<	<	5	<	<	0.1	9	16	150	<	29	59	248	11	19	1	3	0.09	1.71	0.23	2.44	0.68	0.08	0.02	0.05
L 9500E	10050NP	0.4	317	15	45	5	<	<	6	<	<	0.1	7	10	103	<	21	49	163	6	14	1	2	0.08	1.34	0.14	1.86	0.48	0.06	0.03	0.03
L 9500E	10100NP	0.6	131	19	53	6	<	<	3	<	<	0.1	11	24	145	<	33	56	218	8	16	3	3	0.08	2.30	0.16	2.65	0.64	0.06	0.02	0.03
L 9500E	10150NP	0.3	299	22	69	9	<	<	6	<	<	0.1	11	19	147	<	35	63	280	8	13	2	3	0.09	2.16	0.13	2.76	0.61	0.06	0.02	0.03
L 9500E	10200NP	<	138	22	63	11	<	<	4	<	<	<	10	22	149	<	33	58	253	7	14	4	3	0.09	2.13	0.13	2.69	0.67	0.06	0.02	0.01
L 9500E	10250NP	0.3	47	26	52	<	<	<	7	<	<	0.1	8	14	145	<	27	68	200	8	13	2	3	0.09	1.71	0.12	2.61	0.47	0.05	0.01	0.02
L 9500E	10300NP	0.3	69	35	58	9	<	<	7	<	<	0.3	9	12	125	<	19	45	321	9	15	1	2	0.07	1.23	0.17	1.93	0.38	0.05	0.02	0.04
L 9500E	10350NP	0.3	40	15	58	7	<	<	4	<	<	0.3	9	16	142	<	28	66	231	8	18	1	2	0.08	1.73	0.16	3.00	0.49	0.06	0.01	0.04
L 9500E	10400NP	0.1	176	20	75	16	6	<	7	<	<	0.2	9	13	179	<	28	71	250	10	16	1	4	0.11	1.76	0.18	2.61	0.69	0.17	0.02	0.04
L 9500E	10450NP	0.4	256	7	51	11	<	<	11	<	<	0.1	10	13	143	<	26	68	228	11	16	1	5	0.12	1.73	0.20	2.63	0.83	0.17	0.02	0.07
L 9500E	10500NP	0.4	257	9	50	7	<	<	10	<	<	0.1	10	12	142	<	26	67	227	10	16	2	5	0.12	1.73	0.20	2.61	0.83	0.17	0.02	0.07
L 9500E	10550NP	0.2	88	12	39	14	<	<	8	<	<	<	9	15	174	<	27	61	155	18	35	2	5	0.07	1.93	0.15	2.92	0.68	0.13	0.03	0.05
L 9500E	10600NP	0.7	98	76	56	8	<	<	5	<	<	<	7	9	148	<	25	77	141	13	30	1	4	0.07	1.63	0.12	3.43	0.66	0.14	0.04	0.07
L 9500E	10650NP	0.3	150	43	69	45	<	<	5	<	<	0.1	13	16	121	<	30	69	275	12	23	1	4	0.10	1.77	0.28	3.22	0.81	0.16	0.02	0.09
L 9500E	10700NP	0.2	38	11	54	7	<	<	4	<	<	<	20	11	165	<	25	69	1016	12	30	1	4	0.10	1.79	0.38	3.63	0.75	0.11	0.02	0.09
L 9500E	10750NP	0.1	35	26	79	20	<	<	2	<	<	<	13	19	149	<	57	104	379	7	24	2	6	0.19	2.89	0.21	4.48	1.44	0.17	0.02	0.07
L 9500E	10800NP	<	14	6	59	9	<	<	2	<	<	0.1	12	11	173	<	40	100	470	9	34	1	4	0.13	1.82	0.39	3.86	0.94	0.20	0.02	0.11
L 9500E	10850NP	0.1	13	3	47	<	<	<	1	<	<	0.1	6	10	124	<	24	57	208	5	33	1	2	0.09	1.65	0.28	2.32	0.68	0.15	0.03	0.08
L 9500E	10900NP	<	16	5	49	8	<	<	1	<	<	0.2	10	19	90	<	32	57	241	7	19	2	3	0.09	1.92	0.18	2.69	0.65	0.08	0.02	0.04
L 9500E	10950NP	<	17	2	51	5	<	<	1	<	<	<	11	19	137	<	37	69	266	9	34	2	4	0.12	2.12	0.30	2.95	0.79	0.10	0.02	0.06
L 9500E	11000NP	<	19	3	50	7	<	<	1	<	<	<	13	18	137	<	39	71	345	9	40	2	3	0.14	1.83	0.37	3.05	0.89	0.08	0.02	0.08
L 9600E	9000NP	<	8	11	90	<	<	<	1	<	<	0.1	9	14	147	<	28	56	424	9	63	1	4	0.05	1.92	0.65	2.45	1.22	0.05	0.02	0.12
L 9600E	9050NP	0.1	12	77	385	7	<	<	1	<	<	0.6	11	17	125	<	38	94	307	7	36	1	4	0.11	2.10	0.31	3.96	0.91	0.07	0.02	0.04
L 9600E	9100NP	1.8	31	311	192	25	<	<	1	<	<	1.2	8	12	162	<	27	63	333	16	35	<	3	0.06	1.59	0.33	2.21	0.53	0.05	0.02	0.04
L 9600E	9200NP	0.2	61	29	107	<	<	<	1	<	<	0.1	8	15	167	<	29	49	259	13	34	1	4	0.05	1.75	0.42	2.19	0.74	0.05	0.02	0.07
L 9600E	9250NP	0.3	58	22	122	6	<	<	1	<	<	0.6	15	13	201	<	28	56	809	11	71	1	3	0.04	1.71	0.68	2.40	0.56	0.05	0.02	0.16
L 9600E	9300NP	<	12	11	91	14	<	<	1	<	<	0.1	10	13	105	<	26	60	321	10	38	1	4	0.07	1.76	0.56	2.97	0.83	0.05	0.02	0.11
L 9600E	9350NP	<	14	14	77	9	<	<	1	<	<	0.3	8	10	101	<	20	55	245	8	29	<	3	0.06	1.44	0.36	2.31	0.50	0.04	0.02	0.08
L 9600E	9400NP	0.1	11	16	112	25	<	<	1	<	<	0.3	9	10	158	<	23	50	358	10	49	1	3	0.05	1.46	0.63	2.86	0.53	0.03	0.02	0.12
L 9600E	9450NP	0.2	89	38	76	20	<	<	160	<	10	0.3	8	10	169	<	20	48	629	12	30	1	2	0.04	1.01	0.41	3.11	0.42	0.08	0.02	0.09
L 9600E	9500NP	1.1	292	21	81	28	<	<	129	<	<	0.3	8	9	156	10	16	38	714	11	45	<	2	0.02	1.11	0.51	2.47	0.34	0.06	0.02	0.08
L 9600E	9550NP	1.2	815	24	170	62	<	<	22	<	<	0.8	9	16	177	<	23	45	378	16	64	1	3	0.04	1.64	0.78	2.15	0.48	0.06	0.02	0.10
L 9600E	9600NP	1.1	115	14	71	<	<	<	5	<	<	0.3	9	13	166	<	23	59	386	6	16	1	2	0.07	1.47	0.15	2.54	0.46	0.06	0.02	0.04
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 08, 1993 Page 18 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L 9600E	9650NP	0.4	159	18	67	<	<	<	8	<	<	<	8	17	202	<	30	64	276	9	19	1	3	0.07	1.92	0.23	2.71	0.66	0.05	0.02	0.03
L 9600E	9700NP	0.1	172	19	50	7	<	<	10	<	<	0.3	7	13	208	<	24	52	209	8	20	1	2	0.07	1.50	0.23	2.13	0.54	0.05	0.02	0.03
L 9600E	9750NP	0.6	248	29	93	10	<	<	25	<	<	0.1	9	20	192	<	32	60	306	9	18	1	4	0.07	2.14	0.25	2.81	0.72	0.07	0.01	0.05
L 9600E	9800NP	0.3	361	38	130	12	<	<	16	<	<	0.3	14	23	103	<	47	87	433	8	14	3	5	0.12	2.69	0.25	4.00	1.30	0.06	0.01	0.08
L 9600E	9850NP	0.8	181	23	60	7	<	<	6	<	<	0.1	8	14	97	<	28	57	204	8	13	3	3	0.08	1.61	0.16	2.35	0.59	0.04	0.01	0.02
L 9600E	9900NP	0.7	255	59	63	10	<	<	8	<	<	0.2	10	21	135	<	33	62	262	8	15	2	4	0.09	2.12	0.22	2.75	0.76	0.06	0.02	0.04
L 9600E	9950NP	<	276	31	69	8	<	<	6	<	<	0.2	11	17	100	<	36	76	289	8	19	2	4	0.13	1.93	0.28	3.05	1.05	0.09	0.02	0.08
L 9600E	10000NP	<	92	21	40	5	<	<	5	<	<	0.4	5	9	55	<	14	44	121	5	10	<	1	0.06	0.82	0.11	1.63	0.30	0.05	0.02	0.04
L 9600E	10050NP	0.4	136	26	56	10	<	<	8	<	<	0.2	6	10	88	<	20	48	169	7	13	1	2	0.06	1.19	0.17	1.99	0.41	0.05	0.02	0.04
L 9600E	10100NP	0.5	189	19	46	17	<	<	10	<	<	<	7	12	100	<	23	58	185	8	12	1	2	0.07	1.41	0.14	2.32	0.45	0.05	0.02	0.04
L 9600E	10150NP	<	26	11	42	6	<	<	4	<	<	0.2	10	11	123	<	20	52	508	6	12	1	2	0.06	1.27	0.11	2.20	0.33	0.04	0.01	0.03
L 9600E	10200NP	<	105	28	54	14	<	<	8	<	<	<	10	14	125	<	23	61	264	7	14	1	3	0.07	1.65	0.14	2.47	0.48	0.04	0.02	0.03
L 9600E	10250NP	0.1	67	17	54	11	<	<	6	<	<	0.1	9	15	121	<	26	63	232	7	13	1	3	0.08	1.76	0.14	2.76	0.50	0.05	0.02	0.04
L 9600E	10300NP	<	81	10	45	13	<	<	6	<	<	0.2	8	16	131	<	27	71	180	7	15	1	3	0.10	1.64	0.17	2.79	0.57	0.07	0.02	0.04
L 9600E	10350NP	<	91	11	42	13	<	<	5	<	<	0.3	8	13	178	<	23	72	187	7	15	1	3	0.10	1.49	0.15	2.73	0.41	0.06	0.02	0.03
L 9600E	10400NP	<	32	11	48	10	<	<	3	<	<	0.1	11	21	133	<	32	60	203	7	17	1	3	0.09	2.36	0.17	2.83	0.59	0.06	0.02	0.03
L 9600E	10450NP	<	21	<	21	<	<	<	1	<	<	0.2	4	5	82	<	11	32	70	4	9	<	1	0.05	0.75	0.07	1.14	0.17	0.04	0.03	0.02
L 9600E	10500NP	<	26	<	21	<	<	<	1	<	<	0.3	4	4	59	<	8	32	74	3	8	1	1	0.04	0.67	0.07	1.13	0.12	0.03	0.03	0.03
L 9600E	10550NP	<	4	<	7	<	<	<	<	<	<	<	2	<	22	<	2	14	25	<	9	1	<	0.03	0.41	0.07	0.50	0.02	0.03	0.03	0.03
L 9600E	10600NP	0.3	37	10	22	26	<	<	1	<	<	0.1	3	5	92	<	11	36	72	7	15	1	1	0.04	0.96	0.05	1.64	0.16	0.05	0.03	0.03
L 9600E	10650NP	<	30	17	48	10	<	<	3	<	<	0.3	9	11	87	<	22	76	276	7	13	3	2	0.10	1.21	0.10	2.86	0.38	0.06	0.01	0.04
L 9600E	10700NP	0.2	73	27	47	7	<	<	5	<	<	0.1	8	9	102	<	19	50	214	9	19	1	2	0.06	1.57	0.18	2.38	0.48	0.08	0.03	0.06
L 9600E	10750NP	0.5	119	23	68	13	<	<	14	<	<	<	11	12	171	<	35	73	404	12	40	1	4	0.09	2.00	0.29	3.47	0.85	0.13	0.03	0.09
L 9600E	10800NP	0.2	49	11	44	6	<	<	4	<	<	<	9	8	132	<	27	69	203	10	23	1	4	0.12	1.62	0.29	2.62	0.79	0.15	0.02	0.09
L 9600E	10850NP	0.2	25	11	48	7	<	<	2	<	<	<	8	13	107	<	22	53	241	10	21	<	3	0.09	1.49	0.24	2.31	0.57	0.09	0.03	0.05
L 9600E	10900NP	<	13	7	43	5	<	<	1	<	<	0.1	9	9	104	<	22	66	307	7	24	1	3	0.11	1.32	0.30	2.52	0.61	0.12	0.02	0.08
L 9600E	10950NP	<	12	7	36	5	<	<	<	<	<	0.3	6	8	130	<	21	47	246	6	20	1	2	0.08	1.19	0.23	1.91	0.54	0.09	0.03	0.07
L 9600E	11000NP	<	11	<	33	<	<	<	1	<	<	0.2	10	7	97	<	15	42	554	4	20	<	1	0.06	1.18	0.18	1.82	0.35	0.06	0.03	0.07
L 9700E	9000NP	<	12	10	91	10	<	<	1	<	<	<	11	20	156	<	49	60	445	7	58	1	3	0.11	1.87	0.71	2.89	1.51	0.07	0.03	0.15
L 9700E	9100NP	<	18	65	99	49	<	<	1	<	<	0.1	11	18	119	<	32	66	302	8	31	1	4	0.07	2.14	0.34	3.25	0.88	0.06	0.02	0.05
L 9700E	9150NP	0.5	11	107	204	65	<	<	1	<	<	0.1	8	14	128	<	27	56	295	8	27	1	3	0.07	1.52	0.34	2.53	0.71	0.04	0.02	0.05
L 9700E	9200NP	3.5	90	529	598	171	<	<	1	<	<	2.8	10	16	244	<	41	70	411	54	85	3	9	0.03	2.51	0.98	3.77	0.91	0.08	0.02	0.17
L 9700E	9250NP	1.3	32	179	378	65	6	<	1	<	<	1.6	11	16	147	<	37	64	338	20	34	3	5	0.09	1.86	0.58	2.86	1.05	0.06	0.02	0.12
L 9700E	9300NP	0.6	17	121	300	122	<	<	2	<	<	0.8	9	15	163	<	35	61	355	15	37	1	5	0.07	1.84	0.56	3.51	0.91	0.05	0.02	0.13
L 9700E	9350NP	<	15	7	37	<	<	<	1	<	<	<	6	9	123	<	20	34	148	7	38	<	2	0.05	1.48	0.39	1.44	0.38	0.04	0.03	0.06
L 9700E	9400NP	<	31	10	40	<	<	<	2	<	<	0.1	6	10	151	<	19	38	215	7	27	1	2	0.05	1.36	0.26	1.64	0.32	0.04	0.04	0.05
L 9700E	9450NP	0.1	44	15	58	9	<	<	3	<	<	0.1	8	13	189	<	23	45	374	10	28	1	3	0.05	1.38	0.34	2.13	0.53	0.05	0.02	0.05
L 9700E	9500NP	2.0	127	20	83	13	<	<	8	<	<	<	8	11	237	<	19	38	708	16	28	1	4	0.03	1.66	0.30	2.17	0.32	0.04	0.03	0.07
L 9700E	9550NP	0.9	409	25	96	32	<	<	51	<	<	<	7	11	285	<	20	43	724	25	32	1	4	0.03	1.23	0.42	2.63	0.35	0.05	0.03	0.09
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

—=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 08, 1993 Page 19 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L 9700E	9600NP	1.9	978	24	64	12	<	<	18	<	<	0.3	7	12	348	<	18	36	294	23	24	1	2	0.03	1.43	0.61	1.94	0.35	0.06	0.03	0.04
L 9700E	9650NP	1.0	407	22	57	14	<	<	11	<	<	<	9	20	183	<	31	55	264	8	13	2	3	0.05	2.01	0.13	2.74	0.61	0.05	0.02	0.02
L 9700E	9700NP	0.4	172	58	140	7	<	<	12	<	<	0.2	10	17	187	<	30	61	386	9	19	2	3	0.06	1.91	0.25	2.72	0.69	0.06	0.02	0.03
L 9700E	9750NP	0.5	236	47	83	7	<	<	6	<	<	<	10	22	224	<	34	56	334	9	19	2	3	0.08	1.87	0.27	2.58	0.70	0.05	0.02	0.04
L 9700E	9800NP	0.6	81	19	62	11	<	<	10	<	<	<	10	23	203	<	34	67	260	9	19	4	3	0.08	1.97	0.22	3.15	0.71	0.07	0.02	0.04
L 9700E	9850NP	0.8	800	61	224	25	5	<	32	<	<	<	22	33	133	<	82	118	643	8	25	2	8	0.15	4.17	0.38	5.39	2.36	0.06	0.02	0.10
L 9700E	9900NP	1.5	219	36	73	9	<	<	8	<	<	0.1	12	26	141	<	35	64	217	8	23	4	4	0.08	2.46	0.20	2.99	0.74	0.06	0.02	0.03
L 9700E	9950NP	0.5	311	63	95	6	<	<	6	<	<	0.1	12	17	113	<	34	62	397	8	15	2	4	0.10	1.79	0.25	2.79	0.97	0.07	0.02	0.06
L 9700E	10000NP	0.2	40	7	22	<	<	<	2	<	<	<	5	4	37	<	9	37	123	2	8	<	1	0.05	0.62	0.07	1.37	0.16	0.02	0.03	0.03
L 9700E	10050NP	0.5	161	24	56	9	<	<	9	<	<	<	7	13	96	<	24	60	241	7	14	1	2	0.08	1.46	0.17	2.44	0.48	0.05	0.02	0.05
L 9700E	10100NP	0.6	332	35	84	18	<	<	10	<	<	<	10	19	100	<	30	52	425	9	13	2	3	0.06	1.99	0.17	2.77	0.59	0.06	0.02	0.05
L 9700E	10150NP	0.1	56	10	34	7	<	<	5	<	<	<	6	10	102	<	18	48	179	6	12	<	2	0.06	1.15	0.11	1.97	0.35	0.05	0.02	0.03
L 9700E	10200NP	0.2	145	13	44	17	<	<	9	<	<	<	7	14	156	<	26	57	185	6	13	1	3	0.07	1.67	0.15	2.41	0.55	0.04	0.02	0.03
L 9700E	10250NP	0.2	160	15	42	14	<	<	8	<	<	<	7	14	155	<	24	54	206	8	14	1	3	0.07	1.57	0.15	2.32	0.45	0.05	0.02	0.04
L 9700E	10300NP	0.1	50	15	48	10	<	<	12	<	<	<	8	12	143	<	23	81	275	8	12	2	2	0.10	1.39	0.11	2.86	0.41	0.05	0.02	0.05
L 9700E	10350NP	0.6	25	14	43	5	<	<	5	<	<	<	9	14	169	<	28	75	212	8	13	3	3	0.08	1.85	0.13	2.96	0.38	0.05	0.02	0.03
L 9700E	10400NP	0.2	24	12	49	6	<	<	3	<	<	<	15	15	202	<	30	70	605	8	17	2	3	0.09	1.80	0.16	2.96	0.53	0.07	0.02	0.03
L 9700E	10450NP	<	103	14	52	31	<	<	4	<	<	<	11	21	133	<	31	62	224	7	18	2	4	0.08	2.26	0.16	2.92	0.65	0.06	0.02	0.04
L 9700E	10500NP	0.1	132	14	55	56	<	<	3	<	<	<	10	20	134	<	32	57	224	8	15	2	4	0.08	2.27	0.15	2.71	0.70	0.08	0.02	0.03
L 9700E	10550NP	0.2	80	13	49	28	<	<	2	<	<	<	9	18	139	<	30	53	209	10	15	2	4	0.07	1.97	0.19	2.46	0.61	0.08	0.02	0.05
L 9700E	10600NP	0.3	496	17	59	10	<	<	4	<	<	<	9	12	105	<	27	73	289	10	20	1	3	0.08	1.58	0.19	2.97	0.66	0.07	0.02	0.06
L 9700E	10650NP	0.2	59	12	37	6	<	<	3	<	<	0.1	5	7	84	<	15	46	103	7	16	<	2	0.05	1.10	0.12	1.87	0.27	0.05	0.03	0.05
L 9700E	10700NP	0.1	28	16	48	10	<	<	3	<	3	<	7	13	111	<	25	66	166	9	19	<	3	0.09	1.45	0.18	2.57	0.52	0.06	0.02	0.02
L 9700E	10750NP	<	16	<	26	<	<	<	1	<	<	0.1	5	4	38	<	7	44	61	3	13	1	1	0.05	0.44	0.12	1.38	0.11	0.04	0.03	0.04
L 9700E	10800NP	0.1	54	6	36	<	<	<	4	<	<	0.3	6	7	58	<	12	45	117	7	15	1	1	0.05	0.67	0.19	1.75	0.22	0.05	0.03	0.07
L 9700E	10850NP	0.1	36	11	50	9	<	<	4	<	<	<	10	14	126	<	37	73	256	11	19	1	6	0.14	1.82	0.22	2.82	1.00	0.24	0.02	0.07
L 9700E	10900NP	<	15	9	60	12	<	<	2	<	<	<	11	16	97	<	33	75	307	7	18	1	3	0.12	1.56	0.16	3.19	0.72	0.10	0.02	0.05
L 9700E	10950NP	<	13	8	55	13	<	<	2	<	<	<	9	15	105	<	31	67	253	7	20	1	3	0.11	1.74	0.20	3.04	0.67	0.09	0.02	0.04
L 9700E	11000NP	<	16	8	56	6	6	<	2	<	<	<	11	15	143	<	33	70	255	9	19	1	4	0.13	1.79	0.25	2.88	0.79	0.14	0.02	0.07
L 9800E	9000NP	<	13	16	60	7	<	<	2	<	<	<	11	18	109	<	30	63	255	8	21	1	3	0.08	2.00	0.24	3.05	0.61	0.06	0.02	0.06
L 9800E	9050NP	<	38	12	85	17	<	<	2	<	<	<	5	9	196	<	28	68	428	7	42	<	3	0.02	1.50	0.43	2.75	0.79	0.04	0.02	0.07
L 9800E	9100NP	<	14	12	85	7	<	<	1	<	<	<	12	15	267	<	34	58	396	10	57	1	3	0.08	1.80	0.57	2.73	1.16	0.06	0.03	0.09
L 9800E	9150NP	0.5	15	90	120	44	<	<	1	<	<	0.3	7	12	132	<	23	52	243	6	28	1	3	0.06	1.41	0.31	2.23	0.60	0.04	0.02	0.05
L 9800E	9200NP	0.3	20	37	95	13	<	<	1	<	<	0.4	5	8	124	<	14	39	150	7	31	1	2	0.05	1.03	0.26	1.58	0.34	0.03	0.04	0.05
L 9800E	9250NP	0.4	13	142	185	47	<	<	1	<	<	0.1	13	17	106	<	41	67	316	14	37	2	3	0.12	1.78	0.68	3.08	1.26	0.07	0.03	0.17
L 9800E	9300NP	<	19	8	45	<	<	<	1	<	<	<	5	10	141	<	22	25	143	6	47	2	2	0.04	1.38	0.49	1.18	0.37	0.03	0.04	0.07
L 9800E	9350NP	<	11	8	46	6	<	<	1	<	<	<	7	11	94	<	23	41	179	8	31	1	2	0.07	1.26	0.41	1.79	0.55	0.02	0.02	0.08
L 9800E	9400NP	0.1	15	5	28	<	<	<	1	<	<	<	5	7	87	<	14	31	141	4	24	<	1	0.04	1.01	0.28	1.35	0.26	0.02	0.03	0.05
L 9800E	9450NP	0.4	25	7	41	<	<	<	1	<	<	<	7	6	78	<	11	39	359	5	25	<	1	0.04	0.70	0.25	1.52	0.19	0.02	0.03	0.08
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 08, 1993 Page 20 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L 9800E	9500NP	1.4	163	11	59	23	<	<	2	<	<	0.1	7	8	96	<	16	38	345	8	29	<	2	0.03	1.10	0.28	1.82	0.40	0.03	0.02	0.06
L 9800E	9550NP	0.1	77	<	28	6	<	<	3	<	3	<	3	5	117	<	10	27	96	5	18	<	1	0.03	0.82	0.15	1.12	0.16	0.03	0.04	0.03
L 9800E	9600NP	0.6	55	<	21	<	<	<	3	<	<	<	3	2	38	<	5	26	107	2	14	<	1	0.04	0.33	0.14	0.95	0.06	0.01	0.05	0.04
L 9800E	9650NP	1.9	281	73	116	14	<	<	16	<	<	<	8	16	232	7	25	49	423	13	26	<	3	0.04	1.94	0.28	2.35	0.52	0.07	0.03	0.05
L 9800E	9700NP	2.2	171	52	86	<	<	<	8	<	<	0.5	6	9	144	<	17	38	266	10	17	1	2	0.04	1.40	0.12	1.79	0.31	0.09	0.03	0.04
L 9800E	9750NP	1.2	42	9	27	<	<	<	3	<	<	0.1	4	4	58	<	8	34	109	2	10	<	1	0.05	0.57	0.09	1.10	0.11	0.03	0.03	0.02
L 9800E	9800NP	0.7	183	48	65	7	<	<	9	<	<	<	10	13	201	<	25	73	331	12	18	1	3	0.08	1.54	0.20	2.71	0.47	0.04	0.02	0.03
L 9800E	9850NP	0.3	64	5	25	<	<	<	2	<	<	0.1	4	7	71	<	11	28	89	3	13	<	1	0.03	0.77	0.11	1.15	0.22	0.03	0.03	0.03
L 9800E	9900NP	0.7	155	21	60	17	<	<	11	<	<	<	7	17	91	<	26	66	175	7	12	3	3	0.07	1.84	0.10	3.11	0.49	0.04	0.02	0.02
L 9800E	9950NP	<	6	<	7	<	<	<	<	<	<	<	2	<	20	<	2	15	23	<	7	<	<	0.03	0.24	0.04	0.47	0.03	0.02	0.03	0.01
L 9800E	10000NP	0.2	84	18	33	5	<	<	2	<	<	0.1	4	8	50	<	13	37	94	3	7	<	1	0.05	0.85	0.06	1.47	0.21	0.03	0.02	0.03
L 9800E	10050NP	0.2	314	22	50	11	<	<	5	<	<	<	6	13	90	<	25	47	192	7	15	1	2	0.06	1.29	0.20	2.02	0.49	0.05	0.03	0.06
L 9800E	10100NP	0.4	503	20	49	10	<	<	6	<	<	<	7	14	77	<	30	52	166	7	13	2	3	0.08	2.04	0.20	2.38	0.58	0.06	0.02	0.05
L 9800E	10150NP	0.9	525	29	79	46	<	<	11	<	<	<	8	7	79	<	9	75	110	10	20	1	1	0.09	0.91	0.25	2.44	0.12	0.03	0.04	0.09
L 9800E	10200NP	0.6	558	19	57	48	<	<	16	<	<	<	8	18	153	<	30	60	183	9	15	1	3	0.08	2.06	0.17	2.84	0.58	0.07	0.02	0.03
L 9800E	10250NP	0.4	524	14	53	44	<	<	10	<	<	<	9	20	159	<	29	59	259	8	17	2	3	0.08	1.89	0.19	2.75	0.65	0.08	0.02	0.04
L 9800E	10300NP	0.5	547	15	47	23	<	<	15	<	<	0.1	6	10	133	<	19	48	178	9	15	1	2	0.07	1.18	0.18	1.92	0.38	0.07	0.03	0.06
L 9800E	10350NP	0.3	55	12	48	7	<	<	5	<	<	<	9	13	151	<	26	64	269	6	15	1	3	0.08	1.67	0.14	2.62	0.55	0.05	0.02	0.04
L 9800E	10400NP	0.3	26	15	53	9	<	<	5	<	<	<	9	15	246	<	30	70	386	8	18	1	3	0.07	1.90	0.17	2.96	0.46	0.05	0.02	0.03
L 9800E	10450NP	0.2	40	10	26	10	<	<	7	<	<	<	4	7	91	<	11	28	120	4	13	<	1	0.04	0.65	0.13	1.15	0.18	0.03	0.03	0.04
L 9800E	10500NP	<	25	6	24	<	<	<	2	<	<	0.1	5	6	109	<	11	33	132	3	10	1	1	0.04	0.98	0.09	1.30	0.15	0.04	0.03	0.03
L 9800E	10550NP	0.2	125	31	63	49	<	<	6	<	<	<	10	18	169	<	43	69	211	11	27	1	4	0.10	2.03	0.20	3.04	0.80	0.11	0.02	0.04
L 9800E	10600NP	<	38	3	28	<	<	<	2	<	<	<	5	5	58	<	12	44	113	4	14	<	1	0.05	0.74	0.11	1.52	0.20	0.04	0.03	0.04
L 9800E	10650NP	<	41	16	56	9	<	<	3	<	<	<	9	17	91	<	30	65	214	9	18	2	4	0.08	2.11	0.18	3.40	0.61	0.07	0.02	0.04
L 9800E	10700NP	0.2	26	17	49	11	<	<	2	<	<	<	10	15	87	<	28	67	276	8	18	2	3	0.09	1.62	0.16	3.18	0.51	0.07	0.02	0.05
L 9800E	10750NP	<	22	<	14	<	<	<	1	<	<	0.1	2	3	36	<	5	19	36	2	12	1	1	0.03	0.60	0.09	0.77	0.07	0.03	0.04	0.03
L 9800E	10800NP	<	47	9	46	9	<	<	3	<	<	<	8	14	100	<	29	58	198	7	17	1	3	0.09	1.65	0.19	2.52	0.65	0.08	0.03	0.05
L 9800E	10850NP	<	13	<	22	<	<	<	1	<	<	<	4	6	47	<	9	34	78	3	12	<	1	0.04	0.71	0.12	1.28	0.18	0.03	0.04	0.04
L 9800E	10900NP	<	11	5	32	<	<	<	1	<	<	<	4	8	67	<	16	39	100	6	14	1	1	0.05	0.97	0.14	1.56	0.32	0.05	0.03	0.03
L 9800E	10950NP	<	12	8	51	5	<	<	2	<	<	<	8	14	87	<	29	62	218	6	17	1	3	0.10	1.52	0.22	2.71	0.62	0.07	0.02	0.05
L 9800E	11000NP	0.1	12	13	68	7	<	<	1	<	<	<	13	17	125	<	48	97	314	9	19	2	4	0.18	1.84	0.23	3.80	0.99	0.12	0.02	0.03
L 9900E	9000NP	0.1	9	11	58	7	<	<	2	<	<	<	7	13	92	<	26	65	219	6	18	<	3	0.07	1.53	0.20	2.69	0.57	0.04	0.02	0.04
L 9900E	9050NP	0.4	65	13	88	11	<	<	1	<	<	<	7	14	211	<	22	43	264	11	33	<	3	0.05	1.16	0.39	2.12	0.51	0.04	0.02	0.09
L 9900E	9100NP	0.2	11	11	72	7	<	<	2	<	<	<	11	14	92	<	30	68	406	8	20	1	4	0.06	1.97	0.25	3.26	0.74	0.08	0.02	0.06
L 9900E	9150NP	0.1	11	<	30	<	<	<	<	<	<	0.2	3	3	72	<	6	26	84	3	26	<	1	0.03	0.45	0.17	0.91	0.11	0.03	0.04	0.04
L 9900E	9200NP	0.2	14	8	58	5	<	<	<	<	<	0.2	6	8	125	<	15	49	115	18	36	1	3	0.06	1.04	0.33	1.83	0.27	0.03	0.04	0.08
L 9900E	9250NP	<	19	5	51	9	<	<	1	<	<	<	9	11	134	<	22	43	701	5	61	1	2	0.04	1.33	0.69	1.81	0.39	0.02	0.03	0.10
L 9900E	9300NP	<	16	13	60	10	<	<	1	<	<	<	9	12	146	<	26	58	252	8	45	1	3	0.05	1.61	0.50	2.33	0.53	0.04	0.03	0.08
L 9900E	9350NP	0.1	21	10	54	8	<	<	1	<	<	<	8	13	135	<	27	45	194	7	37	1	3	0.06	1.54	0.42	1.99	0.58	0.04	0.03	0.07
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS

iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 08, 1993 Page 21 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L 9900E	9400NP	0.2	28	12	44	9	<	<	<	<	<	<	8	12	120	<	22	43	286	10	33	<	3	0.05	1.37	0.31	1.90	0.42	0.04	0.03	0.06
L 9900E	9450NP	<	22	9	77	8	<	<	1	<	<	<	7	12	100	<	22	51	183	7	38	1	2	0.07	1.41	0.28	2.02	0.49	0.03	0.03	0.04
L 9900E	9500NP	0.5	58	15	78	13	<	<	2	<	<	<	10	16	159	<	32	55	246	11	43	1	4	0.06	2.13	0.36	2.53	0.66	0.04	0.03	0.07
L 9900E	9550NP	0.7	167	13	55	5	<	<	2	<	<	<	7	8	127	<	17	43	155	10	34	1	3	0.05	1.21	0.44	1.56	0.29	0.04	0.05	0.07
L 9900E	9600NP	0.6	159	26	132	9	<	<	3	<	<	0.5	7	11	145	<	22	34	456	10	66	1	3	0.04	1.60	0.77	1.79	0.45	0.06	0.04	0.07
L 9900E	9700NP	0.7	493	40	114	22	<	<	10	<	<	0.2	8	13	151	<	22	45	535	14	20	<	3	0.05	1.29	0.30	2.23	0.51	0.05	0.03	0.06
L 9900E	9750NP	0.6	118	22	62	8	<	<	16	<	2	<	7	9	136	<	15	65	205	6	12	<	2	0.09	1.10	0.13	2.24	0.25	0.03	0.03	0.03
L 9900E	9800NP	1.9	358	53	108	58	<	<	13	<	<	0.1	11	22	166	18	37	63	349	9	17	2	4	0.07	2.34	0.24	3.07	0.77	0.07	0.02	0.03
L 9900E	9850NP	0.7	81	9	36	<	<	<	3	<	2	0.1	6	8	63	<	13	55	127	3	10	1	1	0.07	0.83	0.11	1.85	0.21	0.03	0.03	0.04
L 9900E	9900NP	0.7	137	11	34	8	5	<	5	<	<	<	4	6	93	<	13	34	88	5	14	1	1	0.05	0.93	0.18	1.32	0.23	0.04	0.03	0.03
L 9900E	9950NP	0.6	257	25	51	43	<	<	17	<	<	<	6	11	80	27	22	59	183	6	10	1	2	0.08	1.40	0.12	2.20	0.47	0.04	0.02	0.03
L 9900E	10000NP	0.3	309	16	56	10	<	<	6	<	<	<	8	16	81	<	31	61	205	7	16	1	3	0.10	1.49	0.22	2.45	0.68	0.06	0.02	0.05
L 9900E	10050NP	0.3	751	21	63	11	<	<	10	<	<	<	9	20	76	<	51	58	244	9	15	2	3	0.11	1.82	0.28	2.56	0.84	0.07	0.02	0.08
L 9900E	10100NP	0.5	1314	20	68	11	<	<	6	<	<	0.1	10	20	101	<	31	58	280	14	19	1	4	0.10	1.46	0.35	2.61	0.72	0.08	0.03	0.09
L 9900E	10150NP	0.5	667	16	42	10	<	<	10	<	<	<	7	11	79	<	22	64	205	6	15	<	2	0.09	1.37	0.16	2.41	0.41	0.04	0.03	0.05
L 9900E	10200NP	1.4	653	16	63	81	<	<	9	<	<	<	9	15	138	<	31	69	259	8	17	1	3	0.08	2.20	0.17	2.88	0.51	0.08	0.02	0.07
L 9900E	10250NP	0.7	1072	33	55	49	<	<	15	<	<	<	9	15	150	<	27	65	274	9	15	1	3	0.08	1.80	0.14	2.84	0.55	0.07	0.02	0.05
L 9900E	10300NP	0.5	137	6	32	20	<	<	7	<	<	<	5	7	87	<	14	41	165	4	11	<	2	0.06	1.01	0.09	1.64	0.26	0.03	0.03	0.03
L 9900E	10350NP	0.2	10	2	12	<	<	<	1	<	<	<	1	2	43	<	3	11	22	<	7	<	<	0.02	0.29	0.05	0.43	0.04	0.02	0.04	0.03
L 9900E	10400NP	0.4	47	18	49	13	<	<	8	<	<	<	9	17	173	<	29	57	202	11	17	1	3	0.08	1.76	0.21	2.53	0.59	0.07	0.02	0.05
L 9900E	10450NP	0.1	15	<	19	<	<	<	2	<	<	0.1	4	5	98	<	8	30	82	5	10	<	1	0.04	0.62	0.08	1.04	0.11	0.03	0.04	0.03
L 9900E	10500NP	0.2	26	12	42	14	<	<	4	<	<	<	11	20	133	<	27	59	196	6	12	4	3	0.08	2.04	0.12	2.79	0.49	0.04	0.02	0.02
L 9900E	10550NP	0.1	14	6	36	<	<	<	1	<	<	<	7	13	108	<	20	49	173	5	15	<	2	0.07	1.36	0.15	2.00	0.38	0.05	0.03	0.03
L 9900E	10600NP	<	39	15	44	13	<	<	2	<	<	<	8	15	135	<	28	53	170	11	17	<	3	0.06	2.03	0.19	2.44	0.53	0.06	0.02	0.06
L 9900E	10650NP	0.2	51	17	53	9	<	<	3	<	<	<	9	20	131	<	30	57	186	11	24	1	4	0.08	2.22	0.25	2.97	0.61	0.07	0.03	0.08
L 9900E	10700NP	<	6	<	14	<	<	<	1	<	<	<	2	3	29	<	5	18	41	<	9	<	<	0.03	0.41	0.07	0.66	0.08	0.01	0.04	0.03
L 9900E	10750NP	0.1	37	14	50	6	<	<	2	<	<	<	7	15	105	<	26	53	174	8	19	<	2	0.06	1.84	0.19	2.52	0.49	0.05	0.03	0.05
L 9900E	10800NP	0.1	29	2	16	<	<	<	1	<	<	<	3	3	50	<	6	16	66	2	11	<	<	0.03	0.53	0.08	0.64	0.09	0.03	0.04	0.03
L 9900E	10850NP	<	34	10	52	7	<	<	2	<	<	<	7	14	111	<	29	54	186	7	24	1	1	0.07	1.48	0.25	2.30	0.56	0.07	0.03	0.06
L 9900E	10900NP	<	15	8	41	6	<	<	2	<	<	<	7	13	89	<	27	54	174	5	17	1	2	0.08	1.65	0.20	2.38	0.56	0.06	0.03	0.05
L 9900E	10950NP	<	12	11	46	<	<	<	2	<	<	<	7	11	89	<	26	61	191	7	16	1	2	0.10	1.42	0.18	2.29	0.50	0.06	0.02	0.04
L 9900E	11000NP	<	5	<	26	<	<	<	<	<	<	0.1	4	3	31	<	6	47	64	<	10	1	<	0.06	0.24	0.08	1.32	0.08	0.02	0.04	0.02
L10000E	9000NP	<	14	19	51	5	<	<	1	<	<	0.2	8	7	105	<	18	42	217	5	23	<	1	0.04	1.06	0.20	1.77	0.32	0.03	0.03	0.05
L10000E	9050NP	0.1	38	9	34	5	<	<	1	<	<	<	5	6	63	<	18	37	202	6	32	<	1	0.02	0.88	0.29	1.54	0.46	0.02	0.04	0.06
L10000E	9100NP	0.4	36	25	233	40	5	<	1	<	<	0.3	11	16	254	<	34	61	641	14	54	1	6	0.03	1.84	0.61	3.11	0.85	0.05	0.02	0.14
L10000E	9150NP	0.2	17	18	65	8	<	<	1	<	<	<	8	11	207	<	24	41	313	8	76	1	3	0.03	1.48	0.70	2.32	0.45	0.03	0.03	0.09
L10000E	9200NP	<	15	7	26	<	<	<	1	<	<	<	5	7	95	<	14	28	77	5	29	1	1	0.07	1.04	0.31	1.07	0.25	0.03	0.03	0.08
L10000E	9350NP	0.1	22	<	23	<	<	<	<	<	<	0.1	4	5	93	<	8	26	89	4	34	1	1	0.04	1.01	0.26	1.14	0.08	0.02	0.04	0.05
L10000E	9400NP	0.2	29	10	43	6	<	<	1	<	<	<	9	15	167	<	29	49	215	9	39	1	3	0.05	1.84	0.41	2.12	0.53	0.04	0.03	0.07
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 08, 1993 Page 22 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L10000E	9450NP	0.4	50	24	69	9	<	<	1	<	3	0.1	8	10	112	<	19	60	236	6	38	<	2	0.05	1.59	0.29	2.58	0.36	0.04	0.03	0.07
L10000E	9500NP	0.1	39	13	51	8	<	<	2	<	<	0.1	7	9	84	<	18	61	209	6	24	1	2	0.07	1.21	0.19	2.12	0.33	0.05	0.02	0.04
L10000E	9550NP	0.4	175	9	52	6	<	<	1	<	<	<	4	7	105	<	13	24	117	5	49	<	1	0.03	1.29	0.35	1.20	0.27	0.04	0.04	0.04
L10000E	9600NP	0.4	92	24	93	10	<	<	2	<	<	<	8	13	173	<	29	47	253	9	54	1	3	0.06	2.12	0.57	2.26	0.57	0.06	0.03	0.07
L10000E	9650NP	0.1	44	15	66	8	<	<	2	<	<	<	6	11	99	<	22	49	206	7	32	<	2	0.07	1.42	0.33	1.99	0.52	0.05	0.02	0.03
L10000E	9700NP	0.3	56	14	60	6	<	<	2	<	<	<	5	9	109	<	18	33	149	9	31	1	2	0.04	1.30	0.30	1.54	0.36	0.06	0.03	0.04
L10000E	9750NP	0.6	176	41	127	13	<	<	6	<	<	0.1	5	9	187	<	16	38	245	10	27	<	2	0.03	1.06	0.32	1.90	0.26	0.06	0.03	0.06
L10000E	9800NP	2.9	336	164	351	24	<	<	17	<	4	0.8	7	14	396	12	22	38	560	16	28	<	2	0.03	1.50	0.62	2.32	0.36	0.12	0.03	0.05
L10000E	9850NP	4.3	549	220	284	45	6	<	31	<	7	1.5	12	15	299	16	29	56	1276	17	17	1	3	0.06	1.79	0.21	2.94	0.51	0.09	0.02	0.04
L10000E	9900NP	2.1	779	59	117	55	<	<	16	<	<	0.3	11	15	190	<	32	66	446	17	28	<	3	0.08	1.87	0.23	2.80	0.64	0.07	0.02	0.04
L10000E	9950NP	0.9	2209	129	224	71	6	<	24	<	<	0.7	17	22	131	9	43	72	941	15	22	2	5	0.13	1.67	0.38	3.25	1.14	0.14	0.03	0.10
L10000E	10000NP	11.6	7714	592	788	1601	104	<	452	<	14	10.9	17	21	278	27	35	46	1185	44	41	2	7	0.06	1.42	0.43	5.63	0.91	0.20	0.03	0.14
L10000E	10050NP	0.5	558	28	66	15	<	<	9	<	<	<	12	32	86	<	90	77	268	8	14	3	4	0.14	2.63	0.16	3.22	1.04	0.09	0.02	0.03
L10000E	10100NP	0.5	276	19	55	12	<	<	5	<	3	<	12	23	133	<	34	66	227	8	17	3	3	0.10	2.58	0.17	2.99	0.68	0.07	0.02	0.03
L10000E	10150NP	0.2	83	5	13	<	<	<	1	<	<	<	3	1	14	<	4	32	46	2	9	1	<	0.05	0.44	0.09	0.98	0.06	0.03	0.04	0.04
L10000E	10200NP	0.1	262	24	64	15	<	<	6	<	<	<	12	17	134	<	37	66	308	13	27	1	5	0.10	2.17	0.33	2.85	0.83	0.14	0.02	0.10
L10000E	10250NP	0.3	56	2	20	<	<	<	2	<	<	0.1	4	3	35	<	6	40	56	2	14	1	<	0.03	0.40	0.09	1.22	0.07	0.03	0.03	0.04
L10000E	10300NP	0.2	63	3	17	5	<	<	2	<	<	0.1	3	3	49	<	7	25	40	4	12	<	<	0.02	0.59	0.09	0.90	0.12	0.04	0.03	0.04
L10000E	10350NP	0.8	311	41	63	95	<	<	13	<	<	<	13	16	147	<	34	90	373	10	32	1	4	0.09	2.63	0.19	3.80	0.71	0.10	0.02	0.05
L10000E	10400NP	0.2	34	6	19	19	<	<	2	<	<	<	3	4	62	<	11	27	61	4	14	<	<	0.02	0.76	0.09	1.07	0.21	0.04	0.03	0.04
L10000E	10450NP	0.3	146	23	55	133	<	<	15	<	<	<	6	7	199	<	13	48	251	13	34	<	2	0.03	1.30	0.12	2.42	0.29	0.16	0.03	0.07
L10000E	10500NP	0.2	192	30	48	13	<	<	7	<	<	<	8	11	214	<	39	73	200	15	44	1	6	0.13	1.94	0.32	2.79	1.13	0.29	0.03	0.08
L10000E	10550NP	0.2	186	27	57	13	<	<	8	<	<	<	10	15	245	<	69	101	231	19	67	1	9	0.18	2.86	0.21	4.28	1.85	0.53	0.05	0.08
L10000E	10600NP	<	52	18	61	15	<	<	5	<	<	<	13	19	110	<	34	71	350	9	21	1	4	0.10	2.00	0.18	3.58	0.73	0.09	0.02	0.05
L10000E	10650NP	0.1	35	17	52	12	<	<	4	<	<	<	8	14	111	<	32	71	206	9	19	1	3	0.08	2.08	0.20	3.17	0.59	0.06	0.02	0.05
L10000E	10700NP	0.1	29	14	53	9	<	<	2	<	<	<	10	20	143	<	31	55	278	9	22	1	4	0.08	1.99	0.30	2.63	0.67	0.09	0.02	0.08
L10000E	10750NP	0.1	25	14	50	8	<	<	2	<	<	<	8	13	105	<	25	50	215	7	19	<	2	0.06	1.61	0.22	2.28	0.50	0.08	0.03	0.05
L10000E	10800NP	0.1	21	12	51	9	<	<	2	<	<	<	9	16	128	<	31	59	253	10	18	<	3	0.08	1.94	0.24	2.57	0.61	0.08	0.02	0.05
L10000E	10850NP	<	21	12	51	7	<	<	2	<	<	<	10	15	111	<	32	58	252	9	23	1	3	0.09	1.69	0.31	2.42	0.65	0.08	0.02	0.07
L10000E	10900NP	<	18	11	53	8	<	<	2	<	<	<	9	15	123	<	31	59	240	9	22	<	3	0.08	1.74	0.28	2.48	0.65	0.08	0.02	0.06
L10000E	10950NP	<	17	15	54	5	<	<	3	<	<	<	10	14	128	<	34	67	293	10	21	1	3	0.10	1.76	0.28	2.68	0.75	0.14	0.02	0.07
L10000E	11000NP	<	24	13	63	6	<	<	2	<	<	<	11	19	179	<	38	72	324	12	30	<	5	0.11	2.12	0.40	3.12	0.83	0.13	0.02	0.08
L10100E	9000NP	<	12	11	36	<	<	<	2	<	<	<	8	14	75	<	27	49	194	8	17	1	3	0.07	2.02	0.26	2.27	0.58	0.05	0.02	0.07
L10100E	9050NP	0.1	4	<	10	<	<	<	<	<	<	<	2	<	26	<	2	22	45	<	9	<	<	0.03	0.26	0.08	0.68	0.04	0.03	0.05	0.03
L10100E	9100NP	0.2	12	16	35	5	<	<	1	<	<	<	6	8	140	<	19	46	184	6	44	<	2	0.04	1.40	0.43	2.34	0.34	0.03	0.03	0.10
L10100E	9150NP	<	7	4	16	<	<	<	1	<	<	<	4	2	45	<	7	27	92	2	11	<	1	0.03	0.64	0.12	0.95	0.10	0.03	0.04	0.04
L10100E	9200NP	<	11	11	29	6	<	<	1	<	<	<	5	7	113	<	16	29	143	5	53	1	2	0.04	1.22	0.58	1.30	0.32	0.04	0.04	0.07
L10100E	9250NP	0.1	42	13	29	<	<	<	1	<	<	0.1	4	7	124	<	17	27	166	5	60	1	2	0.04	1.28	0.65	1.30	0.33	0.04	0.03	0.07
L10100E	9300NP	0.2	29	10	30	11	<	<	1	<	<	<	12	12	223	<	19	40	1489	8	99	1	2	0.03	1.38	1.07	2.31	0.36	0.04	0.04	0.09
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS

iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 08, 1993 Page 23 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L10100E	9350NE	<	15	3	20	<	<	<	<	<	<	0.2	4	5	70	<	9	33	126	4	40	<	1	0.04	0.59	0.51	1.15	0.18	0.03	0.04	0.06
L10100E	9400NE	<	15	8	30	6	<	<	1	<	<	0.1	7	10	117	<	20	44	292	7	31	<	2	0.06	1.22	0.33	1.72	0.40	0.04	0.03	0.07
L10100E	9450NE	<	8	3	15	<	<	<	1	<	<	<	4	4	64	<	10	25	224	2	20	<	1	0.03	0.74	0.18	0.97	0.17	0.02	0.04	0.05
L10100E	9500NE	0.1	22	8	29	<	<	<	1	<	<	<	6	7	85	<	16	41	134	5	31	<	1	0.05	1.05	0.24	1.62	0.27	0.04	0.03	0.07
L10100E	9550NE	0.5	54	8	30	<	<	<	1	<	<	0.1	6	8	117	<	13	30	171	6	37	<	1	0.03	1.08	0.32	1.31	0.25	0.05	0.03	0.05
L10100E	9600NE	0.1	259	31	91	11	<	<	2	<	<	0.2	6	9	89	<	20	36	248	7	69	1	2	0.06	1.28	0.44	1.70	0.50	0.06	0.02	0.06
L10100E	9650NE	0.5	127	12	47	<	<	<	1	<	<	0.1	4	7	118	<	15	32	86	6	54	2	2	0.04	1.41	0.55	1.35	0.26	0.04	0.04	0.07
L10100E	9700NE	0.4	24	3	39	<	<	<	1	<	<	<	8	4	45	<	7	84	158	2	29	1	1	0.11	0.42	0.32	2.36	0.11	0.03	0.04	0.06
L10100E	9750NE	0.1	14	2	10	<	<	<	1	<	<	0.1	2	<	28	<	2	17	26	2	15	<	<	0.03	0.20	0.12	0.53	0.05	0.04	0.04	0.02
L10100E	9800NE	0.1	29	<	6	<	<	<	1	<	<	<	1	1	36	<	2	10	21	<	18	<	<	0.02	0.22	0.16	0.39	0.04	0.03	0.05	0.02
L10100E	9850NE	0.5	468	42	91	19	<	<	30	<	<	0.5	5	6	117	6	14	35	133	9	19	<	1	0.02	0.99	0.15	1.64	0.26	0.07	0.03	0.04
L10100E	9900NE	1.0	812	45	107	26	<	<	17	<	<	0.2	13	14	209	<	27	63	364	13	29	<	3	0.05	1.69	0.24	2.75	0.63	0.07	0.02	0.05
L10100E	9950NE	1.1	436	23	59	13	<	<	6	<	<	<	12	19	130	<	28	89	228	8	22	1	3	0.11	2.07	0.18	3.26	0.53	0.05	0.02	0.03
L10100E	10000NE	0.6	289	25	48	11	<	<	5	<	<	<	21	16	101	<	24	59	423	7	18	1	2	0.08	1.82	0.16	2.56	0.46	0.06	0.02	0.03
L10100E	10050NE	0.4	56	19	59	9	<	<	7	<	<	<	11	17	140	<	35	77	231	8	20	1	4	0.10	2.33	0.18	3.24	0.61	0.07	0.02	0.04
L10100E	10100NE	0.2	432	22	65	14	<	<	25	<	<	0.1	17	23	185	<	59	92	322	15	30	2	7	0.21	2.20	0.41	3.23	1.44	0.25	0.03	0.09
L10100E	10150NE	0.1	292	37	62	13	<	<	23	<	<	<	15	18	132	<	57	93	282	12	22	1	7	0.20	2.34	0.39	3.23	1.59	0.24	0.02	0.12
L10100E	10200NE	0.1	224	21	46	12	<	<	4	<	<	0.1	8	14	119	<	41	59	158	9	24	<	1	0.04	2.20	0.19	2.61	0.53	0.07	0.02	0.10
L10100E	10250NE	0.1	510	29	105	12	<	<	9	<	<	<	26	28	223	<	86	139	375	10	27	2	12	0.33	4.39	0.46	4.71	2.41	0.34	0.02	0.14
L10100E	10300NE	<	366	14	49	11	<	<	4	<	<	<	9	16	97	<	42	90	182	10	28	<	5	0.14	2.11	0.26	2.86	1.13	0.11	0.02	0.05
L10100E	10350NE	<	117	12	51	13	<	<	3	<	<	<	11	16	98	<	38	79	276	10	22	1	4	0.13	1.99	0.18	3.33	0.89	0.10	0.02	0.05
L10100E	10400NE	<	76	15	50	10	<	<	4	<	<	<	9	18	118	<	35	70	210	10	24	1	3	0.09	2.34	0.21	3.00	0.70	0.09	0.02	0.06
L10100E	10450NE	<	55	11	42	8	<	<	4	<	<	<	8	13	107	<	32	62	216	10	22	1	3	0.08	2.03	0.20	2.65	0.65	0.10	0.02	0.07
L10100E	10500NE	0.1	179	17	36	10	<	<	4	<	<	<	8	10	202	<	58	90	184	13	77	1	8	0.17	2.67	0.29	3.23	1.45	0.42	0.04	0.07
L10100E	10550NE	<	129	22	38	14	<	<	5	<	<	<	7	10	189	<	55	82	154	17	105	1	7	0.13	2.99	0.27	3.42	1.27	0.26	0.05	0.07
L10100E	10600NE	0.3	78	31	72	14	<	<	12	<	<	<	12	23	284	<	43	83	397	11	36	<	4	0.07	3.17	0.26	4.19	0.82	0.12	0.02	0.07
L10100E	10650NE	<	49	20	43	12	<	<	13	<	<	<	9	12	138	<	26	52	224	13	29	<	2	0.07	1.53	0.24	2.85	0.54	0.08	0.03	0.07
L10100E	10700NE	<	30	87	47	7	<	<	3	<	<	<	8	15	149	<	28	61	224	10	26	<	3	0.08	1.64	0.28	2.51	0.57	0.08	0.03	0.06
L10100E	10750NE	<	26	17	50	11	<	<	1	<	<	<	10	19	135	<	33	67	253	10	24	1	3	0.10	1.93	0.32	2.89	0.70	0.09	0.02	0.08
L10100E	10800NE	0.3	45	45	51	9	<	<	10	<	4	<	9	17	133	<	32	66	237	14	26	<	3	0.09	2.02	0.29	2.89	0.66	0.07	0.02	0.06
L10100E	10850NE	0.4	55	44	68	14	<	<	9	<	<	<	10	14	89	<	35	70	311	9	31	1	3	0.10	1.78	0.26	3.44	0.67	0.07	0.03	0.08
L10100E	10900NE	0.2	25	32	40	7	<	<	2	<	<	<	7	10	110	<	25	62	156	10	23	1	3	0.08	1.89	0.20	2.58	0.44	0.07	0.02	0.04
L10100E	10950NE	0.3	39	17	49	12	<	<	2	<	<	<	12	17	157	<	34	71	489	9	32	<	2	0.06	2.38	0.27	3.25	0.60	0.08	0.03	0.10
L10100E	11000NE	<	19	14	50	6	<	<	1	<	<	<	13	18	124	<	35	65	322	10	21	2	4	0.11	2.10	0.31	2.90	0.76	0.12	0.02	0.07
L10200E	9000NE	<	16	20	41	<	<	<	1	<	<	<	5	9	166	<	18	41	117	6	24	<	2	0.04	1.47	0.24	1.68	0.35	0.05	0.03	0.05
L10200E	9050NE	<	3	<	9	<	<	<	<	<	<	<	2	1	20	<	2	25	34	<	12	1	<	0.04	0.21	0.11	0.71	0.04	0.03	0.05	0.03
L10200E	9100NE	<	10	10	38	5	<	<	1	<	<	<	6	8	103	<	20	52	129	6	32	<	2	0.07	1.41	0.40	1.93	0.35	0.05	0.03	0.07
L10200E	9150NE	<	11	14	51	12	<	<	1	<	<	<	8	12	145	<	29	58	225	11	33	1	3	0.08	1.71	0.46	2.49	0.56	0.05	0.02	0.08
L10200E	9200NE	0.4	26	33	74	44	<	<	2	<	2	<	29	13	298	<	24	67	3148	13	87	1	3	0.03	1.70	0.87	4.56	0.41	0.05	0.03	0.11
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 08, 1993 Page 24 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L10200E	9250NP	0.1	16	25	54	7	<	<	<	<	<	<	5	8	135	<	22	34	129	8	44	1	3	0.05	1.49	0.55	1.52	0.44	0.04	0.03	0.08
L10200E	9300NP	0.1	19	28	34	7	<	<	<	<	<	<	6	9	144	<	21	37	131	8	47	1	2	0.05	1.48	0.56	1.60	0.41	0.04	0.03	0.08
L10200E	9350NP	0.2	9	2	44	5	<	<	1	<	<	<	5	4	56	<	8	45	102	6	32	<	1	0.06	0.74	0.41	1.38	0.11	0.03	0.04	0.07
L10200E	9400NP	<	5	7	25	<	<	<	1	<	2	<	5	4	44	<	7	47	69	2	11	<	1	0.06	0.49	0.08	1.41	0.11	0.03	0.03	0.02
L10200E	9450NP	<	22	7	34	<	<	<	1	<	2	<	6	12	108	<	22	37	122	7	29	<	2	0.06	1.38	0.25	1.64	0.45	0.04	0.03	0.05
L10200E	9500NP	<	11	2	10	<	<	<	1	<	<	<	2	2	40	<	5	15	45	2	19	<	<	0.02	0.46	0.13	0.60	0.08	0.03	0.04	0.03
L10200E	9550NP	0.3	62	21	60	<	<	<	<	<	<	<	8	13	121	<	24	46	204	8	30	<	3	0.06	1.55	0.31	1.93	0.51	0.06	0.03	0.05
L10200E	9600NP	0.4	17	10	38	<	<	<	1	<	<	<	9	4	48	<	9	92	186	3	28	1	1	0.12	0.53	0.29	2.63	0.11	0.04	0.05	0.06
L10200E	9650NP	0.3	65	19	66	7	<	<	1	<	<	0.1	7	9	132	<	16	29	398	5	85	3	2	0.03	1.47	0.90	1.47	0.32	0.06	0.04	0.06
L10200E	9700NP	1.0	502	19	90	12	<	<	2	<	<	0.1	7	10	129	<	17	39	320	12	96	2	2	0.04	1.32	1.04	1.77	0.35	0.05	0.04	0.07
L10200E	9750NP	0.5	143	18	46	6	<	<	1	<	<	<	6	7	181	<	14	31	420	10	77	1	1	0.03	1.23	0.62	1.42	0.25	0.06	0.03	0.06
L10200E	9800NP	1.2	241	26	106	13	<	<	3	<	<	0.4	8	11	145	<	22	64	247	16	66	1	3	0.06	1.33	0.74	2.55	0.48	0.05	0.03	0.07
L10200E	9850NP	0.3	481	41	103	37	<	<	4	<	<	0.3	11	14	95	<	30	58	357	10	23	<	3	0.06	1.55	0.33	2.76	0.66	0.06	0.02	0.08
L10200E	9900NP	1.1	542	49	110	12	<	<	3	<	<	0.2	6	9	205	5	19	37	252	14	48	1	2	0.03	1.57	0.47	1.78	0.43	0.05	0.03	0.08
L10200E	9950NP	0.4	159	12	46	5	<	<	3	<	<	0.2	7	7	67	<	13	56	195	3	12	<	1	0.07	0.80	0.11	1.89	0.21	0.03	0.03	0.03
L10200E	10000NP	0.5	89	9	45	<	<	<	3	<	<	<	9	8	57	<	17	91	194	5	22	<	1	0.10	0.98	0.19	2.88	0.34	0.04	0.04	0.08
L10200E	10050NP	1.9	284	27	64	13	<	<	9	<	<	<	10	18	176	<	31	75	239	10	24	1	3	0.08	2.54	0.19	3.38	0.56	0.08	0.02	0.05
L10200E	10100NP	1.7	153	28	53	14	<	<	12	<	<	<	9	16	96	<	34	70	229	11	16	2	3	0.09	2.57	0.14	3.21	0.55	0.07	0.02	0.06
L10200E	10150NP	1.1	549	40	61	18	<	<	10	<	<	<	12	21	156	<	43	76	292	12	19	5	5	0.09	3.26	0.17	3.48	0.72	0.08	0.02	0.04
L10200E	10200NP	0.5	326	21	52	9	<	<	5	<	<	<	10	19	119	<	32	60	242	12	17	2	4	0.08	2.29	0.19	2.73	0.68	0.07	0.02	0.04
L10200E	10250NP	0.4	160	15	47	8	<	<	3	<	<	<	9	16	119	<	36	65	206	10	15	1	4	0.11	2.18	0.20	2.67	0.81	0.10	0.02	0.06
L10200E	10300NP	0.5	55	10	26	<	<	<	3	<	<	0.1	4	5	76	<	10	36	88	5	17	<	<	0.03	0.99	0.10	1.31	0.20	0.04	0.03	0.04
L10200E	10350NP	0.4	109	20	32	<	<	<	3	<	<	<	5	6	93	<	20	52	107	10	45	1	2	0.07	1.55	0.10	1.81	0.41	0.09	0.04	0.05
L10200E	10400NP	0.4	144	27	73	11	<	<	5	<	<	<	12	19	174	<	47	95	218	13	49	3	5	0.11	3.73	0.15	4.13	1.02	0.13	0.03	0.05
L10200E	10450NP	0.2	97	27	65	25	<	<	6	<	<	<	14	11	177	<	26	73	463	15	67	1	3	0.06	1.73	0.15	4.14	0.46	0.13	0.05	0.10
L10200E	10500NP	<	103	42	56	14	<	<	4	<	<	<	10	14	184	<	58	91	197	14	71	1	7	0.14	2.53	0.27	3.93	1.47	0.27	0.04	0.09
L10200E	10550NP	<	62	21	55	13	<	<	4	<	<	<	10	19	143	<	35	67	255	11	28	1	3	0.08	1.95	0.25	2.92	0.75	0.10	0.02	0.06
L10200E	10600NP	<	5	<	12	<	<	<	1	<	<	<	2	1	27	<	4	25	36	<	11	<	<	0.03	0.30	0.09	0.78	0.06	0.02	0.04	0.03
L10200E	10650NP	<	60	21	56	13	<	<	6	<	<	<	12	19	126	<	44	77	264	13	29	2	4	0.12	2.02	0.34	3.36	0.90	0.11	0.03	0.09
L10200E	10700NP	0.2	40	18	50	11	<	<	3	<	<	<	10	18	145	<	38	75	234	11	24	1	4	0.10	2.07	0.26	3.00	0.75	0.10	0.02	0.07
L10200E	10750NP	<	27	16	50	12	<	<	2	<	<	<	12	22	121	<	33	59	241	10	20	1	4	0.08	2.36	0.24	3.05	0.71	0.09	0.02	0.06
L10200E	10800NP	<	25	16	50	9	<	<	2	<	<	<	11	18	116	<	32	61	256	9	22	1	4	0.09	2.11	0.25	2.87	0.67	0.07	0.02	0.06
L10200E	10850NP	0.3	18	25	49	16	<	<	2	<	<	<	9	19	116	<	33	80	210	8	20	1	3	0.10	1.95	0.17	3.42	0.64	0.07	0.02	0.04
L10200E	10900NP	<	20	14	52	13	<	<	2	<	<	<	12	20	136	<	35	65	260	10	24	2	3	0.10	2.21	0.24	3.23	0.72	0.09	0.02	0.04
L10200E	10950NP	<	22	14	55	12	<	<	3	<	<	<	11	18	101	<	33	71	273	11	21	2	4	0.11	1.81	0.20	3.21	0.75	0.09	0.02	0.03
L10200E	11000NP	<	17	17	57	12	<	<	2	<	<	<	11	20	127	<	39	74	290	7	32	1	3	0.10	2.71	0.28	3.53	0.67	0.07	0.02	0.06
L10300E	9000NP	0.2	16	22	62	<	<	<	1	<	<	<	9	15	172	<	27	51	274	7	44	1	3	0.06	1.81	0.45	2.36	0.53	0.07	0.03	0.06
L10300E	9050NP	0.2	11	11	40	<	<	<	1	<	<	0.1	5	7	120	<	16	34	206	4	34	1	2	0.04	1.40	0.35	1.54	0.23	0.05	0.04	0.07
L10300E	9100NP	<	10	15	49	<	<	<	1	<	<	<	6	9	101	<	21	57	125	6	31	1	2	0.07	1.40	0.38	2.14	0.37	0.05	0.03	0.07
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS

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Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 08, 1993 Page 25 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L10300E	9150NP	<	5	3	22	<	<	<	<	<	<	0.2	3	3	37	<	7	30	50	<	13	<	1	0.04	0.55	0.12	1.01	0.09	0.04	0.04	0.02
L10300E	9200NP	<	6	7	16	<	<	<	1	<	<	0.2	2	3	65	<	7	17	45	3	25	1	1	0.03	0.60	0.25	0.69	0.12	0.04	0.04	0.04
L10300E	9250NP	<	7	13	47	7	<	<	1	<	<	0.1	7	6	66	<	15	65	185	8	22	1	2	0.09	0.71	0.36	2.11	0.28	0.02	0.02	0.08
L10300E	9300NP	0.2	21	24	73	14	<	<	1	<	<	0.1	6	10	189	<	21	41	211	11	60	1	3	0.03	1.49	0.66	2.02	0.42	0.04	0.03	0.07
L10300E	9350NP	<	12	18	61	15	<	<	1	<	<	0.1	6	8	89	<	21	39	278	9	26	1	3	0.06	0.97	0.39	1.73	0.48	0.06	0.02	0.07
L10300E	9400NP	<	14	12	37	7	<	<	1	<	<	0.2	7	13	93	<	22	45	195	8	23	<	2	0.07	1.24	0.29	1.85	0.48	0.05	0.03	0.05
L10300E	9450NP	0.2	15	10	25	6	<	<	1	<	<	<	8	7	79	<	13	43	256	5	18	<	1	0.05	0.96	0.15	1.61	0.20	0.04	0.04	0.04
L10300E	9500NP	<	17	21	47	13	<	<	1	<	<	<	9	13	93	<	25	64	251	8	31	<	3	0.08	1.65	0.23	2.51	0.51	0.07	0.03	0.05
L10300E	9550NP	<	20	16	41	29	<	<	1	<	<	<	7	10	62	<	23	61	140	6	32	1	2	0.10	1.40	0.18	2.42	0.33	0.04	0.03	0.02
L10300E	9600NP	0.1	105	51	87	20	<	<	1	<	<	0.2	9	15	109	<	27	61	262	8	18	1	3	0.07	1.82	0.21	2.69	0.55	0.07	0.02	0.04
L10300E	9650NP	0.4	69	25	57	9	<	<	2	<	<	<	11	12	144	<	19	69	279	9	51	1	2	0.08	1.58	0.46	2.56	0.36	0.06	0.04	0.07
L10300E	9700NP	0.4	74	13	50	5	<	<	1	<	<	0.1	6	9	134	<	16	34	285	6	94	1	1	0.03	1.26	0.95	1.63	0.35	0.04	0.03	0.07
L10300E	9750NP	0.3	15	9	42	<	<	<	1	<	<	0.1	6	5	75	<	10	45	185	3	41	1	1	0.05	0.67	0.39	1.53	0.19	0.03	0.04	0.05
L10300E	9800NP	0.8	67	27	97	8	<	<	2	<	<	0.3	7	10	174	<	19	52	261	10	50	1	2	0.05	1.28	0.54	2.30	0.44	0.04	0.03	0.07
L10300E	9850NP	0.7	127	25	101	11	<	<	2	<	<	0.5	7	11	133	<	21	58	174	8	50	1	3	0.07	1.52	0.45	2.30	0.46	0.06	0.03	0.04
L10300E	9900NP	0.4	37	9	54	<	<	<	<	<	<	0.3	4	6	111	<	12	31	97	4	41	<	1	0.04	0.99	0.38	1.24	0.26	0.04	0.04	0.04
L10300E	9950NP	1.7	633	33	81	12	<	<	2	<	<	0.3	5	9	146	<	16	33	112	11	29	1	3	0.03	1.80	0.29	1.74	0.31	0.07	0.04	0.07
L10300E	10000NP	0.5	118	19	83	11	<	<	2	<	<	<	16	17	162	<	38	91	470	9	19	2	3	0.11	2.34	0.17	3.72	0.60	0.07	0.02	0.04
L10300E	10050NP	0.1	33	2	13	<	<	<	1	<	2	0.1	3	1	30	<	3	29	55	<	12	<	<	0.04	0.41	0.08	0.91	0.04	0.02	0.04	0.03
L10300E	10100NP	0.1	54	14	30	8	<	<	2	<	<	0.1	6	8	84	<	21	48	106	6	21	1	2	0.07	1.21	0.16	1.85	0.42	0.06	0.04	0.04
L10300E	10150NP	0.8	315	84	83	26	<	<	12	<	<	<	11	13	115	<	52	104	204	10	42	1	6	0.14	2.99	0.18	4.23	1.22	0.10	0.02	0.10
L10300E	10200NP	<	26	7	17	<	<	<	1	<	<	<	3	3	35	<	8	33	53	2	14	<	<	0.04	0.59	0.07	1.16	0.10	0.03	0.04	0.03
L10300E	10250NP	0.1	58	25	33	8	<	<	2	<	<	0.2	5	5	69	<	15	35	98	5	25	<	1	0.03	1.20	0.11	1.64	0.29	0.07	0.04	0.05
L10300E	10300NP	<	72	11	26	<	<	<	1	<	<	<	4	5	77	<	16	45	88	6	45	<	1	0.04	1.37	0.13	1.98	0.41	0.11	0.05	0.06
L10300E	10350NP	0.2	65	23	40	7	<	<	2	<	<	<	8	11	129	<	33	67	151	12	62	<	2	0.05	2.05	0.18	3.09	0.76	0.15	0.04	0.08
L10300E	10400NP	0.1	103	33	60	13	<	<	7	<	<	<	11	11	171	<	35	126	222	19	97	<	6	0.10	2.75	0.13	6.41	1.41	0.33	0.08	0.14
L10300E	10450NP	0.2	30	14	31	<	<	<	2	<	<	<	5	5	99	<	15	28	123	5	28	<	1	0.03	1.31	0.16	1.42	0.24	0.05	0.04	0.05
L10300E	10500NP	<	8	3	31	<	<	<	1	<	<	<	8	4	28	<	7	87	105	3	14	<	<	0.10	0.41	0.17	2.46	0.08	0.03	0.04	0.07
L10300E	10550NP	<	4	<	11	<	<	<	1	<	<	<	2	1	24	<	3	24	37	<	10	<	<	0.03	0.30	0.09	0.75	0.04	0.02	0.04	0.04
L10300E	10600NP	<	42	17	55	17	<	<	5	<	<	<	12	21	188	<	35	61	333	12	22	1	4	0.09	2.19	0.24	2.94	0.73	0.10	0.02	0.06
L10300E	10650NP	<	48	16	44	7	<	<	3	<	<	<	9	20	161	<	27	47	198	11	19	2	4	0.08	1.84	0.25	2.33	0.64	0.09	0.02	0.07
L10300E	10700NP	0.2	11	<	16	<	<	<	1	<	3	<	3	1	40	<	5	32	46	3	11	<	<	0.03	0.41	0.10	1.05	0.06	0.04	0.04	0.04
L10300E	10750NP	<	19	15	42	10	<	<	2	<	<	<	8	14	106	<	30	67	198	7	18	1	3	0.09	1.91	0.16	2.85	0.54	0.05	0.02	0.04
L10300E	10800NP	<	11	2	15	<	<	<	1	<	<	0.1	4	3	55	<	8	32	85	3	13	<	1	0.04	0.72	0.12	1.14	0.12	0.03	0.04	0.04
L10300E	10850NP	<	26	15	46	10	<	<	1	<	<	<	12	21	121	<	33	61	240	10	19	1	3	0.09	2.23	0.19	2.91	0.68	0.07	0.02	0.03
L10300E	10900NP	<	22	17	49	13	<	<	2	<	<	<	11	19	138	<	34	67	337	10	20	1	3	0.09	2.29	0.20	3.01	0.64	0.07	0.02	0.05
L10300E	10950NP	<	22	16	46	11	<	<	2	<	<	<	10	16	117	<	34	69	269	10	22	1	3	0.09	1.86	0.24	3.16	0.63	0.07	0.02	0.05
L10300E	11000NP	<	16	14	50	11	<	<	1	<	<	<	12	17	116	<	35	69	350	8	17	1	3	0.11	2.19	0.22	3.13	0.65	0.09	0.02	0.06
L10400E	9000NP	0.1	15	18	46	<	<	<	1	<	<	<	7	10	158	<	24	51	213	6	40	1	2	0.05	1.67	0.39	1.98	0.34	0.06	0.03	0.08
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 08, 1993   Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L10400E	9050NP	<	6	3	21	<	<	<	1	<	2	0.1	5	3	52	<	7	38	142	3	17	<	1	0.05	0.57	0.18	1.25	0.08	0.04	0.04	0.05
L10400E	9100NP	0.4	15	18	50	<	<	<	1	<	<	0.1	5	9	181	<	19	30	204	5	56	1	2	0.03	1.68	0.52	1.60	0.27	0.06	0.04	0.07
L10400E	9150NP	0.1	10	18	63	<	<	<	1	<	<	0.2	8	10	159	<	24	42	351	6	47	1	3	0.05	1.63	0.52	1.82	0.44	0.07	0.03	0.07
L10400E	9200NP	<	8	17	53	6	<	<	1	<	<	<	9	13	120	<	26	47	290	9	29	1	3	0.09	1.29	0.43	1.94	0.62	0.05	0.02	0.07
L10400E	9250NP	0.1	12	19	62	9	<	<	1	<	<	0.1	7	11	143	<	23	49	262	6	39	1	3	0.06	1.63	0.47	2.01	0.43	0.06	0.03	0.08
L10400E	9300NP	0.2	17	29	68	10	<	<	1	<	<	0.1	10	14	210	<	26	71	427	8	56	1	3	0.07	1.79	0.63	2.65	0.50	0.05	0.03	0.08
L10400E	9350NP	<	10	23	68	14	<	<	2	<	<	0.1	7	9	114	<	26	47	341	8	40	1	3	0.06	1.21	0.60	2.08	0.55	0.04	0.03	0.09
L10400E	9400NP	0.3	30	26	101	11	<	<	1	<	<	0.3	6	11	190	<	21	39	239	11	72	2	3	0.03	1.54	0.78	1.89	0.42	0.06	0.03	0.08
L10400E	9450NP	<	17	7	30	<	<	<	1	<	<	<	6	8	119	<	14	35	150	5	42	<	1	0.05	1.17	0.40	1.46	0.27	0.05	0.03	0.05
L10400E	9500NP	<	17	15	41	10	<	<	2	<	3	<	9	14	103	<	27	53	246	10	35	1	3	0.09	1.39	0.34	2.38	0.64	0.06	0.02	0.06
L10400E	9550NP	<	16	16	39	9	<	<	2	<	<	<	9	13	136	<	26	69	305	8	24	1	3	0.08	1.86	0.19	2.60	0.44	0.05	0.02	0.04
L10400E	9600NP	0.4	56	18	51	9	<	<	2	<	<	<	10	21	148	<	39	61	308	9	21	4	4	0.07	3.11	0.19	3.07	0.61	0.06	0.02	0.06
L10400E	9650NP	<	14	17	69	9	<	<	2	<	<	0.3	9	13	81	<	25	63	278	8	13	2	2	0.08	1.65	0.13	2.77	0.47	0.08	0.02	0.05
L10400E	9700NP	0.7	162	16	65	9	<	<	1	<	<	0.2	8	12	205	<	21	34	370	11	114	3	2	0.03	1.75	1.20	1.94	0.45	0.05	0.03	0.09
L10400E	9750NP	<	17	2	33	<	<	<	1	<	<	0.3	3	4	91	<	8	22	115	3	57	1	1	0.03	0.61	0.56	0.88	0.15	0.03	0.04	0.05
L10400E	9800NP	0.3	64	28	95	17	<	<	2	<	<	0.1	10	13	196	<	31	62	359	9	55	1	3	0.07	1.56	0.66	2.91	0.72	0.05	0.03	0.06
L10400E	9850NP	0.8	91	31	75	11	<	<	1	<	<	0.4	7	10	214	<	16	32	368	13	83	2	2	0.03	1.18	0.84	1.83	0.40	0.03	0.03	0.08
L10400E	9900NP	<	44	50	75	13	<	<	1	<	3	0.2	10	15	131	<	29	54	291	10	30	1	3	0.07	1.47	0.35	2.63	0.68	0.04	0.02	0.04
L10400E	9950NP	0.5	57	21	78	5	<	<	1	<	<	0.5	5	10	167	<	17	34	192	7	57	1	2	0.03	1.30	0.53	1.63	0.35	0.05	0.04	0.08
L10400E	10000NP	0.5	54	14	42	<	<	<	1	<	<	0.1	4	4	88	<	9	37	77	6	27	1	1	0.05	0.82	0.29	1.38	0.16	0.03	0.04	0.07
L10400E	10050NP	<	10	5	22	<	<	<	1	<	<	0.1	6	3	40	<	5	60	80	3	15	<	<	0.08	0.30	0.19	1.71	0.08	0.03	0.04	0.07
L10400E	10100NP	<	4	<	10	<	<	<	1	<	<	0.1	3	1	18	<	3	28	35	<	11	<	<	0.04	0.23	0.11	0.82	0.04	0.03	0.04	0.04
L10400E	10150NP	0.1	17	10	32	7	<	<	2	<	<	<	6	10	72	<	27	62	145	6	19	1	2	0.10	1.32	0.14	2.40	0.52	0.07	0.02	0.02
L10400E	10200NP	<	4	<	15	<	<	<	<	<	<	<	4	1	18	<	3	45	50	<	11	<	<	0.05	0.28	0.06	1.27	0.04	0.02	0.04	0.01
L10400E	10250NP	<	54	21	37	10	<	<	2	<	<	<	8	10	97	<	32	70	164	6	26	1	4	0.10	1.70	0.24	3.01	0.72	0.14	0.03	0.08
L10400E	10300NP	0.1	36	15	29	6	<	<	1	<	<	<	6	9	88	<	20	53	119	9	21	1	2	0.06	1.61	0.16	2.12	0.35	0.06	0.03	0.04
L10400E	10350NP	<	62	16	43	6	<	<	2	<	<	<	10	15	133	<	42	77	210	10	63	1	5	0.12	2.59	0.17	3.26	1.01	0.18	0.03	0.07
L10400E	10400NP	<	51	26	60	8	<	<	2	<	<	<	11	18	129	<	45	78	215	10	33	1	5	0.10	2.83	0.22	3.90	1.06	0.11	0.02	0.08
L10400E	10450NP	0.1	27	17	49	8	<	<	2	<	<	<	11	16	115	<	33	69	254	7	19	1	3	0.09	2.29	0.17	3.12	0.63	0.07	0.02	0.06
L10400E	10500NP	<	4	<	9	<	<	<	<	<	<	<	2	1	31	<	3	24	31	<	9	<	<	0.02	0.30	0.05	0.76	0.03	0.03	0.04	0.02
L10400E	10550NP	<	4	3	10	<	<	<	1	<	<	<	2	1	19	<	3	24	30	<	8	<	<	0.03	0.23	0.04	0.71	0.04	0.02	0.03	0.02
L10400E	10600NP	<	13	3	12	<	<	<	1	<	<	0.1	3	3	53	<	9	31	56	3	13	<	<	0.04	0.67	0.09	1.06	0.13	0.03	0.03	0.03
L10400E	10650NP	<	47	14	48	14	<	<	4	<	<	<	11	19	140	<	37	67	264	11	22	2	4	0.11	2.10	0.29	2.95	0.83	0.12	0.02	0.08
L10400E	10700NP	<	4	<	8	<	<	<	1	<	<	<	2	<	18	<	3	24	30	2	10	<	<	0.03	0.27	0.09	0.72	0.03	0.03	0.04	0.03
L10400E	10750NP	<	11	4	19	<	<	<	1	<	<	<	4	6	42	<	12	35	101	3	10	<	1	0.05	0.69	0.08	1.29	0.21	0.03	0.03	0.02
L10400E	10800NP	<	17	11	33	7	<	<	3	<	<	<	6	10	86	<	22	57	137	7	19	1	2	0.07	1.40	0.17	2.09	0.38	0.06	0.02	0.03
L10400E	10850NP	<	8	5	14	<	<	<	1	<	<	0.1	3	4	42	<	8	30	58	3	12	<	1	0.04	0.54	0.09	0.99	0.11	0.03	0.04	0.02
L10400E	10900NP	<	19	14	44	7	<	<	2	<	<	<	10	18	117	<	29	56	261	9	19	1	3	0.08	1.87	0.24	2.55	0.61	0.06	0.02	0.06
L10400E	10950NP	0.2	19	13	44	6	<	<	2	<	<	<	9	10	134	<	19	61	294	6	21	<	2	0.06	1.76	0.17	2.44	0.34	0.07	0.04	0.05
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

—=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 08, 1993 Page 27 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L10400E	11000NP	<	11	12	30	6	<	<	2	<	<	<	6	9	77	<	19	57	145	7	16	1	2	0.08	1.06	0.15	2.12	0.33	0.05	0.02	0.02
L10500E	9000NP	<	23	20	30	<	<	<	1	<	<	0.1	6	7	117	<	16	51	160	5	25	<	2	0.06	1.11	0.28	1.81	0.24	0.04	0.03	0.08
L10500E	9050NP	0.5	20	37	70	7	<	<	1	<	<	<	7	13	211	<	27	42	256	8	53	1	3	0.04	2.08	0.55	2.03	0.47	0.08	0.03	0.09
L10500E	9100NP	0.5	27	27	72	9	<	<	2	<	<	0.1	7	11	185	<	23	54	304	8	50	1	3	0.06	1.44	0.55	2.19	0.43	0.05	0.03	0.08
L10500E	9150NP	0.3	19	18	66	7	<	<	1	<	<	0.2	6	12	161	<	22	42	194	12	45	1	3	0.06	1.40	0.54	1.85	0.45	0.05	0.03	0.07
L10500E	9200NP	0.1	10	6	48	<	<	<	1	<	<	<	10	6	65	<	10	100	245	2	30	1	1	0.12	0.50	0.33	2.82	0.14	0.02	0.04	0.05
L10500E	9350NP	0.1	9	14	32	<	<	<	1	<	<	0.2	7	4	72	<	8	52	246	4	28	1	1	0.06	0.57	0.28	1.58	0.15	0.03	0.04	0.04
L10500E	9400NP	0.6	27	32	158	10	<	<	1	<	<	0.5	7	11	232	<	20	39	277	15	85	2	3	0.03	1.73	1.10	1.93	0.44	0.05	0.03	0.06
L10500E	9550NP	<	53	86	166	31	<	<	1	<	<	0.2	5	7	112	<	16	44	288	10	36	1	3	0.01	1.18	0.45	1.97	0.30	0.04	0.02	0.08
L10500E	9600NP	0.2	52	18	88	12	<	<	1	<	<	0.1	9	11	119	<	23	87	251	6	38	1	2	0.09	1.31	0.33	3.11	0.49	0.03	0.02	0.03
L10500E	9650NP	<	7	<	9	<	<	<	<	<	<	<	1	1	32	<	2	14	23	<	16	1	<	0.02	0.28	0.14	0.45	0.03	0.02	0.05	0.03
L10500E	9700NP	<	10	2	13	<	<	<	1	<	<	<	2	1	37	<	3	18	27	2	22	1	<	0.03	0.35	0.22	0.54	0.05	0.03	0.05	0.04
L10500E	9750NP	<	5	<	12	<	<	<	1	<	<	<	2	1	36	<	2	21	50	<	19	1	<	0.03	0.27	0.19	0.67	0.04	0.02	0.05	0.03
L10500E	9800NP	0.4	16	7	35	<	<	<	1	<	<	0.1	4	4	106	<	8	30	123	5	35	1	1	0.03	0.66	0.42	1.20	0.17	0.03	0.04	0.06
L10500E	9850NP	0.5	65	23	81	9	<	<	2	<	<	0.9	9	15	325	<	22	55	531	11	102	1	2	0.04	1.36	0.97	2.61	0.43	0.04	0.03	0.09
L10500E	9900NP	0.9	33	32	93	20	<	<	1	<	<	<	6	12	351	<	28	68	229	13	55	1	4	0.03	1.84	0.64	3.42	0.50	0.04	0.03	0.11
L10500E	9950NP	1.6	74	16	57	5	<	<	1	<	<	0.8	8	8	193	<	9	41	340	10	54	1	1	0.02	0.89	0.56	1.83	0.18	0.03	0.04	0.07
L10500E	10000NP	0.2	28	15	44	<	<	<	1	<	<	0.3	5	4	60	<	9	40	166	6	19	<	1	0.05	0.60	0.19	1.33	0.18	0.02	0.03	0.04
L10500E	10050NP	0.1	23	22	51	7	<	<	1	<	<	<	7	15	118	<	25	50	208	10	20	1	3	0.07	1.46	0.23	2.22	0.55	0.06	0.02	0.03
L10500E	10100NP	<	19	15	51	8	<	<	1	<	<	<	9	15	94	<	32	71	267	8	19	1	3	0.09	2.15	0.20	3.24	0.57	0.07	0.02	0.05
L10500E	10150NP	<	83	24	55	13	<	<	2	<	<	<	11	21	72	<	46	61	238	7	12	2	4	0.06	2.40	0.13	3.98	0.82	0.06	0.02	0.04
L10500E	10200NP	0.1	39	15	54	9	<	<	2	<	<	<	10	18	94	<	32	53	262	8	23	2	4	0.06	2.75	0.28	3.04	0.68	0.07	0.02	0.10
L10500E	10250NP	0.1	74	24	44	17	<	<	2	<	<	<	12	14	84	<	36	78	214	8	24	1	3	0.09	2.44	0.20	4.02	0.65	0.05	0.02	0.07
L10500E	10300NP	<	30	19	47	12	<	<	2	<	<	<	9	15	78	<	34	84	214	8	15	1	3	0.11	2.16	0.17	3.57	0.67	0.07	0.02	0.06
L10500E	10350NP	<	68	22	60	15	<	<	2	<	<	<	12	19	89	<	40	77	317	8	16	1	5	0.09	2.97	0.20	4.14	0.80	0.10	0.02	0.09
L10500E	10400NP	0.1	23	17	47	5	<	<	2	<	<	<	10	19	131	<	44	72	218	10	20	1	5	0.09	2.83	0.20	3.44	0.68	0.08	0.02	0.08
L10500E	10450NP	<	54	24	47	13	<	<	2	<	<	<	11	16	107	<	43	80	211	10	27	1	4	0.11	2.30	0.23	3.96	0.85	0.12	0.02	0.09
L10500E	10500NP	<	24	22	51	7	<	<	3	<	<	<	10	17	124	<	35	71	198	11	21	1	4	0.10	2.57	0.23	3.27	0.67	0.08	0.02	0.07
L10500E	10550NP	<	54	22	58	13	<	<	3	<	<	<	12	21	99	<	33	61	305	9	19	2	4	0.09	2.18	0.27	3.12	0.78	0.09	0.02	0.08
L10500E	10600NP	<	2	<	11	<	<	<	1	<	<	<	2	<	15	<	2	15	22	<	9	<	<	0.02	0.16	0.07	0.48	0.03	0.03	0.04	0.02
L10500E	10650NP	<	20	8	33	5	<	<	6	<	2	0.1	6	6	75	<	15	41	100	4	18	<	1	0.05	0.83	0.20	1.51	0.27	0.03	0.03	0.05
L10500E	10700NP	<	4	2	13	<	<	<	1	<	<	0.1	2	1	24	<	3	16	58	2	10	<	<	0.02	0.24	0.10	0.50	0.04	0.03	0.04	0.04
L10500E	10750NP	0.1	39	21	51	16	<	<	5	<	<	<	12	15	132	<	36	67	293	11	30	1	4	0.11	1.75	0.39	2.86	0.68	0.05	0.03	0.08
L10500E	10800NP	<	35	19	53	22	<	<	2	<	<	<	11	16	120	<	33	64	288	11	25	1	4	0.10	1.93	0.32	2.88	0.63	0.06	0.02	0.07
L10500E	10850NP	<	6	<	15	<	<	<	<	<	<	<	2	1	35	<	5	25	41	<	10	<	<	0.02	0.40	0.07	0.83	0.07	0.02	0.04	0.03
L10500E	10900NP	0.3	27	17	59	11	<	<	3	<	<	<	10	16	149	<	35	81	323	10	25	<	2	0.07	2.22	0.24	3.56	0.64	0.08	0.02	0.07
L10500E	10950NP	0.1	16	14	55	11	<	<	2	<	<	<	10	18	125	<	34	70	287	9	19	1	3	0.11	1.90	0.24	3.20	0.76	0.09	0.02	0.05
L10500E	11000NP	<	16	12	46	13	<	<	2	<	<	<	9	16	104	<	30	59	248	8	19	1	3	0.09	1.70	0.25	2.75	0.64	0.08	0.02	0.06
L10600E	9000NP	0.1	11	18	47	6	<	<	1	<	4	<	7	11	136	<	26	58	194	8	32	<	3	0.08	1.51	0.41	2.17	0.52	0.05	0.02	0.07
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 08, 1993 Page 28 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L10600E 9050NP	0.3	25	29	67	10	<	<	2	<	<	<	8	15	198	<	27	59	296	9	41	1	4	0.05	2.00	0.45	2.50	0.47	0.05	0.03	0.08
L10600E 9100NP	0.3	9	11	49	5	<	<	1	<	<	<	7	11	137	<	23	45	273	5	34	1	2	0.06	1.57	0.42	1.84	0.45	0.06	0.03	0.08
L10600E 9150NP	0.2	20	11	42	8	<	<	<	<	<	<	7	12	182	<	26	43	276	6	51	<	2	0.05	1.73	0.54	1.87	0.48	0.05	0.04	0.09
L10600E 9200NP	0.4	17	20	32	5	<	<	1	<	<	<	6	10	189	<	20	44	144	10	42	1	2	0.05	1.70	0.42	1.84	0.31	0.05	0.04	0.08
L10600E 9250NP	0.1	12	16	44	9	<	<	1	<	2	<	8	13	134	<	28	49	264	10	33	<	3	0.08	1.40	0.49	2.02	0.67	0.05	0.02	0.09
L10600E 9300NP	0.3	12	10	47	<	<	<	<	<	<	<	4	6	123	<	11	20	193	4	45	<	1	0.02	0.90	0.45	0.97	0.25	0.04	0.04	0.06
L10600E 9350NP	0.5	23	30	92	7	<	<	1	<	<	0.2	7	11	215	<	20	40	406	12	61	1	3	0.04	1.59	0.67	1.82	0.39	0.05	0.04	0.08
L10600E 9400NP	0.6	16	16	58	5	<	<	1	<	<	<	6	7	140	<	11	30	217	6	38	1	1	0.03	1.09	0.39	1.29	0.21	0.04	0.04	0.06
L10600E 9450NP	0.3	15	45	162	12	<	<	1	<	<	0.3	8	12	133	<	24	57	311	11	35	1	3	0.07	1.28	0.47	2.41	0.53	0.07	0.03	0.08
L10600E 9500NP	0.6	18	26	53	<	<	<	<	<	<	0.2	4	6	155	<	11	22	180	7	52	1	1	0.03	0.90	0.54	1.00	0.20	0.04	0.04	0.06
L10600E 9550NP	0.4	21	47	69	12	<	<	1	<	<	<	8	15	154	<	29	55	301	8	48	1	3	0.05	1.49	0.53	2.34	0.59	0.04	0.02	0.06
L10600E 9600NP	0.2	15	27	23	<	<	<	1	<	<	0.2	2	5	90	<	8	15	39	4	67	2	1	0.02	0.69	0.67	0.74	0.14	0.03	0.04	0.07
L10600E 9650NP	0.3	18	22	47	11	<	<	<	<	<	0.1	6	9	224	<	18	47	113	9	48	1	2	0.03	1.64	0.45	2.04	0.27	0.03	0.04	0.07
L10600E 9750NP	0.5	36	28	83	26	<	<	2	<	<	0.2	11	15	274	<	29	61	313	14	65	1	3	0.03	1.67	0.81	2.83	0.50	0.03	0.03	0.13
L10600E 9800NP	0.3	23	19	48	13	<	<	2	<	<	0.1	6	6	121	<	16	39	156	7	24	<	2	0.03	0.98	0.30	1.80	0.24	0.03	0.04	0.07
L10600E 9850NP	0.6	31	28	86	36	<	<	5	<	3	<	9	14	350	<	29	59	568	14	38	1	4	0.03	1.71	0.55	3.61	0.49	0.04	0.03	0.14
L10600E 9900NP	1.0	73	42	109	22	<	<	2	<	3	<	8	14	261	<	42	71	272	25	38	1	7	0.03	1.79	0.81	3.19	0.76	0.04	0.03	0.19
L10600E 9950NP	0.1	21	26	64	18	<	<	2	<	<	<	8	10	199	<	24	61	253	11	32	<	3	0.05	1.26	0.49	2.57	0.38	0.03	0.03	0.12
L10600E 10000NP	0.5	30	94	98	29	<	<	2	<	<	0.2	5	12	225	<	30	83	282	33	39	1	9	0.02	1.80	0.50	3.43	0.48	0.04	0.03	0.11
L10600E 10050NP	<	30	22	68	21	<	<	2	<	<	<	9	13	111	<	20	74	332	8	31	<	5	0.03	2.11	0.32	3.95	0.62	0.04	0.02	0.05
L10600E 10150NP	<	16	20	41	21	<	<	2	<	<	<	5	7	101	<	35	72	137	13	32	<	3	0.03	1.41	0.53	3.90	0.33	0.01	0.04	0.18
L10600E 10200NP	0.2	27	24	56	8	<	<	2	<	<	<	11	19	114	<	29	61	295	9	17	1	4	0.08	2.35	0.25	3.10	0.66	0.08	0.02	0.06
L10600E 10250NP	0.1	22	20	43	7	<	<	1	<	<	<	10	18	110	<	30	58	233	9	21	1	3	0.08	2.35	0.25	2.68	0.58	0.07	0.03	0.06
L10600E 10300NP	0.1	23	23	50	8	<	<	1	<	<	<	11	18	104	<	28	52	255	10	18	1	3	0.08	1.86	0.26	2.44	0.60	0.08	0.02	0.07
L10600E 10350NP	<	34	32	56	8	<	<	2	<	<	<	10	15	85	<	33	66	243	8	17	2	3	0.07	2.77	0.17	3.64	0.56	0.08	0.02	0.05
L10600E 10400NP	<	89	21	59	32	<	<	2	<	<	<	21	21	165	<	70	111	394	17	46	2	9	0.13	1.97	0.70	5.81	1.55	0.41	0.03	0.19
L10600E 10450NP	0.1	103	25	58	19	<	<	3	<	<	<	10	19	168	<	67	97	208	11	63	1	6	0.09	3.80	0.23	5.82	1.47	0.20	0.04	0.13
L10600E 10500NP	0.2	41	21	55	18	<	<	2	<	<	<	13	18	149	<	52	98	231	9	26	1	4	0.15	2.14	0.33	4.40	1.20	0.21	0.03	0.10
L10600E 10550NP	0.3	37	14	44	6	<	<	2	<	<	<	6	9	85	<	21	52	127	5	18	<	1	0.06	1.34	0.18	2.06	0.35	0.06	0.04	0.05
L10600E 10600NP	0.3	105	27	56	16	<	<	5	<	<	<	11	16	111	<	39	67	262	11	28	1	4	0.09	1.85	0.36	3.11	0.76	0.07	0.03	0.07
L10600E 10650NP	0.7	66	81	107	23	<	<	14	<	<	<	10	15	133	<	35	69	264	14	26	1	5	0.08	1.97	0.41	3.32	0.77	0.06	0.03	0.11
L10600E 10700NP	0.4	74	26	65	25	<	<	24	<	<	<	12	19	160	<	47	75	233	13	36	1	5	0.10	2.05	0.51	3.62	0.94	0.07	0.02	0.10
L10600E 10750NP	0.3	42	19	59	11	<	<	6	<	<	<	10	15	174	<	30	60	245	9	35	<	2	0.07	1.71	0.40	2.60	0.55	0.05	0.03	0.09
L10600E 10800NP	0.2	35	18	57	11	<	<	4	<	<	<	10	17	193	<	33	57	255	12	30	<	3	0.07	2.09	0.36	2.59	0.67	0.06	0.02	0.08
L10600E 10850NP	0.1	17	16	55	12	<	<	2	<	<	<	11	17	116	<	34	73	303	10	24	1	3	0.11	1.69	0.35	3.17	0.74	0.09	0.02	0.08
L10600E 10900NP	0.1	28	16	51	16	<	<	2	<	<	<	12	18	124	<	41	75	339	12	30	1	5	0.12	1.75	0.46	3.40	0.89	0.07	0.03	0.08
L10600E 10950NP	<	16	11	53	13	<	<	1	<	<	<	12	14	104	<	34	69	397	12	31	1	4	0.10	1.38	0.45	3.16	0.76	0.06	0.03	0.09
L10600E 11000NP	<	18	15	55	11	<	<	1	<	<	<	15	18	151	<	45	88	469	8	25	1	4	0.14	2.05	0.36	3.81	0.94	0.12	0.03	0.09
L10700E 9000NP	0.2	17	16	37	9	<	<	1	<	<	<	7	12	259	<	25	43	281	10	64	1	3	0.04	1.62	0.70	1.93	0.51	0.05	0.03	0.08
Min Limit	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*	99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 08, 1993   Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L10700E	9050NP	<	13	19	46	11	<	<	1	<	<	<	9	13	204	<	28	49	351	9	48	1	3	0.05	1.63	0.57	2.16	0.57	0.07	0.02	0.07
L10700E	9100NP	0.2	14	11	33	9	<	<	1	<	3	<	6	9	182	<	19	37	225	7	54	1	2	0.03	1.16	0.58	1.62	0.36	0.04	0.03	0.07
L10700E	9150NP	0.2	15	11	33	9	<	<	1	<	<	<	9	11	201	<	20	38	555	10	47	<	2	0.03	1.32	0.52	1.81	0.41	0.05	0.03	0.07
L10700E	9200NP	0.2	14	13	47	6	<	<	1	<	<	0.2	8	10	155	<	18	53	357	8	41	<	2	0.05	1.16	0.45	2.07	0.33	0.05	0.03	0.07
L10700E	9250NP	0.3	15	11	28	<	<	<	1	<	<	<	6	8	180	<	15	30	208	9	60	1	1	0.03	1.08	0.64	1.32	0.31	0.04	0.03	0.08
L10700E	9300NP	0.2	10	8	34	<	<	<	<	<	<	<	6	10	140	<	18	38	215	8	39	<	2	0.04	1.12	0.45	1.60	0.39	0.03	0.02	0.08
L10700E	9350NP	0.1	16	11	29	<	<	<	1	<	<	<	7	11	177	<	18	35	326	7	47	<	2	0.04	1.34	0.47	1.59	0.43	0.04	0.03	0.07
L10700E	9400NP	0.1	10	10	43	8	<	<	1	<	<	<	9	18	87	<	29	58	225	8	19	<	3	0.08	1.60	0.26	2.58	0.63	0.07	0.02	0.06
L10700E	9450NP	0.2	12	12	22	<	<	<	<	<	<	<	4	5	56	<	10	33	86	3	15	<	1	0.05	0.66	0.14	1.19	0.18	0.03	0.03	0.03
L10700E	9500NP	0.3	6	7	14	<	<	<	<	<	<	<	3	2	37	<	5	27	49	2	12	<	<	0.04	0.43	0.12	0.90	0.07	0.03	0.04	0.03
L10700E	9550NP	0.1	6	9	26	<	<	<	<	<	<	<	5	4	68	<	8	51	117	<	24	<	1	0.07	0.44	0.25	1.53	0.12	0.02	0.03	0.04
L10700E	9600NP	<	6	<	15	<	<	<	<	<	<	<	3	2	47	<	3	25	61	2	28	<	<	0.04	0.30	0.28	0.82	0.07	0.02	0.04	0.04
L10700E	9650NP	0.2	11	6	14	<	<	<	<	<	<	<	4	5	96	<	8	16	278	3	57	<	1	0.02	0.65	0.53	0.75	0.16	0.02	0.04	0.06
L10700E	9700NP	0.1	12	4	13	<	<	<	<	<	<	<	2	3	91	<	5	14	113	3	59	1	<	0.02	0.51	0.57	0.60	0.09	0.02	0.04	0.05
L10700E	9750NP	0.8	19	48	80	<	<	<	1	<	<	0.8	4	6	187	<	9	25	180	6	65	<	1	0.02	0.81	0.72	1.12	0.20	0.03	0.04	0.09
L10700E	9800NP	0.3	17	9	46	<	<	<	1	<	<	0.5	5	7	178	<	13	28	237	7	43	<	1	0.02	0.92	0.43	1.28	0.25	0.03	0.03	0.07
L10700E	9850NP	0.3	4	6	14	<	<	<	<	<	<	<	2	2	44	<	4	22	34	<	10	<	<	0.02	0.34	0.09	0.72	0.05	0.03	0.04	0.02
L10700E	9900NP	0.2	5	4	23	<	<	<	<	<	<	<	4	4	30	<	6	47	65	2	10	<	<	0.05	0.31	0.08	1.38	0.09	0.03	0.03	0.02
L10700E	9950NP	0.7	23	17	47	10	<	<	1	<	<	<	10	13	396	<	24	54	1278	14	32	<	3	0.04	1.90	0.35	2.61	0.38	0.04	0.03	0.11
L10700E	10000NP	0.1	4	4	10	<	<	<	<	<	4	<	2	1	49	<	3	13	42	2	11	<	<	0.02	0.32	0.09	0.48	0.05	0.03	0.03	0.03
L10700E	10050NP	<	2	15	7	<	<	<	<	<	<	<	2	1	24	<	2	16	32	<	11	<	<	0.02	0.21	0.08	0.52	0.03	0.02	0.04	0.03
L10700E	10100NP	0.2	13	20	37	10	<	<	2	<	<	0.1	5	8	78	<	19	76	128	7	14	<	1	0.08	1.20	0.13	2.12	0.34	0.05	0.02	0.03
L10700E	10150NP	0.3	23	35	77	49	<	<	1	<	<	<	8	11	69	<	35	87	332	9	17	<	5	0.04	1.85	0.18	4.37	0.24	0.03	0.02	0.08
L10700E	10200NP	<	16	20	47	14	<	<	1	<	<	<	9	14	88	<	31	57	258	9	14	1	4	0.07	2.23	0.17	2.87	0.50	0.06	0.02	0.06
L10700E	10250NP	0.1	7	<	9	<	<	<	<	<	<	<	4	1	35	<	5	20	213	2	9	<	<	0.02	0.37	0.07	0.71	0.04	0.03	0.04	0.03
L10700E	10300NP	<	17	2	16	<	<	<	<	<	<	<	2	3	37	<	7	21	50	2	11	<	<	0.02	0.59	0.09	0.91	0.09	0.02	0.04	0.03
L10700E	10350NP	0.1	13	4	14	<	<	<	<	<	<	<	2	3	70	<	5	22	40	3	16	<	<	0.02	0.59	0.13	0.88	0.06	0.02	0.04	0.04
L10700E	10400NP	<	3	<	7	<	<	<	<	<	<	0.1	2	1	29	<	2	14	24	<	10	<	<	0.01	0.16	0.06	0.44	0.03	0.02	0.04	0.02
L10700E	10450NP	0.6	28	37	57	6	<	<	1	<	<	<	5	10	114	<	26	42	136	6	16	<	1	0.03	1.04	0.17	1.71	0.34	0.03	0.03	0.05
L10700E	10500NP	<	10	2	6	<	<	<	<	<	2	<	1	1	25	<	3	12	21	<	11	<	<	0.01	0.28	0.06	0.44	0.04	0.02	0.03	0.03
L10700E	10550NP	0.2	63	18	27	5	<	<	1	<	<	0.2	4	5	48	<	9	39	62	6	13	<	1	0.03	0.59	0.11	1.46	0.12	0.04	0.02	0.04
L10700E	10600NP	0.1	14	<	9	<	<	<	2	<	<	<	7	2	43	<	7	24	792	2	11	<	1	0.03	0.47	0.11	1.05	0.08	0.02	0.03	0.04
L10700E	10650NP	0.2	11	2	20	<	<	<	5	<	<	<	4	5	56	<	13	29	105	4	13	<	1	0.04	0.76	0.13	1.14	0.21	0.03	0.03	0.05
L10700E	10700NP	0.3	44	17	38	14	<	<	21	<	<	<	7	12	134	<	31	54	195	13	28	<	3	0.04	1.51	0.37	2.50	0.54	0.03	0.02	0.10
L10700E	10750NP	0.2	18	7	22	<	<	<	1	<	<	<	4	7	116	<	15	30	74	5	20	<	1	0.04	1.13	0.18	1.24	0.29	0.04	0.04	0.05
L10700E	10800NP	0.1	30	16	43	7	<	<	7	<	<	<	17	13	183	<	31	60	389	7	34	<	4	0.07	1.98	0.40	2.84	0.69	0.11	0.04	0.08
L10700E	10850NP	0.2	15	3	14	<	<	<	2	<	<	<	3	3	64	<	7	33	49	5	15	<	1	0.03	0.63	0.14	1.25	0.08	0.02	0.03	0.07
L10700E	10900NP	0.1	12	5	18	<	<	<	1	<	<	0.1	3	5	83	<	11	20	94	4	20	<	1	0.02	0.87	0.17	1.02	0.14	0.04	0.03	0.06
L10700E	10950NP	<	6	<	9	<	<	<	<	<	<	<	2	3	44	<	5	16	41	2	11	<	1	0.03	0.46	0.11	0.62	0.06	0.03	0.04	0.04
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 08, 1993 Page 30 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
L10700E	11000N P	0.1	5	3	10	<	<	<	<	<	<	<	2	2	40	<	4	22	39	2	12	<	<	0.03	0.35	0.11	0.75	0.06	0.03	0.03	0.04
RS 1	P	0.8	13	60	143	18	<	<	1	<	3	0.1	12	17	257	<	26	47	334	6	19	2	3	0.04	2.65	0.17	3.70	0.59	0.06	0.02	0.03
RS 2	P	0.4	18	17	69	11	<	<	1	<	<	<	9	19	347	<	26	62	230	7	16	1	3	0.06	1.95	0.16	2.92	0.54	0.07	0.02	0.02
RS 3	P	0.3	14	31	97	20	<	<	<	<	<	<	11	17	443	<	27	56	396	8	21	1	3	0.05	1.73	0.28	2.84	0.62	0.07	0.02	0.06
RS 4	P	<	19	73	205	56	10	<	1	<	<	<	15	18	216	<	30	58	757	6	13	<	3	0.01	2.13	0.11	3.89	0.53	0.08	0.01	0.03
RS 5	P	<	18	17	66	10	<	<	<	<	<	<	13	25	241	<	33	57	330	7	16	3	4	0.07	2.50	0.17	2.85	0.67	0.07	0.02	0.03
RS 6	P	<	2	<	11	<	<	<	<	<	3	<	2	1	36	<	2	13	21	<	8	<	<	0.01	0.18	0.05	0.43	0.03	0.03	0.03	0.02
RS 7	P	0.4	19	44	102	15	<	<	1	<	<	0.2	8	14	349	<	26	61	310	6	20	<	2	0.04	2.03	0.18	3.15	0.50	0.07	0.02	0.04
RS 8	P	0.3	14	23	66	8	<	<	1	<	<	0.2	9	12	305	<	25	71	323	7	19	<	2	0.07	1.56	0.17	2.77	0.40	0.05	0.02	0.02
RS 9	P	<	4	<	11	<	<	<	<	<	<	<	2	1	32	<	2	20	52	<	8	<	<	0.03	0.23	0.08	0.59	0.04	0.03	0.04	0.03
RS 10	P	0.1	53	50	123	11	<	<	1	<	<	0.1	10	17	381	<	26	57	301	7	17	1	3	0.06	1.72	0.16	2.93	0.57	0.06	0.02	0.02
RS 11	P	0.2	14	22	62	8	<	<	<	<	<	<	7	12	310	<	22	61	202	7	14	<	2	0.05	1.62	0.14	2.54	0.41	0.04	0.02	0.02
RS 12	P	<	18	13	54	10	<	<	1	<	<	<	10	20	217	<	31	65	232	7	15	2	3	0.07	2.05	0.15	3.17	0.58	0.05	0.02	0.02
RS 13	P	<	24	12	88	14	<	<	1	<	<	<	14	22	174	<	32	66	376	6	15	1	4	0.06	2.67	0.15	3.20	0.78	0.06	0.02	0.03
RS 14	P	<	12	13	53	6	<	<	1	<	3	<	8	14	136	<	28	70	263	8	17	<	3	0.07	1.82	0.16	3.45	0.51	0.06	0.02	0.04
RS 15	P	0.1	12	13	43	<	<	<	1	<	<	<	8	11	114	<	29	80	187	6	17	1	3	0.11	2.16	0.16	3.23	0.48	0.06	0.02	0.03
RS 16	P	<	12	15	47	18	<	<	<	<	5	<	8	11	122	<	20	63	301	7	19	1	2	0.05	1.82	0.14	3.02	0.43	0.05	0.02	0.03
RS 17	P	<	4	<	16	<	<	<	<	<	<	<	2	2	37	<	3	16	55	<	7	<	<	0.01	0.34	0.05	0.55	0.04	0.03	0.04	0.02
RS 18	P	<	7	<	11	<	<	<	<	<	<	<	3	2	25	<	3	30	62	<	7	<	<	0.04	0.37	0.04	0.95	0.04	0.02	0.04	0.01
RS 19	P	<	14	14	60	13	<	<	1	<	<	<	11	20	253	<	28	69	386	8	15	<	4	0.06	2.24	0.17	3.54	0.72	0.11	0.02	0.03
RS 20	P	<	13	14	33	5	<	<	1	<	<	<	7	12	121	<	22	73	164	8	13	1	2	0.07	1.45	0.11	2.99	0.34	0.05	0.02	0.02
RS 21	P	<	15	11	47	6	<	<	1	<	<	<	8	18	187	<	26	60	240	7	18	<	3	0.06	1.80	0.19	2.83	0.61	0.07	0.02	0.02
RS 22	P	<	15	8	40	7	<	<	1	<	<	<	7	12	141	<	17	45	285	6	16	<	1	0.03	1.34	0.18	2.16	0.43	0.06	0.02	0.05
RS 23	P	<	4	<	12	<	<	<	<	<	<	<	2	2	63	<	3	22	58	3	10	<	1	0.03	0.33	0.12	0.76	0.06	0.03	0.04	0.04
RS 24	P	0.1	22	14	57	5	<	<	1	<	<	<	9	15	186	<	25	73	287	7	23	1	3	0.07	2.11	0.20	3.26	0.58	0.07	0.02	0.03
RS 25	P	0.1	22	14	50	5	<	<	1	<	<	<	10	17	136	<	28	76	274	7	21	2	3	0.07	2.28	0.17	3.49	0.57	0.07	0.02	0.04
RS 26	P	<	15	12	45	5	<	<	1	<	<	<	8	15	118	<	29	81	210	7	14	1	3	0.09	2.17	0.13	3.46	0.51	0.06	0.02	0.03
RS 27	P	<	24	11	46	6	<	<	<	<	<	<	9	17	156	<	27	68	224	7	17	<	3	0.07	1.99	0.17	3.08	0.53	0.06	0.03	0.03
RS 28	P	<	17	13	44	6	<	<	1	<	<	<	9	19	159	<	31	67	227	9	15	1	4	0.07	2.32	0.16	3.02	0.57	0.06	0.02	0.03
RS 29	P	<	23	11	53	6	<	<	<	<	<	<	11	23	237	<	36	76	290	10	22	1	4	0.08	2.59	0.21	3.43	0.70	0.08	0.02	0.03
RS 30	P	<	18	16	39	<	<	<	1	<	<	<	7	11	190	<	22	72	230	7	20	1	2	0.06	1.61	0.17	3.02	0.46	0.05	0.02	0.02
RS 31	P	<	15	8	17	<	<	<	<	<	<	0.1	5	6	60	<	12	36	76	3	13	<	1	0.04	1.06	0.10	1.61	0.18	0.03	0.03	0.02
RS 32	P	<	20	19	49	5	<	<	2	<	2	<	13	24	202	<	32	65	321	7	16	2	3	0.07	2.49	0.17	3.16	0.64	0.06	0.02	0.03
RS 33	P	0.1	3	16	8	<	<	<	<	<	<	<	2	2	24	<	2	21	29	<	10	<	<	0.03	0.24	0.10	0.62	0.04	0.03	0.04	0.03
RS 34	P	<	17	14	62	9	<	<	<	<	<	<	15	24	236	<	37	70	376	8	17	2	4	0.07	2.88	0.19	3.57	0.83	0.09	0.02	0.04
RS 35	P	<	14	11	45	10	<	<	1	<	<	0.1	9	17	130	<	32	82	240	8	16	1	3	0.10	2.04	0.15	3.71	0.53	0.07	0.02	0.04
RS 36	P	<	18	12	57	8	<	<	1	<	<	<	12	23	202	<	36	66	330	12	20	2	4	0.09	2.59	0.28	3.04	0.80	0.09	0.02	0.06
RS 37	P	<	14	17	25	<	<	<	1	<	<	<	5	7	162	<	24	70	112	12	18	<	3	0.07	1.84	0.17	2.07	0.30	0.05	0.01	0.02
RS 38	P	<	14	2	10	<	<	<	<	<	<	<	2	2	65	<	4	22	35	2	17	<	<	0.04	0.48	0.18	0.74	0.06	0.03	0.04	0.04
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS

iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 08, 1993 Page 31 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
RS	39	<	7	<	15	<	<	<	<	<	<	<	4	3	53	<	6	34	138	2	10	<	1	0.04	0.54	0.11	1.13	0.09	0.03	0.03	0.04
RS	40	<	10	8	38	<	<	<	1	<	<	<	8	13	113	<	26	64	209	6	15	<	3	0.07	1.65	0.17	2.65	0.59	0.05	0.02	0.02
RS	41	<	26	17	48	<	<	<	<	<	<	<	12	24	219	<	37	61	362	9	19	3	4	0.08	2.51	0.25	3.03	0.73	0.08	0.02	0.05
R	64051	3.0	5270	142	285	397	19	<	192	<	<	1.4	23	11	189	<	63	41	2853	16	37	<	3	<	0.97	0.23	4.47	0.59	0.28	0.03	0.11
R	64052	30.7	3256	392	228	451	237	<	144	<	41	1.8	8	9	58	<	63	22	188	13	25	<	2	<	0.57	0.14	3.66	0.34	0.25	0.02	0.06
R	64053	32.1	1229	339	135	428	277	<	134	<	37	0.9	4	5	194	<	65	19	91	15	21	<	2	<	0.40	0.09	3.15	0.07	0.25	0.02	0.08
R	64054	0.5	3028	48	169	219	8	<	38	<	<	1.6	34	15	109	<	79	67	933	10	24	<	5	0.08	1.23	0.41	3.49	1.04	0.27	0.05	0.11
R	64055	0.4	3317	28	125	50	7	<	26	<	<	0.5	33	16	164	<	96	76	573	14	28	1	6	0.11	1.45	0.47	3.22	1.22	0.45	0.07	0.11
R	64056	0.4	2601	33	149	51	5	<	41	<	<	0.4	31	13	131	<	73	65	682	14	22	<	5	0.07	1.46	0.35	2.73	1.21	0.39	0.05	0.10
R	64057	0.5	1468	22	84	34	<	<	28	<	<	0.3	20	6	100	<	51	53	530	13	23	<	4	0.07	1.22	0.33	1.72	1.06	0.29	0.05	0.08
R	64058	0.6	1218	21	89	34	5	<	39	<	<	0.2	30	6	79	<	60	37	548	25	21	<	3	0.03	1.02	0.26	1.43	0.87	0.16	0.04	0.07
R	64059	0.5	1129	17	89	48	<	<	33	<	<	0.4	17	6	66	<	43	42	446	16	18	<	3	0.03	1.04	0.28	1.68	0.95	0.14	0.04	0.08
R	64060	0.6	1412	17	104	519	5	<	65	<	<	1.0	11	5	382	<	49	28	236	22	24	<	2	0.01	0.81	0.27	1.63	0.49	0.16	0.04	0.08
R	64061	0.7	687	21	45	1345	13	<	71	<	2	0.4	3	3	806	<	48	16	49	18	30	<	3	<	0.56	0.21	1.47	0.10	0.20	0.03	0.09
R	64062	0.7	270	29	58	467	9	<	136	<	<	0.3	3	4	349	<	56	21	73	16	25	<	2	0.01	0.65	0.17	1.53	0.24	0.20	0.04	0.07
R	64063	0.7	233	29	43	614	12	<	171	<	<	0.6	2	2	380	<	44	9	23	28	30	<	2	<	0.49	0.16	1.33	0.05	0.22	0.02	0.07
R	64064	0.4	157	14	34	426	7	<	281	<	<	0.2	2	3	379	<	62	<	24	12	20	<	1	<	0.42	0.10	0.75	0.03	0.19	0.02	0.04
R	64065	0.5	247	18	61	302	<	<	122	<	<	0.6	4	4	425	<	59	17	56	15	27	<	1	<	0.62	0.18	1.31	0.19	0.21	0.04	0.05
R	64066	0.6	559	22	91	377	7	<	107	<	<	1.3	10	5	206	<	66	18	212	11	20	<	2	0.01	0.63	0.18	1.40	0.22	0.21	0.04	0.04
R	64067	1.4	941	26	88	553	14	<	93	<	<	1.3	10	4	381	<	62	16	247	23	29	<	1	<	0.81	0.22	1.82	0.16	0.28	0.03	0.07
R	64068	0.4	1766	31	151	76	7	<	60	<	<	0.8	28	14	268	<	91	69	694	16	35	1	7	0.11	1.37	0.40	2.98	1.08	0.52	0.08	0.10
R	64069	2.8	1625	48	139	350	31	<	90	<	<	1.8	14	12	399	<	69	46	915	17	33	1	6	0.05	1.14	0.29	2.42	0.77	0.46	0.04	0.10
R	64070	1.4	628	75	112	286	21	<	97	<	<	1.1	7	5	395	<	60	16	610	24	43	<	2	<	0.66	0.17	1.83	0.15	0.33	0.03	0.06
R	64071	0.6	1268	32	86	1022	12	<	60	<	<	2.7	3	3	361	<	56	16	123	34	48	<	4	<	0.68	0.24	1.73	0.10	0.32	0.03	0.07
R	64072	0.3	921	22	158	177	5	<	37	<	<	0.8	12	17	323	<	99	75	273	15	42	1	7	0.12	1.37	0.43	3.36	1.15	0.53	0.09	0.12
R	64073	0.4	1026	25	173	390	7	<	43	<	<	1.1	24	16	260	<	86	66	1208	16	32	1	7	0.08	1.60	0.36	3.03	1.25	0.49	0.06	0.10
R	64074	0.4	924	30	165	49	<	<	36	<	<	0.4	19	18	173	<	107	81	771	19	35	1	7	0.10	1.84	0.43	3.13	1.67	0.53	0.08	0.11
R	64075	0.3	1073	27	150	51	<	<	17	<	<	0.7	28	18	159	<	97	80	972	14	34	1	6	0.14	1.56	0.51	3.18	1.48	0.42	0.09	0.11
R	64076	50.0	1179	277	91	268	401	<	145	<	75	0.9	8	9	19	<	34	6	37	10	9	1	4	<	0.31	0.06	3.51	0.05	0.19	0.01	0.02
R	64077	1.2	3145	24	132	20	8	<	62	<	<	0.4	14	13	80	<	95	73	392	13	27	4	5	0.11	1.59	0.47	3.27	1.50	0.37	0.08	0.10
R	64078	3.2	1922	89	89	809	72	<	71	<	<	1.0	5	6	181	<	42	25	97	13	38	1	4	0.01	0.78	0.34	2.26	0.37	0.23	0.02	0.07
R	64079	0.4	227	30	17	562	6	<	18	<	<	<	3	4	164	<	94	34	56	17	57	<	6	0.02	1.13	0.17	2.13	0.31	0.57	0.05	0.05
R	64080	0.7	113	32	6	1329	10	<	45	<	<	<	2	2	156	7	73	15	23	18	41	<	6	<	0.54	0.12	1.98	0.05	0.48	0.03	0.06
R	64081	0.7	100	21	9	411	<	<	21	<	<	<	2	2	192	<	52	24	32	19	56	<	6	0.01	0.78	0.18	1.69	0.18	0.46	0.04	0.10
R	64082	2.8	139	44	24	159	<	<	9	<	<	<	3	4	196	<	69	45	86	20	50	<	7	0.03	1.14	0.17	1.60	0.42	0.41	0.07	0.08
R	64083	1.2	153	88	48	203	5	<	23	<	<	<	5	6	173	<	86	66	226	21	47	<	7	0.05	1.75	0.18	2.07	0.98	0.51	0.07	0.09
R	64084	0.2	12	34	60	18	<	<	4	<	3	0.4	6	3	760	<	33	5	317	17	27	8	1	<	0.49	0.14	1.31	0.08	0.19	0.03	0.04
R	64085	0.2	11	30	58	22	<	<	3	<	<	0.4	6	4	139	<	39	8	243	22	26	11	1	<	0.55	0.39	1.71	0.13	0.20	0.04	0.04
R	64086	<	11	23	60	20	<	<	3	<	<	0.5	4	6	61	<	61	11	381	25	28	14	2	<	0.44	0.76	1.81	0.21	0.17	0.05	0.04
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS

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Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 08, 1993 Page 32 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
R 64087	P	<	12	15	45	18	<	<	2	<	<	0.2	4	4	91	<	52	15	285	21	25	16	2	<	0.46	0.66	1.75	0.32	0.10	0.04	0.04
R 64088	P	<	11	14	41	20	<	<	3	<	<	0.3	4	4	100	<	60	14	327	20	24	13	2	<	0.40	0.69	1.68	0.27	0.11	0.05	0.04
R 64089	P	<	27	14	56	17	<	<	2	<	<	0.3	5	5	62	<	66	16	386	19	49	13	2	<	0.41	1.14	1.78	0.31	0.15	0.05	0.04
R 64090	P	<	87	69	30	24	<	<	12	<	<	0.2	6	6	179	<	53	18	50	12	70	1	1	<	0.51	0.10	3.27	0.09	0.30	0.11	0.07
R 64091	P	0.1	70	20	39	14	<	<	3	<	<	<	7	10	199	<	86	42	147	12	95	1	5	0.08	2.44	0.52	1.93	0.91	0.59	0.23	0.08
R 64092	P	<	88	13	47	20	<	<	3	<	<	<	6	4	127	<	77	23	65	8	58	<	3	<	0.61	0.13	1.78	0.06	0.14	0.12	0.05
R 64093	P	0.1	73	46	31	10	<	<	5	<	<	<	2	3	198	<	97	10	37	16	41	<	1	<	0.48	0.09	1.48	0.07	0.25	0.09	0.04
R 64094	P	<	79	22	19	15	<	<	5	<	<	<	3	5	101	<	124	6	38	6	20	<	1	<	0.36	0.04	1.20	0.04	0.13	0.04	0.03
R 64095	P	0.1	84	12	18	5	<	<	3	<	<	<	3	3	140	<	82	18	41	11	61	<	2	<	0.67	0.09	1.60	0.09	0.16	0.12	0.04
R 64096	P	0.1	62	52	13	21	<	<	5	<	<	<	2	2	189	7	70	9	23	13	36	<	1	<	0.34	0.05	1.73	0.03	0.24	0.06	0.04
R 64097	P	0.2	142	21	22	10	<	<	4	<	<	<	3	3	130	<	69	30	50	17	64	<	2	<	0.67	0.11	2.20	0.22	0.18	0.12	0.06
R 64098	P	0.1	95	29	19	28	<	<	8	<	<	<	3	3	157	61	64	11	28	15	45	<	1	<	0.35	0.05	2.11	0.03	0.23	0.07	0.06
R 64099	P	0.1	51	25	12	6	<	<	9	<	<	<	2	2	244	<	68	7	23	13	49	<	1	<	0.42	0.06	1.48	0.04	0.26	0.08	0.04
R 64100	P	0.2	56	85	11	18	<	<	9	<	<	<	2	2	208	<	57	12	16	20	53	7	1	<	0.51	0.07	2.17	0.05	0.32	0.08	0.06
R 64101	P	1.6	47	21	5	387	14	<	108	<	<	<	1	1	130	<	89	7	19	18	45	<	3	<	0.40	0.04	2.69	0.02	0.56	0.04	0.06
R 64102	P	0.4	80	36	10	35	6	<	16	<	<	<	2	3	247	8	125	7	40	15	48	<	1	<	0.31	0.03	2.49	0.03	0.24	0.06	0.06
R 64103	P	<	9	9	7	25	<	<	6	<	<	0.2	3	3	65	<	83	4	35	6	13	<	<	<	0.33	0.05	1.91	0.02	0.12	0.08	0.04
R 64104	P	<	104	17	11	<	<	<	11	<	<	<	2	4	129	<	73	15	40	14	124	<	1	<	0.66	0.08	2.81	0.23	0.32	0.14	0.07
R 64105	P	0.8	93	38	15	38	<	<	45	<	<	<	1	3	157	<	108	3	32	12	9	3	<	<	0.32	0.01	1.03	0.01	0.20	0.08	0.01
R 64106	P	0.2	56	16	10	16	<	<	89	<	<	<	1	2	279	<	128	<	44	10	11	4	<	<	0.32	0.02	0.55	0.02	0.20	0.09	<
R 64107	P	0.4	76	15	3	12	<	<	20	<	<	<	2	4	118	<	110	12	24	7	79	1	1	0.01	0.23	0.02	4.59	0.02	0.50	0.12	0.08
R 64108	P	0.8	96	17	11	15	<	<	19	<	<	<	1	3	287	<	94	2	28	15	14	2	<	<	0.27	0.02	1.45	0.01	0.23	0.06	0.01
R 64109	P	0.1	64	12	16	11	<	<	26	<	<	<	1	4	381	<	166	2	43	7	19	1	<	<	0.32	0.02	1.12	0.01	0.21	0.09	0.01
R 64110	P	0.8	60	18	4	131	<	<	15	<	<	<	1	1	408	<	106	<	22	16	18	<	<	<	0.23	0.01	0.87	0.01	0.27	0.02	0.02
R 64111	P	<	6	13	13	10	<	<	4	<	<	<	1	2	62	<	110	5	62	2	12	<	<	<	0.26	0.03	0.64	0.06	0.14	0.07	0.01
R 64112	P	<	5	2	8	5	<	<	2	<	<	<	1	2	141	<	68	6	28	11	16	<	<	<	0.44	0.06	1.58	0.05	0.19	0.04	0.04
R 64113	P	<	4	15	32	16	<	<	3	<	<	0.5	3	5	129	<	60	6	158	19	31	12	1	<	0.42	0.39	1.85	0.11	0.17	0.04	0.04
R 64114	P	<	14	13	29	30	<	<	6	<	<	<	4	3	282	<	55	18	175	6	13	11	2	0.02	0.76	0.11	1.48	0.36	0.11	0.05	0.04
R 64115	P	2.6	3410	18	87	8	<	<	61	<	<	0.4	12	13	182	<	123	45	421	12	21	3	4	0.05	1.27	0.65	2.83	1.20	0.26	0.06	0.10
R 64116	P	0.5	528	10	22	<	<	<	15	<	<	<	3	3	262	<	64	11	100	4	24	<	1	0.01	0.50	0.12	1.65	0.23	0.21	0.04	0.03
R 64117	P	16.8	182	179	37	123	72	<	63	<	4	0.5	1	3	149	<	86	6	41	13	41	1	<	<	0.32	0.04	2.57	0.03	0.46	0.12	0.03
R 64118	P	2.5	1714	39	37	1614	33	<	127	<	<	1.5	2	3	701	<	52	11	53	17	22	2	2	<	0.59	0.15	2.49	0.04	0.29	0.01	0.08
R 64119	P	0.7	444	20	45	42	5	<	17	<	<	0.3	4	5	258	<	80	25	208	11	24	<	2	<	0.66	0.19	1.80	0.31	0.16	0.05	0.07
R 64120	P	0.4	540	19	82	488	84	<	7	<	<	0.9	10	8	50	<	32	19	2512	7	169	<	2	<	0.47	11.66	4.32	5.89	0.07	0.02	0.03
R 64121	P	<	17	12	64	37	<	<	3	<	<	<	15	10	58	<	102	34	546	8	43	<	2	0.07	1.25	0.62	2.64	0.94	0.08	0.08	0.09
R 64122	P	<	22	8	34	22	<	<	3	<	<	<	5	7	126	<	52	35	343	8	54	1	1	0.08	0.85	0.55	2.12	0.57	0.05	0.05	0.07
R 64123	P	0.4	1121	7	127	<	<	<	6	<	<	0.5	9	14	532	<	67	36	608	30	31	8	2	<	1.24	1.10	2.20	1.03	0.22	0.05	0.09
R 64124	P	0.7	666	53	210	12	<	<	27	<	<	1.3	8	7	118	9	68	22	497	27	14	5	2	<	0.45	0.19	1.80	0.06	0.19	0.04	0.08
R 64201	P	0.4	70	30	13	13	<	<	15	<	<	<	2	3	188	<	50	14	24	16	61	6	1	<	0.42	0.07	2.50	0.09	0.26	0.10	0.06
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

---=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

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CERTIFICATE OF ANALYSIS
iPL 93G0201

Client: Northern Analytical Laboratories iPL: 93G0201 Out: Jul 08, 1993 Page 33 of 33 Section 1 of 1
Project: 13949 1251 Pulp In: Jul 02, 1993 Certified BC Assayer: David Chiu

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
R 64202 P	0.5	166	19	16	17	<	<	9	<	<	0.2	2	2	105	<	60	17	29	15	49	1	1	<	0.35	0.06	1.92	0.04	0.15	0.09	0.06
R 64203 P	0.4	113	21	16	14	<	<	12	<	<	0.1	2	2	93	<	68	24	43	14	61	<	2	<	0.59	0.09	1.58	0.16	0.15	0.10	0.06
R 64204 P	0.2	121	17	22	19	<	<	21	<	<	<	4	3	76	<	75	33	82	8	45	<	3	0.02	0.94	0.12	1.74	0.34	0.18	0.07	0.06
Min Limit	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*	99.9	20000	20000	20000	9999	9999	9999	9999	999	999	99.9	999	999	9999	999	9999	999	9999	9999	9999	999	99	1.00	99.99	99.99	99.99	9.99	9.99	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

--=No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max=No Estimate

APPENDIX B

Rock Sample Location and Description

Rock Sample Location and Description Record 1993							
Project: Granite Mountain Area: Carmacks, Yukon, NTS 115I/6&7 Sampler: RD							
Sample Number	Location	Description	Wdth	Au ppb	Ag ppm	Cu ppm	Mo ppm
R64101	10475N/10050E	Strong quartz-tourmaline stockwork in argillically altered granodiorite.	Grab	21	1.6	47	108
R64102	10425N/10135E	Same as R64101	Grab	30	0.4	80	16
R64103	10350N/10300E	Same as R64101	Grab	18	<.1	9	6
R64104	10300N/10450E	Same as R64101	Grab	23	<.1	104	11
R64105	10500N/9920E	Brecciated rhyolite with hairline quartz stockwork.	Grab	18	0.8	93	45
R64106	10400N/9710E	Same as R64105	Grab	19	0.2	56	89
R64107	10550N/10050E	Quartz-tourmaline stockwork in bleached granodiorite.	Grab	10	0.4	76	12
R64108	10490N/9870E	Moderately silicified quartz porphyry. Minor quartz stockwork.	Grab	17	0.8	96	19
R64109	10535N/9620E	Same as R64108	Grab	39	0.1	64	26
R64110	10485N/9600E	Same as R64108	Grab	25	0.8	60	15
R64111	10750N/9450E	Same as R64108	Grab	9	<.1	6	4
R64112	10725N/9620E	Same as R64108	Grab	7	<.1	5	2
R64113	11100N/10100E	Silicified granodiorite. Aphanitic blue-grey matrix with minor pyrite, galena and chalcopyrite.	Grab	14	<.1	4	3
R64114	11300N/10800E	Moderately silicified biotite quartz monzonite. 1-3% limonite.	Grab	12	<.1	14	6

Rock Sample Location and Description Record 1993							
Project: Granite Mountain Area: Carmacks, Yukon, NTS 115I/6&7 Sampler: RD							
Sample Number	Location	Description	Wdth	Au ppb	Ag ppm	Cu ppm	Mo ppm
R64115	10000N/9950E	Chloritic biotite quartz monzonite. Minor quartz stockwork with 1% disseminated chalcopyrite.	Grab	34	2.6	3410	61
R64116	10625N/9300E	Argillically altered quartz porphyry with minor quartz stockwork. 1% disseminated pyrite.	Grab	57	0.5	528	15
R64117	9925N/10125E	Bleached, moderately silicified intrusive. Minor pyrite. Alteration is east-west striking in trench.	Grab	41	16.	182	63
R64118	10125N/10000E	Same as R64117. Alteration northwest striking in trench.	Grab	140	2.5	1714	127
R64119	9550N/9560E	Limonitic biotite quartz monzonite with hairline quartz stockwork.	Grab	18	0.7	444	17
R64120	9325N/9560E	Limonitic silicified breccia. 1-2% disseminated pyrite.	Grab	27	0.4	540	7
R64121	9290N/9560E	Silicified granodiorite. Aphanitic blue-grey matrix with 1% pyrite.	Grab	15	<.1	17	3
R64122	9340N/9400E	Moderately silicified biotite quartz monzonite. 1% pyrite.	Grab	14	<.1	22	3
R64123	10000N/9225E	Chloritic biotite quartz monzonite with 0.5-1% chalcopyrite.	1m chip	11	0.4	1121	6
R64124	9875N/10275E	Argillically altered biotite quartz monzonite. Minor pyrite.	Grab	19	0.7	666	27