

ASSESSMENT REPORT

ROSY 1-26 CLAIMS

Whitehorse Mining District, Y.T.

YMPIP CONTRIBUTION AGREEMENT 93-088

Location: 1. 68 km NE of Whitehorse, Y.T.
2. NTS 105 C/13
3. Latitude 60°55' N
Longitude 133°52' W

For: **Mr. Alex Black**
P.O. Box 634
Watson Lake, Yukon,
Y0A 1C0

By: R. Allan Doherty, B.Sc., P.Geo.
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November 15, 1993

Aurum Geological Consultants Inc.

TABLE OF CONTENTS

TABLE OF CONTENTS	i
INTRODUCTION	1
LOCATION AND ACCESS	1
HISTORY	3
PROPERTY	4
TOPOGRAPHY, CLIMATE, VEGETATION	4
GEOLOGY	6
Regional Geology	6
Property Geology	6
Exploration Model	7
EXPLORATION RESULTS	8
1992 Exploration Results	8
1993 Exploration Results	8
CONCLUSIONS AND RECOMMENDATIONS	11
REFERENCES	12
STATEMENT OF QUALIFICATIONS	13
STATEMENT OF COSTS	14

List of Figures

Figure 1:	Location Map	2
Figure 2:	Claim Map (1:30,000)	5
Figure 3:	Geology and Geochemistry(1:1,000)	pocket
Figure 4:	Gold in Rock & Soil Histograms	9

List of Appendices

Appendix A:	Analytical Results
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INTRODUCTION

This report was prepared at the request of Mr. Alex Black, Mr. Mike Elson, and Mr. Lance Steigenberger, the joint owners of the Rosy 1-26 Claims, known collectively as the Rosy Lake Property. The Rosy Lake Property is subject to a Yukon Mining Incentive Program (YMIP 93-088) contribution agreement. This report on the work completed satisfies the reporting requirements of the Department of Economic Development, Government of Yukon, who administer the YMIP program, and assessment requirements under the Yukon Quartz Mining Act.

The claims are located on the east side of Rosy Lake, which is 68 km northeast of Whitehorse, Yukon.

There is no record of previous claims in the area. The nearest mineral occurrences are at Red Mountain, where a porphyry molybdenum mineralization occurrence has been worked. A number of small gold-silver, and base metal veins are reported nearby. The first report of mineralization in the Rosy Lake area comes from the GSC, who reported minor chalcopyrite and pyrite in a quartz vein located 2.5 km south of the current area of interest.

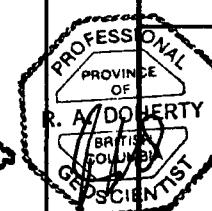
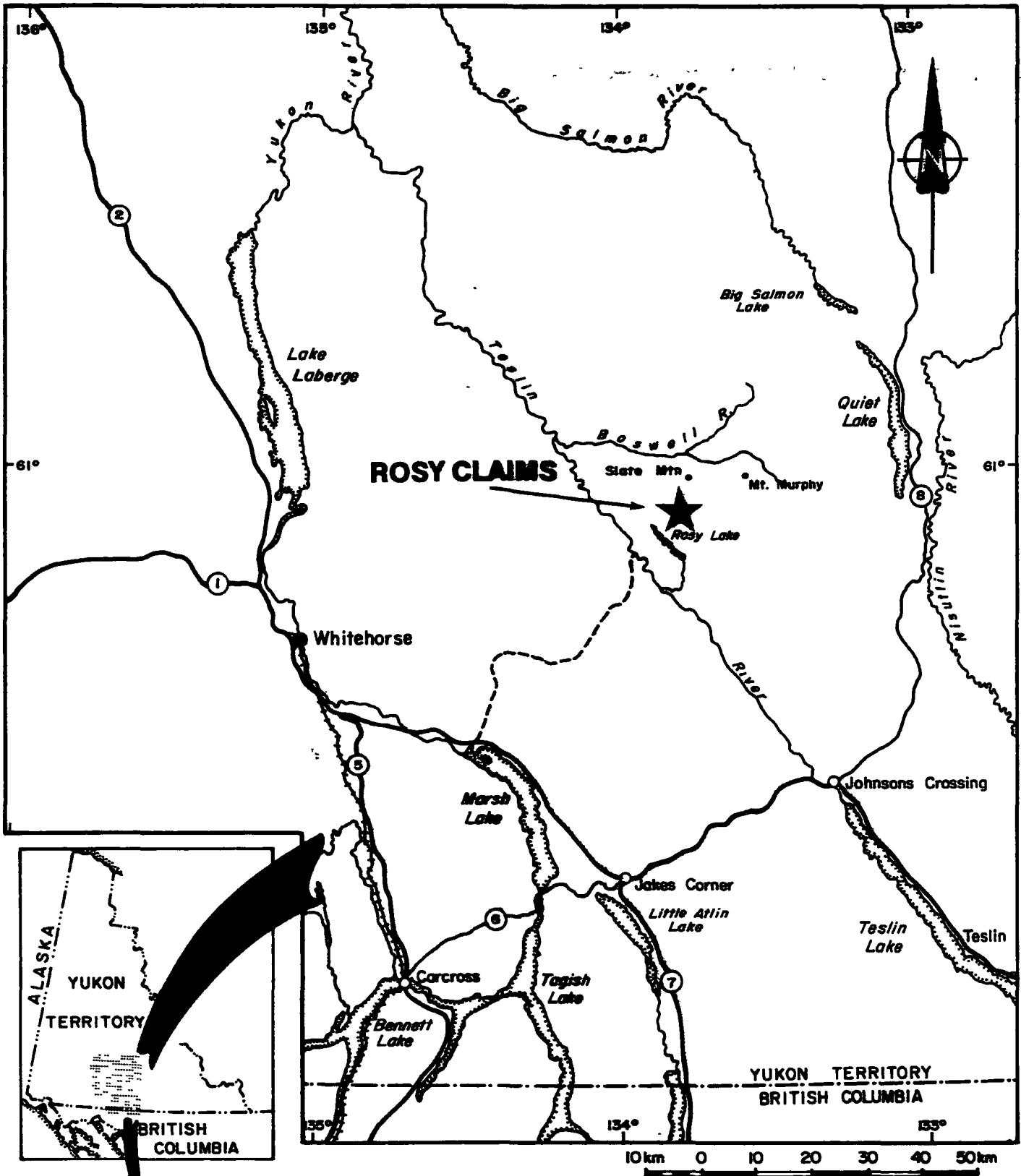
The exploration program at Rosy Lake was designed to follow up anomalous stream silt and rock samples collected by Mr. Alex Black on the property in 1992. Approximately 35 man days were spent on the property collecting contour soil samples, rock samples, and prospecting. The author visited the property twice, on June 3rd & 4th, and again on June 18th, 1993.

This report is based on these visits and on field maps and information supplied by the prospectors.

LOCATION AND ACCESS

The Rosy 1-26 Claims are located in southern Yukon, on NTS map area 105 C-13 (Figure 1). A point at the centre of the property is located at 60° 55' 30" N latitude and 133° 52' 20" W longitude. The claims are all on the east side of Rosy Lake.

The claims are accessible by float plane from Whitehorse to Rosy Lake, a distance of some 68 km by air. The nearest road access is by way of a tote trail up Sidney Creek from the South Canol Road. At its' nearest point, this tote trail passes within 10 km northeast of the property.



ROSY CLAIMS

LOCATION

HISTORY

Quartz veins with minor chalcopyrite were first reported in the Rosy Lake area by the GSC, (Lees 1936; Bostock 1936). According to Yukon Minfile #105C-024, a grab sample of the chalcopyrite bearing vein returned 0.3% Cu, 6.86 g/t Ag, and 1.37 g/t Au. It is not known if any prior claims were located in this area. This showing is apparently located on a northwest facing ridge, at the 4000 foot elevation just south of the claim block. This showing was not relocated.

The Red Mountain property, located approximately 11 km northeast of Rosy Lake, has drill indicated reserves of 187,270,000 tonnes grading 0.167% MoS₂, occurring in a central quartz stockwork which cuts a mid Cretaceous quartz-monzonite porphyry stock, (Yukon Minfile #105C-009). Most of the work on the Red Mountain Property was completed between 1968 and 1982.

The Slate occurrence (Yukon Minfile 105C-008), located 10 kilometres northeast of Rosy Lake, consists of a 0.6 m wide galena and sphalerite rich quartz vein which cross-cuts talc-chlorite schist of the Big Salmon Complex. Yukon Minfile #105C-008 reports four assays; one of which returned 1265.11 g/t Ag, 31.5% Pb, and 6.6% Zn across a 0.6 m vein on the Slate occurrence.

The Sawas occurrence (Yukon Minfile #105C-047) is located 9 km northeast of Rosy Lake. Quartz-carbonate alteration zones are found at the margins of amphibolite and diorite. The alteration described on the Sawas occurrence is similar to that found on the Rosy Property. All-North Resources Ltd. located quartz float that assayed 1.3 g/t Au, 102 g/t Ag.

The Rosy occurrence (Yukon Minfile #105C-024) is located approximately 2 km south of the Rosy Claims. Mineralization described in the Rosy occurrence was first reported by the GSC (Lees 1936). The geological description in Yukon Minfile reports a grab sample assaying 0.3% Cu, 0.2 oz/ton Ag, and 0.04 oz/ton Au in quartz veins cutting volcanic rocks. The assays reported in Yukon Minfile were not found in either reference cited for that occurrence.

The Rosy 1-6 claims were staked by Mr. Alex Black after discovering chalcopyrite in hornblendite sills while prospecting the area in 1992. During the 1992 prospecting season, Alex Black collected 25 stream silt samples, 16 rock samples, and 14 soil samples. From a total of 55 samples collected, 18 returned analyses with greater than 75 ppb gold. The highest value returned was 1078 ppb gold in a stream silt sample collected on the creek draining the southeast side of the claims. The Rosy 7-26 Claims were added during property work completed in June 1993. This program consisted of prospecting, mapping, soil and rock sampling.

PROPERTY

The Rosy Lake Property consists of 26 contiguous mineral claims staked in accordance with the Yukon Quartz Mining Act. The Rosy 1-26 Claims cover an area of approximately 500 ha (1235 acres); and are located on Yukon Quartz and Placer claim sheet 105C-13, (Figure 2). Claim data is as follows:

CLAIM NAME	GRANT NO.'S	RECORDING DATE	EXPIRY DATE *
Rosy 1-7	YB36993-998	Sept. 04, 1992	Sept 04, 1993
Rosy 9-26	YB38019-038	June 22, 1993	June 22, 1994

expiry dates are subject to approval of 1993 assessment work.

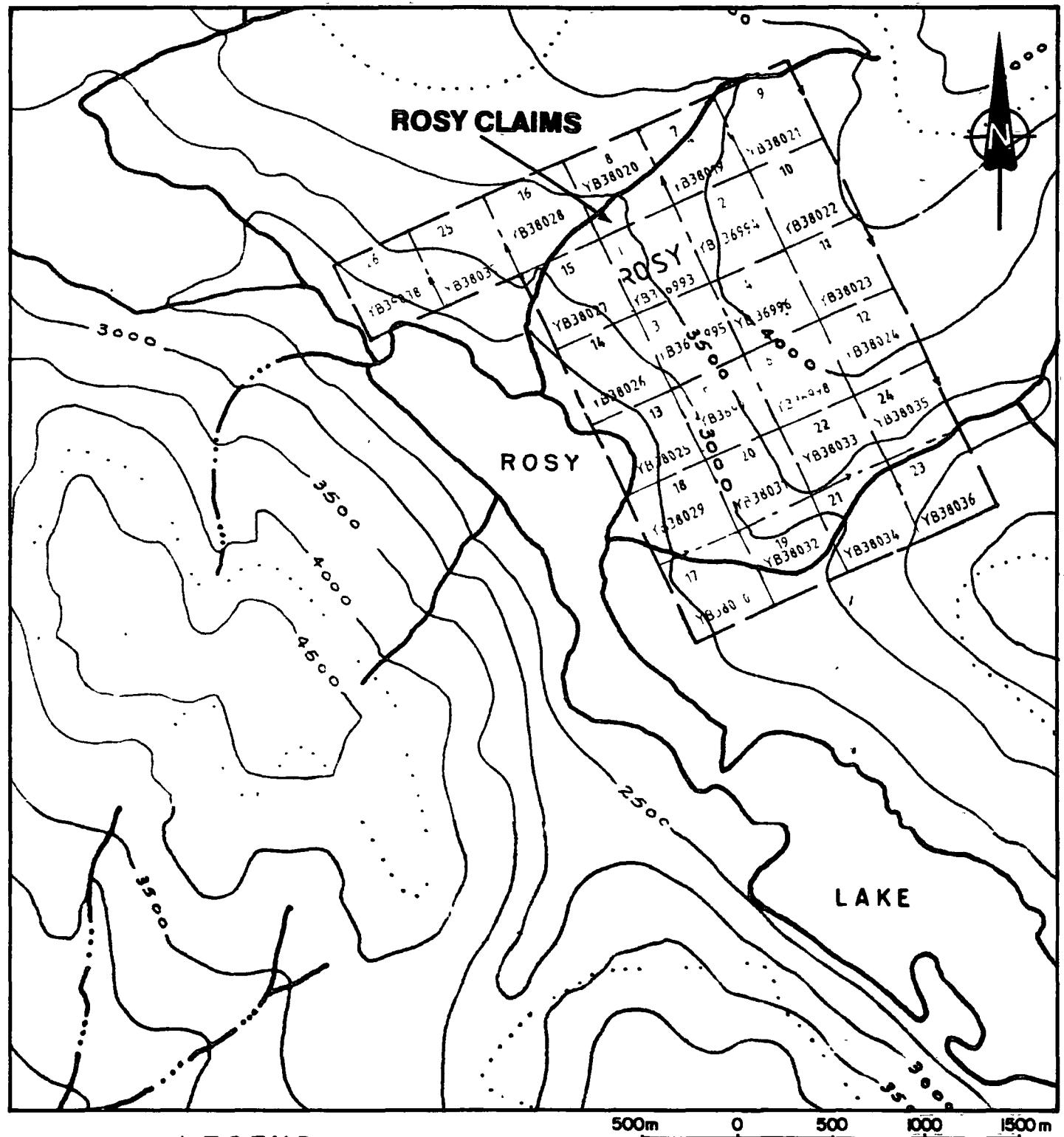
The Rosy 1-6 claims were staked by Alex Black in 1992. He subsequently entered into a grubstake agreement with Mr. Mike Elson and Mr. Lance Steigenberger.. Each of the parties now holds an undivided 1/3rd interest in the property.

TOPOGRAPHY, CLIMATE, VEGETATION

The Rosy Lake area is located within the Yukon Plateau physiographic region. The topography of this area of southern Yukon is characterized by subdued, generally rounded, mountains. Some of the higher mountain ranges in the Teslin map area are found in the northwest corner of the map area. The Big Salmon and the Sawtooth Ranges reach elevations of greater than 6000 feet and are more rugged than other mountain ranges in the Teslin map area. Rosy Lake lies within a valley between two northwest trending mountain ranges. The topography rises sharply from the lake shore up to the top of the ridges. Rosy Lake drains from its' southeast end into the Swift River which then flows east into the Teslin River.

The climate in this area of the Yukon is typical for these latitudes in the western Cordilleran region. Winters are long and moderately cold. Summers are hot with variable precipitation, depending on the summer. Generally annual precipitation does not exceed 40 cm per year.

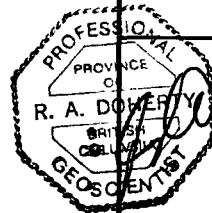
Vegetation consists of white spruce, lodgepole pine, and alpine fir as the main coniferous trees. Willows form dense thickets in the wetter valley bottoms and at lake sides. Treeline generally follows the 4500' elevation contour, above which alpine shrubs and grasses take over as the dominant ground cover.



LEGEND

- claim boundary
- claim number
- tag number
- 4WD trail
- creek, lake
- elevation contour; interval 500 ft.

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



ROSY CLAIMS

CLAIM MAP

Aurum Geological Consultants Inc.

MAY 1993

NTS 105C/13 DRAWN BY JVR SCALE 1:30,000 FIGURE: 2

GEOLOGY

Regional Geology

The geology of the Teslin map area was first reported on by Hayes (1892), who recorded observations made during a trip down the Teslin River. Lees (1936) mapped the northwestern part of the Teslin Map area. The most recent map of the Teslin area was completed by Mulligan (1963). Since then, regional geological interpretations of the northern Cordillera have changed substantially and the Teslin area is in need of new mapping and interpretation.

The northeast corner of the Teslin map area comprises a number of distinct terranes, including: Slide Mountain, Nisutlin, and Quesnellia. These terranes are juxtaposed along the Teslin Suture Zone, which represents the vestiges of the Anvil Ocean which closed during middle Jurassic arc-continent collision (Templeman-Kluit, 1979).

The Nisutlin Terrane is part of the pericratonic Kootenay Terrane (Wheeler & McFeely 1991) or using more recent nomenclature, it is a part of the Yukon Tanana Terrane. This terrane is comprised of continental margin sedimentary rocks and a granitoid belt, built on autochthonous North American basement (Hansen 1990). The Slide Mountain Terrane is composed of weakly metamorphosed Devonian to Triassic oceanic rocks and Permian arc-related rocks, which were accreted to North America during the late Jurassic and early Cretaceous. Rocks of the Quesnellia Terrane outcrop on the southwest side of the Teslin Suture Zone and consist of upper Triassic and Lower Jurassic arc volcanics, volcaniclastics and co-magmatic intrusive rocks. The Tectonic Assemblage Map of the Canadian Cordillera (Wheeler and McFeely 1991) shows Nisutlin assemblage rocks overthrust by Quesnellia rocks from the west and Slide Mountain terrane from the east. The assembled terranes were later intruded by Cretaceous granodiorite. One problem with the geology is that ultramafic rocks commonly associated with Slide Mountain Terrane are shown as intrusive into the Nisutlin Assemblage. Recent age dating of hornblendes from the diorites near Rosy Lake has yielded a mid Jurassic age of 188 Ma, (R. Stevens, in press).

Property Geology

The Rosy Lake Property is underlain by two distinct packages of rocks. A structurally lower unit comprised of quartz-sericite schist and quartzite of the Upper Proterozoic to Triassic Nisutlin Assemblage, which is overlain by amphibolite and related mafic and ultramafic rocks. It is uncertain if these ultramafics are part of the Slide Mountain Terrane. The ultramafics appear to be emplaced as sills or dykes into mafic schists and greenstones. The contact relations between the overlying Slide

Mountain lithologies and the Nisutlin lithologies is commonly obscured by overburden. Elsewhere in the Yukon, Slide Mountain terrane is found in thrust contact with the underlying Nisutlin Assemblage which may be the case in the Rosy Lake area, however, more detailed mapping is required to determine if these units are indeed Slide Mountain Terrane. Augite phryic flows and fine felsic metavolcanics are also found within this package of rocks above Rosy Lake.

The Nisutlin micaceous quartzites and quartz-sericite schists are commonly cut by numerous ribboned quartz and quartz-calcite veinlets and in some areas are weathered to a reddish colour coloured due to the presence of hematite. Pyrite occurs as disseminations up to 1-2% in some areas. The quartzites and sericite schists have a strong lineation fabric and are commonly complexly folded.

Hornblendite and related mafic lithologies are less deformed and commonly display a "listwanite" alteration assemblage at the margins of the ultramafic bodies. The Hornblendite is altered to a mixture of iron-carbonate, ankerite, calcite and minor green mariposite (chrome mica). This alteration assemblage is commonly associated with "motherlode type" mesothermal gold deposits.

The property geology is shown on Figure 3. One large area of carbonate-mariposite alteration was mapped on the Rosy 2 Claim. Some small areas of white weathering fine grained felsic volcanics are found intercalated with the hornblendite and mafic schists. The best outcrop of this lithology occurs just above the main carbonate alteration zone on the Rosy 2 Claim.

Exploration Model

The geochemical results obtained in 1992, along with the lithologies and alteration assemblage exposed in the rocks above Rosy Lake indicate that the area may have potential to host "motherlode style" mesothermal gold deposits as described in Cox and Singer, 1986. This model has been used in regional exploration for gold in the Atlin camp and in the Marsh Lake belt south of Whitehorse, where mineralization of this type is known to occur.

In this model, quartz veins consisting of strongly deformed ribboned quartz, containing native gold, pyrite, galena, sphalerite, arsenopyrite and chalcopyrite are localized along regional high angle faults, in any of - greenstones; oceanic sediments; regionally metamorphosed volcanic rocks, or Alpine gabbro and serpentine. Alteration assemblages associated with this deposit type consist of quartz and siderite, or ankerite, and albite in the veins with a carbonate halo in surrounding wallrock. Geochemical signatures associated with these deposits include elevated values for As, Ag, Pb, Zn, and Cu. Higher than background values for W, Bi, Sb, Mo and Fl are the geochemical signatures associated with the veins.

EXPLORATION RESULTS

1992 Exploration Results

In 1992, Alex Black collected 14 rock, 16 soil, and 25 stream silt samples in the Rosy Lake area. A number of these samples returned significantly anomalous gold values. From a total of 55 samples collected, 29 samples returned gold values greater than 50 ppb Au. Three creeks draining into Rosy Lake on the northeast side returned anomalous gold in stream silts that range between 230 ppb Au and 1078 ppb Au. A line of soil samples, collected in 1992, along the claim line between Rosy 1-4 claims (BL on Figure 3), returned 10 of 14 samples with gold values greater than 67 ppb. The 1992 anomalous sample results are plotted on Figure 3 using solid symbols as opposed to open symbols for the 1993 anomalous results.

1993 Exploration Results

The 1993 exploration work consisted of contour soil sample lines parallel to the "BL" line (Figure 3). A total of 330 soil samples and 75 rock samples were collected on the Rosy Claims in 1993.

Five contoured soil lines were completed along and below the hornblendite at the prominent slope break above Rosy lake. The soil lines are approximately one to four hundred metres apart with stations every 50 m. The contour soil lines vary between slightly over one to three km in length. Anomalous (>95%tile) values for gold range from 67 ppb to a high of 752 ppb gold. The 1993 soil geochemical results from the "BL" line did not reproduce the high gold in soil values reported in 1992. Most anomalous values cluster about the area where "listwanite" altered hornblendite and related mafic and ultramafic rock crop out. Most anomalous samples on the baseline also coincide with the trace of the intrusive contact between hornblendite and quartz-sericite schist. Some of the anomalies may be caused by gold associated with quartz veins within quartz-sericite schist, however, this has not been confirmed. Limited rock sampling on nearby outcrops has not returned any significantly anomalous gold values.

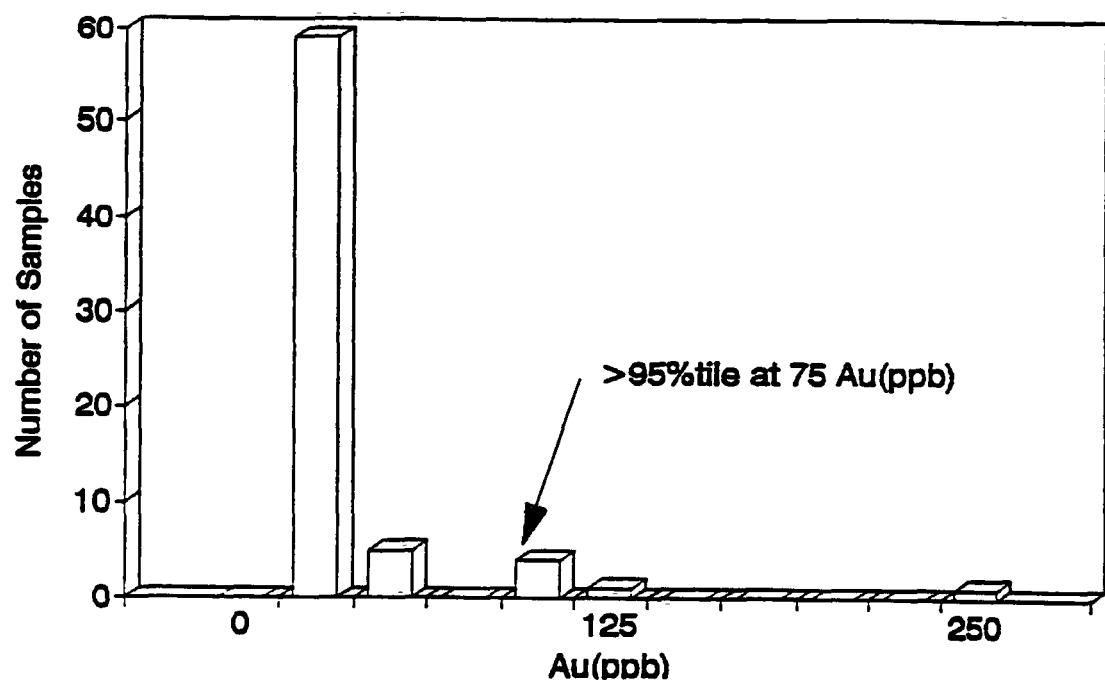
Three rock samples collected in the area of listwanite altered hornblendite returned anomalous values of 78 ppb Au, 82 ppb Au, and 244 ppb Au. The latter two samples were from outcrops of quartz-sericite schist and probably reflect the presence of quartz veins within the schist. Two rock samples were collected from outcrops of quartz-sericite schist beside the creek on the southeast side of the claim block (Rosy 20 claim). These samples returned 80 ppb Au and 99 ppb Au. Geochemical results are presented in Appendix A.

Geochemical statistics have been compiled for all rock and soil samples collected during the 1993 work program. It is assumed that values above the 95%tile in a given population are anomalous. Samples greater than the 75 ppb Au level for both rock and soil geochemical results from the Rosy Lake area are considered to be anomalous. The 75 ppb gold level corresponds to the 95%tile. Histograms for gold in soils and rocks are presented in Figure 4.

All sample locations have been plotted on Figure 3, but only the anomalous values (>95%tile) have been plotted beside sample locations.

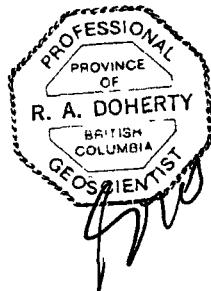
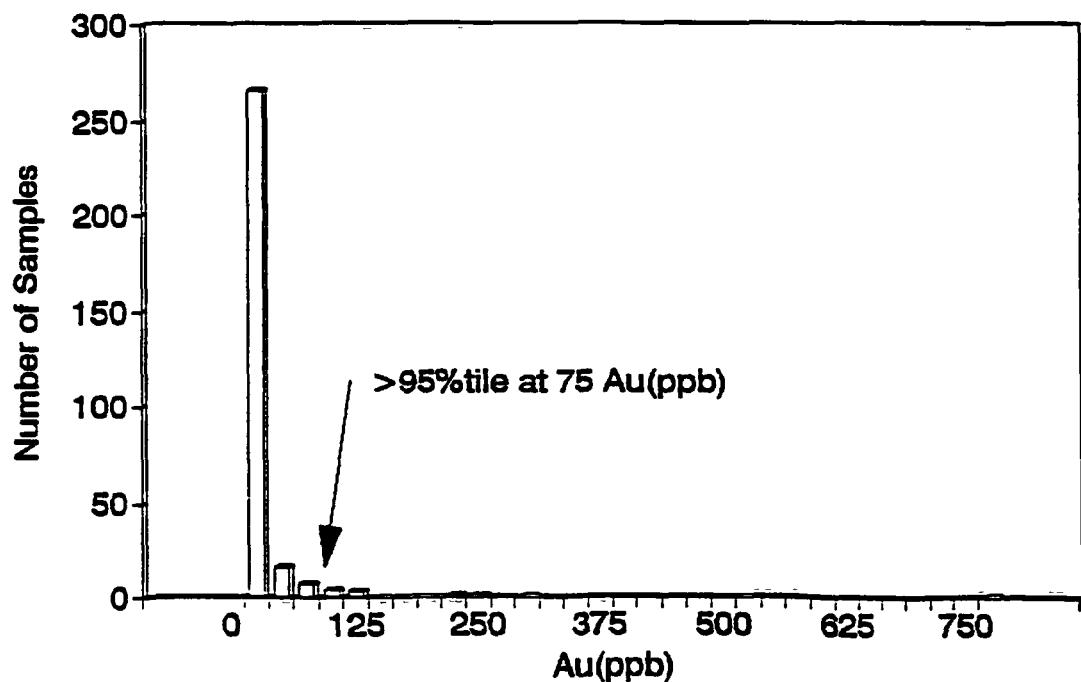
ROSY LAKE GOLD IN ROCKS

HISTOGRAM-Number of samples vs Au(ppb)



ROSY LAKE GOLD IN SOILS

HISTOGRAM-Number of samples vs Au(ppb)



CONCLUSIONS AND RECOMMENDATIONS

The Rosy Lake property covers an area of quartz-sericite schist that has been intruded by a hornblendite sill or dike displaying strong "listwanite" style alteration. Prospecting completed by Mr. Alex Black in 1992 indicated moderately strong gold geochemical anomalies in stream sediment samples collected from creeks draining the high ridge east of Rosy Lake. Based on this preliminary work, an expanded program of soil and rock sampling was completed in 1993.

Results from the 1993 sampling program indicate that scattered gold in soil anomalies occur on the slopes east of Rosy Lake mainly along the 1100 m contour line just below the hornblendite sill, but also at lower elevations on contour lines that run along areas underlain by quartz-sericite schist. A total of 18 soil samples contain gold values above the 95%tile for gold and these 18 samples contain an average of 156 ppb Au. Anomalous samples range between 67 and 752 ppb Au. Rock samples collected from outcrops returned five anomalous values between 78 and 244 ppb Au.

Anomalous stream sediment samples collected from creeks on the north and south side of the claim block remain unexplained. These anomalies should be further investigated.

It is recommended that additional work be carried out on the Rosy Lake property in an attempt to locate bedrock sources for the gold in soil anomalies. Particular attention should be paid to those areas located within overburden filled topographic lows adjacent to the hornblendite sill and areas of listwanite alteration. This work program should concentrate on rock sampling in areas adjacent to geochemical soil anomalies.

A one to two week work program with a three man crew should be sufficient to thoroughly sample and prospect the area. It is anticipated that a two week work program could be completed for a sum of \$20,000.

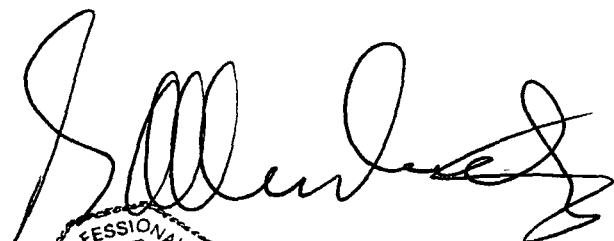
REFERENCES

- Bostock, H.S., 1936. Preliminary Report, Prospecting Possibilities of the Teslin-Quiet Lake-Big Salmon Area, Yukon, Canada Department of Mines, Paper 36-2.
- Cox, D.P., and D.A. Singer., 1986. Mineral Deposit Models. USGS Bull 1693.
- Lees, E.J., 1936. Geology of Teslin-Quiet Lake Area, Yukon. Canada Department of Mines, Memoir 203.
- Hayes, C.W. 1892. An Expedition through the Yukon District; National Geographic Magazine. Vol 4.
- Hansen, V.L.. 1990. Yukon-Tanana terrane: A partial acquittal: Geology, v 18, p. 365-369.
- Mulligan, R.. 1963. Geology of Teslin Map-Area, Yukon Territory(105C). Geological Survey of Canada. Memoir 326.
- Tempelman-Kluit. D.J., 1979. Transported Cataclasite, Ophiolite and Granodiorite in Yukon: Evidence of Arc-Continent Collision. Geol. Surv. Can. Paper 79-14.
- Yukon Minfile. 1992. Northern Cordilleran Mineral Inventory: Exploration and Geological Services , Department of Indian and Northern Affairs, Whitehorse, Yukon.
- Wheeler, J.O. and McFeely, P., 1991. Tectonic Assemblage Map of the Canadian Cordillera and adjacent parts of the United States of America; Geol. Surv. Can., Map 1712A. scale 1:2.000,000.

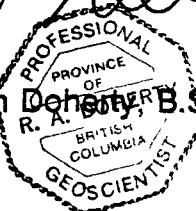
STATEMENT OF QUALIFICATIONS

I, R. Allan Doherty, hereby certify that:

1. I am a geologist with AURUM GEOLOGICAL CONSULTANTS INC., 205 - 100 Main Street, P.O. Box 4367, Whitehorse, Yukon, Y1A 3T5.
2. I am a graduate of the University of New Brunswick, with a degree in geology (Hons. B.Sc., 1977) and that I attended graduate school at Memorial University of Newfoundland, 1978-80. I have been involved in geological mapping and mineral exploration continuously since then.
3. I am a member of the Association of Professional Engineers and Geoscientists of the Province of British Columbia, Registration No. 20564 and the CIMM.
4. I am author of this report based on information collected during property visits completed on June 3rd 4th and 14th 1993, and on referenced sources.
5. I have no direct or indirect interest in the properties or securities of Alex Black, Mike Elson, or Lance Steigenberger.
6. I consent to the use of this report by the owners of the Rosy Claims, provided that no portion is used out of context in such a manner as to convey a meaning differing materially from that set out in the whole.



R. Allan Doherty, B.Sc.



The seal is circular with the following text:
PROFESSIONAL
PROVINCE OF
R. A. DOHERTY
BRITISH COLUMBIA
GEOSCIENTIST

November 15, 1993

STATEMENT OF COSTS

1993 ASSESSMENT WORK VALUATION: ROSY 1-26 Claims, 105 C/13

Geological and Geochemical

A. Field work:

A. Doherty, P.Geo., Whitehorse, Yukon June 3-5, 1993; 2.5 days @\$320/day	\$800.00
A. Black, Prospector, Watson Lake, Yukon June 3-21, 1993; 23.0 days @\$200/day	\$4,600.00
B. Sauer, Prospector, Surrey, B.C., June 3-21, 1993; 27.0 days @ \$200/day	\$5,400.00
J. Charlie, Assistant, Whitehorse, Yukon June 3-17, 1993; 14 days @ \$180/day	\$2,520.00
H. McDonald, Assistant, Vancouver, B.C., June 3-10, 1993; 7 days @ \$180/day	\$1,260.00

B. Geochemical Analyses:

Northern Analytical (13931,13942,13959)	\$7,579.08
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C. Support Costs:

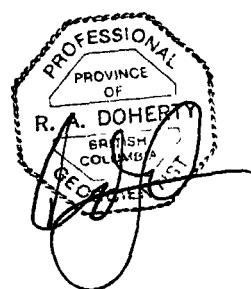
Fixed Wing, (Resource Air- Jun 07, 314,315)	\$1,394.00
Food & Supplies. (Food Fair- 9012,9152)	\$ 396.83
Miscellaneous (Sample bags, flagging etc.)	\$289.34

D. Research and Report:

Report, fixed cost	\$1,500.00
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E. Goods and Services Tax: \$ 865.88

TOTAL Valuation of 1993 Assessment work: **\$26,605.13**



APPENDIX A
GEOCHEMICAL LAB REPORTS

28-Jun-93 date

Assay Certificate

Page 1

Aurum Geological

WO 13931

Sample AU ppb Proj. 11

CL1	000	14
	025S	14
	050S	20
	075S	21
	100S	23
	125S	21
	150S	19
	175S	24
	200S	16
	225S	36
	250S	78
	275S	32
	300S	23
	325S	<5
	350S	10
	375S	5
	400S	7
	425S	<5
	450S	23
	475S	6
	500S	<5
	525S	<5
	550S	6
	575S	11
	600S	<5
	625S	63
	650S	72
	675S	7
	700S	<5
	725S	78
	750S	<5
	775S	23
	800S	8
	825S	7
	850S	18
	875S	10
	900S	8
	925S	6
	950S	<5
	975S	I.S.
	1000S	13
CL2	000	27

Certified by

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28-Jun-93 date

Assay Certificate

Page 2

Aurum Geological

WO 13931

Proj. 11

Sample	AU ppb
025	7
050S	45
075S	6
100S	5
125S	6
150S	15
175S	15
200S	5
225S	10
250S	12
275S	7
300S	45
325S	6
350S	45
375S	45
400S	9
425S	45
450S	45
475S	45
500S	45
525S	7
550S	37
575S	45
600S	45
625S	45
650S	45
675S	45
700S	45
725S	45
750S	45
775S	11
800S	5
825S	8
850S	45
875S	229
900S	19
925S	5
950S	7
975S	5
1000S	17
CL3 000	45
025S	7

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28-Jun-93 date

Assay Certificate

Page 3

Aurum Geological

WO 13931

Proj. 11

Sample	AU ppb
050S	<5
075S	<5
100S	5
125S	7
150S	<5
175S	10
200S	6
225S	8
250S	39
275S	32
300S	10
325S	39
350S	20
375S	13
400S	12
CL5 000	22
025S	14
050S	10
075S	8
100S	11
125S	9
150S	11
175S	6
200S	10
225S	8
250S	14
275S	11
300S	10
325S	12
350S	14
375S	12
400S	6
425S	8
450S	10
475S	11
500S	9
525S	15
550S	13
575S	11
625S	22
650S	25
675S	12

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28-Jun-93 date

Assay Certificate

Page 4

Aurum Geological

WO 13931

Proj. 11

Sample	AU ppb
700S	12
725S	10
750S	5
BL+00 00+00	16
BL0+00 0+25S	29
0+50S	16
0+75S	10
1+00S	12
1+25S	7
1+50S	9
1+65S	7
1+75S	110
2+00S	11
2+25S	15
2+35S	12
2+50S	13
2+75S	9
3+00S	13
3+25S	45
3+50S	5
3+75S	45
4+00S	11
4+25S	7
4+50S	45
4+75S	5
5+00S	6
5+25S	10
5+50S	9
5+75S	11
6+00S	45
6+25S	13
6+50S	45
6+75S	12
7+00S	6
7+25S	300
7+50S	6
7+75S	9
8+00S	6
8+25S	12
8+50S	11
8+75S	9
9+00S	6

Certified by



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Page 5

Aurum Geological

WO 13931

Proj. 11

Sample	AU ppb
9+25S	<5
9+50S	<5
9+75S	9
10+00S	6
9361001	244
9361001 KP	82
9361002	41
9361003	11
9363004	14
9363005	29
9363006	22
9363010	17

Certified by



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



12-Jul-93 date

Assay Certificate

Page 1

Aurum Geological

WO 13959

Proj. 11

Sample	Au ppb
9361032	5
1033	<5
1034	<5
1035	<5
1036	5
1037	<5
1038	<5
3039	101
9361043	5
1044A	9
1045	6
1046 A	6
3046	5
1047	17
1048	9
3049	10
1050	5
1051	<5
9361052	6
1053	6
1054	8
1055	5
3056	27
9363057	6
9354046	6

Certified by



29-Jun-93 date

Assay Certificate

Page 1

Aurum Geological

WO 13942

Proj 11

Sample	Au ppb
BL 1025S	45
1050S	45
1075S	45
1100S	45
1229S	3
1300S	5
1400S	75
1516S	45
1600S	45
CL3 425S	45
450S	0
475S	45
500S	45
525S	45
550S	0
CL3 575S	3
600S	45
625S	5
650S	6
675S	5
700S	10
725S	9
750S	15
775S	9
CL3 800S	11
825S	11
850S	12
875S	11
900S	11
925S	11
950S	10
975S	11
CL3 1000S	10
1025S	752
1050S	7
1075S	6
1100S	118
1125S	7
1150S	9
1175S	5
CL3 1200S	48
1225S	9

Certified by



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



29-Jun-93 date

Assay Certificate

Page 2

Aurum Geological

WO 13942

Sample	Au ppb
1250S	11
1275S	21
1300S	93
1325S	38
1350S	21
1375S	10
CL3 1400S	225
1425S	109
1450S	34
1475S	62
1500S	23
RL2 000 10E	15
000 20E	47
000 30E	16
000 10W	18
000 20W	29
000 30W	12
000 40W	11
000 50W	63
000 60W	36
000 70W	23
000 80W	12
000 90W	19
000 100W	16
RL2 010N 10E	16
010N 20E	72
010N 30E	14
010N 10W	18
010N 20W	16
010N 30W	<5
010N 40W	13
010N 50W	15
010N 70W	7
010N 80W	7
010N 90W	5
010N 100W	6
RL2 020N 10E	9
020N 20E	11
020N 30E	14
020N 40E	14
RL2 020N 10W	13
020N 20W	12

Certified by



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



29-Jun-93 date

Assay Certificate

Page 3

Aurum Geological

WO 13942

Sample	Au ppb
020N 30W	12
020N 40W	13
020N 50W	15
020N 60W	13
020N 80W	19
020N 90W	16
020N 100W	16
RL2 030N 10E	12
030N 20E	33
030N 30E	9
030N 40E	11
030N 50E	29
RL2 030N 10W	11
030N 20W	90
030N 30W	11
030N 40W	21
030N 50W	12
030N 60W	11
030N 70W	7
030N 80W	11
030N 90W	12
030N 100W	8
RL2 040N 100W	7
040N 90W	9
040N 80W	13
040N 70W	12
040N 60W	11
040N 40W	11
040N 30W	13
040N 20W	11
040N 10W	13
RL2 040N 90E	10
040N 80E	12
040N 70E	16
040N 60E	12
040N 40E	12
040N 30E	15
040N 20E	13
040N 10E	13
RL2 50N 100W	8
50N 90W	9
50N 80W	8

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



29-Jun-93 date

Assay Certificate

Page 4

Aurum Geological

WO 13942

Sample	Au ppb
50N 70W	10
50N 60W	9
50N 50W	10
50N 40W	10
50N 30W	71
50N 20W	13
50N 10W	10
RL2 50N 100E	10
50N 90E	11
50N 80E	10
50N 70E	51
50N 60E	23
50N 50E	9
50N 40E	11
50N 30E	9
50N 20E	10
50N 10E	16
RL2 100N BL0	11
RL2 BL40N L100N 30W	13
RL2 BL30N L100N 20W	12
RL2 BL 20W	11
RL2 BL0 625N	12
RL2 BL 50N	11
RL2 BL 10N	13
RL2 BL 000	12
9366025	9
9161016	37
9353001	<5
9361008	9
9361009	5
9361010	7
9361011	10
9361012	8
9361013	6
9361014	5
9361015	99
9361017	7
9361018	11
9361019	80
9361020	42
9361021	<5
9361022	9

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



29-Jun-93 date

Assay Certificate

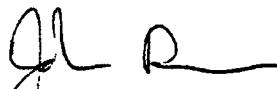
Page 5

Aurum Geological

WO 13942

Sample	Au ppb
9361023	45
9361027	23
9361028	6
9361029	45
9361030	0
9361040	45
9361041	1
9361042	9
9363007	9
9363024	45
9363026	6
9365001	9
9365002	19
9365003	7
9365004	5
9365005	6
93651004	83
93651100	6
93651101	25
93653001	8
93653002	7
93653003	45
CL1 850S	5
CL1 900S	45
CL1 975S	45
CL0+ 900S	10
CL0+50 900S	11

Certified by



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





CERTIFICATE OF ANALYSIS

iPL 93F2106

2036 Columbia Street
Vancouver, B.C.
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

Client: Northern Analytical Laboratories
Project: WO 13931 150 Pulp

iPI : 93F2106

Out: Jun 23, 1993

Page 9 of 4

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 %
BL 0+00	0+00	P	<	12	10	50	6	5	<	3	<	<	14	24	85	<	71	80	338	5	13	1	3.011	1.41	0.24	3.24	1.10	0.09	0.03	0.02
BL 0+00	0+25S	P	<	45	9	61	5	<	<	2	<	<	16	24	180	<	99	63	461	14	21	1	5.008	0.98	0.46	2.59	0.87	0.09	0.02	0.03
BL 0+00	0+50S	P	<	9	12	26	7	3	2	<	<	<	14	30	111	<	219	70	215	4	12	1	4.007	1.21	0.25	2.59	1.16	0.04	0.02	0.02
BL 0+00	0+75S	P	<	12	14	44	6	<	2	<	<	<	15	20	110	<	81	85	537	6	13	1	3.008	1.75	0.20	3.44	0.82	0.07	0.02	0.03
BL 0+00	1+00S	P	<	40	10	48	8	<	<	2	<	<	16	23	108	<	75	91	577	3	14	<	6.011	2.66	0.31	3.84	1.67	0.12	0.02	0.03
BL 0+00	1+25S	P	<	16	15	34	5	5	<	2	<	<	15	25	130	<	70	68	306	6	15	1	3.009	1.11	0.29	2.64	0.78	0.06	0.02	0.02
BL 0+00	1+50S	P	<	11	6	25	5	5	<	2	<	<	12	26	90	<	85	62	230	5	13	1	3.007	1.23	0.24	2.52	0.82	0.04	0.02	0.01
BL 0+00	1+65S	P	<	16	10	26	5	5	<	2	<	<	12	24	92	<	104	71	218	6	13	1	4.008	1.15	0.26	2.84	0.86	0.05	0.02	0.01
BL 0+00	1+75S	P	<	23	10	32	9	<	<	2	<	<	17	32	98	<	114	78	380	6	13	<	6.006	1.50	0.31	3.28	1.06	0.07	0.02	0.02
BL 0+00	2+00S	P	<	10	9	77	9	<	<	3	<	<	16	15	304	<	38	135	593	4	24	<	6.010	2.58	0.61	4.79	1.44	0.46	0.02	0.04
BL 0+00	2+25S	P	<	21	19	51	8	7	<	4	<	<	23	59	148	<	82	77	420	11	10	<	6.005	1.41	0.19	5.60	0.83	0.22	0.02	0.05
BL 0+00	2+35S	P	0.1	61	5	33	8	8	<	2	<	<	7	11	108	<	7	39	260	15	9	<	4.001	0.90	0.19	3.07	0.23	0.20	0.01	0.02
BL 0+00	2+50S	P	<	7	33	15	5	5	<	1	<	<	10	27	62	<	96	46	166	3	10	1	3.006	0.80	0.28	1.97	1.05	0.03	0.02	0.01
BL 0+00	2+75S	P	<	39	7	26	5	5	<	2	<	<	14	31	90	<	64	44	293	11	20	1	5.005	0.82	0.46	2.05	0.75	0.05	0.02	0.03
BL 0+00	3+00S	P	0.1	51	16	49	8	<	<	3	<	<	25	28	80	<	86	283	245	3	18	1	4.015	0.73	0.46	5.96	0.61	0.07	0.05	0.04
BL 0+00	3+25S	P	<	47	15	48	13	<	<	3	<	<	39	44	157	<	136	245	310	2	26	2	9.015	1.32	0.68	5.77	1.58	0.11	0.06	0.02
BL 0+00	3+50S	P	<	14	11	42	13	5	<	2	<	<	43	78	101	<	251	110	781	5	15	1	18.008	1.45	0.35	4.82	1.37	0.05	0.02	0.02
BL 0+00	3+75S	P	<	10	9	25	20	6	<	2	<	<	17	43	62	<	133	60	198	4	11	1	3.007	0.88	0.26	2.57	1.05	0.05	0.02	0.01
BL 0+00	4+00S	P	<	40	15	28	28	<	<	1	<	<	14	181	169	<	117	55	343	9	30	1	8.006	1.06	0.44	2.45	1.08	0.06	0.03	0.02
BL 0+00	4+25S	P	<	7	8	23	12	<	<	2	<	<	35	106	40	<	422	79	371	3	21	1	9.008	1.36	0.55	3.70	3.29	0.03	0.02	0.02
BL 0+00	4+50S	P	<	18	20	22	27	8	<	2	<	<	26	75	84	<	205	60	481	5	25	1	10.004	1.02	0.55	2.77	2.18	0.07	0.02	0.03
BL 0+00	4+75S	P	<	19	16	39	43	25	<	3	<	<	63	178	131	<	1052	174	2045	3	36	1	81.002	1.68	1.31	6.63	3.79	0.04	0.02	0.06
BL 0+00	5+00S	P	<	13	9	35	9	<	<	2	<	<	13	17	117	<	38	81	252	5	16	<	4.004	1.66	0.27	3.13	0.77	0.04	0.02	0.02
BL 0+00	5+25S	P	<	22	8	40	8	<	<	3	<	<	18	18	139	<	43	119	293	5	21	1	5.006	1.45	0.40	4.28	0.81	0.11	0.02	0.04
BL 0+00	5+50S	P	<	18	6	35	8	<	<	2	<	<	14	19	141	<	40	75	320	7	15	1	4.006	1.56	0.24	3.46	0.81	0.09	0.02	0.02
BL 0+00	5+75S	P	<	11	10	25	6	<	<	1	<	<	10	20	170	<	87	60	257	7	15	<	3.006	1.06	0.27	2.53	0.60	0.08	0.02	0.02
BL 0+00	6+00S	P	<	33	9	21	14	7	<	2	<	<	20	64	88	<	176	48	466	3	26	1	10.003	0.82	0.65	2.28	2.00	0.04	0.03	0.04
BL 0+00	6+25S	P	0.1	71	12	47	14	6	<	2	<	<	14	36	296	<	83	60	516	12	35	1	13.006	1.50	0.69	3.01	1.09	0.11	0.03	0.06
BL 0+00	6+50S	P	<	16	19	34	16	5	<	2	<	<	13	20	163	<	51	74	307	7	22	1	4.006	1.33	0.36	3.13	0.80	0.12	0.03	0.02
BL 0+00	6+75S	P	<	28	13	36	9	<	<	3	<	<	13	21	155	<	31	68	290	6	73	<	4.005	1.57	0.21	3.13	0.84	0.06	0.02	0.01
BL 0+00	7+00S	P	<	72	10	85	6	5	<	4	<	<	22	21	298	<	40	106	686	12	30	1	11.003	1.93	0.51	4.89	0.91	0.12	0.02	0.06
BL 0+00	7+25S	P	0.2	101	15	60	24	7	<	4	<	<	15	52	338	<	33	66	1000	23	39	1	10.002	1.16	0.74	3.62	0.48	0.10	0.03	0.04
BL 0+00	7+50S	P	<	59	9	58	6	<	<	2	<	<	17	22	240	<	36	61	744	8	31	<	6.006	1.56	0.55	3.01	0.91	0.10	0.02	0.05
BL 0+00	7+75S	P	<	10	7	30	6	<	<	2	<	<	12	11	106	<	23	62	347	7	18	<	2.007	1.07	0.29	2.80	0.73	0.21	0.02	0.02
BL 0+00	8+00S	P	0.1	18	12	40	8	<	<	3	<	<	15	13	225	<	29	76	771	8	28	1	3.008	1.60	0.47	3.26	0.75	0.14	0.02	0.02
BL 0+00	8+25S	P	0.1	27	12	37	5	<	<	2	<	<	15	17	229	<	35	67	433	10	23	1	4.009	1.73	0.38	3.11	0.98	0.15	0.03	0.01
BL 0+00	8+50S	P	<	26	16	37	5	<	<	3	<	<	13	15	151	<	26	62	401	14	30	1	4.007	1.58	0.43	3.04	0.96	0.17	0.03	0.02
BL 0+00	8+75S	P	<	33	17	45	5	<	<	2	<	<	16	16	236	<	25	63	632	19	38	1	6.007	1.90	0.48	3.47	1.37	0.22	0.03	0.02
BL 0+00	9+00S	P	<	11	15	31	5	<	<	3	<	<	10	11	100	<	22	58	264	8	16	1	3.009	1.35	0.22	2.64	0.72	0.11	0.02	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

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

International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph: 604/879-7878 Fax: 604/879-7898



CERTIFICATE OF ANALYSIS

iPL 93F2106

2036 Columbia Street
Vancouver, B.C.
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

Client: Northern Analytical Laboratories
Project: WO 13931 150 Pulp

iPL: 93F2106

Out: Jun 23, 1993

At: Jun 23, 1993
To: Jun 21 1993

Page 2 of 4

Section 1 of 1
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 %	
BL 0+00	9+50S P	<	13	12	30	<	<	2	<	<	<	8	12	121	<	20	41	215	7	21	<	2	0.05	1.17	0.28	2.04	0.66	0.07	0.02	0.01	
BL 0+00	9+75S P	<	26	45	60	<	<	2	<	<	<	15	7	145	<	11	102	489	8	13	1	7	0.09	2.51	0.14	4.21	1.52	0.44	0.03	0.02	
BL 0+00	10+00S P	<	9	12	26	<	<	3	<	<	<	6	11	87	<	23	59	153	15	12	1	2	0.04	0.95	0.13	2.46	0.37	0.12	0.02	0.03	
CL 1+00	0+00	<	13	14	29	<	<	2	<	<	<	12	19	161	<	67	62	371	8	18	1	3	0.07	1.28	0.31	2.30	0.65	0.04	0.04	0.02	
CL 1+00	0+25S P	<	23	18	47	8	<	2	<	<	<	27	30	245	<	92	71	1249	12	29	<	3	0.09	1.26	0.63	3.01	0.89	0.15	0.03	0.08	
CL 1+00	0+50S P	<	11	11	27	<	<	3	<	<	0.1	9	15	66	<	58	72	175	7	14	1	2	0.11	0.70	0.20	2.03	0.40	0.06	0.03	0.02	
CL 1+00	0+75S P	0.2	24	5	26	<	<	2	<	<	0.3	12	15	207	<	54	35	381	5	28	<	3	0.06	0.76	0.51	1.25	0.37	0.05	0.03	0.06	
CL 1+00	1+00S P	<	13	10	42	<	<	2	<	<	<	15	18	193	<	77	90	401	5	18	1	5	0.13	1.57	0.33	3.24	1.19	0.22	0.03	0.02	
CL 1+00	1+25S P	<	35	9	25	<	<	3	<	<	<	13	41	220	<	88	48	371	9	43	1	6	0.07	1.13	0.75	2.04	0.68	0.06	0.03	0.05	
CL 1+00	1+50S P	<	8	11	20	<	<	2	<	<	<	7	11	84	<	43	47	157	6	14	1	2	0.10	0.66	0.25	1.39	0.40	0.06	0.03	0.02	
CL 1+00	1+75S P	<	45	7	32	<	<	2	<	<	<	12	27	172	<	74	45	414	11	31	1	4	0.06	0.91	0.78	1.98	0.84	0.08	0.03	0.04	
CL 1+00	2+00S P	<	15	8	27	<	<	2	<	<	<	11	27	94	<	56	45	290	8	21	1	4	0.06	0.80	0.42	2.09	0.78	0.05	0.03	0.04	
CL 1+00	2+25S P	<	8	10	29	<	<	1	<	<	<	14	36	70	<	120	58	251	4	12	<	3	0.11	0.94	0.33	2.30	1.16	0.06	0.03	0.03	
CL 1+00	2+50S P	<	9	21	31	<	6	<	2	<	<	0.1	16	34	93	<	136	66	266	4	13	1	4	0.09	0.97	0.40	2.76	1.33	0.05	0.04	0.02
CL 1+00	2+75S P	<	13	12	31	<	<	2	<	<	<	14	24	150	<	89	56	313	7	19	<	4	0.08	1.08	0.36	2.10	0.77	0.04	0.03	0.02	
CL 1+00	3+00S P	<	44	10	46	16	6	<	3	<	<	19	35	173	<	107	64	646	9	37	1	8	0.07	1.36	0.81	2.93	1.22	0.08	0.03	0.05	
CL 1+00	3+25S P	<	14	27	39	20	10	<	5	<	<	36	83	214	<	584	181	697	4	17	1	13	0.02	1.83	0.33	8.29	0.48	0.07	0.02	0.04	
CL 1+00	3+50S P	<	60	5	8	13	<	1	<	<	0.2	5	83	224	<	24	17	358	3	256	1	1	0.01	0.50	3.26	0.48	0.41	0.03	0.05	0.09	
CL 1+00	3+75S P	<	15	21	44	<	6	<	5	<	<	37	54	144	<	178	61	776	3	32	1	3	0.08	0.78	0.59	4.02	1.16	0.07	0.04	0.04	
CL 1+00	4+00S P	<	39	12	30	14	<	1	<	<	0.1	38	101	220	<	122	55	1610	6	34	1	7	0.07	1.07	0.56	2.38	1.09	0.06	0.04	0.05	
CL 1+00	4+25S P	<	15	14	33	24	6	<	4	<	<	17	37	114	<	157	93	264	5	21	1	4	0.08	1.08	0.33	3.05	1.20	0.07	0.03	0.02	
CL 1+00	4+50S P	<	53	16	21	28	6	<	2	<	0.1	15	167	139	<	145	46	287	5	59	1	7	0.04	0.97	1.19	2.19	1.40	0.05	0.04	0.07	
CL 1+00	4+75S P	<	19	12	34	6	<	3	<	<	33	45	136	<	199	62	716	4	20	1	7	0.08	1.32	0.55	2.95	1.83	0.09	0.03	0.02		
CL 1+00	5+00S P	<	29	8	26	48	10	<	3	<	0.6	59	155	173	<	398	80	949	<	195	1	24	0.02	1.14	0.57	3.44	3.96	0.10	0.04	0.06	
CL 1+00	5+25S P	<	20	221	50	51	10	<	2	<	<	53	77	242	<	406	87	2895	8	32	1	39	0.03	1.52	0.98	4.01	1.45	0.20	0.03	0.06	
CL 1+00	5+50S P	<	35	313	53	46	5	<	2	<	3	0.4	26	65	321	<	155	52	3361	8	53	3	12	0.02	1.42	1.31	2.94	0.57	0.21	0.03	0.11
CL 1+00	5+75S P	<	26	15	38	6	6	<	2	<	0.1	56	69	165	<	195	59	807	4	32	1	9	0.07	1.60	0.65	3.67	2.44	0.12	0.05	0.04	
CL 1+00	6+00S P	<	58	16	35	16	<	1	<	<	0.5	23	77	195	<	68	53	1351	6	47	1	4	0.05	0.92	0.73	1.81	0.46	0.07	0.05	0.05	
CL 1+00	6+25S P	<	6	3	16	<	<	1	<	<	0.1	9	10	61	<	34	26	472	2	11	<	2	0.05	0.45	0.17	1.09	0.28	0.04	0.05	0.03	
CL 1+00	6+50S P	0.1	7	80	26	34	6	<	2	<	<	10	21	73	<	80	63	350	5	11	2	4	0.06	1.09	0.16	2.52	0.34	0.06	0.03	0.02	
CL 1+00	6+75S P	<	47	126	52	176	17	<	3	<	<	75	313	157	<	404	93	3268	5	30	2	34	0.03	1.27	1.04	5.35	1.91	0.12	0.02	0.05	
CL 1+00	7+00S P	<	12	15	78	10	5	<	1	<	<	13	23	132	<	90	83	394	6	13	1	4	0.06	1.72	0.21	2.92	0.49	0.05	0.02	0.02	
CL 1+00	7+25S P	<	9	6	22	13	10	<	2	<	<	31	86	77	<	323	60	595	<	14	1	32	0.06	1.45	0.49	3.20	3.52	0.02	0.03	0.02	
CL 1+00	7+50S P	<	6	10	18	<	<	1	<	<	4	7	62	<	12	23	162	2	22	1	1	0.04	0.33	0.58	0.80	0.17	0.03	0.06	0.04		
CL 1+00	7+75S P	<	17	7	33	<	<	1	<	<	0.4	8	20	171	<	36	15	423	2	46	1	2	0.02	0.50	2.51	0.73	0.31	0.02	0.04	0.09	
CL 1+00	8+00S P	<	10	10	55	6	<	3	<	<	10	13	115	<	33	68	287	7	17	1	3	0.10	1.30	0.27	2.52	0.65	0.08	0.03	0.02		
CL 1+00	8+25S P	<	241	26	26	30	8	<	2	<	0.1	15	128	304	<	101	89	959	10	93	1	8	0.04	1.03	1.73	2.22	0.70	0.07	0.05	0.17	
CL 1+00	8+50S P	<	16	16	27	7	12	<	2	<	<	28	53	229	<	340	69	706	4	18	1	22	0.06	1.39	0.59	3.28	1.90	0.08	0.03	0.02	
CL 1+00	8+75S P	<	20	7	16	5	5	<	1	<	<	18	34	114	<	88	46	380	3	19	1	9	0.04	0.73	0.52	2.17	0.42	0.05	0.05	0.05	

Min Limit 0.1 1 2 1 5 5 3 1 10 2 0.1 1 1 2 5 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 99999 99999 99999 99999 999 999 99.9 999 999 99999 999 99999 999 99999 999 99 1.00 99.99 99.99 99.99 99.99 99.99 99.99 5.00 5.00

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

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CERTIFICATE OF ANALYSIS

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Client: Northern Analytical Laboratories PL: 93F2106 Out: Jun 23, 1993 Page 3 of 4 Section 1 of 1
Project: WO 13931 150 Pulp In: Jun 21, 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 ppm	Al z	Ca %	Fe %	Mg %	K %	Na %	P %
CL 1+00 9+00S P	<	43	9	32	13	8	<	3	<	<	<	65	169	224	<	385	155	1405	4	27	1	53	0.01	1.41	0.95	7.14	0.86	0.07	0.03	0.05
CL 1+00 9+25S P	<	16	10	37	5	<	<	1	<	<	<	13	19	233	<	34	64	355	6	16	1	5	0.06	1.59	0.36	2.83	1.00	0.07	0.02	0.02
CL 1+00 9+50S P	<	14	19	113	7	<	<	3	<	<	<	12	13	453	<	17	40	1716	7	17	1	3	<	1.23	0.28	6.31	0.14	0.12	0.02	0.10
CL 1+00 9+75S P	0.1	41	12	29	15	6	<	14	<	<	0.1	3	3	53	<	2	4	308	10	7	1	1	<	1.03	0.08	1.64	0.07	0.12	0.02	0.03
CL 1+00 10+00S P	<	13	10	62	<	<	<	3	<	<	<	8	10	162	<	21	57	609	10	15	<	2	0.03	1.56	0.21	2.85	0.32	0.13	0.03	0.05
CL 2+00 0+00 P	<	9	7	37	6	5	<	2	<	<	<	15	20	201	<	84	71	438	6	15	1	5	0.09	1.53	0.38	2.97	1.52	0.21	0.03	0.01
CL 2+00 0+25S P	<	20	19	50	5	5	<	2	<	<	<	27	15	210	<	48	72	1531	6	16	1	3	0.10	1.13	0.25	2.73	0.49	0.11	0.04	0.03
CL 2+00 0+50S P	0.1	60	8	57	<	<	<	5	<	<	<	16	10	219	<	25	100	763	8	16	<	3	0.07	1.44	0.24	3.40	0.44	0.14	0.03	0.06
CL 2+00 0+75S P	0.2	38	20	97	<	<	<	2	<	<	<	24	23	164	<	60	119	1110	13	20	1	5	0.08	2.20	0.31	5.08	0.73	0.17	0.02	0.06
CL 2+00 1+00S P	0.1	69	12	55	8	<	<	3	<	<	<	16	31	183	<	69	66	1011	14	25	<	5	0.05	1.71	0.52	3.06	0.74	0.09	0.03	0.07
CL 2+00 1+25S P	<	16	10	41	<	<	<	2	<	<	0.1	18	23	112	<	78	67	323	6	13	1	3	0.08	1.09	0.25	2.75	0.70	0.10	0.04	0.02
CL 2+00 1+50S P	<	22	10	43	6	<	<	3	<	<	<	18	31	194	<	88	64	745	9	17	1	6	0.08	1.29	0.35	2.71	0.75	0.07	0.03	0.03
CL 2+00 1+75S P	<	35	11	39	9	5	<	2	<	<	<	17	36	77	<	141	66	513	6	22	<	8	0.06	1.20	0.46	3.00	1.23	0.09	0.03	0.03
CL 2+00 2+00S P	<	25	11	48	<	<	<	4	<	<	<	23	15	206	<	54	89	958	6	19	1	4	0.13	1.22	0.40	2.98	0.77	0.25	0.04	0.03
CL 2+00 2+25S P	<	86	8	72	19	<	<	2	<	<	<	15	43	206	<	86	49	471	21	48	<	5	0.04	1.12	1.20	2.38	1.06	0.09	0.04	0.08
CL 2+00 2+50S P	<	17	10	34	10	<	<	2	<	<	<	14	28	106	<	86	54	339	6	17	1	5	0.07	0.80	0.37	2.13	0.76	0.06	0.03	0.04
CL 2+00 2+75S P	<	68	14	54	9	6	<	16	<	<	<	6	7	182	<	10	44	150	14	11	<	1	0.01	0.81	0.17	3.03	0.12	0.13	0.02	0.04
CL 2+00 3+00S P	<	323	14	72	<	<	<	3	<	<	0.1	17	28	226	<	64	57	1060	27	44	1	10	0.05	1.32	0.73	2.69	0.71	0.06	0.04	0.09
CL 2+00 3+25S P	0.2	261	14	99	11	<	<	5	<	<	<	69	121	124	<	61	870	343	<	21	3	6	0.48	1.56	0.64	14.76	1.75	0.07	0.06	0.06
CL 2+00 3+50S P	<	30	11	41	16	6	<	2	<	<	<	26	56	101	<	132	100	362	6	20	1	15	0.07	1.35	0.48	3.95	0.82	0.06	0.03	0.02
CL 2+00 3+75S P	<	32	51	48	13	7	<	2	<	<	<	25	43	115	<	155	84	516	6	22	1	8	0.07	1.25	0.44	3.29	1.08	0.07	0.03	0.02
CL 2+00 4+00S P	<	17	15	56	13	9	<	3	<	<	<	44	88	194	<	236	58	557	4	25	1	7	0.04	1.65	0.65	3.82	3.07	0.07	0.03	0.04
CL 2+00 4+25S P	<	31	12	53	38	5	<	2	<	<	<	27	102	194	<	128	85	803	9	32	1	10	0.09	1.38	0.54	2.63	1.07	0.07	0.04	0.02
CL 2+00 4+50S P	<	8	10	41	6	14	<	2	<	<	<	50	118	68	<	516	70	775	3	13	1	29	0.06	1.26	0.49	3.63	3.89	0.04	0.04	0.02
CL 2+00 4+75S P	<	42	11	27	10	<	<	2	<	<	<	13	25	223	<	55	65	214	7	14	1	4	0.06	1.29	0.22	3.05	0.68	0.05	0.02	0.01
CL 3+00 0+00 P	<	34	10	31	7	9	<	2	<	<	<	29	84	130	<	336	100	526	11	23	3	21	0.07	1.72	0.64	4.06	1.60	0.17	0.04	0.01
CL 3+00 0+25S P	<	35	10	42	19	8	<	2	<	<	<	16	54	158	<	138	64	318	12	30	1	9	0.06	0.98	0.66	2.95	1.36	0.15	0.04	0.08
CL 3+00 0+50S P	<	30	9	22	<	9	<	2	<	<	0.1	39	94	221	<	238	49	697	4	23	2	12	0.07	1.30	1.06	2.78	3.26	0.07	0.04	0.02
CL 3+00 0+75S P	<	32	8	33	10	6	<	2	<	<	<	26	66	241	<	141	47	804	9	55	1	9	0.02	0.96	1.98	2.88	2.23	0.17	0.03	0.05
CL 3+00 1+00S P	<	40	15	58	11	<	<	3	<	<	<	19	46	370	<	92	42	1580	29	46	1	9	0.01	0.91	1.67	3.28	0.89	0.30	0.03	0.05
CL 3+00 1+25S P	<	73	18	78	9	<	<	3	<	<	<	16	10	801	<	10	41	2253	50	26	1	7	0.01	0.96	0.82	4.47	0.22	0.14	0.03	0.06
CL 3+00 1+50S P	<	18	10	35	5	<	<	2	<	<	<	9	6	363	<	6	32	1008	13	32	1	3	0.02	0.80	0.95	2.03	0.21	0.18	0.03	0.07
CL 3+00 1+75S P	<	43	32	92	<	<	<	4	<	<	<	12	15	395	<	33	36	1642	83	50	1	7	0.01	0.89	1.44	4.22	0.45	0.23	0.02	0.05
CL 3+00 2+00S P	<	18	21	87	<	<	<	4	<	<	<	10	6	459	<	7	24	2325	66	41	1	5	0.01	0.98	1.03	3.62	0.23	0.25	0.02	0.07
CL 3+00 2+25S P	<	34	21	84	5	<	<	3	<	<	<	12	14	343	<	16	29	2186	58	31	1	7	0.01	1.18	0.71	4.24	0.25	0.28	0.02	0.05
CL 3+00 2+50S P	<	72	6	26	42	10	<	4	<	<	0.1	21	95	277	<	383	118	547	12	131	1	24	<	0.89	4.19	3.99	0.79	0.19	0.03	0.07
CL 3+00 2+75S P	<	46	17	53	27	<	<	3	<	<	0.1	16	50	196	<	98	62	1194	23	33	1	10	0.02	1.07	0.65	3.35	0.70	0.25	0.04	0.04
CL 3+00 3+00S P	<	26	15	47	9	<	<	2	<	<	<	16	34	232	<	67	59	836	15	30	1	7	0.06	1.49	0.47	3.16	0.78	0.33	0.04	0.02
CL 3+00 3+25S P	<	19	23	82	<	<	<	2	<	<	<	9	7	422	<	8	19	2069	71	51	1	4	0.01	0.98	1.47	3.62	0.25	0.17	0.03	0.10



CERTIFICATE OF ANALYSIS

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Client: Northern Analytical Laboratories
Project: WO 13942 195 Pulp

iPL: 93F2503

Out: Jun 28, 1993
In: Jun 25, 1993

Page

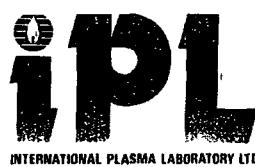
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Section 1 of 2
Certified BC Assayer: David Chiu

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 ppm	A1 %	Ca %	Fe %	Mg %	K %	Na %
13942 9353001	9353001	< 0.1	73 80	6 20	62 69	4 20	< <	< <	3 4	< <	< <	1.5 0.3	12 24	25 46	40 95	< 88	22 53	529 2018	8 8	244 218	2 <	3 10	0.06 <	0.93 0.61	10.18 2.95	1.65 2.98	1.12 1.06	0.03 0.11	0.02 0.02	
13942 9361008	9361008	< <	5 3	7 3	16 8	115 115	20 20	< <	3 3	< <	< <	1.2 0.1	34 21	123 63	15 54	< 334	56 212	1118 24	< 212	223 7	1 1	5 7	0.03 <	0.13 0.14	10.48 0.45	2.59 1.07	6.66 1.33	0.03 0.05	0.01 0.02	
13942 9361009	9361009	< <	3 3	< 5	5 5	115 115	20 20	< <	2 2	< <	< <	0.1 1.2	21 34	123 123	15 15	< 334	56 56	1118 1118	< <	268 268	1 1	35 7	< 1	0.13 0.03	0.13 0.32	10.48 0.45	2.59 1.07	6.66 1.33	0.03 0.05	0.01 0.02
13942 9361010	9361010	< <	3 3	< 5	5 5	115 115	20 20	< <	2 2	< <	< <	0.1 1.2	21 34	123 123	15 15	< 334	56 56	1118 1118	< <	268 268	1 1	35 7	< 1	0.13 0.03	0.13 0.32	10.48 0.45	2.59 1.07	6.66 1.33	0.03 0.05	0.01 0.02
13942 9361011	9361011	< <	3 3	< 5	5 5	115 115	20 20	< <	2 2	< <	< <	0.1 1.2	21 34	123 123	15 15	< 334	56 56	1118 1118	< <	268 268	1 1	35 7	< 1	0.13 0.03	0.13 0.32	10.48 0.45	2.59 1.07	6.66 1.33	0.03 0.05	0.01 0.02
13942 9361012	9361012	< <	2 1	2 6	15 2	115 115	20 20	< <	2 2	< <	< <	2 0.7	2 8	301 19	19 19	52 73	15 <	271 207	37 4	51 7	1 <	2 1	0.01 <	0.41 0.18	0.63 0.33	0.75 0.17	0.30 0.02	0.10 0.12	0.08 0.03	
13942 9361013	9361013	< <	1 1	6 8	52 52	115 115	20 20	< <	2 2	< <	< <	0.7 0.3	8 8	1339 7	1339 129	51 67	43 45	1463 763	16 14	667 261	1 1	6 5	0.06 0.06	0.95 0.72	0.72 0.12	0.95 0.12	0.77 0.30	1.99 0.59	0.02 0.42	0.03 0.03
13942 9361014	9361014	< <	1 7	7 31	115 115	20 20	< <	3 3	< <	< <	0.3 0.3	8 8	7 129	129 129	64 64	49 49	568 568	16 16	91 91	1 1	6 6	0.09 0.09	1.36 2.35	2.35 2.85	1.12 1.21	0.93 0.93	0.03 0.03			
13942 9361015	9361015	< <	1 1	4 4	49 49	115 115	20 20	< <	2 2	< <	< <	0.2 0.2	9 9	10 12	212 12	59 59	26 23	1534 701	2 10	65 65	1 1	4 4	0.01 0.01	0.29 2.65	2.65 1.81	0.57 0.57	0.12 0.12	0.03 0.03		
13942 9361016	9361016	< <	1 1	4 5	49 16	115 115	20 20	< <	4 4	< <	< <	0.2 0.2	9 9	6 6	116 116	58 58	23 23	701 701	10 10	65 65	1 1	4 4	0.01 0.01	0.29 2.65	2.65 1.81	0.57 0.57	0.12 0.12	0.03 0.03		
13942 9361017	9361017	< <	2 32	15 5	66 52	115 115	20 20	< <	5 2	< <	< <	2.3 0.8	12 6	12 7	263 58	32 27	49 53	1749 1058	10 7	351 54	1 3	6 8	0.01 <	0.48 0.55	13.25 3.08	3.21 4.16	1.18 0.80	0.17 0.19	0.01 0.01	
13942 9361018	9361018	< <	6 4	48 9	13 13	115 115	20 20	< <	71 7	< <	< <	0.8 0.4	6 13	7 13	235 1215	59 44	26 65	1534 1322	2 2	72 6	< 1	3 3	0.01 <	0.11 0.11	8.71 8.71	3.35 3.35	3.89 3.89	0.03 0.03	0.01 0.01	
13942 9361019	9361019	< <	4 4	5 5	16 16	115 115	20 20	< <	71 4	< <	< <	0.2 0.2	9 9	6 6	116 116	58 58	23 23	701 701	10 10	65 65	1 1	4 4	0.01 0.01	0.29 2.65	2.65 1.81	0.57 0.57	0.12 0.12	0.03 0.03		
13942 9361020	9361020	< <	6 22	7 22	41 68	115 115	20 20	< <	17 2	< <	< <	0.3 0.4	15 13	10 13	193 1215	53 44	32 65	970 1322	9 13	60 165	1 2	6 13	0.01 <	0.51 0.51	2.78 2.78	3.51 3.51	1.05 1.05	0.04 0.04	0.02 0.02	
13942 9361021	9361021	< <	6 22	7 22	41 68	115 115	20 20	< <	17 8	< <	< <	0.3 0.4	15 13	10 13	193 1215	53 44	32 65	970 1322	9 13	60 165	1 2	6 13	0.01 <	0.51 0.51	2.78 2.78	3.51 3.51	1.05 1.05	0.04 0.04	0.02 0.02	
13942 9361022	9361022	< <	6 22	7 22	41 68	115 115	20 20	< <	17 8	< <	< <	0.3 0.4	15 13	10 13	193 1215	53 44	32 65	970 1322	9 13	60 165	1 2	6 13	0.01 <	0.51 0.51	2.78 2.78	3.51 3.51	1.05 1.05	0.04 0.04	0.02 0.02	
13942 9361023	9361023	< <	6 22	7 22	41 68	115 115	20 20	< <	17 8	< <	< <	0.3 0.4	15 13	10 13	193 1215	53 44	32 65	970 1322	9 13	60 165	1 2	6 13	0.01 <	0.51 0.51	2.78 2.78	3.51 3.51	1.05 1.05	0.04 0.04	0.02 0.02	
13942 9361027	9361027	< <	6 22	7 22	41 68	115 115	20 20	< <	17 8	< <	< <	0.3 0.4	15 13	10 13	193 1215	53 44	32 65	970 1322	9 13	60 165	1 2	6 13	0.01 <	0.51 0.51	2.78 2.78	3.51 3.51	1.05 1.05	0.04 0.04	0.02 0.02	
13942 9361028	9361028	< <	6 22	7 22	41 68	115 115	20 20	< <	17 8	< <	< <	0.3 0.4	15 13	10 13	193 1215	53 44	32 65	970 1322	9 13	60 165	1 2	6 13	0.01 <	0.51 0.51	2.78 2.78	3.51 3.51	1.05 1.05	0.04 0.04	0.02 0.02	
13942 9361029	9361029	< <	6 22	7 22	41 68	115 115	20 20	< <	17 8	< <	< <	0.3 0.4	15 13	10 13	193 1215	53 44	32 65	970 1322	9 13	60 165	1 2	6 13	0.01 <	0.51 0.51	2.78 2.78	3.51 3.51	1.05 1.05	0.04 0.04	0.02 0.02	
13942 9361030	9361030	< <	3 10	2 10	37 50	115 115	20 20	< <	21 2	< <	< <	0.9 1.8	39 20	149 8	14 80	904 21	88 3 1245	1524 1142	< 105 7	105 96	1 1	6 6	0.01 <	0.53 0.87	3.22 3.91	3.35 4.52	1.17 1.38	0.19 0.25	0.01 0.01	
13942 9361040	9361040	< <	3 10	2 10	37 50	115 115	20 20	< <	21 2	< <	< <	0.9 1.8	39 20	149 8	14 80	904 21	88 3 1245	1524 1142	< 105 7	105 96	1 1	6 6	0.01 <	0.53 0.87	3.22 3.91	3.35 4.52	1.17 1.38	0.19 0.25	0.01 0.01	
13942 9361041	9361041	< <	3 10	2 10	37 50	115 115	20 20	< <	21 2	< <	< <	0.9 1.8	39 20	149 8	14 80	904 21	88 3 1245	1524 1142	< 105 7	105 96	1 1	6 6	0.01 <	0.53 0.87	3.22 3.91	3.35 4.52	1.17 1.38	0.19 0.25	0.01 0.01	
13942 9361042	9361042	< <	3 10	2 10	37 50	115 115	20 20	< <	21 2	< <	< <	0.9 1.8	39 20	149 8	14 80	904 21	88 3 1245	1524 1142	< 105 7	105 96	1 1	6 6	0.01 <	0.53 0.87	3.22 3.91	3.35 4.52	1.17 1.38	0.19 0.25	0.01 0.01	
13942 9363007	9363007	< <	3 43	8 43	54 54	115 115	20 20	< <	2 2	< <	< <	0.3 0.3	16 21	11 22	103 240	26 72	77 83	1026 601	203 4 44	35 56	1 1	7 7	< 0.66	0.66 4.41	4.41 3.57	5.13 3.57	6.57 1.53	0.02 0.17	0.01 0.01	
13942 9363024	9363024	< <	4 2	4 9	10 27	115 115	20 20	< <	2 1	< <	< <	0.1 0.1	2 9	4 8	63 36	65 27	8 26	383 225	1225 9	12 20	1 2	1 1	0.01 <	0.29 0.52	0.49 0.14	0.70 2.76	0.38 0.06	0.08 0.01	0.07 0.01	
13942 9363026	9363026	< <	4 3	4 3	15 15	115 115	20 20	< <	6 6	< <	< <	0.1 0.8	40 8	14 21	53 214	67 48	25 23	378 1361	7 194	56	1 1	3 2	0.02 <	0.64 0.16	1.43 0.99	3.07 3.49	0.59 3.85	0.14 0.02	0.04 0.03	
13942 9365001	9365001	< <	3 36	6 36	65 65	115 115	20 20	< <	6 6	< <	< <	0.8 0.8	40 8	14 21	53 214	67 48	25 23	378 1361	7 194	56	1 1	3 2	0.02 <	0.64 0.16	1.43 0.99	3.07 3.49	0.59 3.85	0.14 0.02	0.04 0.03	
13942 9365002	9365002	< <	3 36	6 36	65 65	115 115	20 20	< <	2 2	< <	< <	0.8 0.8	40 8	14 21	53 214	67 48	25 23	378 1361	7 194	56	1 1	3 2	0.02 <	0.64 0.16	1.43 0.99	3.07 3.49	0.59 3.85	0.14 0.02	0.04 0.03	
13942 9365003	9365003	< <	3 36	6 36	65 65	115 115	20 20	< <	2 2	< <	< <	0.8 0.8	40 8	14 21	53 214	67 48	25 23	378 1361	7 194	56	1 1	3 2	0.02 <	0.64 0.16	1.43 0.99	3.07 3.49	0.59 3.85	0.14 0.02	0.04 0.03	
13942 9365004	9365004	< <	5 6	4 6	28 36	115 115	20 20	< <	1 3	< <	< <	1.9 1.9	27 3	6 205	635 623	41 66	380 38	449 1718	13 134	66 364	1 1	4 4	0.19 0.01	0.80 0.86	2.03 11.65	7.24 1.99	1.07 1.19	0.12 0.01	0.13 0.01	
13942 9365005	9365005	< <	5 7	9 9	28 59	115 115	20 20	< <	1 3	< <	< <	1.9 1.9	27 3	6 205	635 623	41 66	380 38	449 1718	13 134	66 364	1 1	4 4	0.19 0.01	0.80 0.86	2.03 11.65	7.24 1.99	1.07 1.19	0.12 0.01	0.13 0.01	
13942 9366025	9366025	< <	1.6 0.2	2041 50	16 7	60 87	115 115	20 20	8 2	< <	< <	0.3 0.4	38 17	21 24	41 32	635 601	41 4 44	380 449	449 1718	13 134	66 364	1 1	4 4	0.07 0.10	1.20 1.41	0.32 1.83	3.72 3.13	0.50 0.81	0.22 0.09	0.03 0.03
13942 93651100	93651100	< <	1.6 0.2	2041 50	16 7	60 87	115 115	20 20	8 2	< <	< <	0.3 0.4	38 17	21 24	41 32	635 601	41 4 44	380 449	449 1718	13 134	66 364	1 1	4 4	0.14 0.10	1.41 1.52	0.45 1.90	5.27 5.27	1.10 1.10	0.59 0.59	0.02 0.02
13942 93651101	93651101	< <	4 8	6 8	37 24	115 115	20 20	< <	4 2	< <	< <	0.4 0.4	15 41	11 35	235 87	84 49	46 16	549 1432	12 7	67 232	2 2	6 7	0.							

-- No Test ins=Insufficient Sample S=S01 R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 Z=Estimate Z Max-No Estimate

--no test Insufficient Sample 35011 Knock C-vine L-511 FSPUP Deviation Test 100% Acetylurea + Max estimate Max estimate



CERTIFICATE OF ANALYSIS

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Client: Northern Analytical Laboratories
Project: W0 13942 195 Pulp

iPL: 93F2503

Out: Jun 28, 1993
In: Jun 25, 1993

Page 1 of 5

Section 2 of 2
Certified BC Assayer: David Chiu

Sample Name	P %
13942 9353001	P 0.04
13942 9361008	P 0.06
13942 9361009	P <
13942 9361010	P 0.01
13942 9361011	P 0.01
13942 9361012	P 0.02
13942 9361013	P 0.01
13942 9361014	P 0.15
13942 9361015	P 0.05
13942 9361016	P 0.06
13942 9361017	P 0.03
13942 9361018	P 0.14
13942 9361019	P 0.01
13942 9361020	P 0.03
13942 9361021	P 0.06
13942 9361022	P 0.05
13942 9361023	P 0.20
13942 9361027	P 0.03
13942 9361028	P 0.03
13942 9361029	P <
13942 9361030	P 0.01
13942 9361040	P <
13942 9361041	P 0.01
13942 9361042	P <
13942 9363007	P 0.14
13942 9363024	P 0.04
13942 9363026	P 0.03
13942 9365001	P 0.06
13942 9365002	P 0.01
13942 9365003	P 0.13
13942 9365004	P 0.04
13942 9365005	P <
13942 9366025	P 0.02
13942 93651004	P 0.13
13942 93651100	P 0.31
13942 93651101	P 0.06
13942 93653001	P 0.05
13942 93653002	P 0.01
13942 93653003	P 0.01

Min Limit 0.01
Max Reported* 5.00
Method ICP

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

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iPI : 93F2503

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Page 2 of 5 Section 1 of 2
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 %			
	Au																																
13942 BL	1025 S	P	<	19	14	65	<	<	<	2	<	<	<	19	34	393	<	41	59	878	56	39	<	3.0	0.04	1.81	0.51	4.35	0.82	0.40	0.02		
13942 BL	1050 S	P	<	35	30	95	<	<	<	2	<	<	<	25	35	447	<	45	60	1809	64	44	1	6.0	0.03	2.25	0.70	5.10	1.19	0.43	0.02		
13942 BL	1075 S	P	<	24	7	41	<	<	<	<	<	<	<	0.2	11	14	399	<	12	27	1503	12	35	<	<	0.02	0.64	0.56	1.74	0.21	0.10	0.03	
13942 BL	1100 S	P	<	28	94	85	<	<	<	1	<	<	<	14	26	642	<	35	73	356	67	26	<	7.0	0.02	1.57	0.13	5.98	0.55	0.32	0.01		
13942 BL	1229 S	P	<	31	18	70	7	<	<	2	<	<	<	13	10	127	<	18	76	397	7	11	<	4.0	0.08	1.43	0.15	3.71	0.86	0.28	0.01		
13942 BL	1300 S	P	<	12	14	73	5	<	<	2	<	<	<	19	14	257	<	21	93	783	11	22	1	8.0	0.09	2.23	0.30	4.51	1.28	0.44	0.01		
13942 BL	1400 S	P	0.1	14	14	99	8	<	<	3	<	<	<	21	16	388	<	32	98	1884	17	24	1	5.0	0.17	2.55	0.32	4.38	2.19	0.75	0.02		
13942 BL	1516 S	P	<	11	8	46	6	<	<	1	<	<	<	0.1	14	18	269	<	20	45	1342	21	18	<	2.0	0.02	1.06	0.20	3.10	0.21	0.12	0.02	
13942 BL	1600 S	P	<	21	10	71	<	<	<	1	<	<	<	0.1	17	19	244	<	36	58	656	7	26	2	3.0	0.14	1.56	0.28	3.84	0.92	0.23	0.02	
13942 CL000	900 S	P	0.1	6	3	16	115	13	<	4	<	<	<	1.5	30	110	103	<	493	57	1175	<	98	1	35	<	0.15	10.35	3.67	5.33	0.06	0.01	
19342 CL050	900 S	P	<	8	<	10	70	18	<	4	<	<	<	1.4	35	171	48	<	495	49	872	<	212	1	35	<	0.15	11.90	3.50	7.49	0.05	0.01	
19342 CL1	850 S	P	<	7	4	19	416	18	<	3	<	<	<	0.8	56	215	41	<	754	84	1448	<	95	1	60	<	0.20	11.79	5.21	5.96	0.05	0.02	
19342 CL1	900 S	P	0.1	16	4	17	11	<	<	3	<	<	<	0.8	18	54	32	<	283	87	811	<	83	1	48	<	0.15	8.22	3.00	4.46	0.03	0.01	
19342 CL1	975 S	P	<	34	<	15	6	<	<	1	<	<	<	<	1	2	51	<	60	3	281	7	11	6	1	<	0.25	0.34	0.72	0.11	0.12	0.03	
13942 CL3	425 S	P	<	15	8	52	6	<	<	1	<	<	<	<	12	10	224	<	16	74	464	6	26	1	4.0	0.03	1.82	0.31	3.58	0.65	0.24	0.02	
13942 CL3	450 S	P	<	13	7	33	<	<	<	1	<	<	<	<	9	6	165	<	9	52	564	5	25	<	4.0	0.03	1.27	0.34	2.58	0.49	0.23	0.02	
13942 CL3	475 S	P	<	35	8	52	<	<	<	3	<	<	<	<	15	9	198	<	14	63	751	9	29	1	6.0	0.04	1.83	0.48	3.70	0.95	0.51	0.01	
13942 CL3	500 S	P	<	23	10	40	<	<	<	2	<	<	<	<	12	8	370	<	13	70	1051	8	22	<	4.0	0.03	1.44	0.41	3.34	0.62	0.23	0.02	
13942 CL3	525 S	P	<	17	6	143	<	<	<	<	<	<	<	0.4	7	8	141	<	10	23	432	8	25	<	1.0	0.05	0.68	0.33	1.33	0.27	0.06	0.03	
13942 CL3	550 S	P	<	21	<	68	<	<	<	<	<	<	<	0.1	5	6	84	<	6	21	395	3	19	<	1.0	0.03	0.41	0.30	0.96	0.15	0.04	0.04	
13942 CL3	575 S	P	<	26	7	35	8	<	<	2	<	<	<	<	12	19	140	<	35	53	314	16	25	<	5.0	0.05	1.18	0.53	2.87	0.82	0.06	0.02	
13942 CL3	600 S	P	<	14	7	44	<	<	<	1	<	<	<	0.2	5	3	104	<	5	47	572	4	10	<	1.0	0.02	0.36	0.17	2.25	0.06	0.04	0.02	
13942 CL3	625 S	P	<	9	10	23	<	<	<	<	<	<	<	<	8	8	183	<	20	44	418	6	17	<	2.0	0.05	0.89	0.28	1.93	0.35	0.07	0.02	
13942 CL3	650 S	P	<	13	10	38	12	<	<	1	<	<	<	<	13	15	198	<	24	76	310	6	20	1	4.0	0.06	1.51	0.24	3.60	0.67	0.14	0.01	
13942 CL3	675 S	P	0.1	38	11	50	9	<	<	2	<	<	<	<	18	10	265	<	14	79	1388	15	23	<	9.0	0.05	2.01	0.43	4.29	0.92	0.40	0.02	
13942 CL3	700 S	P	<	77	7	41	5	<	<	2	<	<	<	<	33	15	218	<	22	188	886	3	40	1	10.0	0.04	2.57	0.75	5.24	2.07	0.24	0.02	
13942 CL3	725 S	P	<	27	7	27	6	<	<	1	<	<	<	0.1	13	14	134	<	23	51	475	8	20	1	4.0	0.05	1.04	0.34	2.37	0.64	0.14	0.02	
13942 CL3	750 S	P	<	180	8	39	6	<	<	2	<	<	<	<	73	19	120	<	26	89	793	7	18	<	6.0	0.06	1.86	0.29	4.50	0.97	0.17	0.02	
13942 CL3	775 S	P	<	30	10	64	6	<	<	2	<	<	<	<	21	12	220	<	32	129	1875	16	38	1	11.0	0.05	2.37	0.63	5.21	0.96	0.08	0.02	
13942 CL3	800 S	P	<	45	6	34	6	<	<	1	<	<	<	<	11	6	268	<	8	48	1263	10	30	<	2.0	0.05	1.34	0.48	2.35	0.53	0.14	0.03	
13942 CL3	825 S	P	<	51	6	75	7	<	<	2	<	<	<	<	25	8	114	<	15	117	1116	10	22	<	5.0	0.11	2.65	0.41	4.94	1.82	0.11	0.02	
13942 CL3	850 S	P	<	27	20	84	<	<	<	2	<	<	<	<	22	11	175	<	19	119	656	4	24	1	7.0	0.12	2.70	0.44	4.99	1.60	0.33	0.01	
13942 CL3	875 S	P	<	27	9	62	<	<	<	1	<	<	<	<	16	10	248	<	15	73	1031	9	25	1	4.0	0.08	2.10	0.39	3.58	1.21	0.38	0.02	
13942 CL3	900 S	P	0.1	45	14	67	<	<	<	1	<	<	<	0.1	18	17	217	<	22	66	1468	32	26	<	9.0	0.07	2.07	0.56	3.80	1.27	0.47	0.02	
13942 CL3	925 S	P	<	28	29	57	5	<	<	1	<	<	<	<	15	13	273	<	18	65	953	13	25	1	6.0	0.07	1.92	0.51	3.41	1.04	0.34	0.02	
13942 CL3	950 S	P	<	13	6	67	<	<	<	1	<	<	<	0.3	6	5	174	<	7	36	273	2	17	<	1.0	0.04	0.68	0.29	1.72	0.25	0.05	0.03	
13942 CL3	975 S	P	<	5	2	13	<	<	<	<	<	<	<	0.1	2	1	44	<	2	18	96	<	10	<	<	<	0.03	0.20	0.11	0.65	0.08	0.04	0.04
13942 CL3	1000 S	P	<	10	7	45	<	<	<	1	<	<	<	0.1	6	3	186	<	7	44	360	3	16	<	2.0	0.02	0.58	0.19	1.95	0.22	0.12	0.02	
13942 CL3	1025 S	P	0.1	28	8	71	5	<	<	2	<	<	<	<	15	11	213	<	17	58	920	10	31	<	4.0	0.05	1.76	0.33	3.81	1.03	0.28	0.02	



CERTIFICATE OF ANALYSIS

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Client: Northern Analytical Laboratories
Project: WO 13942 195 Pulp

iPL: 93F2503

Out: Jun 28, 1993
In: Jun 25, 1993

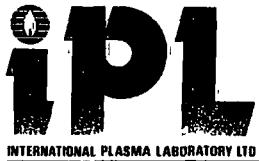
Page 2 of 5

Section 2 of 2
Certified BC Assayer: David Chiu

Sample Name	P	%
13942 BL	1025 S	P 0.06
13942 BL	1050 S	P 0.12
13942 BL	1075 S	P 0.08
13942 BL	1100 S	P 0.05
13942 BL	1229 S	P 0.04
13942 BL	1300 S	P 0.03
13942 BL	1400 S	P 0.04
13942 BL	1516 S	P 0.03
13942 BL	1600 S	P 0.03
13942 CL000	900 S	P 0.01
19342 CL050	900 S	P 0.01
19342 CL1	850 S	P 0.02
19342 CL1	900 S	P 0.01
19342 CL1	975 S	P 0.01
13942 CL3	425 S	P 0.02
13942 CL3	450 S	P 0.02
13942 CL3	475 S	P 0.02
13942 CL3	500 S	P 0.02
13942 CL3	525 S	P 0.05
13942 CL3	550 S	P 0.06
13942 CL3	575 S	P 0.07
13942 CL3	600 S	P 0.03
13942 CL3	625 S	P 0.02
13942 CL3	650 S	P 0.02
13942 CL3	675 S	P 0.04
13942 CL3	700 S	P 0.04
13942 CL3	725 S	P 0.03
13942 CL3	750 S	P 0.04
13942 CL3	775 S	P 0.04
13942 CL3	800 S	P 0.06
13942 CL3	825 S	P 0.05
13942 CL3	850 S	P 0.03
13942 CL3	875 S	P 0.03
13942 CL3	900 S	P 0.06
13942 CL3	925 S	P 0.04
13942 CL3	950 S	P 0.03
13942 CL3	975 S	P 0.01
13942 CL3	1000 S	P 0.03
13942 CL3	1025 S	P 0.03

Min Limit 0.01
Max Reported* 5.00
Method 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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Page 3 of 5

Section 2 of 2
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Sample Name	P	%
13942 CL3 1050 S	P	0.02
13942 CL3 1075 S	P	0.02
13942 CL3 1100 S	P	0.25
13942 CL3 1125 S	P	0.01
13942 CL3 1150 S	P	0.02
13942 CL3 1175 S	P	0.02
13942 CL3 1200 S	P	0.03
13942 CL3 1225 S	P	0.02
13942 CL3 1250 S	P	0.01
13942 CL3 1275 S	P	0.01
13942 CL3 1300 S	P	0.02
13942 CL3 1325 S	P	0.01
13942 CL3 1350 S	P	0.02
13942 CL3 1375 S	P	0.03
13942 CL3 1400 S	P	0.03
13942 CL3 1425 S	P	0.03
13942 CL3 1450 S	P	0.01
13942 CL3 1475 S	P	0.02
13942 CL3 1500 S	P	0.01
13942 RL2 BL000	P	0.02
13942 RL2 BL000 100N	P	0.04
13942 RL2 BL000 625N	P	0.03
13942 RL2 BL10N	P	0.03
13942 RL2 BL20N	P	0.04
13942 RL2 BL30N L100N 20P	P	0.02
13942 RL2 BL30N L100N 30P	P	0.02
13942 RL2 BL50N L100N 00P	P	0.02
13942 RL2 L000 10 E	P	0.07
13942 RL2 L000 20 E	P	0.08
13942 RL2 L000 30 E	P	0.13
13942 RL2 L000 10 W	P	0.04
13942 RL2 L000 20 W	P	0.02
13942 RL2 L000 30 W	P	0.03
13942 RL2 L000 40 W	P	0.03
13942 RL2 L000 50 W	P	0.03
13942 RL2 L000 60 W	P	0.02
13942 RL2 L000 70 W	P	0.06
13942 RL2 L000 80 W	P	0.13
13942 RL2 L000 90 W	P	0.06

Min Limit 0.01
Max Reported* 5.00
Method ICP

--No Test Ins=Insufficient Sample S=Soil R=Rock C=Core L=Slit P=Pulp U=Undefined m=Estimate/1000 z=Estimate% M=No Estimate
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CERTIFICATE OF ANALYSIS

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Client: Northern Analytical Laboratories
Project: WO 13942 195 Pulp

PL: 93F2503

Out: Jun 28, 1993
In: Jun 25, 1993

Page

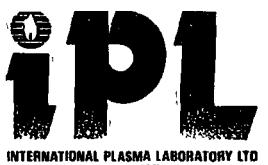
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5 Section 1 of 2
Certified BC Assayer: David Chiu

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 ppm	Al %	Ca %	Fe %	Mg %	K %	Na %	
13942 RL2 L000	100 W	P	<	6	7	52	<	<	1	<	<	<	5	6	103	<	17	47	195	4	13	1	2	0.09	0.71	0.18	1.45	0.35	0.06	0.02	
13942 RL2 L010N	10 E	P	<	7	6	48	7	<	1	<	<	<	10	11	95	<	26	59	234	4	18	1	2	0.06	0.88	0.28	2.36	0.57	0.07	0.02	
13942 RL2 L010N	20 E	P	<	52	9	70	17	<	2	<	<	0.1	19	47	252	<	49	66	700	20	26	3	8	0.10	1.83	0.48	3.77	1.13	0.25	0.02	
13942 RL2 L010N	30 E	P	<	13	4	36	13	<	1	<	<	0.2	10	13	81	<	34	73	336	7	27	<	3	0.04	0.72	0.54	2.78	0.56	0.06	0.02	
13942 RL2 L010N	10 W	P	<	22	9	42	7	<	1	<	<	0.1	11	16	206	<	36	86	254	5	19	<	3	0.06	1.39	0.23	3.36	0.59	0.07	0.02	
13942 RL2 L010N	20 W	P	<	11	5	53	15	5	<	1	<	<	0.5	12	12	236	<	37	95	769	5	20	<	2	0.09	1.04	0.24	3.33	0.43	0.09	0.02
13942 RL2 L010N	30 W	P	<	14	7	54	14	<	1	<	<	0.3	10	13	84	<	34	101	307	4	13	<	3	0.08	1.43	0.15	3.97	0.59	0.06	0.02	
13942 RL2 L010N	40 W	P	0.2	11	6	71	9	<	1	<	<	0.2	9	11	88	<	29	90	347	4	13	<	3	0.07	1.16	0.14	3.36	0.48	0.07	0.02	
13942 RL2 L010N	50 W	P	<	9	6	28	<	<	1	<	<	0.1	5	5	74	<	18	59	125	3	11	<	1	0.07	0.66	0.12	1.72	0.25	0.04	0.02	
13942 RL2 L010N	70 W	P	<	286	127	88	925	73	<	5	<	<	<	14	28	1000	<	37	68	7710	47	98	<	10	0.04	1.41	1.26	6.32	0.46	0.04	0.02
13942 RL2 L010N	80 W	P	<	11	9	33	12	<	<	2	<	<	<	9	10	286	<	28	59	289	5	24	<	2	0.08	1.11	0.35	2.31	0.47	0.11	0.02
13942 RL2 L010N	90 W	P	<	6	6	24	6	<	<	1	<	<	0.1	5	7	115	<	22	65	122	4	13	<	1	0.08	0.58	0.16	1.93	0.26	0.04	0.01
13942 RL2 L010N	100 W	P	<	11	6	30	10	<	<	1	<	<	<	8	12	137	<	21	52	181	5	12	1	2	0.04	1.07	0.19	2.35	0.53	0.05	0.01
13942 RL2 L020N	10 E	P	<	18	6	39	12	<	<	1	<	<	0.1	10	15	164	<	29	61	288	4	20	<	2	0.04	1.33	0.34	2.70	0.62	0.07	0.02
13942 RL2 L020N	20 E	P	<	33	11	50	17	<	<	2	<	<	0.1	16	26	191	<	42	79	489	6	24	1	4	0.06	1.92	0.41	3.88	0.85	0.15	0.02
13942 RL2 L020N	30 E	P	<	60	14	61	13	<	<	1	<	<	<	17	34	258	<	45	60	636	17	26	3	6	0.10	1.63	0.50	3.23	1.07	0.21	0.02
13942 RL2 L020N	40 E	P	<	18	7	36	10	<	<	1	<	<	0.1	11	14	156	<	33	71	408	10	34	<	3	0.05	0.92	0.63	2.85	0.65	0.07	0.02
13942 RL2 L020N	10 W	P	<	9	5	26	<	<	<	1	<	<	<	8	10	164	<	24	66	203	4	17	<	2	0.06	1.03	0.26	2.40	0.43	0.11	0.02
13942 RL2 L020N	20 W	P	<	6	7	34	5	<	<	1	<	<	0.2	6	5	69	<	16	61	197	4	11	<	2	0.08	0.67	0.13	2.03	0.30	0.08	0.01
13942 RL2 L020N	30 W	P	<	7	6	78	<	<	<	1	<	<	0.2	15	11	94	<	28	70	691	3	13	<	2	0.09	1.04	0.17	2.59	0.53	0.07	0.02
13942 RL2 L020N	40 W	P	<	11	10	35	6	<	<	1	<	<	0.1	7	7	82	<	24	71	228	3	12	<	2	0.06	0.89	0.14	2.59	0.33	0.04	0.01
13942 RL2 L020N	50 W	P	<	13	8	31	<	<	<	1	<	<	0.2	7	7	161	<	19	44	164	5	18	1	1	0.06	1.16	0.14	1.92	0.24	0.06	0.02
13942 RL2 L020N	60 W	P	<	8	2	18	<	<	<	1	<	<	0.2	4	3	57	<	12	36	95	3	10	<	1	0.07	0.42	0.11	1.11	0.16	0.05	0.02
13942 RL2 L020N	80 W	P	<	39	14	50	16	<	<	3	<	<	<	17	26	447	<	47	94	1562	12	27	3	6	0.09	3.28	0.35	4.54	0.31	0.07	0.02
13942 RL2 L020N	90 W	P	<	5	6	36	8	<	<	2	<	<	0.1	8	10	112	<	28	72	175	5	14	1	2	0.08	0.96	0.19	2.66	0.39	0.08	0.02
13942 RL2 L020N	100 W	P	<	17	6	52	6	<	<	1	<	<	0.2	7	9	58	<	23	56	194	5	13	1	2	0.07	0.70	0.18	2.06	0.30	0.04	0.02
13942 RL2 L030N	10 E	P	0.2	14	9	51	21	9	5	<	<	<	0.6	15	24	292	<	39	91	566	8	35	1	4	0.08	1.86	0.62	3.71	0.73	0.20	0.02
13942 RL2 L030N	20 E	P	<	12	6	42	10	<	<	1	<	<	<	9	12	112	<	31	92	266	4	18	1	3	0.07	1.38	0.22	3.43	0.63	0.06	0.02
13942 RL2 L030N	30 E	P	<	13	7	39	7	<	<	1	<	<	0.2	10	10	143	<	24	67	271	3	17	<	2	0.07	1.12	0.25	2.62	0.55	0.10	0.02
13942 RL2 L030N	40 E	P	<	17	7	39	10	<	<	2	<	<	0.1	12	13	134	<	31	84	486	3	21	<	3	0.06	1.20	0.29	3.40	0.62	0.13	0.02
13942 RL2 L030N	50 E	P	<	12	4	41	9	<	<	<	<	<	9	12	105	<	27	61	322	7	26	<	3	0.04	0.71	0.46	2.42	0.57	0.06	0.02	
13942 RL2 L030N	10 W	P	<	7	5	19	5	<	<	1	<	<	<	7	10	92	<	24	69	133	4	16	1	1	0.04	0.94	0.25	2.36	0.33	0.06	0.02
13942 RL2 L030N	20 W	P	<	8	7	43	11	<	<	1	<	<	0.2	9	11	72	<	33	98	236	4	13	<	2	0.09	0.96	0.16	3.49	0.42	0.05	0.02
13942 RL2 L030N	30 W	P	<	5	4	20	<	<	<	1	<	<	0.1	5	5	39	<	18	52	106	3	13	<	1	0.07	0.43	0.15	1.64	0.19	0.04	0.01
13942 RL2 L030N	40 W	P	<	9	6	26	<	<	<	1	<	<	0.3	6	6	121	<	24	53	380	3	13	<	1	0.06	0.51	0.13	1.73	0.18	0.05	0.02
13942 RL2 L030N	50 W	P	<	13	7	28	8	<	<	1	<	<	0.3	7	7	68	<	24	88	169	4	14	<	2	0.08	0.84	0.14	2.70	0.35	0.10	0.02
13942 RL2 L030N	60 W	P	0.1	10	6	29	<	<	1	<	<	0.2	6	6	142	<	22	48	152	4	18	<	2	0.05	0.61	0.20	1.90	0.22	0.06	0.01	
13942 RL2 L030N	70 W	P	<	14	9	39	6	<	<	1	<	<	<	9	12	210	<	26	55	315	6	18	1	2	0.07	1.39	0.19	2.39	0.31	0.05	0.02
13942 RL2 L030N	80 W	P	<	7	9	37	<	<	2	<	<	<	9	12	109	<	37	89	151	7	12	<	4	0.06	0.98	0.14	2.88	0.35	0.14	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** **0.01** **0.01** **0.01** **0.01** **0.01** **0.01**

-- No Test - Insufficient Sample



CERTIFICATE OF ANALYSIS
iPL 93F2503

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Client: Northern Analytical Laboratories Project: W0 13942	195 Pulp	iPL: 93F2503	Out: Jun 28, 1993 In: Jun 25, 1993	Page 4 of 5	Section 2 of 2 Certified BC Assayer: David Chiu
Sample Name					
	P				
	%				
13942 RL2 L000 100 W	P 0.02				
13942 RL2 L010N 10 E	P 0.06				
13942 RL2 L010N 20 E	P 0.06				
13942 RL2 L010N 30 E	P 0.14				
13942 RL2 L010N 10 W	P 0.03				
13942 RL2 L010N 20 W	P 0.05				
13942 RL2 L010N 30 W	P 0.12				
13942 RL2 L010N 40 W	P 0.05				
13942 RL2 L010N 50 W	P 0.02				
13942 RL2 L010N 70 W	P 0.17				
13942 RL2 L010N 80 W	P 0.03				
13942 RL2 L010N 90 W	P 0.02				
13942 RL2 L010N 100 W	P 0.03				
13942 RL2 L020N 10 E	P 0.09				
13942 RL2 L020N 20 E	P 0.08				
13942 RL2 L020N 30 E	P 0.07				
13942 RL2 L020N 40 E	P 0.12				
13942 RL2 L020N 10 W	P 0.02				
13942 RL2 L020N 20 W	P 0.03				
13942 RL2 L020N 30 W	P 0.06				
13942 RL2 L020N 40 W	P 0.04				
13942 RL2 L020N 50 W	P 0.04				
13942 RL2 L020N 60 W	P 0.02				
13942 RL2 L020N 80 W	P 0.11				
13942 RL2 L020N 90 W	P 0.02				
13942 RL2 L020N 100 W	P 0.03				
13942 RL2 L030N 10 E	P 0.05				
13942 RL2 L030N 20 E	P 0.08				
13942 RL2 L030N 30 E	P 0.07				
13942 RL2 L030N 40 E	P 0.05				
13942 RL2 L030N 50 E	P 0.12				
13942 RL2 L030N 10 W	P 0.02				
13942 RL2 L030N 20 W	P 0.09				
13942 RL2 L030N 30 W	P 0.02				
13942 RL2 L030N 40 W	P 0.02				
13942 RL2 L030N 50 W	P 0.04				
13942 RL2 L030N 60 W	P 0.03				
13942 RL2 L030N 70 W	P 0.04				
13942 RL2 L030N 80 W	P 0.06				

Min Limit 0.01
Max Reported* 5.00
Method ICP

---No Test ins=Insufficient Sample S=Silt R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 %=Estimate % Max No Estimate
International Plasma Lab 2036 Columbia Vanc BC BE1 4/87 8 F 4/87



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Client: Northern Analytical Laboratories
Project: WO 13942 195 Pulp

iPL: 93F2503

Out: Jun 28, 1993

iPL 93F2503

Client: Northern Analytical Laboratories iPL: 93F2503 Out: Jun 28, 1993 Page 5 of 5 Section 1 of 2
Project: WO 13942 195 Pulp In: Jun 25, 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 ppm	A1 %	Ca %	Fe %	Mg %	K %	Na %		
13942 RL2 L030N	90 W	P	<	8	6	33	7	<	<	1	<	<	<	8	10	144	<	28	79	200	5	17	<	2	0.08	0.99	0.22	2.79	0.45	0.08	0.02	
13942 RL2 L030N	100 W	P	<	11	8	59	10	<	<	2	<	<	0.2	12	25	86	<	44	79	237	4	13	1	3	0.11	1.26	0.18	3.18	0.70	0.09	0.02	
13942 RL2 L040N	10 E	P	<	15	5	38	10	<	<	1	<	<	<	<	12	17	142	<	35	79	277	4	25	1	3	0.07	1.50	0.47	3.28	0.75	0.13	0.02
13942 RL2 L040N	20 E	P	<	9	4	35	15	<	<	<	<	<	0.1	10	13	94	<	39	99	235	4	25	1	3	0.05	1.34	0.35	3.65	0.57	0.07	0.02	
13942 RL2 L040N	30 E	P	<	9	7	54	7	<	<	1	<	<	0.4	8	11	211	<	31	72	368	4	24	<	3	0.09	1.04	0.33	2.64	0.51	0.12	0.02	
13942 RL2 L040N	40 E	P	<	10	6	33	12	<	<	<	<	<	0.3	9	12	185	<	35	96	239	5	29	1	3	0.08	1.06	0.37	3.25	0.46	0.08	0.02	
13942 RL2 L040N	60 E	P	<	18	5	40	16	<	<	1	<	<	0.2	11	18	134	<	32	63	446	9	35	1	4	0.06	1.11	0.62	2.68	0.78	0.07	0.03	
13942 RL2 L040N	70 E	P	<	13	4	46	7	<	<	1	<	<	0.2	9	11	116	<	31	63	409	6	30	<	3	0.04	0.73	0.58	2.48	0.54	0.07	0.02	
13942 RL2 L040N	80 E	P	<	19	3	36	8	<	<	<	<	<	0.3	9	11	74	<	28	68	262	4	28	<	2	0.05	0.65	0.38	2.47	0.48	0.06	0.02	
13942 RL2 L040N	90 E	P	<	19	3	43	21	<	<	<	<	<	<	13	22	138	<	51	109	369	11	38	1	4	0.07	1.09	0.78	4.01	0.77	0.09	0.03	
13942 RL2 L040N	10 W	P	0.1	7	4	27	5	<	<	1	<	<	0.1	7	7	143	<	22	60	331	5	17	<	2	0.08	0.67	0.23	2.02	0.26	0.06	0.02	
13942 RL2 L040N	20 W	P	<	9	5	36	5	<	<	1	<	<	0.2	7	8	91	<	26	74	260	4	16	1	2	0.08	0.71	0.19	2.37	0.24	0.05	0.02	
13942 RL2 L040N	30 W	P	<	9	6	42	5	<	<	1	<	<	<	12	9	132	<	26	87	478	3	18	1	3	0.15	1.31	0.23	2.62	0.89	0.25	0.02	
13942 RL2 L040N	40 W	P	<	9	5	30	5	<	<	1	<	<	0.1	7	8	70	<	27	75	172	4	17	<	2	0.09	0.62	0.18	2.27	0.29	0.08	0.02	
13942 RL2 L040N	60 W	P	<	16	6	43	5	<	<	1	<	<	<	13	12	231	<	28	66	592	5	33	<	3	0.10	1.33	0.49	2.98	0.82	0.11	0.02	
13942 RL2 L040N	70 W	P	<	5	4	15	5	<	<	1	<	<	<	5	4	145	<	14	33	87	5	19	1	1	0.08	0.62	0.22	1.02	0.18	0.05	0.02	
13942 RL2 L040N	80 W	P	<	5	7	31	6	<	<	1	<	<	<	8	8	116	<	19	50	224	4	13	<	1	0.09	0.97	0.17	2.14	0.62	0.22	0.01	
13942 RL2 L040N	90 W	P	<	10	7	34	8	<	<	1	<	<	<	10	14	95	<	27	51	195	5	13	1	2	0.07	0.91	0.24	2.51	0.50	0.10	0.02	
13942 RL2 L040N	100 W	P	<	5	6	28	8	<	<	<	<	<	0.1	6	6	102	<	17	47	156	4	10	<	2	0.04	0.56	0.15	1.76	0.26	0.08	0.02	
13942 RL2 L050N	10 E	P	0.1	19	6	33	8	<	<	2	<	<	<	11	14	260	<	30	83	337	4	26	<	3	0.06	1.45	0.48	3.12	0.71	0.17	0.02	
13942 RL2 L050N	20 E	P	<	8	6	32	5	<	<	2	<	<	0.1	8	9	222	<	24	66	367	4	22	<	2	0.06	0.98	0.34	2.48	0.38	0.11	0.02	
13942 RL2 L050N	30 E	P	<	7	6	60	7	<	<	1	<	<	0.2	9	12	75	<	36	91	207	4	21	1	3	0.06	1.16	0.28	3.30	0.49	0.06	0.02	
13942 RL2 L050N	40 E	P	<	35	8	54	10	<	<	1	<	<	<	8	10	129	<	30	73	201	4	24	<	2	0.06	1.07	0.34	2.70	0.51	0.07	0.02	
13942 RL2 L050N	50 E	P	<	11	4	31	9	<	<	1	<	<	0.1	8	9	171	<	27	72	236	3	24	<	2	0.06	0.99	0.33	2.72	0.47	0.07	0.02	
13942 RL2 L050N	60 E	P	0.1	20	8	54	7	<	<	1	<	<	0.1	12	18	198	<	32	57	416	8	22	1	4	0.08	1.34	0.38	2.89	0.89	0.21	0.02	
13942 RL2 L050N	70 E	P	<	26	7	41	7	<	<	1	<	<	<	13	20	137	<	37	60	343	6	21	1	4	0.08	1.33	0.31	2.95	0.86	0.19	0.02	
13942 RL2 L050N	80 E	P	0.1	12	7	32	8	<	<	1	<	<	0.1	7	11	166	<	27	55	241	5	19	<	2	0.05	0.93	0.28	2.26	0.40	0.09	0.02	
13942 RL2 L050N	90 E	P	<	13	5	28	8	<	<	1	<	<	0.1	9	11	100	<	29	69	254	6	28	<	2	0.04	0.77	0.49	2.59	0.53	0.06	0.02	
13942 RL2 L050N	100 E	P	<	16	7	43	15	<	<	1	<	<	0.2	11	15	129	<	36	77	368	9	31	<	3	0.05	1.03	0.52	3.04	0.71	0.08	0.03	
13942 RL2 L050N	10 W	P	<	5	6	30	5	<	<	1	<	<	0.2	7	7	106	<	19	56	1543	3	12	<	1	0.06	0.60	0.14	2.05	0.14	0.04	0.02	
13942 RL2 L050N	20 W	P	<	7	5	31	5	<	<	1	<	<	0.1	8	10	180	<	24	65	450	4	17	1	2	0.06	0.83	0.18	2.23	0.33	0.07	0.02	
13942 RL2 L050N	30 W	P	<	8	5	29	5	<	<	1	<	<	0.1	7	4	99	<	16	58	1293	4	11	<	1	0.07	0.71	0.13	1.75	0.16	0.05	0.02	
13942 RL2 L050N	40 W	P	<	52	8	21	5	<	<	1	<	<	0.1	7	8	278	<	23	45	284	21	35	1	5	0.06	1.54	0.42	1.82	0.23	0.04	0.03	
13942 RL2 L050N	50 W	P	<	32	10	50	5	<	<	1	<	<	<	12	13	442	<	32	67	392	7	47	1	4	0.09	1.53	0.59	2.83	0.65	0.09	0.02	
13942 RL2 L050N	60 W	P	<	12	9	23	5	<	<	1	<	<	<	7	6	281	<	18	40	142	5	22	<	2	0.08	0.87	0.26	1.41	0.33	0.05	0.02	
13942 RL2 L050N	70 W	P	0.1	10	5	27	7	<	<	1	<	<	0.2	12	15	170	<	29	59	198	5	19	<	2	0.07	0.96	0.22	2.43	0.45	0.07	0.02	
13942 RL2 L050N	80 W	P	<	9	7	34	9	<	<	2	<	<	0.2	6	5	99	<	27	52	319	5	13	1	2	0.06	1.02	0.20	2.48	0.46	0.08	0.01	
13942 RL2 L050N	90 W	P	<	3	4	21	5	<	<	1	<	<	0.2	15	14	280	<	15	38	506	3	8	<	1	0.05	0.46	0.10	1.53	0.15	0.04	0.02	
13942 RL2 L050N	100 W	P	<	13	10	77	10	<	<	1	<	<	<	15	14	280	<	37	79	478	4	17	1	3	0.06	1.37	0.26	4.15	0.63	0.10	0.01	



CERTIFICATE OF ANALYSIS

iPL 93F2503

2036 Columbia Street
Vancouver, B.C.
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Phone (604) 879-7878
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Client: Northern Analytical Laboratories
Project: WO 13942

iPL: 93F2503

Out: Jun 28, 1993
In: Jun 25, 1993

Page 5 of 5
Section 2 of 2
Certified BC Assayer: David Chiu

Sample Name	P	%
13942 RL2 L030N 90 W		0.03
13942 RL2 L030N 100 W		0.06
13942 RL2 L040N 10 E		0.04
13942 RL2 L040N 20 E		0.13
13942 RL2 L040N 30 E		0.07
13942 RL2 L040N 40 E		0.03
13942 RL2 L040N 60 E		0.15
13942 RL2 L040N 70 E		0.10
13942 RL2 L040N 80 E		0.04
13942 RL2 L040N 90 E		0.18
13942 RL2 L040N 10 W		0.03
13942 RL2 L040N 20 W		0.03
13942 RL2 L040N 30 W		0.04
13942 RL2 L040N 40 W		0.03
13942 RL2 L040N 60 W		0.04
13942 RL2 L040N 70 W		0.01
13942 RL2 L040N 80 W		0.03
13942 RL2 L040N 90 W		0.03
13942 RL2 L040N 100 W		0.02
13942 RL2 L050N 10 E		0.02
13942 RL2 L050N 20 E		0.02
13942 RL2 L050N 30 E		0.11
13942 RL2 L050N 40 E		0.05
13942 RL2 L050N 50 E		0.07
13942 RL2 L050N 60 E		0.08
13942 RL2 L050N 70 E		0.03
13942 RL2 L050N 80 E		0.02
13942 RL2 L050N 90 E		0.07
13942 RL2 L050N 100 E		0.11
13942 RL2 L050N 10 W		0.03
13942 RL2 L050N 20 W		0.03
13942 RL2 L050N 30 W		0.03
13942 RL2 L050N 40 W		0.04
13942 RL2 L050N 50 W		0.03
13942 RL2 L050N 60 W		0.02
13942 RL2 L050N 70 W		0.02
13942 RL2 L050N 80 W		0.02
13942 RL2 L050N 90 W		0.02
13942 RL2 L050N 100 W		0.07

Min Limit 0.01
Max Reported* 5.00
Method ICP

--No Test, n=Insufficient Sample, S=Soil, R=Rock, C=Cores, L=Slit, P=Pulp, U=undefined, e=Estimate/1000, z=Estimate, M=No Estimate

Platinum Lab Ltd., 2036 Columbia St., Vancouver, BC V5Y 3E1 Tel: 604/879-7878 Fax: 604/879-7898

iPL Report: 9200812 T Northern Analytical Laboratories
Project: W/O 13731

In: Sep 25, 1992
Out: Sep 28, 1992

Page 1 of 1
1 Pulp

Section 1 of 1
Certified BC Assayer

DC 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 %
HR #11	P	0.1m	3871	7019	13692	57	25	<	7	< 171	0.1m	29	69	10	102	306	55	2626	2	141	2	24	0.01	0.64	7.04	3.43	2.92	0.10	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 0.01
 Max Reported* 99.9 20000 20000 20000 9999 9999 9999 9999 9999 9999 99.9 999 9999 9999 9999 9999 9999 9999 9999 9999 9999 9999 9999 9999 9999 9999 9999 9999 9999 9999
 Method ICP ICP
 ---No Test ins=Insufficient Sample S=Soil R=Rock C=Core L=Silt P=Pulp U=Undefined m=Estimate/1000 Z=Estimate % Max=No Estimate
 International Plasma Lab Ltd. 2036 Columbia St. Vancouver BC V5Y 3E1 Ph: 604/870-7898 Fax: 604/870-7899



INTERNATIONAL PLASMA LABORATORY LTD

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PL Report: 9200755 T Northern Analytical Laboratories
Project: W/O 13731

In: Sep 11, 1992
Out: Sep 14, 1992

Page 1 of 1

**Section 1 of
Certified BC Assayer**

David Chu

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	B1 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 %
13731 HR-10	P	<	696	2	39	<	<	<	3	<	<	<	70	116	112	<	30	666	341	<	45	4	12	0.31	1.02	1.98	9.53	1.45	0.17	0.18	0.08

25-Sep-92 date

Assay Certificate

page 2

A Black

WO#13731

Sample #	Au ppb	Ag ppm	Cu ppm
HR8	21	0.4	679
RLCR1SILT1	1078	0.7	13
RLCR1SILT2	46	0.8	11
RLCR1SILT3	88	0.6	14
RLCR1SILT4	31	0.5	16
RLCR1SILT5	232	0.7	15
RLCR1SILT6	15	0.3	10
RLCR1SILT7	65	0.6	19
RLHR8	<5	0.1	18
RLHR9	<5		
SILT8CR1	14	<0.1	14
SILT8CR12	14	<0.1	12
SILT8CR5	18	<0.1	36
WEST1	61	<0.1	38
WEST2	105	<0.1	61
WEST3	10	1.2	27
WEST4	85	0.9	23

Certified by *Chyokie*



25-Sep-92 date

Assay Certificate

page 1

A. Black

WO#13731

Sample #	Au ppb	Ag ppm	Cu ppm
BL00S	71	1.5	7
BL150S	99	1.1	14
BL225S	81	<0.1	25
BL300S	31	<0.1	18
BL375S	84	<0.1	18
BL450S	137	<0.1	23
BL525S	35	<0.1	25
BL600S	28	0.3	21
BL675S	67	1.2	57
BL750S	15	<0.1	19
BL755	109	0.7	11
BL825S	131	<0.1	15
BL900S	134	<0.1	17
BL975S	73	<0.1	22
CR2-1	15	<0.1	9
CR2-2	32	0.5	12
CR2-3	88	0.5	14
CR2-4	1007	0.2	10
CR2-5	65	0.4	6
CR3-2	68	0.4	18
CR3-3	114	0.4	18
CR3-4	773	0.5	20
CR4-1	64	<0.1	12
CR4-2	56	<0.1	12
CR4-3	59	<0.1	13
CR4-4	24	<0.1	11
CR4-5	108	0.3	10
CR5-1	42	0.6	13
GS13	13	0.2	28
HR1	16	<0.1	6
HR11	38	180.0	954
HR12	24	0.1	19
HR2	230	<0.1	143
HR3	14	<0.1	28
HR4	9	<0.1	2
HR5	25	<0.1	37
HR6	27	<0.1	36
HR7	37	<0.1	9

Certified by *Chet Black*



