MAP NO.:	**ASSESSMENT REPORT**	X	**DOCUMENT NO:** 092881
	PROSPECTUS		**MINING DISTRICT:** WHITEHORSE
105 E 15	**CONFIDENTIAL**	X	**TYPE OF WORK:** Geological
	OPEN FILE		Geochemical

REPORT FILED UNDER: COMAPLEX MINERALS CORP.

DATE PERFORMED: September 16, 1990 **DATE FILED:** Nov 14, 1990

LOCATION: **LAT.:** 61°54'N **AREA:** Big Salmon Range

LONG.: 134°38'W **VALUE $:** 4 400

CLAIM NAME & NO.: FONE 1-22

WORK DONE BY: Aurum Geological Consultants Inc.

WORK DONE FOR: Comaplex Minerals Corp.

DATE TO GOOD STANDING:	

REMARKS: This helicopter accessable property is located on Lokken Creek in the Big Salmon Range. Gold arsenic and antimony anomalies from 15 rock and soil anomalies indicate mineralization on the prop erty. The prop. has geological characteristics similar to the Grew Creek deposit and Semenof showing. Perm gneiss is on east side and Penn limestone is on west side of Big Salmon Fault. NE trending right lateral transcurrent fault offsets the BSF 1 km. Property also has resistant, thick bedded to massive conglomerate and sandstone. Pliocene white weathering rhyolite occupies SE corner of the property bounded by normal faults.

Affaires indiennes et du Nord Canada

M.R. file no.

R.M.M.R. file no.

Date forwarded
14 NOV 1990

TRANSMITTAL FORM

From ▶ Mining Recorder at Whitehorse

To ▶ Regional Manager, Mineral Rights at Whitehorse, Y.T.

For action are:

- ☐ NEW APPLICATION FOR PLACER LEASE TO PROSPECT — Name
- ☐ RENEWAL APPLICATION PLACER LEASE TO PROSPECT — Name — Lease no.
- ☐ AFFIDAVIT OF EXPENDITURE ON PLACER LEASE — Name — Lease no.
- ☐ SECURITY DEPOSIT
- ☐ FINANCIAL ABILITY
- ☐ ASSIGNMENT OF PLACER LEASE NO. — From — To
- ☐ GROUPING APPLICATION UNDER SEC. 52(2) PLACER MINING ACT. — Owner
- ☐ DIAMOND DRILL LOGS — Claims — Claim sheet no.
- ☑ QUARTZ ASSESSMENT REPORT — Claims: Fone 1-22 — Claim sheet no.: 105-E-15
  - Type of report: Geological / Geochem
  - Submitted by: Acum Geological
  - Cls. work performed on: Fone 1-22
  - $ req. for ren. application: 4400.00

M Dauthwick
Signature

REPLY ACTION

Date returned

092881
Nov 21/90

Signature

802-37 (7-88)

092881

REPORT ON THE 1989 GEOLOGICAL AND GEOCHEMICAL ASSESSMENT WORK ON THE FONE 1-22 CLAIMS

Whitehorse Mining District, Yukon

Location: 1. 135 km N of Whitehorse, Yukon
2. 105 E/15
3. Latitude: 61° 54'N
Longitude: 134° 38'W

For: **COMAPLEX MINERALS CORP.**
901, 1015 - 4th Street S.W.
Calgary, Alberta
T2R 1J4

By: R. Hulstein, B.Sc., FGAC
L. Walton, M.Sc.
Aurum Geological Consultants Inc.
412-675 West Hastings Street
Vancouver, B.C.
V6B 1N2

November 9, 1990

This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 4,400.

Dec 16/76

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

SUMMARY

The *Fone* property consists of 22 contiguous unsurveyed mineral claims located in the Big Salmon Range, Laberge map sheet, Yukon. The property is accessible by helicopter based out of Carmacks, Yukon, 85 kilometers to the west or by helicopter from Whitehorse, Yukon, 135 kilometers to the south.

Interest in the ground developed in 1988-1989 when it was realized that the *Fone* property has geological characteristics similar to other structurally controlled gold deposits (i.e. Grew Creek gold deposit, Semenof copper-gold occurrence).

The ground was staked in 1989 by Comaplex Minerals Corp. following the release of regional stream sediment geochemistry data by the Geological Survey of Canada. The *Fone* property lies within an area regionally anomalous in gold, antimony, arsenic and mercury.

The NNW trending Tertiary Big Salmon Fault bisects the property and separates the Upper Paleozoic gneisses on the east side from Upper Paleozoic limestones and Pliocene conglomerates and rhyolites on the west side. A younger NE trending fault offsets the Big Salmon Fault by approximately one kilometer on the property.

In 1989 a one day property examination was carried out by a three man field party. Geochemical results from 15 samples (rock, soil and stream sediment) returned up to 1778 ppm arsenic and 202 ppm antimony in a rock sample and up to 15 ppb gold, 55 ppm arsenic and 10 ppm antimony in stream sediment and soil samples.

Based on these results, a program of data compilation, prospecting, geological mapping and geochemical sampling for gold is recommended.

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LIST OF APPENDICES

INTRODUCTION

This report was prepared at the request of Comaplex Minerals Corp., owner of the *Fone 1-22* claims hereafter called the *Fone* property. Its purpose is to assess the economic potential of the property and to satisfy assessment requirements for the *Fone* property through a description of exploration work carried out in 1989.

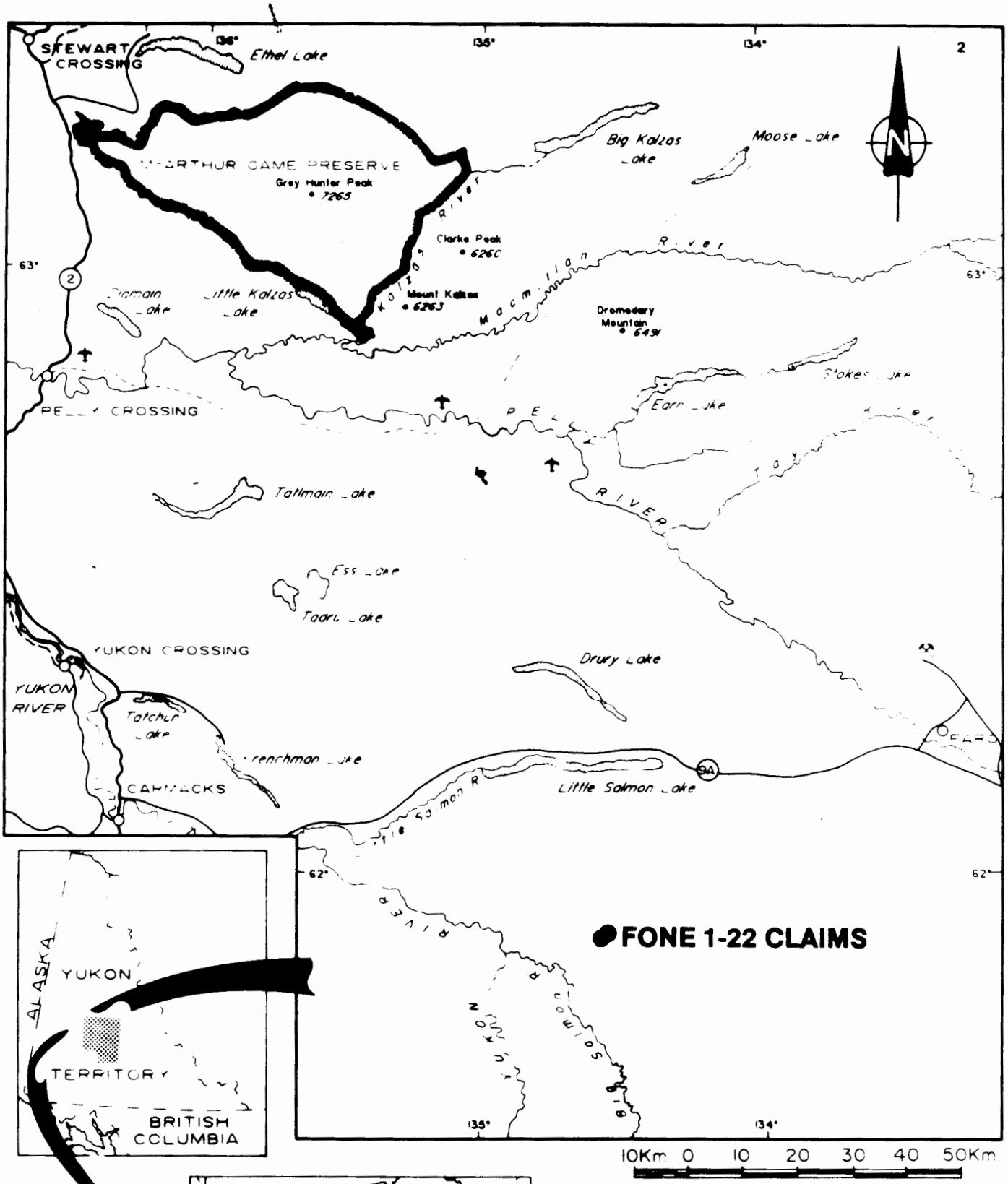
The property is located about 135 kilometers north of Whitehorse, Yukon (Figure 1) in the Whitehorse Mining District, and is accessible by helicopter.

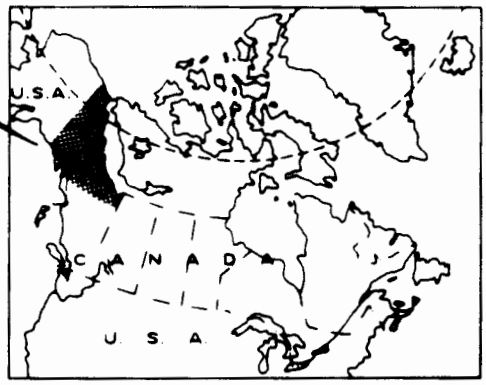
Exploration work carried out in 1989 consisted of reconnaissance geological mapping and geochemical sampling for the purpose of locating gold deposits. This work was carried out by; R. Hulstein, B.Sc. and T. Garagan, B.Sc. of Aurum Geological Consultants Inc. and P. Mudry, B.Sc. of Comaplex Minerals Corp. on Sept. 16, 1989.

LOCATION AND ACCESS

The Fone 1-22 claims are located in the Big Salmon Range 135 km north of Whitehorse, Yukon. The property is centered at approximately 61° 54' N latitude and 134° 38' W longitude within NTS map area 105 E/15.

Access to the property is by helicopter based out of Carmacks 85 kilometers to the west, or Whitehorse, 135 kilometers to the south. The nearest road, highway #4, is located 35 kilometers to the north.





COMAPLEX MINERALS CORP.

FONE CLAIMS
WHITEHORSE MINING DISTRICT

LOCATION

Aurum Geological Consultants Inc.			NOV. / 1990
NTS 105 L/2	DRAWN BY NH	SCALE 1:1,000,000	FIGURE 1

PHYSIOGRAPHY, CLIMATE AND VEGETATION

The Fone property covers a prominent hill in the Big Salmon Range. Elevations range from 915 meters to 1255 meters in an area of rounded hills and mountains with broad U-shaped valleys.

An interior continental climate with moderate to low precipitation of 30 cm annually, warm summers and cold winters typifies the area. Permafrost is discontinuous, present only on the steeper north and east facing slopes and low marshy forested areas. The property is usually snow free from early June to mid September.

Most of the property is covered by spruce forest with thick alder bushes developed on south facing slopes and creek valleys.

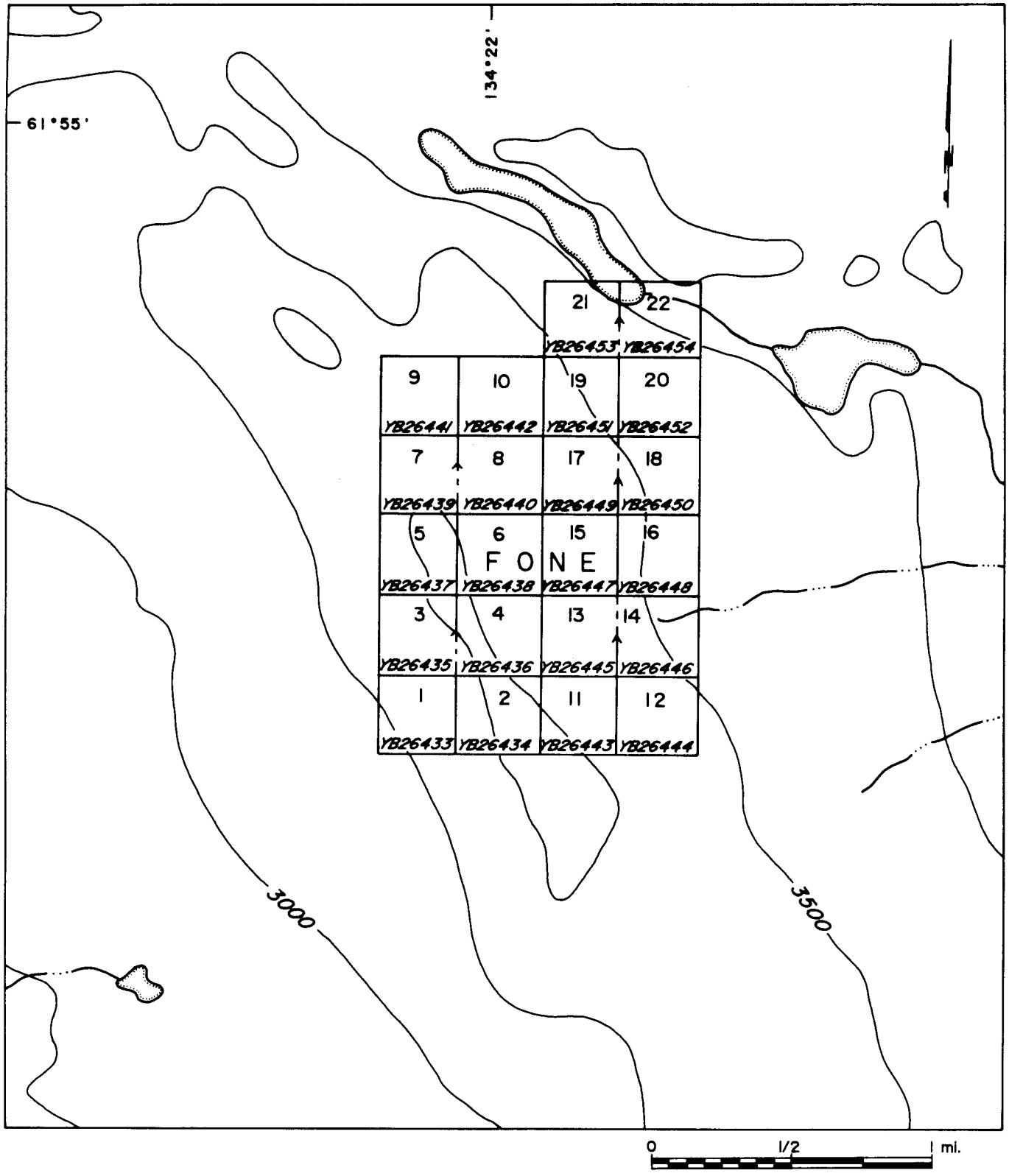
Outcrop is scarce (<5%) except on ridge tops and along creek and stream gullies. Steeper slopes on the property are covered by felsenmeer and talus fines.

PROPERTY

The property consists of 22 contiguous unsurveyed two post quartz claims (covering approximately 1136 acres or 459 hectares) staked in accordance with the Yukon Quartz Mining Act (Figure 2). The Fone 1-22 claims were staked by Aurum Geological Consultants Inc. for Comaplex Minerals Corp. who owns 100% interest in the claims. Claim data are as follows:

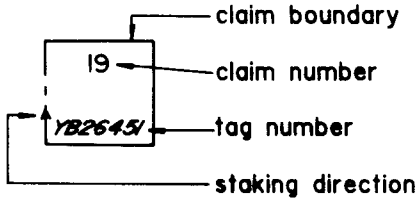
CLAIM NAME	GRANT No.	RECORDING DATE	EXPIRY DATE
Fone 1-22	YB26433-454	July 14, 1989	July 14, 1992*

*Subject to approval of 1989 assessment work.



SCALE 1" = 1/2 mile

LEGEND



NOTE : modified from D.I.A.N.D. map sheet 105 E/15

COMAPLEX MINERALS CORP.			
FONE CLAIMS WHITEHORSE MINING DISTRICT			
CLAIM MAP			
Aurum Geological Consultants Inc.			NOV. 1990
NTS:105E/15	DRAWN BY: LW	SCALE 1:31,680	FIGURE 2

HISTORY

The first known exploration was carried out by Mr. A. Carlos in 1985 in the area of Little Salmon Lake. A epithermal style target, similar to the Grew Creek deposit, was sought in subaerial Tertiary volcanics mapped by Campbell (1967) and Tempelman-Kluit (1984) along the Big Salmon Fault. No previous work has been documented on the area covered by the Fone property.

Mr. Al Carlos brought the project to Aurum Geological Consultants Inc. in early 1989. An option was arranged between Mr. Al Carlos of Whitehorse, Yukon and Comaplex Minerals Corp. of Calgary, Alberta.

The *Fone* property was staked following the release of regional stream sediment sample results on July 6, 1989 by the Geological Survey of Canada. Two samples from creeks draining the property returned anomalous results for gold, mercury, arsenic and, antimony. The GSC stream sediment geochemistry program results, combined with a favorable geological environment for hosting gold deposits, prompted staking of the ground.

GEOLOGY AND MINERALIZATION

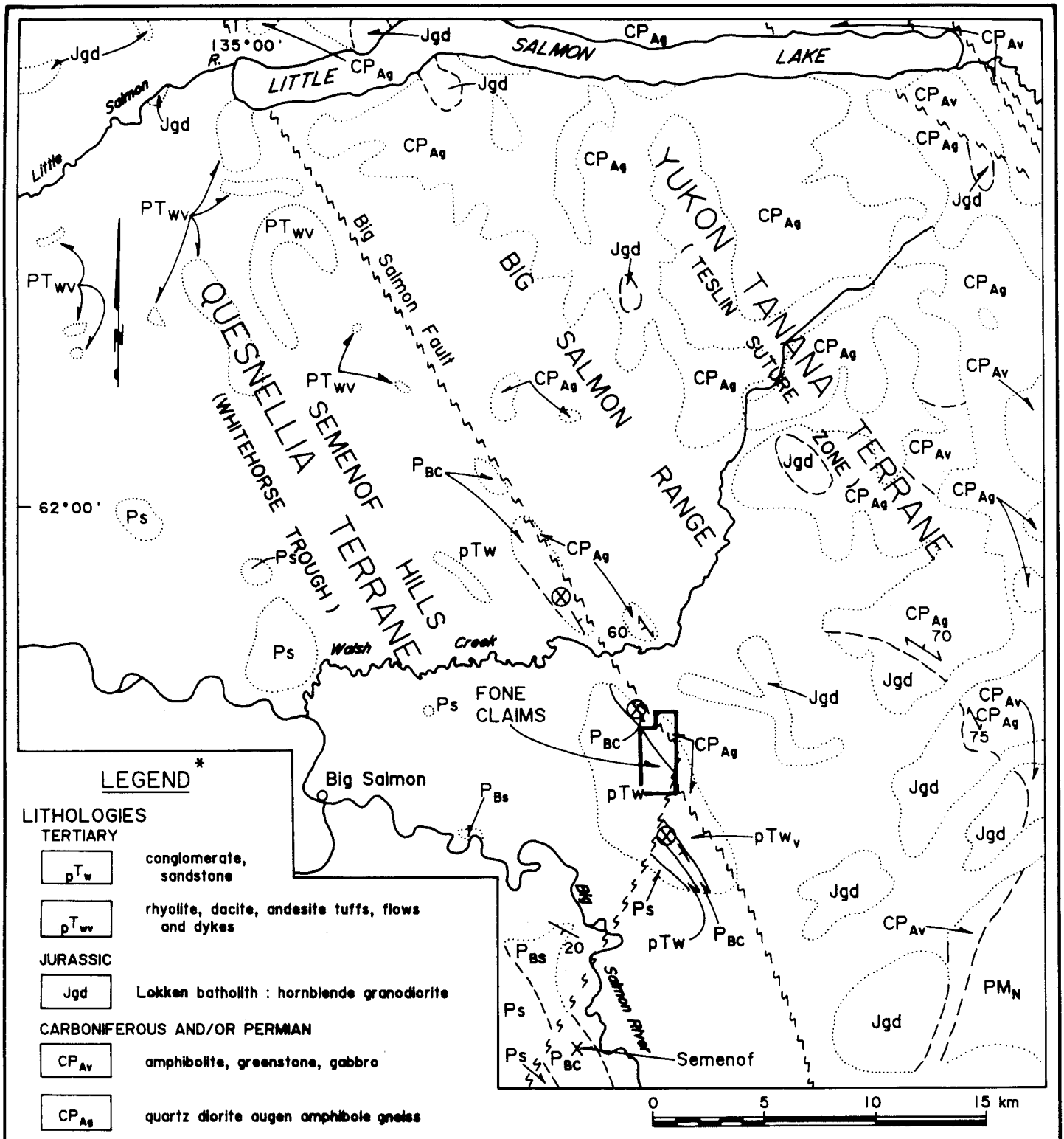
Regional Geology and Mineralization

The *Fone* property covers the Big Salmon Fault, a NNW trending Tertiary normal fault separating rocks of the Quesnellia Terrane (Whitehorse Trough - Semenof Hills Block) to the west from units of the Yukon - Tanana Terrane (part of the Teslin Suture Zone) to the east (Figure 3). The Quesnellia Terrane consists of low grade metamorphic sedimentary rocks and volcanics while the Yukon - Tanana Terrane is comprised of high to moderate grade metamorphic rocks (Hanson, 1986; D. J. Tempelman-Kluit, 1984; G. Abbott pers comm., 1990).

Paleozoic (or earlier ?) gneiss, amphibolites, greenstone and gabbro intruded by Jurassic hornblende granodiorite, including the nearby Lokken batholith, are present on the east side of the Big Salmon Fault. West of the fault, Pennsylvanian basalt and limestone are overlain by Pliocene conglomerates and intruded and overlain by rhyolites. At least two bright red gossans over limestone, one located within one kilometer of the *Fone* property, are found along the Big Salmon Fault (Tempelman-Kluit, 1984).

The Grew Creek deposit, 80 kilometers to the northeast is found within the Tintina Trench, a major transcurrent fault system. The Grew Creek deposit has geological reserves of 773,025 tonnes grading 8.9 grams per tonne gold and 33.6 grams per tonne silver (NCMI, 1990). The gold and silver is contained as micron sized grains in chalcedony stringer stockworks and silicified Eocene tuffs that are surrounded by haloes of montmorillonite alteration. Andesitic to rhyolite tuff host rocks are intruded by rhyolitic dykes of Eocene age.

The Semenof copper, gold occurrence is located on or near the same northeast trending fault which displaces the Big Salmon Fault on the *Fone* property. A 700 by 50 meter wide propylitic altered zone in lapilli tuff, intruded by rhyolite dykes, hosts mineralized pods consisting of bornite, malachite, azurite and specular hematite (INAC, 1988).



LEGEND *

LITHOLOGIES

TERTIARY

- pT_w — conglomerate, sandstone
- pT_{wv} — rhyolite, dacite, andesite tuffs, flows and dykes

JURASSIC

- Jgd — Lokken batholith : hornblende granodiorite

CARBONIFEROUS AND/OR PERMIAN

- CP_{Av} — amphibolite, greenstone, gabbro
- CP_{Ag} — quartz diorite augen amphibole gneiss

LOWER AND MIDDLE PENNSYLVANIAN
Semenoff Formation

- Ps — basalt, volcanic breccia, tuff, greenstone
- P_{BS} — phyllite, greywacke, chert, chert conglomerate
- P_{BC} — limestone

PALEOZOIC OR MESOZOIC

- PM_N — muscovite-quartz schist

SYMBOLS

- FAULT
- 75 BEDDING
- x MINERAL OCCURRENCE
- ⊗ BRIGHT RED WEATHERING LIMESTONE
- 70 FOLIATION

* modified from Campbell (1966) and Tempelman-Kluit (1984)

SCALE 1 : 250,000

COMAPLEX MINERALS CORP.			
FONE CLAIMS WHITEHORSE MINING DISTRICT			
REGIONAL GEOLOGY			
Aurum Geological Consultants Inc.			NOV. 1990
NTS: 105E/15	DRAWN BY: LW	SCALE 1:250,000	FIGURE 3

Property Geology

Most of the information regarding the geology underlying the *Fone* property (Figure 4) is drawn from D. J. Tempelman-Kluit (1984). The oldest unit is Carboniferous and/or Permian quartz dioritic augen amphibole gneiss (map unit CPAG) exposed on the east side of the property and east of the Big Salmon Fault . Immediately west of the Big Salmon Fault, the property is underlain by Lower and Middle Pennsylvanian white weathering, grey, massive to thick bedded, resistant micritic limestone of the Boswell Formation (map unit PBC). The west side of the property is underlain by resistant, thick bedded to massive, well-indurated conglomerate with minor interbedded sandstone of the Pliocene Walsh Creek Formation (map unit pT_W). A small area in the southeast corner of the property, bounded by normal faults, is underlain by resistant white weathering massive rhyolite of the Pliocene Walsh Creek Formation. Limestone of the Boswell Formation was the only lithology encountered during 1989 fieldwork.

On the *Fone* Property the Big Salmon Fault is offset approximately one kilometer by a northeast trending right lateral transcurrent fault. This same fault is believed to lie in the vicinity of the Semenof occurrence 15 kilometers to the south.

Aero magnetic data over the property indicates a relatively uniform magnetic background with a less than two hundred gamma variation (GSC Geophysics Paper 1398). The isomagnetic lines trend NNW, approximately parallel to the regional geological trend.

GEOCHEMISTRY

Stream sediment sample results released in 1989 (Hornbrook and Friske, 1989) indicate that the *Fone* property lies in an area regionally anomalous in gold, antimony, arsenic, and mercury. Results from one GSC sample (#3082) collected approximately 900 meters east and downstream of the property returned 34 ppb gold, 0.8 ppm antimony, 9 ppm arsenic and 172 ppb mercury.

A total of 15 samples (7 rock, 2 stream sediment and 6 soil) were collected during the 1989 exploration program on the *Fone* property. Geochemical analyses were made for gold , silver, antimony, arsenic, copper, lead, and zinc and 23 other elements. The analytical work was performed by Bondar-Clegg & Company Ltd. of North Vancouver, B.C. using industry accepted methods described in the Appendix to this report. Results are shown on Figure 4.

Stream Sediment Samples

Results from the two stream samples (LW-S-1 & LW-S-2) collected approximately 1350 meters upstream of GSC sample 3082 returned values up to 12 ppb gold, 10 ppm antimony and 55 ppm arsenic.

Rock Samples

Sample RH30-001 returned 4.7 ppm silver from a grab sample of float and outcrop of white-grey massive quartz veining hosted by grey limestone. The most interesting sample (30TR-2) returned 1778 ppm arsenic and 202 ppm antimony from a grab sample of limonitic, grey, weakly silicified brecciated limestone with a quartz-hematite matrix. Other samples returned low values for all elements including gold.

Soil Samples

All six soil samples returned low gold values (<5 ppb). Values for silver, arsenic and antimony were also low. A single soil sample (S30-001) collected near the Big Salmon Fault returned 50 ppm arsenic.

CONCLUSIONS AND RECOMMENDATIONS

The *Fone* property covers the Big Salmon Fault; a normal Tertiary fault separating Quesnellia Terrane in the west from rocks of the Yukon - Tanana Terrane to the east. Paleozoic or earlier aged gneiss, amphibolites, greenstone and gabbro intruded by hornblende granodiorite comprise the Yukon - Tanana Terrane. Rocks of the Quesnellia Terrane are represented on the property by Pennsylvanian limestone and Pliocene rhyolite and conglomerates. The geological setting resembles that of the Grew Creek gold deposit in the Tintina Trench.

On the *Fone* property the Big Salmon Fault is offset approximately one kilometer by a northeast trending right lateral fault which is also found near the Semenof copper, gold occurrence 15 kilometers to the southwest.

Anomalous values were returned in 1989 from soil and stream sediment samples collected near the Big Salmon Fault. Stream sediment and soil samples returned high values of 12 ppb gold, 10 ppm antimony, and 55 ppm arsenic. Results from rock samples returned low values for gold but up to 4.7 ppm silver, 1778 ppm arsenic and 202 ppm antimony.

As there are favorable lithologies and structures, the property should be further explored for gold mineralization.

The following is recommended:

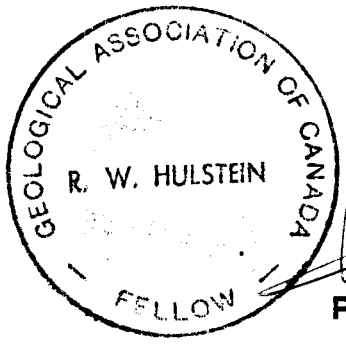
1. Compile a 1:5,000 scale orthophoto map of the Fone property incorporating all available geological, geochemical and remote sensing data to better identify potential exploration targets.

2. Further exploration consisting of prospecting, geological mapping, and rock and soil geochemistry should be carried out in areas where fault structures and Tertiary felsic intrusives are found.

3. A claim survey is recommended to determine possible claim fractions.

4. Any further work (geophysics, trenching, etc.) is contingent on results of the above work.

Respectfully submitted,



November 9, 1990 **Roger W. Hulstein**, B.Sc., FGAC

November 9, 1990 **Lori A. Walton**, M.Sc.

REFERENCES

Campbell, R.B., 1967: Geology of the Glenlyon map area, Yukon Territory (105L); Geological Survey of Canada, Mem 352.

Hanson, V.L., 1986. Petrotectonic study of the Teslin Suture Zone, Yukon: a progress report, in Yukon Geology Vol. 1: Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 125-130.

Hornbrook, E.H.W. and Friske, P.W.B., 1989. Regional Stream Sediment and Water Geochemical Data; NTS 105E, Geological Survey of Canada, Open File 1960, 1:250,000 scale.

INAC, 1988. Yukon Exploration 1987; Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 146-147.

NCMI, 1990. Northern Cordilleran Mineral Inventory, 105E, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada

Tempelman-Kluit, D., 1984. Geology , Laberge (105E) and Carmacks (115I), Yukon Territory; Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open File 1101, 1:250,000 scale.

STATEMENT OF QUALIFICATIONS (R.W.H.)

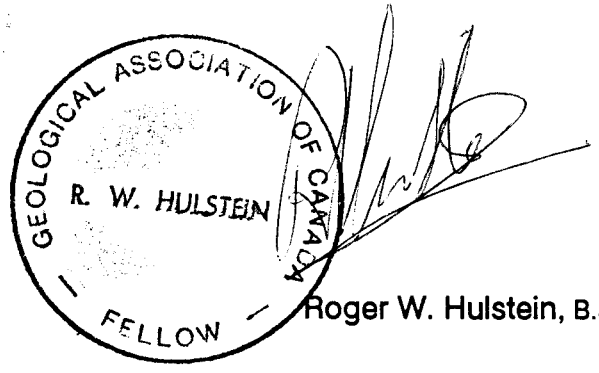
I, ROGER W. HULSTEIN, hereby certify that:

1. I am a geologist with AURUM GEOLOGICAL CONSULTANTS INC., 604-675 West Hastings Street, Vancouver, British Columbia.

2. I am a graduate of Saint Mary's University, Halifax, with a degree in geology (B.Sc., 1981) and have been involved in geology and mineral exploration continuously since 1978.

3. I am a fellow of the Geological Association of Canada (F3572).

4. I am the author of this report on the Fone property, Whitehorse Mining District, Yukon which is based on my personal examination of the ground, Sept. 16, 1989, and on referenced sources.



Nov. 9, 1990

Roger W. Hulstein, B.Sc., FGAC

STATEMENT OF QUALIFICATIONS (L.A.W.)

I, LORI A. WALTON do hereby certify that:

1. I am a practicing geologist.

2. I hold a Bachelor of Science (Specialization) Degree (1982) from the University of Alberta.

3. I hold a Master of Science Degree (1987) from the University of Alberta.

4. I have been working in the field of mineral exploration since May of 1980.

5. I have no interest in the claims nor do I expect to obtain any.

6. I consent to the use of this report in a company report or statement, 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.

Lori Walton

November 9, 1990

Lori A. Walton, M.Sc.

STATEMENT OF COSTS

Assessment Work Valuation; Fone Property

1. Geological and Geochemical

A. Fieldwork

R. Hulstein, B.Sc., FGAC of Whitehorse, Yukon. Sept. 16, 1989; 1 day @ $350.00/day:	$350.00
T. Garagan. B.Sc., FGAC of Calgary, Alberta. Sept. 16, 1989; 1 day @ $350.00/day:	$350.00
P. Mudry, B.Sc., FGAC of Calgary, Alberta. Sept. 16, 1989; 1 day @ $400/day:	$400.00

B. Geochemical Analyses

7 rock, 6 soil, 2 stream sediment samples:	305.05

C. Support Costs

Meal:	50.00
Sample bags, flagging tape & thread:	25.00
Gasoline & Truck Rental:	310.34
Radio and phone charges:	25.00
Helicopter (1/2 invoice 84405):	793.00

D. Research and Report Preparation

R. Hulstein, B.Sc., FGAC of Whitehorse, Yukon. 2 days @ $350.00/day:	700.00
L. Walton, M.Sc., of Whitehorse, Yukon. 2 days @ $350.00/day:	700.00
Reprographics:	150.00
Drafting:	300.00
Total Valuation of 1989 Assessment Work:	**$4458.39**

134°40'

61°55'

2500

3000

3500

4000

Lokken Creek

ROCK SAMPLES

Sample Number	Au ppb	Ag ppm	As ppm	Cu ppm	Sb ppm
RH30-001	<5	4.7	119	15	<5
RH30-002	<5	0.7	43	13	9
30TR-1	<5	<0.2	10	4	14
30TR-2	<5	<0.2	1778	5	202
30-PR-1	<5	0.5	26	8	11
30-PR-2	<5	<0.2	17	10	<5
30-PR-3	<5	0.3	46	9	11

SOIL SAMPLES

Sample Number	Au ppb	Ag ppm	As ppm	Cu ppm	Sb ppm
S30-001	<5	0.3	50	41	8
S30-002	<5	<0.2	26	28	<5
S30-003	<5	<0.2	25	24	<5
S30-004	<5	<0.2	24	17	<5
30TT-1	<5	<0.2	28	14	<5
30-PT-001	<5	<0.2	14	12	<5

STREAM SEDIMENT SAMPLES

Sample Number	Au ppb	Ag ppm	As ppm	Cu ppm	Sb ppm
LW-S-1	<5	<0.2	55	12	10
LW-S-2	12	<0.2	47	10	6

S30-001
S30-004
RH30-002
PT-001
RH30-001
30TT-1
30TR-2
30TR-1
PR-001
PR-002
PR-003

P_{BC}
CP_{AG}
pTw
pTw_V

GSC SAMPLE
3082/34ppb Au
172ppb Hg

LW-S-1
LW-S-2

APPROXIMATE PROPERTY PERIMETER

BIG SALMON FAULT

0.5km DOWNSTREAM GSC
STREAM SEDIMENT SAMPLE
No. 3092/110ppm As, 2.2Sb, 113ppb Hg

* MODIFIED FROM TEMPELMAN-KIUIT (1984)

LEGEND *

LITHOLOGIES

TERITARY
WALSH CREEK FORMATION

pTw	conglomerate, sandstone
pTw_V	rhyolite, dacite, andesite, tuffs, flows and dykes

CARBONIFEROUS AND/OR PERMIAN

CP_{Ag}	quartz diorite augen amphibole gneiss

LOWER AND MIDDLE PENNSYLVANIAN
BOSWELL FORMATION

P_{BC}	limestone

SYMBOLS

- Area of outcrop
- Geological boundary (defined, approximate, assumed)
- Fault (approximate)
- x RH30-002 — Rock sample location and sample number
- □ LW-S-1 — Stream sediment sample location and sample number
- ⊙ 30TT-1 — Soil sample location and sample number
- Stream
- Gossan

092881

0 500 1000 1500 2000
METRES

COMAPLEX MINERALS CORP.

FONE 1 - 22 CLAIMS

WHITEHORSE MINING DISTRICT - YUKON TERRITORY

GEOLOGY and GEOCHEMISTRY

Map# 105 E/15 Doc# 092881 (241)

AURUM GEOLOGICAL CONSULTANTS INC.			NOV. 1990
NTS 105E/15	DRWN. BY: R.V.,L.W.,D.C.	SCALE: 1:25,000	FIGURE 4

APPENDIX A

Sample Descriptions

AURUM GEOLOGICAL CONSULTANTS INC. SAMPLE LOCATION AND DESCRIPTION

Date: Sept 20. 1989 Property: FONE-CLAIMS NTS: 105 E/15 Samplers: R.H.,T.G.,P.M. Area: Lokken Creek, Yukon

Sample Number	Location	Description	Attitude	Width meters	Analytical results Au ppb	Ag ppm	As ppm	Cu ppm
RH30-001	Ridge top- Approx. 4117' elevation.	Float and outcrop, White - grey massive quartz veining <30 cm wide. Very fine graining quartz. Quartz cross-cuts tan-light grey limestone.	GRAB	GRAB	<5	4.7	119	15
RH30-002	On soil line @ 275m - east facing slope- 3500' elev.	Limestone float and limonite coatings, quartz and dolomite (?) veinlets, irregular quartz fillings, blebs and veins - approx. 20% quartz.	GRAB	GRAB	<5	0.7	43	13
30 Tr-1	South central Fone.	Grey weathering, massive: limestone with orange brown dolomitic fractures.	GRAB	GRAB	<5	<0.2	10	4
30 Tr-2	South central Fone. Approx. 300m NE of Tr-1.	Limonitic and grey brecciated limestone with hematite and quartz matrix-limestone weakly silicified.	GRAB	GRAB	<5	<0.2	1778	5
30-PR-1	Ridge top on North end of claims, elev. 4000'.	Dolomite-limestone breccia white euhedral dolomite crystals and grey anhedral limestone fragments. Hematite along fractures and as part of matrix.	GRAB	GRAB	<5	0.5	26	8
30-PR-2	Ridge top south side. Elevation 4100'. Rubble crop.	Quartz-carbonate vein? Highly fractured grey-yellow quartz vein in a grey limestone host.	GRAB	GRAB	<5	<0.2	17	10
30-PR-3	Ridge top. Elevation 4100'-boulder?	Quartz pebble conglomerate with hematite along fractures.	GRAB	GRAB	<5	0.3	46	9
SOILS								
S30-001	0+00m	Talus fines.	N/A	N/A	<5	0.3	50	41
S30-002	0+50m	Organics approximately 50%.	N/A	N/A	<5	<0.2	26	28
S30-003	0+125m	Talus fines.	N/A	N/A	<5	<0.2	25	24
S30-004	2+00m	Talus fines.	N/A	N/A	<5	<0.2	24	17
30TT-1	South central Fone	Medium brown-orange/brown soil, minor till (?) beside fractured limestone/dolomite subcrop with 2-3% quartz veining.	N/A	N/A	<5	<0.2	28	14
30-PT-001	Ridge top (North end)	Light brown, sample from gopher hole.	N/A	N/A	<5	<0.2	14	12

APPENDIX B

Analytical Methods & Reports

Bondar-Clegg & Company Ltd.
130 Pemberton Ave.
North Vancouver, B.C.
V7P 2R5
(604) 985-0681 Telex 04-352667

BONDAR-CLEGG

A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

AURUM GEOLOGICAL CONSULTANTS INC.
MR. TOM GARAGAN
P.O. BOX 5179
WHITEHORSE, YUKON
Y1A 4S3

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A DIVISION OF INCHCAPE INSPECTION & TESTING SERVICES

Geochemical Lab Report

REPORT: V89-06429.0 (COMPLETE)

REFERENCE INFO:

CLIENT: AURUM GEOLOGICAL CONSULTANTS INC.
PROJECT: 30

SUBMITTED BY: R. HULSTEIN
DATE PRINTED: 10-OCT-89

ORDER		ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	Au	Gold - Fire Assay	13	5 PPB	FIRE-ASSAY	Fire Assay AA
2	Ag	Silver	13	0.2 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
3	As	Arsenic	13	5 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
4	Ba	Barium	13	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
5	Be	Beryllium	13	0.5 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
6	Bi	Bismuth	13	2 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
7	Cd	Cadmium	13	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
8	Ce	Cerium	13	5 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
9	Co	Cobalt	13	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
10	Cr	Chromium	13	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
11	Cu	Copper	13	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
12	Ga	Gallium	13	2 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
13	La	Lanthanum	13	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
14	Li	Lithium	13	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
15	Mo	Molybdenum	13	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
16	Nb	Niobium	13	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
17	Ni	Nickel	13	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
18	Pb	Lead	13	2 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
19	Rb	Rubidium	13	20 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
20	Sb	Antimony	13	5 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
21	Sc	Scandium	13	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
22	Sn	Tin	13	20 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
23	Sr	Strontium	13	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
24	Ta	Tantalum	13	10 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
25	Te	Tellurium	13	10 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
26	V	Vanadium	13	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
27	W	Tungsten	13	10 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
28	Y	Yttrium	13	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
29	Zn	Zinc	13	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma
30	Zr	Zirconium	13	1 PPM	HNO3-HCL HOT EXTR	Ind. Coupled Plasma

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Geochemical Lab Report

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REFFRENCE INFO:

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PROJECT: 30

SUBMITTED BY: R. HULSTEIN
DATE PRINTED: 10-OCT-89

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
S SOILS	6	1 -80	6	DRY, SIEVE -80	6
R ROCK OR BED ROCK	7	2 -150	7	CRUSH,PULVERIZE -150	7
				BATCH SURCHARGE	13

REPORT COPIES TO: MR. TOM GARAGAN
MR. PHILLIP MUDRY

INVOICE TO: MR. TOM GARAGAN

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REPORT: V89-06429.0 | PROJECT: 30 | PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	Ag PPM	As PPM	Ba PPM	Be PPM	Bi PPM	Cd PPM	Ce PPM	Co PPM	Cr PPM	C PP
S1 S30-1		<5	0.3	50	107	<0.5	<2	<1	19	10	27	
S1 S30-2		<5	<0.2	26	82	<0.5	<2	<1	14	9	18	
S1 S30-3		<5	<0.2	25	103	<0.5	<2	<1	21	7	23	
S1 S30-4		<5	<0.2	24	86	<0.5	<2	<1	24	8	33	
S1 30PT-001		<5	<0.2	14	58	<0.5	<2	<1	10	4	13	
S1 30TT-1		<5	<0.2	28	132	<0.5	<2	<1	36	8	38	
R2 RH30-001		<5	4.7	119	4	<0.5	<2	<1	<5	<1	88	
R2 RH30-002		<5	0.7	43	50	<0.5	3	<1	<5	4	38	
R2 30PR-001		<5	0.5	26	10	<0.5	4	<1	<5	<1	21	
R2 30PR-002		<5	<0.2	17	7	<0.5	<2	<1	<5	<1	24	
R2 30PR-003		<5	0.3	46	72	<0.5	<2	<1	10	<1	99	
R2 30TR-1		<5	<0.2	10	4	<0.5	3	<1	<5	<1	8	
R2 30TR-2		<5	<0.2	1778	36	<0.5	<2	1	<5	<1	85	

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REPORT: V89-06429.0 | PROJECT: 30 |

SAMPLE NUMBER	ELEMENT UNITS	Ga PPM	La PPM	Li PPM	Mo PPM	Nb PPM	Ni PPM	Pb PPM	Rb PPM	Sb PPM	Sc PPM	Sn PPM
S1 S30-1		9	10	7	<1	14	35	21	<20	8	5	<20
S1 S30-2		8	6	5	<1	15	29	6	<20	<5	3	<20
S1 S30-3		9	10	8	<1	7	22	3	<20	<5	3	<20
S1 S30-4		10	12	10	<1	7	27	4	<20	<5	3	<20
S1 30PT-001		8	4	5	<1	12	10	<2	<20	<5	2	<20
S1 30TT-1		8	17	10	<1	5	23	4	<20	<5	5	<20
R2 RH30-001		5	<1	1	<1	14	2	25	<20	<5	<1	<20
R2 RH30-002		<2	<1	2	<1	22	33	4	<20	9	2	<20
R2 30PR-001		<2	<1	2	<1	33	3	7	<20	11	<1	<20
R2 30PR-002		<2	<1	2	<1	22	1	5	<20	<5	<1	<20
R2 30PR-003		8	5	1	2	5	3	8	<20	11	<1	<20
R2 30TR-1		<2	<1	2	<1	40	3	5	<20	14	<1	<20
R2 30TR-2		9	<1	1	2	9	9	9	<20	202	<1	<20

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Geochemical Lab Report

DATE PRINTED: 10-OCT-89

REPORT: V89-06429.0 | PROJECT: 30 |

SAMPLE NUMBER	ELEMENT UNITS	Sr PPM	Ta PPM	Te PPM	V PPM	W PPM	Y PPM	Zn PPM	Zr PPM
S1 S30-1		50	<10	<10	39	<10	14	87	4
S1 S30-2		62	<10	<10	31	<10	8	50	2
S1 S30-3		31	<10	<10	31	<10	8	55	2
S1 S30-4		27	<10	<10	43	<10	10	68	1
S1 30PT-001		39	<10	<10	26	<10	4	24	<1
S1 30TT-1		21	<10	<10	48	<10	12	55	2
R2 RH30-001		33	<10	<10	2	<10	3	10	1
R2 RH30-002		23	<10	<10	41	<10	4	72	5
R2 30PR-001		106	<10	<10	8	<10	4	16	4
R2 30PR-002		124	<10	<10	4	<10	5	8	2
R2 30PR-003		10	<10	<10	12	<10	2	7	2
R2 30TR-1		61	<10	<10	2	<10	7	12	2
R2 30TR-2		13	<10	<10	5	<10	5	89	<1

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136 Industrial Road
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Geochemical Lab Report

PROJECT: [illegible] (PARTIAL)

REFERENCE INFO:

ATTN: AURUM GEOLOGICAL CONSULTANTS INC.
PROJECT: 30

SUBMITTED BY: R. HULSTEIN
DATE PRINTED: 17-JUL-89

ORDER	ELEMENT		NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU	GOLD - FIRE ASSAY	2	5 PPB	FIRE-ASSAY	FIRE ASSAY AA

RESULTS TO FOLLOW FOR: AG AS BA BE BI CD CE CO CR CU GA LA LI MO NB NI PB RB SB SC SN SR TA TE V W Y ZN ZR

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
SOIL	2	-80	2	DRY, SIEVE -80	2
				BATCH SURCHARGE	2

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INVOICE TO: AURUM GEOLOGICAL

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DATE PRINTED: [illegible]-JUL-89
PROJECT: 39 PAGE 1

	ELEMENT	Mo
	UNITS	PPM
[illegible]		12

FONE

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Geochemical Lab Report

REPORT: V89-01731+0 (COMPLETE)

REFERENCE (FO:

CLIENT: AURUM GEOLOGICAL CONSULTANTS INC.
PROJECT: 30

SUBMITTED BY: R. HALSTEIN
DATE PRINTED: 21-JUL-89

SAMPLE TYPES	NUMBER	SIZE FRACTIONS	NUMBER	SAMPLE PREPARATIONS	NUMBER
6 SOILS	2	1 -80	2	DRY, SIEVE -80	2
				BATCH SURCHARGE	2

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Geochemical Lab Report

REPORT: VAT-0-31+0 (COMPLETE)

REFERENCE INFO:

CLIENT: ARUM GEOLOGICAL CONSULTANTS INC.
PROJECT: 30

SUBMITTED BY: R. HULSTEIN
DATE PRINTED: 21-JUL-89

ORDER		ELEMENT	NUMBER OF ANALYSES	LOWER DETECTION LIMIT	EXTRACTION	METHOD
1	AU	GOLD - FIRE ASSAY	2	5 PPB	FIRE-ASSAY	FIRE ASSAY AA
2	AG	SILVER	2	0.2 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
3	AS	ARSENIC	2	5 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
4	BA	BARIUM	2	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
5	BE	BERYLLIUM	2	0.5 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
6	BI	BISMUTH	2	2 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
7	CD	CADMIUM	2	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
8	CE	CERIUM	2	5 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
9	CO	COBALT	2	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
10	CR	CHROMIUM	2	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
11	CU	COPPER	2	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
12	GA	GALLIUM	2	2 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
13	LA	LANTHANUM	2	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
14	LI	LITHIUM	2	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
15	MO	MOLYBDENUM	2	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
16	NB	NIOBIUM	2	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
17	NI	NICKEL	2	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
18	PB	LEAD	2	2 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
19	RB	RUBIDIUM	2	20 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
20	SB	ANTIMONY	2	5 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
21	SC	SCANDIUM	2	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
22	SN	TIN	2	20 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
23	[redacted]		2	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
24			2	10 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
25			2	10 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
26			2	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
27			2	10 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
28	Y	[redacted]	2	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
29	ZN	ZINC	2	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA
30	ZR	ZIRCONIUM	2	1 PPM	HNO3-HCL HOT EXTR	IND. COUPLED PLASMA

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PROJECT: 30 PAGE 1A

SAMPLE NUMBER	ELEMENT UNITS	AU PPB	AG PPM	AS PPM	BA PPM	BE PPM	BI PPM	CD PPM	CE PPM	CO PPM	CR PPM	CU PPM
31 LW-3-1		<5	<0.2	55	130	<0.5	6	<1	23	7	18	12
31 LW-3-2		12	<0.2	47	107	<0.5	3	<1	18	7	17	10

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Geochemical Lab Report

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PROJECT: 30

SAMPLE NUMBER	ELEMENT UNITS	CA PPM	LA PPM	LI PPM	MO PPM	NB PPM	NI PPM	PB PPM	RB PPM	SB PPM	SC PPM	SN PPM
91 LW-S-1		7	12	10	<1	2	10	12	<20	10	2	<20
91 LW-S-2		4	10	8	1	1	13	7	24	6	2	<20

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SAMPLE NUMBER	ELEMENT UNITS	SR PPM	TA PPM	TE PPM	U PPM	W PPM	Y PPM	ZN PPM	ZR PPM
31 LW-S-1		21	<10	<10	26	<10	6	47	2
31 LW-S-2		16	<10	<10	31	<10	5	45	<1