

**ASSESSMENT REPORT
SOIL/TILL SAMPLING
GIN 22 CLAIM, 094000**

**Whitehorse Mining District
JUNE 25-30, 1999**

Location: 1. Whitehorse Copper Haul Road
2. NTS 105 D-11
3. Latitude 60° 39' 00" N
Longitude 135° 05' 40" W

Claims: Gin 21-28 (YC08842-YC08849)

For: H. Coyne & Sons Ltd.
14 MacDonald Road
Whitehorse, Yukon
Y1A 4L1

By: R. Allan Doherty, P. Geo.
Aurum Geological Consultants Inc.
205-100 Main Street
P.O. Box 4367
Whitehorse, Yukon
Y1A 3T5

July 20, 1999

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 \$ 800.00.

M. B. [Signature]
For Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

SUMMARY

Aurum Geological Consultants Inc., completed the 1999 assessment work on the Gin 21-28 claims at the request of Coyne and Sons Ltd. The claims are staked along the Whitehorse Traverse survey line which is parallel to and west of the Whitehorse Copper haul road.

The work program was completed between June 25-30, 1999 and included soil sampling and prospecting on the Gin 22 claim.

A certificate of work and grouping certificate for Gin 21-28 (YC08842-YC08849) claiming a total assessment valuation of \$800 was filed with the Whitehorse Mining Recorder on July 5, 1999. This report details the results of the sampling program on Gin 22 to satisfy the reporting requirements under the Yukon Quartz Mining Act. A Class 2 notice under the Mining Land Use Regulations was not filed because the work program did not exceed any of the defined thresholds for a Class 2 notice.

The property is part of a larger group of claims located along the trend of Whitehorse Copper Belt deposits that extends from the Little Chief open pit on the southern side to the Pueblo deposit on the north side.

A total of 13 soil/till samples were collected on the Gin 22 claim from an old trench and from reconnaissance lines within the claim.

Further work on this area of the Whitehorse copper belt should be contingent on identifying a suitable drill target based on geophysical, geological and geochemical parameters. Prior to additional field work a compilation of all historical data from Hudson Bay Exploration and Development Ltd. should be completed.

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INTRODUCTION

This report was prepared at the request of Mr. Jim Coyne of Coyne & Sons Ltd. Its purpose is to summarize the results of a soil sampling program on the GIN 22 claim in the Whitehorse Copper belt and to satisfy the reporting and work requirements under the Yukon Quartz Mining Act.

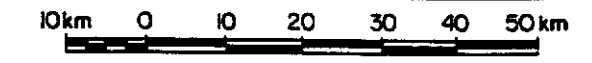
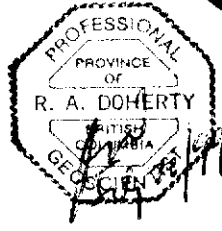
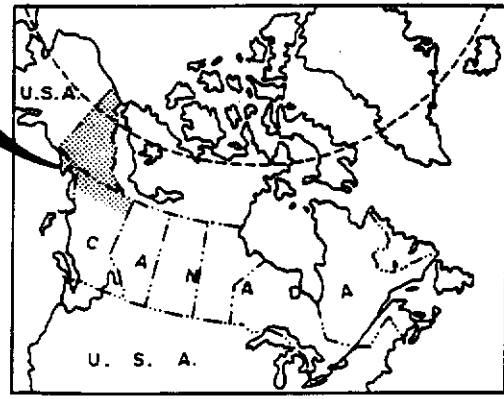
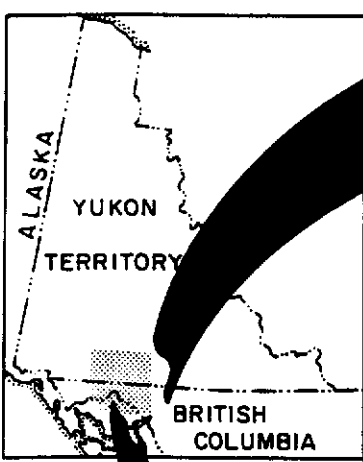
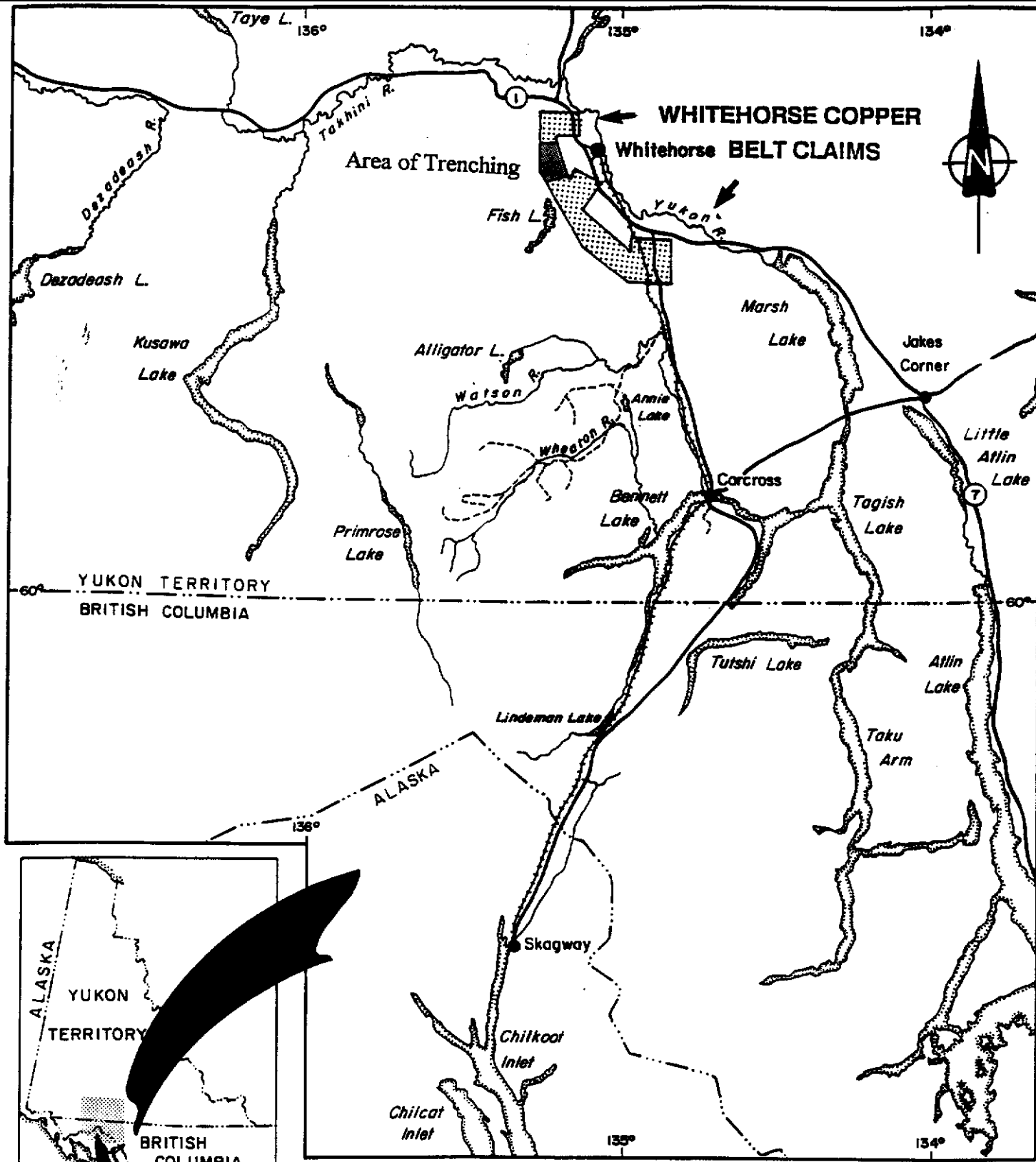
The work was carried out between June 25-30, 1999. Work included locating claims and soil sampling on the Gin 22 claim. A total of 13 soil/till samples were collected, and analyzed for gold and 35 additional elements by Acme Analytical Laboratories Ltd., in Vancouver.

This report is based on the authors' knowledge of the property and area gained from mapping and exploration work on this and nearby properties, and from public and private reports and from the data presented herein.

LOCATION AND ACCESS

The Gin 21-28 claims are located along the Whitehorse Reference Traverse, a well cut and monumented survey line that runs approximately parallel to the Whitehorse Copper Belt haul road. The claims are half way between the Arctic Chief and Big Chief open pits. A point at the centre of the Gin 22 claim is located at geographic coordinates of 60° 39' north latitude and 135° 09' 40" west longitude on NTS map area 105 D-11 (Figure 1).

Access to the property is by the Whitehorse Copper haul road which runs from the Fish Lake road on the northern end to the Big Chief open pit on the south side of the claim block.



COYNE & SONS LTD	
Whitehorse Copper Belt Properties	
LOCATION	
Aurum Geological Consultants Inc.	NTS 105D/11
May, 1999 Drawn by NH Scale: 1:100,000 FIGURE 11	

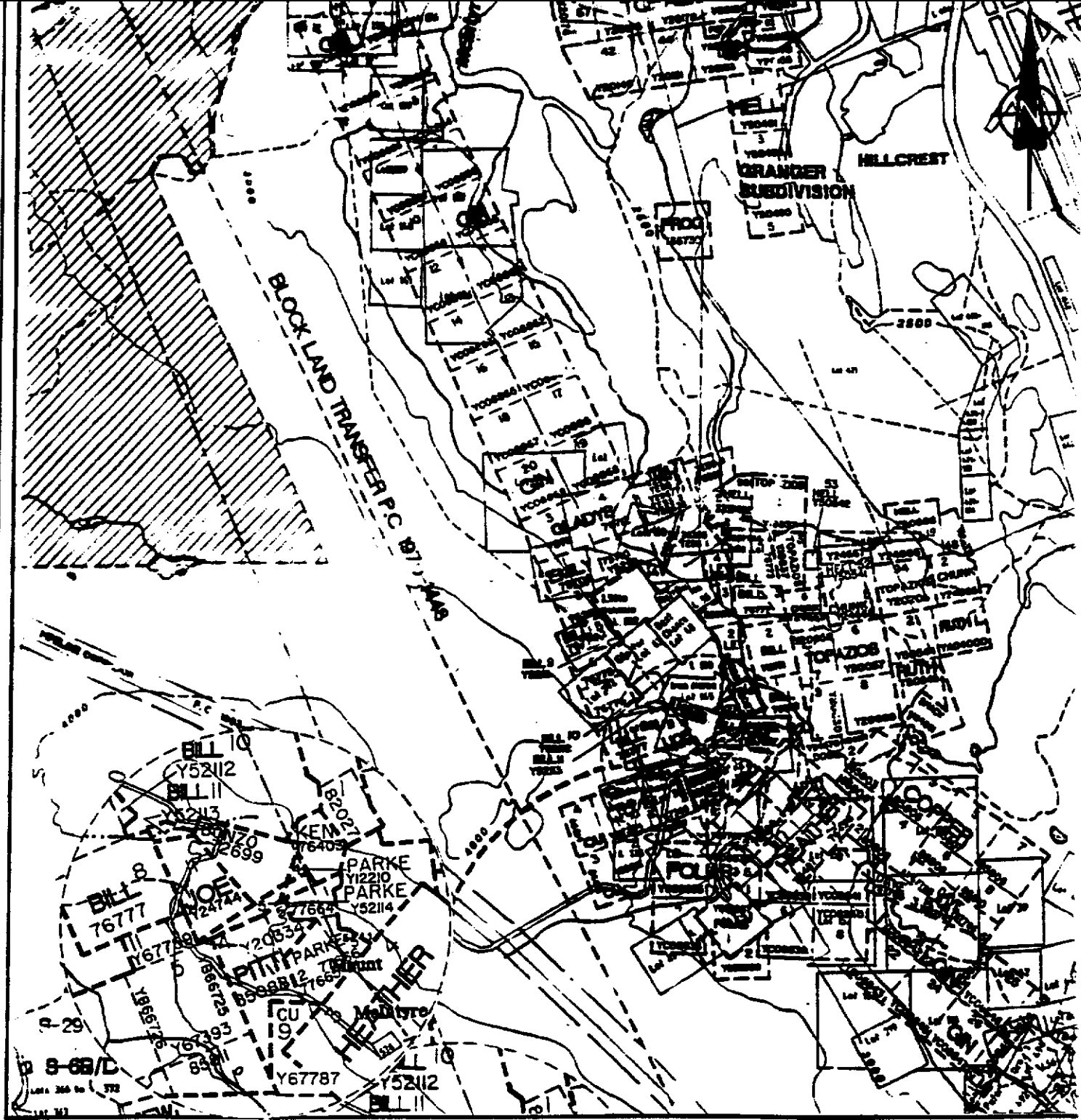
PROPERTY

The Gin 21-28 claims are 100% owned by Coyne & Sons Ltd of Whitehorse, Yukon, and are shown on Quartz Claim Sheet 105 D/11. They are part of larger claim holdings totaling 79 full and fractional claims and 18 Crown Granted Claims that extend along the Whitehorse Copper haul road for a distance of eight kilometres. Table I shows the requested claims renewals covered under this assessment report. Where located the claims were properly staked and tagged in accordance with the Yukon Quartz Mining Act..

TABLE I: Whitehorse Copper Belt Claim Data

CLAIM NAME	GRANT NUMBERS	# OF CLAIMS	MINING DISTRICT	EXPIRY DATE *
GIN 21-28	YC08842-YC08849	8	Whitehorse	01/07/2000

* subject to approval of 1999 assessment work



LEGEND

- claim boundary
- claim number
- tag number
- 4WD trail
- creek, lake
- 5500 elevation contour; interval 500 ft.



COYNE & SONS LTD.	
WHITEHORSE COPPER PROPERTIES	
CLAIM MAP	

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

HISTORY

The History of the Whitehorse Copper Belt is too extensive to report on here. The area has been relatively dormant since Hudson Bay Exploration and Development Ltd. closed the Whitehorse Copper Mines in 1982. Subsequent years were spent decommissioning the mill and mine sites. Aurora Gold Ltd had an option on the Northern portion of the claims during the early 1990's and completed magnetometer surveys and drilling on the Grafter deposit before relinquishing the option.. The claims were acquired by Coyne and Sons Ltd. through an option from HBED and by staking. The reader is referred to Yukon Exploration and Geology reports, and other well known publications on the Whitehorse Copper Belt for additional information.

PHYSIOGRAPHY, CLIMATE AND VEGETATION

An interior continental climate with moderate to low precipitation (30 cm annually), warm summers and cold winters typifies the area. Permafrost is discontinuous, present only on the steeper north and east facing slopes. The property is normally snow free from mid May to late September. Relief on the property is approximately 300 feet (90 metres), with the highest point on the property at 3000 feet (1200 metres). The majority of the property is below tree line. Vegetation consists of thick second growth Lodge pole Pine forest with Willow predominant in lower wet areas.

Most of the property north is covered by thick overburden. There is outcrops of the Whitehorse pluton north of the claims and on the eastern side of the claims.

GEOLOGY

Regional Geology

The Gin 21-28 (YC08842-YC08849) are located between the Arctic Chief and Big Chief open pit mines in the central part of the Whitehorse Copper Belt.. In the Whitehorse Copper belt, skarn copper-gold mineralization occurs within Triassic Lewis River Group limestones in contact with the 116 Ma. Whitehorse Pluton. The Whitehorse copper belt is located on the western side of the Whitehorse trough which forms the northern exposures of the Stikine terrane in the Yukon.

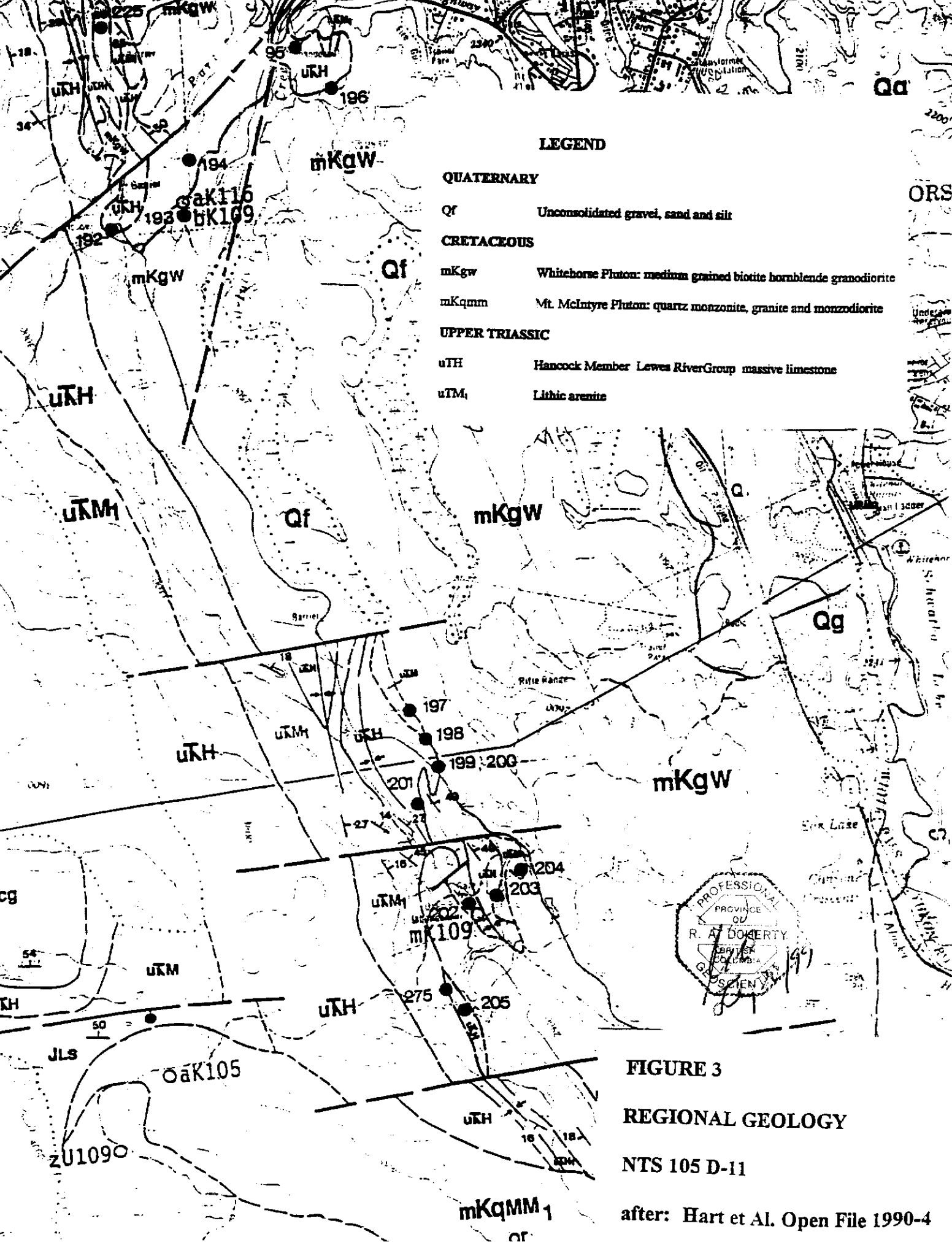
The Whitehorse trough is a broad northwest trending synclinorium that is underlain by Triassic Lewis River Group greywacke, argillite, arkose and limestone; lower to middle Jurassic Laberge Group shale greywacke and conglomerate; and Lower Cretaceous Tantalus Formation. The Whitehorse trough strata were subsequently

amalgamated with the Carboniferous-Permian Cache Creek Terrane and accreted to the western margin of North America.

Whitehorse Trough strata were subsequently intruded by Cretaceous Coast Plutonic Complex granites, granodiorites and monzonites. Tertiary volcanics and intrusions are common south of Whitehorse associated with the Bennett and Skukum Caldera complexes.

PROPERTY GEOLOGY

There is very limited exposure in this area of the Whitehorse Copper Belt. The highland to the west of the copper belt haul road are underlain by Mount McIntyre Pluton and Mandana Formation lithic arenites and maroon siltstones and Hancock Member limestones which host the copper skarn mineralization. The area is cut by a number of east trending normal faults Figure 3. Outcrops of Whitehorse pluton are found on the eastern side and north of the claim block. To the south of the claims and to the west embayments containing Hancock member limestones are mapped (Hart et al., 1990)



LEGEND

QUATERNARY

Qf Unconsolidated gravel, sand and silt

CRETACEOUS

mKgw Whitehorse Pluton: medium grained biotite hornblende granodiorite

mKqmm Mt. McIntyre Pluton: quartz monzonite, granite and monzodiorite

UPPER TRIASSIC

uTH Hancock Member Lewes River Group massive limestone

uTM₁ Lithic arenite

FIGURE 3

REGIONAL GEOLOGY

NTS 105 D-11

after: Hart et Al. Open File 1990-4

1999 SOIL SAMPLING

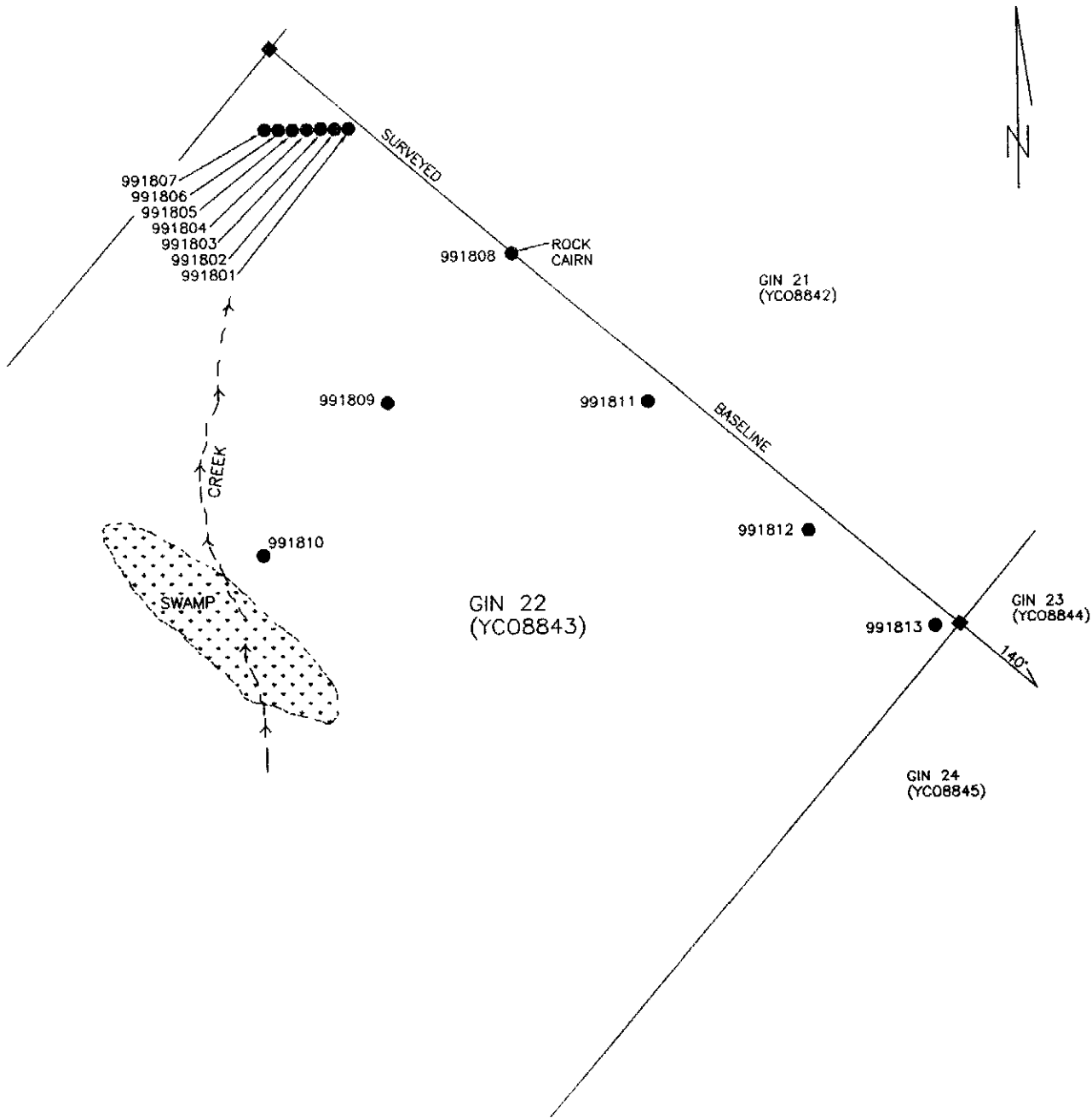
A total of 13 soil/till samples were collected on the Gin 22 claim, sample locations are shown with respect to the claim posts and claim lines of the Gin 22 claim, Figure 4..

Samples were collected from the bottoms of the old trench at 5 m intervals and on sample lines at 100 m intervals. A reconnaissance soil sampling line was run at right angles to the claim line with samples collected every 100 m up to a swampy area on the west side of the claim. Four samples were collected along the claim line.

The material collected was from 20 to 30 cm deep and consisted of sandy till with numerous cobbles. The samples were analyzed at Acme Analytical Laboratories Ltd., for gold plus 35 elements. The samples are dried and then sieved to -200 mesh. A 15 gm sample is digested with 90 ML 2-2-2 HCL-HNO₃-H₂O at 95° C for 1 hour and is then diluted to 300 ML with water, analysis is by ICP/ES & MS.

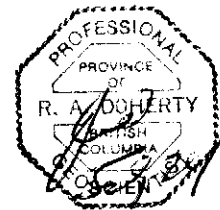
Two samples 991806 and 991801 both from the old trench in the north corner of Gin 22 returned gold values of 19.2 and 11.2 ppm gold respectively. These higher values may partly reflect the depth at which the sample was collected from the trench. All samples collected from this trench (991801-991807) have significantly higher copper, molybdenum, lead, strontium, cadmium and bismuth as well as other elements than samples collected from undisturbed ground elsewhere on the claim. This may reflect the depth at which the samples were collected or the trench may be closer to bedrock.

If additional soil/till sampling is completed on the claims, auger should be used to obtain soil material from as deep as possible.



LEGEND

● SOIL SAMPLE



COYNE & SONS LTD.
WHITEHORSE COPPER BELT

SOIL SAMPLE LOCATIONS
GIN 22 CLAIM
(YCO8843)


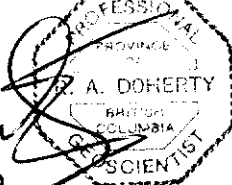
CONCLUSIONS AND RECOMMENDATIONS

Soil and till sampling in the heavily overburden covered areas does not appear to be a useful exploration tool. However, samples collected from an old trench in the north corner of the Gin 22 claim show elevated values for most elements than from samples collected in undisturbed ground. If further soil/till sampling is planned then samples should be collected with a soil auger to obtain samples from as deep as possible.

Further work on this area of the Whitehorse copper belt should be contingent on identifying a suitable drill target based on geophysical, geological and geochemical parameters. Prior to additional field work a compilation of all historical data from Hudson Bay Exploration and Development Ltd. should be completed.

Respectfully submitted;

Aurum Geological Consultants Inc.



R. Allan Doherty, P. Geo.

July 20, 1999

REFERENCES

Hart, C.J.R., K.S. Pelletier, J.K. Radloff, M.P. Fingland, and J. Hunt. 1990 Geological map of Whitehorse (105 D/11) map area, Open File 1990-4

STATEMENT OF QUALIFICATIONS

I, R. Allan Doherty, with business address:

Aurum Geological Consultants Inc.

205 - 100 Main Street

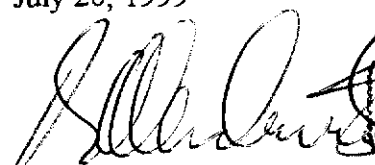
P.O. Box 4367

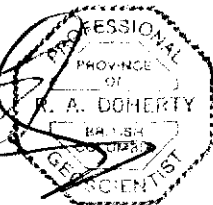
Whitehorse, Yukon

Y1A 3T5

1. I am a geologist with AURUM GEOLOGICAL CONSULTANTS INC., 205 - 100 Main Street, P.O. Box 4367, Whitehorse, Yukon.
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 (1978-81). 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.
4. I have based this report on sampling completed between June 25-30, 1999 and on referenced sources.
5. I have no direct or indirect interests in the properties or securities owned by H. Coyne and Sons Ltd., nor do I expect to receive any.
6. I consent to the use of this report by H. Coyne and Sons Ltd., 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.

July 20, 1999


R. Allan Doherty, P. Geo.



STATEMENT OF COSTS

1999 Assessment Work Valuation; Whitehorse Copper Belt, 105 D 11. Work completed between June 25-30, 1999 on GIN 22 (YC08843) claim.

A. Field Work Personnel

R. Allan Doherty, P. Geo.	
June 25-30, 1999, 7.0 hrs @ \$50/hr.	\$ 350.00

B. Sampling costs

Acme Analytical Laboratories Ltd. 14 samples @\$18.50 each	\$ 258.30
Shipping costs:	\$ 38.70
Truck rental: 1 days @ \$100/day	\$ 100.00
Sample bags, flagging etc.	\$ 7.00

C. Report Costs

Report Writing and Drafting	\$ 200.00
Sub-Total:	\$ 954.00
GST (7% of \$954.00)	\$ 66.78
TOTAL ASSESSMENT VALUE	\$1,020.78

APPENDIX A
ACME ANALYTICAL LABORATORIES LTD
File # 9902103



GEOCHEMICAL ANALYSIS CERTIFICATE

Aurum Geological Consultants Inc. PROJECT 18 File # 9902103
 P.O. Box 4367, Whitehorse YT Y1A 3T5 Submitted by: A. Doherty

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti % ppm	B %	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	S %
991801	2.27	83.16	20.24	41.1	148	24.2	14.1	413	2.63	29.0	1.3	11.2	7.7	95.5	.25	1.12	.45	74	2.21	.106	19.8	32.7	2.41	121.3	.099	2	1.26	.045	.09	.4	.13	19	.5	.09	4.1	.02
991802	2.55	68.68	21.05	46.1	208	28.5	16.2	467	2.88	36.5	1.5	9.4	6.1	144.9	.33	1.61	.39	112	4.54	.092	17.0	50.5	4.10	132.8	.138	3	1.90	.056	.13	.3	.16	13	.8	.13	5.6	.04
991803	2.04	58.65	16.51	54.9	96	27.8	16.5	381	3.26	30.3	1.5	4.9	4.8	163.1	.36	.89	.16	127	6.04	.090	9.2	43.8	3.87	112.0	.186	1	2.32	.114	.24	.2	.15	6	.9	.08	7.1	.04
991804	2.69	70.75	19.83	56.4	458	33.4	17.8	573	3.03	33.0	2.1	8.2	7.6	106.5	.53	1.16	.22	125	2.98	.114	23.6	54.1	4.14	149.9	.147	3	2.16	.042	.16	.3	.17	55	.4	.08	5.9	.04
991805	3.61	89.73	13.94	52.6	178	18.5	13.3	344	2.31	38.8	1.5	5.6	3.6	210.6	.54	1.09	.26	64	7.21	.074	10.0	24.6	4.30	77.2	.089	1	1.18	.030	.11	.3	.11	5	.9	.13	3.7	.04
991806	2.62	69.87	16.46	40.0	181	23.4	12.5	369	2.50	33.8	1.4	19.2	3.9	173.0	.35	1.16	.26	71	5.97	.076	12.9	35.4	4.04	114.6	.100	1	1.43	.042	.11	.3	.16	15	.6	.09	4.2	.04
991807	2.20	65.13	16.36	36.1	171	20.4	11.7	389	2.31	32.2	1.2	5.9	3.8	168.7	.31	1.16	.32	67	6.57	.063	12.3	34.2	4.46	110.1	.104	2	1.31	.041	.10	.2	.14	13	.6	.05	4.0	.03
991808	.64	8.95	6.70	20.0	49	7.9	4.4	193	1.30	3.5	.4	1.7	1.2	22.7	.15	.32	.12	37	.26	.017	5.8	19.1	.24	111.5	.077	1	.85	.016	.06	.4	.06	6	.1	.04	3.7	.02
RE 991808	.60	8.48	5.96	19.6	52	7.7	4.3	195	1.25	3.6	.4	4.3	1.2	22.3	.12	.30	.12	36	.25	.017	5.5	17.4	.23	109.5	.075	1	.84	.016	.06	.3	.06	<5	.1	.03	3.7	.01
991809	.82	17.82	8.27	26.5	125	17.3	7.2	209	1.70	10.1	.7	3.0	3.3	55.5	.11	.54	.16	43	1.18	.024	10.9	28.1	.41	115.1	.065	1	1.13	.019	.05	.4	.07	15	.7	.04	3.7	.02
991810	.53	9.40	8.32	66.4	40	11.1	5.6	205	1.53	6.1	.5	2.3	1.7	32.0	.47	.32	.14	39	.36	.036	6.7	21.8	.33	100.4	.060	2	1.04	.014	.08	.3	.06	6	.2	.03	3.7	.01
991811	.65	11.44	6.66	21.6	32	11.1	5.2	156	1.65	9.4	.5	3.0	1.6	25.7	.06	.36	.13	44	.27	.016	6.6	20.7	.33	112.3	.073	1	1.13	.013	.05	.3	.06	5	.2	.03	3.9	<.01
991812	.24	4.98	6.79	13.5	46	4.7	1.5	65	.47	1.3	.5	5.2	1.1	21.3	.03	.15	.09	17	.26	.036	6.1	13.6	.17	51.1	.078	1	.63	.011	.06	.2	.06	5	.1	<.02	4.1	<.01
991813	.75	10.66	5.81	22.5	85	9.3	5.3	199	1.52	5.2	.5	4.5	1.5	26.4	.09	.29	.13	43	.26	.024	6.5	22.9	.31	92.6	.087	1	.96	.015	.07	.3	.05	<5	.1	.02	4.1	<.01
STANDARD DS2	13.89	130.56	34.87	165.8	265	38.3	12.8	831	3.20	64.1	26.2	197.5	4.0	36.9	11.72	9.63	11.05	84	.57	.082	15.6	171.3	.63	144.1	.115	2	1.82	.042	.16	7.4	2.15	251	2.3	1.86	6.2	.03

15 GRAM SAMPLE IS DIGESTED WITH 90 ML 2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 300 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
 THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.
 - SAMPLE TYPE: -200 SOIL Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 8 1999 DATE REPORT MAILED: *July 16/99* SIGNED BY: *C. Long* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS