GEOCHEMICAL REPORT

on

ATO PROPERTY

Omineca Mining Division
N.T.S. 93N/14
55°56'N 125°16'W

ATO I	7948	(10)
ATO II	7949	(10)
ATO III	7950	(10)
ATO IV	12065	(6)
ATO V	12066	(6)

by
R. Pesalj, P. Eng.

for
CATHEDRAL GOLD CORPORATION

OCTOBER 1991

TABLE OF CONTENTS

FIGURES

APPENDICES

SUMMARY

The ATO property is located in the Swannell Range of the Omineca Mountains, 48 road kilometers northwest of Germansen Landing, in north central British Columbia. The property is accessible by the all-weather Omineca Road to within 8 km and then by a four wheel drive road to the southern part of the property. The property consists of 100 units in five contiguous claims owned and operated by Cathedral Gold Corporation of Vancouver, B.C.

The property was worked in 1962 by Kennco Explorations Ltd., when high grade copper float was located in Rondah Creek, presently on ATO III claim. Tyee Lake Resources acquired the ground in 1970 and drilled five holes, testing a strong copper anomaly east of Rondah Creek. The best intersection of the program was 180 feet grading 0.51% Cu, with no analysis for gold. Cominco Ltd. and Marubeni-Iida (Canada) optioned the property in 1971 and carried further exploration by mapping, geochemistry, geophysics, trenching and drilling. The option was terminated in 1972 and the property returned to Tyee Lake Resources. Cathedral Gold Corporation staked the property in 1986 following the discovery of gold mineralization along the Takla volcanics-Hogem Batholith contact on their Takla Rainbow property 27 km south of ATO claims and carried reconnaissance mapping and sampling in 1987 and 1989. In 1990, Cathedral re-established the grid over the main Rondah Creek prospect on the ATO III claim and carried out soil, rock and core sampling and magnetometer survey. The surveys confirmed the gold values associated with copper and outlined a soil anomaly measuring 800 x 600m. Porphyry copper mineralization is in form of fracture filling and disseminations of chalcopyrite, bornite, pyrite and magnetite. A broad magnetometer anomaly coincides with the geochemical anomaly, both straddling the contact between Hogem Batholith on the west and Takla volcanics on the east.

In 1991 the geochemical surveys were extended to the south along the anomalous trend straddling the intrusive-volcanic contact. The surveys confirmed the extension of the Rondah Creek anomaly to the south by an additional 800 meters. The total length of the anomaly delineated to date is 2 kilometers. The property evaluation by additional geochemical surveys along the trend to the north and detailed trenching, sampling and diamond drilling of the outstanding trends is recommended.

1.0 INTRODUCTION

1.1 Location, Access and Physiography

The ATO property is located in the Swannell Range of the Omineca Mountains, north central British Columbia. The nearest settlement is Germansen Landing located on the Omineca River, 48 road km to the southeast (Figure 1).

The access to the property from Germansen Landing is by the all-weather Omineca Road to within 8 km and then by a four wheel drive road that transects the southern part of the property and continues west to Duckling Creek.

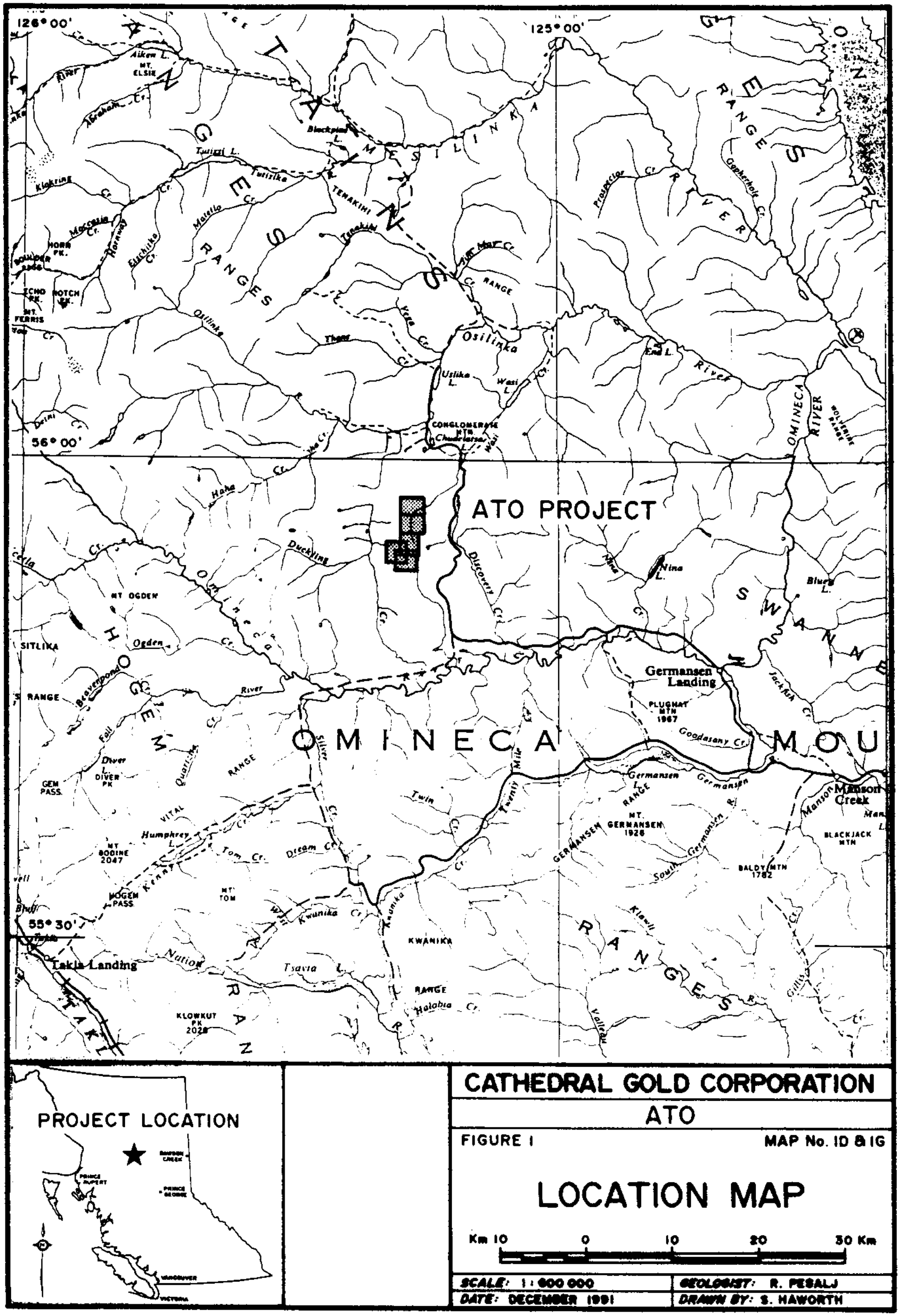
The property is located in the mountainous terrain dominated by well forested valleys with coniferous forest to 1,750m above the sea level and alpine conditions with peaks up to 2,000 meters. The property lies at the head of Wasi Creek, tributary of Osilinka River. The southern part of the property is drained by several small watercourses that belong to the Omineca River watershed.

The work described in this report was conducted between September 25 and October 3, 1991 out of the base at Germansen Landing.

1.2 The Property

The ATO property consists of five contiguous claims comprising 100 units:

Claim	Record Number	No. of Units	Owner of Record	Recorded
ATO I	7948	20	Cathedral Gold Corp.	June 14, 1986
ATO II	7949	20	Cathedral Gold Corp.	June 14, 1986
ATO III	7950	20	Cathedral Gold Corp.	June 14, 1986
ATO IV	12065	20	Cathedral Gold Corp.	October 3, 1990
ATO V	12066	20	Cathedral Gold Corp.	October 3, 1990



126° 00'
125° 00'
56° 00'
55° 30'
ATO PROJECT
OMINECA
MOU
Germansen Landing
Manson Creek
Takla Landing
CONGLOMERATE MTN
Osilinka
Omineca
Germansen
SWANNE
RANGES
PROJECT LOCATION
PRINCE RUPERT
PRINCE GEORGE
VANCOUVER
VICTORIA
CATHEDRAL GOLD CORPORATION
ATO
FIGURE I
MAP No. 10 & 1G
LOCATION MAP
Km 10 0 10 20 30 Km
SCALE: 1:600 000
GEOLOGIST: R. PESALJ
DATE: DECEMBER 1991
DRAWN BY: S. HAWORTH

The current assessment credits will keep the ATO I, II and III claims in good standing until October 3, 1992 and ATO IV and V claims until June 14, 1995. Figure 2 is the claim map of the property.

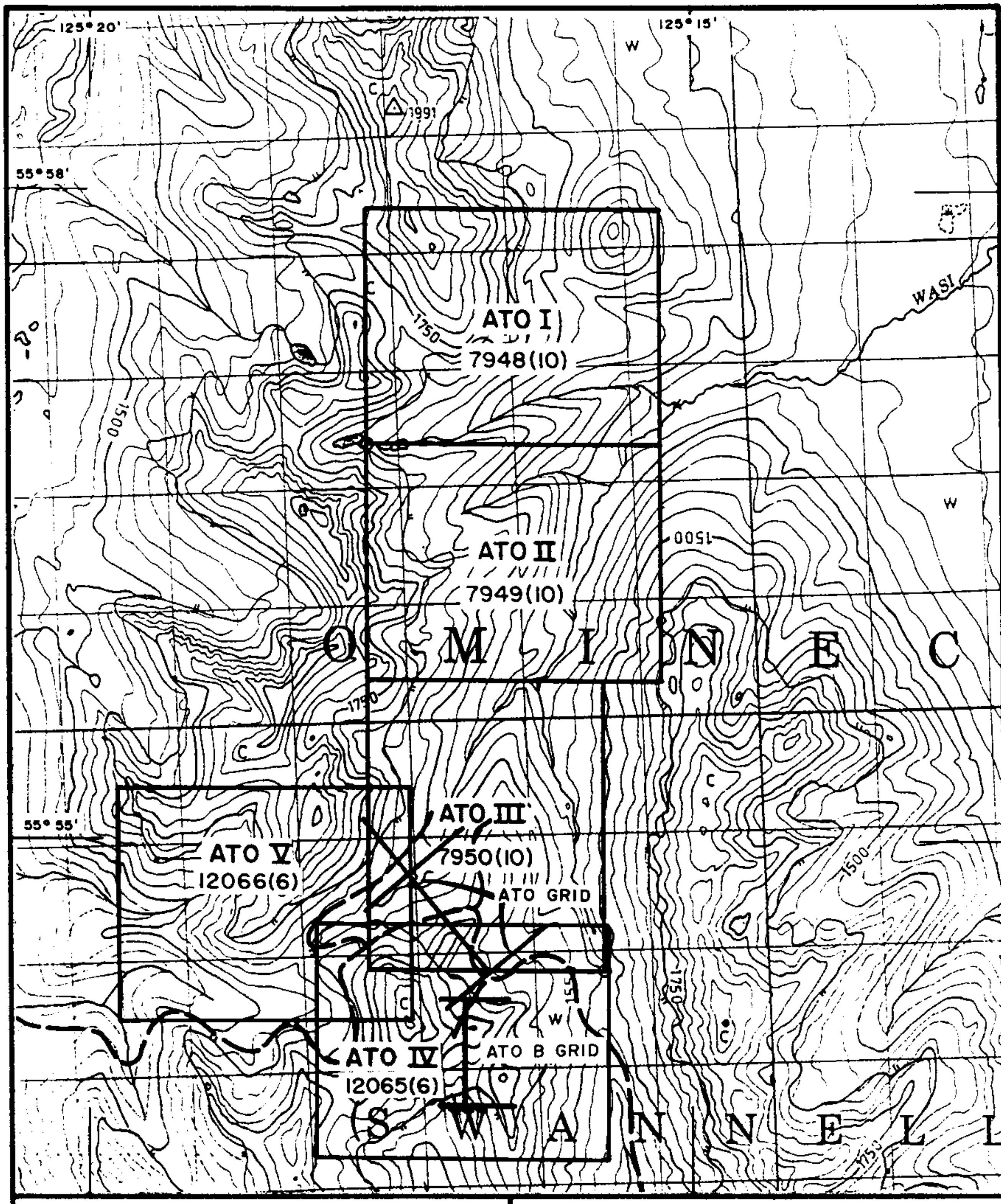
1.3 History of Previous Work

In 1961 and 1962, Kennco Explorations Ltd. carried out geochemical and geophysical surveys over the Dorel claims. The surveys outlined a geochemical soil anomaly and discovered a high grade chalcopyrite-pyrite float in the Rondah Creek, located on the west side of the ATO III claim.

In 1970, Tyee Resources constructed an access road to the property from the Omineca Road and carried out geological mapping, geophysical surveys and a total of 3,037 feet of diamond drilling in five holes. The objective of the drilling program was to evaluate a geochemical/geophysical anomaly for its porphyry copper potential. The best drill intersection by the program was 180 feet grading 0.51% Cu in Hole #70-1. The core samples were not analyzed for gold.

Cominco Ltd. and Marubeni-lida (Canada) optioned the property under a joint venture agreement in 1971, and conducted linecutting, trenching, geochemical surveys, mapping and 2,000 feet of percussion drilling in ten holes targeted at geochemical and induced polarization anomalies. In 1972 the property was further evaluated by trenching, geochemistry, geophysics and 1,180 feet of percussion drilling in eight holes. The work by joint venture returned no drill intersections with significant copper and the joint venture was terminated.

In 1986, Cathedral Gold Corporation staked ATO I, ATO II and ATO III claims following the discovery of gold mineralization along the Hogem Batholith-Takla volcanic contact on the Takla-Rainbow property, located 27 km to the south and carried out reconnaissance geochemistry in 1987 and 1989 on ATO I, ATO II and ATO III claims. The ATO IV and ATO V claims were staked in June 1990. In September 1990, the Cominco 1971 grid was re-established and geochemical soil and rock sampling and magnetometer survey conducted. The remnants of



LEGEND

Geochemical Grid

Cat Road

CATHEDRAL GOLD CORPORATION

ATO

FIGURE 2 | N.T.S. 93N/14

CLAIM MAP

Km 1 0 1 2 Km

SCALE: 1:50 000	GEOLOGIST: R. PESALJ
DATE: DECEMBER 1981	DRAWN BY: S. HAWORTH

mineralized core from the 1970 drilling by Tyee Resources were also sampled and analyzed for copper and gold in an effort to establish the metal ratios and to evaluate the prospect for its alkalic porphyry copper-gold potential. These surveys outlined a copper-gold soil anomaly measuring 800m x 600m, with anomalous gold values centered over the ground drilled previously by Tyee Resources in 1970. A broad magnetometer anomaly coinciding with the copper-gold anomaly was also delineated. The soil and magnetometer anomalies straddle the contact between Hogem Batholith to the west and Takla volcanics to the east.

2.0 REGIONAL GEOLOGY

The general area is underlain by Lower to Middle Mesozoic volcanic and intrusive rocks of the Quesnel Trough (now Quesnel Belt), a graben lying between the Pinchi Fault Zone to the west of the Manson Fault Zone to the east (Garnet, 1978).

The area west of the Pinchi Fault Zone is represented by older, uplifted Cache Creek group of Permian age. The group consists predominantly of siliceous and argillaceous sediments with lesser amount of massive limestone. The terrane east of the Manson Fault belong to the uplifted Wolverine Complex comprised of highly deformed Proterozoic and Palaeozoic strata.

East of the Pinchi Fault are rocks of the Takla Group and Hogem Batholith, the largest intrusive body within the Swannell Range.

The Takla Group is a 7,500m thick succession of Upper Triassic andesitic and basaltic flows in the lower part and (Lower Jurassic?) sediments and tuffs in the upper part.

The Hogem Batholith is a complex intrusion, spanning a time interval from Upper Jurassic (182 Ma) to Lower Cretaceous age (108 Ma) and can be subdivided into three phases of intrusive activity (Garnet, 1978). Phase I of the intrusion occurred in Upper Triassic time and represents the intrusive equivalent of Takla volcanics.

Phase II took place in Middle Jurassic, while Phase III occurred in Lower Cretaceous time.

The major units of the batholith in the general area of the ATO property are diorite, monzodiorite and quartz monzodiorite of the Phase I and migmatitic syenite of Duckling Creek syenite complex that belongs to Phase II. Both phases display alkaline petrochemistry.

Alkalic porphyry copper-gold deposits within the Quesnel Belt in the general area include Mount Milligan (425,000,000 tons @ 0.20% Cu and 0.45 g/tonne Au) located 130 km southeast and Lorraine (10,000,000 tonnes @ 0.70% Cu and 0.21 g/tonne Au) located 10 km west of ATO claims.

3.0 PROPERTY GEOLOGY

At the ATO property, the contact between Hogem Batholith and Takla volcanics can be traced over five kilometers in a north-south direction. The rock exposures on both sides of the contact are good, especially along the ridges and slopes at higher elevations. Low lying valleys are covered by a variable thickness of glacial till.

The Hogem Batholith is represented by the Phase I and Phase II intrusive lithologies including diorite, monzodiorite, quartz monzodiorite and syenite. Phase I rocks locally display a strong metasomatic overprint by a late magmatic, alkalic phase, of syenitic composition. This syenitic phase is demonstrably spatially and genetically related to the sulphide mineralization on the property. Porphyry copper-gold is confined to a contact zone marked by a strong geochemical and magnetometer anomaly, potash feldspar rich dykes, and stringers and fracture fillings of syenitic phase crosscutting adjacent intrusive and volcanic host rocks. The mineralization is in form of veinlets and disseminations of chalcopyrite, bornite, pyrite and magnetite. Pervasive potash feldspathization is evident in the contact zone, particularly within the geochemical anomaly. A pyritic halo occurs on the volcanic side of the contact, structurally above the copper-gold mineralization.

The Takla rocks on the property include basic to intermediate volcanic flows with associated crystal and ash tuffs. Sediments mapped within the volcanic package include beds of limestone, dolomite and chert.

4.0 1991 GEOCHEMICAL SURVEYS

A grid with a compass and chain base line running in north-south direction was established with cross lines at 100m intervals. Soil samples were then collected at 25 m intervals over the entire grid, which covers an area approximately 900 x 800 meters. The surveys were carried out to investigate the anomalous trend indicated by previous reconnaissance work by Cominco, called area "E", south of the area investigated in 1990, with notable potential for a large tonnage of porphyry copper mineralization.

Soil conditions on the grid vary from well developed B horizon on flat lying ground to the absence of soil on steep slopes, in which case fine talus fragments were available. Samples were excavated by mattock from an average depth of 20-30 cm below the surface. A total of 265 soil and 12 rock samples were collected and submitted to Acme Analytical Lab in Vancouver for 30 element analyses by the ICP method and geochemical gold analysis. The soil samples were dried, sieved and -80 mesh fraction analyzed. The rock samples were crushed, split, pulverized and analyzed by the same method as soil samples. A detail description of analytical methodology is contained in the Appendix I.

4.1 Rock Geochemical Survey

A total of 12 rock samples were collected from the outcrops of volcanics that showed various degrees of gossan development and iron oxide staining. A detail description of samples is given in the Appendix II of this report.

Lithologically, the samples collected represent Takla andesitic flows that underlie the eastern part of the grid. The most common rock variety is a porphyritic andesite that consists of augite or plagioclase phenocrysts set in fine grained groundmass. Massive, fine grained flows are also present. Pyrite veinlets and disseminations are common and responsible for development of gossans and iron oxide stained outcrops. The pyrite content ranges from <1% to a maximum of 5%. Epidote alteration in andesite is present in form of fracture filling and irregular stockwork and accompanies the epizode of pyritization.

Analytical results indicate that copper values in the samples collected range from 50 ppm to 744 ppm, with a mean value of 276 ppm. Gold content ranges from 3 ppb to 31 ppb, with a mean value of 9 ppb. The anomalous copper values in the volcanic samples collected correlate well with the pyrite present, indicating that pyrite probably carries minute quantities of copper. Copper sulphide minerals or stain have not been identified in the rock samples.

4.2 Soil Geochemical Survey

A total of 253 soil samples were collected from the grid. Geochemical plan with distribution of copper and gold values is presented in Figures 3 and 4.

Copper values in soil and talus fines on the grid range from 34 ppm to 2,974 ppm, with a mean value of 338 ppm. Gold values range from 0.2 ppb to 61.5 ppb with a mean value of 4.8 ppb.

The survey outlined two main copper anomalous areas. Anomaly "A" is located on the west intrusive side, extends parallel to the intrusive-volcanic contact and measures 800m x 200m, with both ends open. Anomaly "B" is on the volcanic side, measures 400m x 350m and is open to the south and east. Several smaller anomalies over one or two lines are also present on the volcanic side. Anomaly "B" is located on the north facing slope over a weak gossan zone. The explanation for anomalous copper values is not readily available since the rock samples were not collected from this area, but a possibility of weakly disseminated copper mineralization exists. Anomaly "A" is located on the east facing slope, entirely on the intrusive side and is probably caused by a porphyry style copper-gold mineralization that is often void of pyrite, hence no iron oxide staining in the outcrops over the anomalous area.

The distribution of gold values on the grid reveals the background levels over most of the volcanics underlying the east part and an anomaly with values ranging from 10 ppb 60 ppb that generally coincides with the copper anomaly "A" on the intrusive side.

5.0 CONCLUSIONS AND RECOMMENDATIONS

1. Geochemical surveys carried on ATO property B Grid outlined two copper soil anomalies that could be caused by porphyry style mineralization. The explanation of anomalous copper values in soil and fine talus cannot be made without follow-up work that will include detail anomaly investigation by trenching and sampling.

2. Pending positive results of trenching and sampling, testing of these anomalies by shallow diamond drilling along with the evaluation of other outstanding targets on the property is recommended.

3. The exploration programs of the property should also include further geochemical coverage along the intrusive-volcanic contact to the north over the untested 3 kilometers of the geochemical trend.

6.0 BIBLIOGRAPHY

Armstrong, J.E., 1949: Fort St. James Map Area, British Columbia, Map 907A, Geological Survey of Canada, Memoir 252.

Bishop, S.T., 1989: Geological and Geochemical Report on ATO Property, Assessment Report #19449.

Garnett, J.A., 1978: Geology and Mineral Occurrences of the Southern Hogem Batholith, B.C. Dept. of Mines and Petroleum Resources, Bulletin #70.

Pesalj, R., 1985-1988: Geological, Geochemical and Diamond Drilling Reports on the Takla Rainbow Property. Imperial Metals Corporation files.

Stevenson, R.W., 1963: Report on Geochemical Survey of Rondah Claim Group. Assessment Report #532.

Taylor, A.B., 1987: Geology and Geochemistry of the ATO claims, Swannell Range, North Central B.C. Assessment Report #16830.

Taylor, A.B., 1991: Geochemical Grid on the ATO claim. Cathedral Gold Corporation files.

Tipper, H.W.; Campbell, R.B.; Taylor, G.C. and Scott, D.F., 1979: Parsnip River, British Columbia. Map 1424A, Sheet 93, Geological Survey of Canada.

Wilkinson, W.J.; Stevenson, R.W. and Garnett, J.A., 1976: Lorraine, CIM Special Volume 15, Porphyry Deposits of the Canadian Cordillera, pp 397-401.

7.0 STATEMENT OF EXPENDITURES

Personnel			
R. Pesalj	Sept. 25-Oct. 3; 9 days @ $250/day	$2,250.00	
D. Gorc	Sept. 26-Oct. 2; 7 days @ $225/day	1,575.00	$3,825.00
Analytical Cost			
265 soil samples (30 element by ICP + Au by AA)		2,782.50	
12 rock samples (30 element by ICP + Au by AA)		153.00	2,935.50
Transportation			
2 airfares Vancouver - Williams Lake		749.54	
Truck rental 9 days @ $65/day		585.00	
Gas		187.57	1,522.11
Accommodation and Subsistence			
2 men for 7 days @ $55.57/day		778.05	778.05
Field Supplies		492.01	492.01
Report Writing		1,000.00	1,000.00
Drafting, Computer, Typing		1,000.00	1,000.00
	TOTAL		$11,552.67

8.0 CERTIFICATE OF QUALIFICATIONS

I, Radomir Pesalj, residing at 502 Erin Place, Delta, British Columbia, V4M 2V6, do hereby certify that:

1. I graduated in 1963 from the University of Belgrade, Yugoslavia, with a Bachelor of Science degree in Geological Engineering and have been practicing my profession since graduation.

2. I am a registered Professional Engineer in the Province of British Columbia.

3. I am a Fellow of the Society of Economic Geologists Inc.

4. I am presently a permanent staff geologist with Imperial Metals Corporation of 800-601 West Hastings Street, Vancouver, British Columbia, V6B 5A6.

5. This report and conclusions and recommendations made herein, are based on the results of geochemical surveys on the ATO property carried out between September 25 and October 3, 1991 under my direct supervision.

VANCOUVER, B.C.
November 15, 1991

Rad. Pesalj
Rad Pesalj, P. Eng.

APPENDIX I

Analytical Analyses and Methodology

GEOCHEMICAL ANALYSIS CERTIFICATE

Imperial Metals Corporation PROJECT 7101 File # 91-4898 Page 1

800 - 601 W. Hastings St., Vancouver BC V6B 5A6

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
10000N 9800E	6	210	7	44	.1	20	12	644	4.54	2	5	ND	2	374	.3	2	2	115	1.38	.181	7	35	.54	150	.06	2	3.23	.03	.12	1	5.7
10000N 9825E	6	231	5	44	.1	22	13	698	5.50	4	5	ND	2	367	.3	2	2	137	1.45	.191	8	48	.59	142	.07	2	3.40	.04	.08	1	.9
10000N 9850E	6	256	6	50	.1	25	14	694	4.50	4	5	ND	1	260	.2	2	2	110	1.08	.168	8	41	.61	141	.06	2	3.25	.02	.09	1	.4
10000N 9875E	6	132	6	42	.2	10	7	335	2.83	2	5	ND	1	271	.2	2	2	58	.72	.186	9	16	.38	148	.03	2	2.94	.03	.06	1	2.6
10000N 9900E	5	159	5	41	.2	17	9	291	3.61	4	5	ND	1	320	.4	2	2	86	.94	.135	7	30	.63	166	.06	2	3.05	.04	.05	1	3.0
10000N 9925E	1	192	2	52	.1	16	18	552	4.99	2	5	ND	1	63	.5	2	2	133	.55	.071	3	29	1.56	254	.24	2	2.24	.04	.40	1	27.0
10000N 9950E	3	503	2	44	.1	22	31	572	5.34	6	5	ND	2	120	2.5	2	2	133	.72	.086	4	37	1.51	146	.21	2	3.20	.04	.27	1	.7
10000N 9975E	3	368	2	50	.1	18	23	507	4.92	5	5	ND	1	110	1.7	2	2	127	.66	.093	4	37	1.34	161	.19	2	2.87	.05	.25	1	.2
10000N 10000E	9	257	5	35	.3	16	12	224	3.33	3	5	ND	1	207	.3	2	2	93	.63	.076	4	39	.71	143	.08	2	2.86	.03	.07	1	6.2
10000N 10025E	5	117	2	44	.2	14	8	268	2.86	2	5	ND	1	139	.3	2	2	74	.49	.115	5	28	.78	129	.07	2	2.85	.03	.05	1	.5
10000N 10050E	4	129	4	44	.3	9	10	289	6.06	2	5	ND	1	194	.2	2	2	153	.48	.099	3	29	.53	195	.08	2	2.62	.03	.05	1	2.9
10000N 10075E	6	105	7	46	.2	10	10	336	3.58	2	5	ND	1	117	.2	2	2	102	.45	.065	4	32	.82	109	.17	2	2.49	.03	.08	1	.2
10000N 10100E	5	313	6	37	.6	13	11	375	4.47	2	5	ND	1	117	.2	2	2	115	.49	.149	5	43	.49	96	.09	2	4.80	.01	.05	1	1.5
10000N 10125E	3	81	6	31	.4	7	4	134	2.11	2	5	ND	1	142	.2	2	2	79	.42	.052	4	26	.27	112	.08	2	2.08	.02	.04	1	4.7
10000N 10150E	3	134	5	67	.3	18	15	652	4.95	2	5	ND	1	52	.6	2	2	120	.54	.069	3	43	1.14	73	.15	2	3.23	.05	.07	1	1.7
10000N 10175E	3	57	3	38	.4	5	6	519	2.99	2	5	ND	1	166	.6	2	2	100	.34	.076	4	25	.28	102	.05	2	1.62	.02	.07	1	4.4
10000N 10200E	3	126	6	48	.5	18	12	366	5.71	3	5	ND	1	87	.3	2	2	138	.38	.062	5	47	.73	82	.17	2	3.18	.02	.05	1	2.4
10000N 10225E	3	92	5	46	.4	13	10	308	4.80	3	5	ND	1	91	.5	2	2	128	.36	.055	4	44	.56	79	.15	2	2.50	.02	.04	1	.2
10000N 10250E	3	114	5	50	.3	19	14	475	4.73	2	5	ND	1	102	.2	2	2	121	.50	.099	4	49	.75	78	.12	2	2.74	.02	.08	1	.4
10000N 10275E	3	165	5	48	.6	19	15	568	5.56	3	5	ND	1	98	1.1	2	2	138	.48	.078	4	52	.77	84	.13	2	2.84	.03	.06	1	2.7
10000N 10300E	3	101	4	54	.4	17	18	549	5.83	6	5	ND	1	86	.9	2	2	163	.55	.067	4	52	.91	64	.15	2	2.99	.03	.07	1	.8
10000N 10325E	3	99	5	49	.2	15	13	346	5.55	3	5	ND	1	78	.2	2	2	143	.41	.070	4	47	.62	70	.18	2	2.90	.03	.06	1	2.4
10000N 10350E	2	55	5	44	.7	20	11	386	4.01	2	5	ND	1	80	.2	2	2	107	.50	.056	4	39	.78	73	.19	2	2.76	.03	.07	1	3.9
10000N 10375E	3	143	2	59	.5	27	22	390	6.35	8	5	ND	1	81	.3	2	2	132	.47	.059	4	55	1.18	72	.18	2	4.63	.02	.05	1	4.0
10000N 10400E	4	78	9	43	.4	16	12	310	5.26	4	5	ND	1	98	.5	2	2	130	.37	.061	5	35	.63	89	.19	2	3.48	.02	.06	1	2.9
9900N 9800E	4	294	8	58	.1	14	15	658	5.34	7	5	ND	2	320	1.3	2	2	131	.99	.204	9	20	.57	177	.06	2	3.39	.03	.05	1	4.7
RE 9900N 9925E	4	284	5	43	.1	15	21	532	6.08	5	5	ND	1	105	.2	2	2	160	.60	.072	3	29	1.68	116	.26	2	3.09	.03	.17	1	5.1
9900N 9825E	5	205	7	60	.1	9	13	1143	4.81	2	5	ND	1	516	.7	2	2	115	1.04	.293	7	15	.48	291	.06	2	4.43	.04	.08	1	1.8
9900N 9850E	4	177	8	56	.1	10	13	809	5.01	2	5	ND	1	321	.2	2	2	114	.85	.250	8	19	.48	200	.06	2	3.99	.03	.06	1	6.3
9900N 9875E	5	185	10	54	.1	10	12	986	4.16	5	5	ND	1	412	.5	2	2	96	.94	.250	8	16	.46	225	.06	2	3.98	.03	.08	1	4.7
9900N 9900E	4	304	7	38	.1	15	15	555	5.18	4	5	ND	1	266	.3	2	2	132	.90	.133	6	38	.72	129	.08	2	2.91	.02	.09	1	16.5
9900N 9925E	3	306	5	39	.2	13	18	496	5.64	6	5	ND	1	102	.5	2	2	153	.52	.065	4	25	1.60	114	.26	2	3.02	.03	.22	1	2.0
9900N 9950E	8	519	5	47	.2	15	16	429	4.45	3	5	ND	1	137	.7	2	2	108	.79	.097	5	32	1.35	96	.15	2	3.31	.03	.08	1	5.2
9900N 9975E	11	723	5	51	.3	20	34	635	5.92	6	5	ND	1	93	.7	2	2	147	.66	.110	4	58	1.24	76	.14	2	2.93	.02	.15	1	4.8
9900N 10000E	25	547	2	45	.1	18	16	416	4.39	2	5	ND	1	163	1.9	2	2	125	1.06	.086	4	57	1.21	84	.11	2	3.34	.04	.08	1	1.5
9900N 10025E	18	409	4	53	.1	18	17	562	4.20	4	5	ND	1	179	.9	2	2	116	1.19	.129	5	58	1.12	85	.09	2	2.93	.04	.05	1	.3
9900N 10050E	10	418	3	54	.1	26	17	730	4.88	5	5	ND	1	70	.6	2	2	122	.58	.066	3	72	1.31	63	.14	2	2.80	.03	.07	1	.3
STANDARD C/AU-S	18	63	39	133	7.2	64	31	1033	3.90	42	21	7	39	52	18.4	16	18	56	.47	.085	37	57	.84	176	.09	34	1.89	.06	16	11	45.5

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: P1-P8 SOIL P9 ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.
Samples beginning 'RE' are duplicate samples.

DATE RECEIVED: OCT 3 1991 **DATE REPORT MAILED:** Oct 8/91. **SIGNED BY**..........D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
9900N 10075E	4	162	3	56	.3	13	10	492	3.79	2	5	ND	1	153	.2	2	2	109	.45	.091	4	40	.47	138	.06	3	2.41	.03	.05	1	5.1
9900N 10100E	5	187	2	41	.4	9	10	554	3.46	2	5	ND	1	96	.4	2	2	87	.32	.169	4	32	.46	99	.05	2	3.22	.02	.05	2	3.8
9900N 10125E	3	138	2	47	.2	12	12	605	4.15	2	5	ND	1	97	.4	2	2	109	.35	.096	4	39	.62	90	.10	2	3.05	.03	.07	1	3.3
9900N 10150E	3	109	4	45	.3	17	11	463	3.29	2	5	ND	1	124	.2	2	2	100	.52	.107	5	41	.85	95	.11	4	2.87	.03	.09	2	7.7
9900N 10175E	2	128	3	50	.4	17	13	636	3.63	2	5	ND	1	91	.2	2	2	92	.37	.110	4	42	.56	81	.08	2	3.43	.02	.05	1	6.2
9900N 10200E	2	149	2	55	.5	22	21	678	4.65	2	5	ND	1	101	.3	2	2	107	.51	.161	3	46	.98	110	.11	2	3.34	.03	.08	1	3.8
9900N 10225E	3	82	6	34	.2	12	8	208	2.48	2	5	ND	1	89	.3	2	2	75	.33	.076	5	35	.49	89	.09	2	2.63	.02	.07	1	3.2
9900N 10250E	3	61	7	30	.3	9	6	140	2.39	2	5	ND	1	113	.2	2	2	94	.42	.049	6	33	.35	90	.16	2	2.32	.03	.05	1	2.7
9900N 10275E	2	69	7	38	.4	13	9	342	4.02	2	5	ND	1	79	.2	2	2	126	.38	.050	5	40	.65	80	.21	2	2.49	.03	.05	1	2.2
9900N 10300E	2	114	2	52	.3	24	17	495	5.30	2	5	ND	1	76	.2	2	2	125	.42	.057	5	50	.92	78	.15	2	3.35	.03	.06	1	1.8
9900N 10325E	1	61	2	42	.1	17	10	348	3.97	2	5	ND	1	103	.2	2	2	108	.45	.050	4	33	.79	89	.20	2	2.51	.04	.07	1	3.8
9900N 10350E	2	100	2	51	.4	20	12	368	3.91	2	5	ND	1	151	.2	2	2	97	.45	.075	4	38	.87	117	.13	2	3.63	.03	.08	1	.9
9900N 10375E	2	73	5	52	.2	20	15	714	5.35	2	5	ND	1	81	.6	2	2	146	.49	.062	4	44	1.20	73	.20	2	2.91	.03	.12	1	.6
9900N 10400E	3	34	5	45	.5	10	8	374	3.92	2	5	ND	1	108	.2	2	2	119	.34	.058	5	31	1.03	88	.26	2	2.64	.03	.12	1	.5
9800N 9800E	2	203	3	37	.1	5	11	675	3.55	2	5	ND	2	493	.7	2	2	98	1.44	.150	10	8	.55	100	.05	2	3.55	.06	.05	2	1.7
9800N 9825E	2	198	3	43	.1	6	12	777	3.66	3	5	ND	2	454	.2	2	2	99	1.63	.144	7	7	.53	94	.04	2	3.72	.02	.11	1	4.1
9800N 9850E	2	217	3	52	.1	7	12	805	3.75	2	5	ND	2	529	.5	2	2	101	1.65	.181	9	8	.58	114	.05	2	4.19	.05	.11	1	3.9
9800N 9875E	4	221	4	45	.1	9	9	580	2.50	2	5	ND	2	466	.8	2	2	62	1.56	.131	7	9	.58	134	.04	2	4.47	.07	.08	2	2.7
9800N 9900E	3	293	3	45	.3	8	13	503	4.13	2	5	ND	2	436	.2	2	2	113	1.49	.176	7	12	.58	104	.04	2	4.10	.03	.11	1	.8
9800N 9925E	3	398	2	49	.3	17	18	495	4.52	2	5	ND	1	220	.3	2	2	124	.73	.141	5	44	.80	114	.06	2	3.61	.03	.09	1	1.8
9800N 9950E	9	823	2	57	.3	37	46	666	6.12	4	5	ND	2	132	.3	2	2	152	.98	.099	5	82	1.60	96	.17	2	3.38	.03	.20	1	13.6
9800N 9975E	10	534	2	45	.3	29	24	555	4.70	7	5	ND	1	322	.2	2	2	123	1.54	.099	7	98	1.35	92	.13	2	4.14	.04	.17	1	9.5
9800N 10000E	2	251	2	64	.2	27	22	790	4.85	2	5	ND	1	135	.2	2	2	129	.69	.124	6	55	1.33	99	.15	2	3.76	.03	.09	1	.2
RE 9800N 9925E	4	419	2	53	.3	18	19	541	4.80	3	5	ND	1	222	.2	2	2	131	.77	.153	5	50	.87	119	.07	2	3.85	.03	.09	1	1.8
9800N 10025E	2	211	2	51	.6	21	18	427	5.61	3	5	ND	1	102	.2	2	2	130	.48	.144	5	56	.79	92	.09	2	4.63	.02	.06	3	2.8
9800N 10050E	1	198	2	46	.2	21	15	364	4.12	2	5	ND	1	110	1.2	2	2	109	.43	.089	6	50	.93	97	.11	2	3.79	.04	.08	1	3.0
9800N 10075E	4	218	2	61	.4	29	21	608	6.43	7	5	ND	1	115	.9	2	2	161	.64	.092	5	67	1.40	84	.16	2	4.10	.03	.11	1	.2
9800N 10100E	2	292	2	72	.2	33	24	755	6.01	6	5	ND	1	112	1.4	2	2	149	.70	.094	4	78	1.57	81	.17	2	4.24	.03	.13	1	1.2
9800N 10125E	1	169	2	69	.3	28	21	670	6.50	7	5	ND	1	74	1.4	2	2	159	.44	.064	4	59	1.41	72	.20	2	4.00	.04	.09	1	.5
9800N 10150E	2	226	2	56	.7	29	23	515	5.51	4	5	ND	1	95	.8	2	2	128	.42	.073	4	56	1.13	92	.14	2	4.69	.03	.06	1	4.0
9800N 10175E	2	102	3	56	.3	22	14	355	5.39	2	5	ND	1	96	.3	2	2	161	.46	.080	4	56	1.07	92	.22	2	2.72	.03	.09	1	.7
9800N 10200E	1	82	6	46	.5	18	11	447	3.52	2	5	ND	1	87	.4	2	2	102	.43	.044	9	44	.98	110	.17	2	3.11	.03	.09	1	.2
9800N 10225E	3	154	2	58	.7	29	25	863	7.43	8	5	ND	1	105	.7	2	2	158	.45	.078	5	83	1.56	89	.16	2	3.81	.03	.08	3	.5
9800N 10250E	2	54	3	65	.3	32	17	542	5.03	2	5	ND	1	89	1.1	2	2	134	.76	.030	8	107	2.00	74	.28	2	4.00	.07	.12	1	.9
9800N 10275E	3	138	2	58	.2	23	18	450	6.20	3	5	ND	1	112	1.3	2	2	151	.44	.069	6	63	1.33	100	.19	2	3.94	.03	.08	1	.4
9800N 10300E	6	217	2	65	.3	34	22	776	5.35	2	5	ND	1	122	2.4	2	2	139	.69	.076	5	77	2.03	89	.17	2	4.66	.04	.12	1	1.3
9800N 10325E	5	147	2	55	.2	28	19	653	5.74	3	5	ND	1	125	.9	2	2	168	.80	.050	4	75	1.90	81	.24	2	3.76	.03	.11	1	.2
STANDARD C/AU-S	19	65	41	133	7.1	69	31	1067	3.99	42	20	7	40	52	18.8	15	20	57	.48	.090	39	58	.86	175	.08	33	1.92	.07	.15	11	45.1

Samples beginning 'RE' are duplicate samples.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
9800N 10350E	5	117	8	54	.1	26	21	404	4.90	3	11	ND	3	93	.5	2	2	124	.53	.089	2	43	1.06	77	.11	2	4.37	.02	.09	3	4.0
9800N 10375E	3	94	5	51	.4	33	17	359	4.64	2	5	ND	1	74	1.0	2	2	136	.45	.052	3	53	1.37	75	.21	2	3.93	.03	.09	2	2.1
9800N 10400E	4	100	5	34	.1	20	24	367	4.25	2	5	ND	1	241	1.2	2	2	127	.96	.073	2	29	1.01	92	.14	2	4.74	.03	.11	1	4.3
9700N 9800E	2	378	8	49	.1	5	18	1154	5.49	5	5	ND	1	620	.5	2	2	155	1.72	.154	7	7	.53	175	.06	2	3.52	.06	.12	1	9.3
9700N 9825E	1	787	8	53	.2	17	26	1076	4.71	5	5	ND	1	481	.8	2	2	161	1.90	.116	6	33	1.20	300	.14	2	4.22	.05	.14	1	46.2
9700N 9850E	1	1314	2	56	.1	26	40	682	6.68	2	5	ND	1	361	.8	2	2	224	1.17	.069	2	41	1.83	133	.32	2	3.26	.03	.52	1	61.5
9700N 9875E	2	675	3	40	.1	35	35	560	4.88	2	5	ND	1	383	1.0	2	2	158	1.17	.059	2	58	1.58	97	.27	2	3.40	.03	.35	1	17.2
9700N 9900E	5	1225	2	43	.3	38	51	608	4.76	4	5	ND	1	270	.9	2	2	130	1.51	.040	4	77	1.40	41	.15	2	4.03	.03	.22	1	21.5
9700N 9925E	8	960	8	28	.2	19	58	500	4.76	6	5	ND	1	235	.7	2	2	109	1.63	.055	4	26	.77	23	.09	2	3.73	.02	.14	1	18.2
9700N 9950E	2	427	4	26	.2	10	19	397	2.13	2	5	ND	1	193	.4	2	2	65	2.68	.062	3	18	.43	27	.05	2	4.44	.02	.14	1	13.1
9700N 9975E	2	473	7	51	.1	65	68	1283	7.48	5	5	ND	1	161	.5	2	3	185	1.57	.051	5	156	3.01	82	.23	2	3.95	.04	.31	1	10.8
9700N 10000E	7	419	4	48	.1	66	65	1406	7.64	9	5	ND	1	242	.9	2	5	172	1.59	.054	5	103	2.68	110	.21	2	4.64	.03	.36	1	6.8
9700N 10000E (DUP)	7	412	4	48	.1	65	64	1369	7.50	8	5	ND	1	235	.9	2	2	172	1.58	.052	4	101	2.61	106	.21	2	4.57	.03	.37	1	7.6
9700N 10025E	4	325	7	59	.2	64	63	1337	6.86	11	5	ND	1	213	1.0	2	4	168	1.61	.055	5	110	2.67	216	.22	2	4.32	.04	.28	2	5.5
9700N 10050E	2	280	4	59	.1	65	59	1587	7.33	2	5	ND	1	208	.8	2	2	173	1.70	.066	4	134	3.01	59	.21	2	4.69	.03	.20	2	2.9
9700N 10075E	3	237	4	50	.1	49	58	1431	6.91	2	5	ND	1	266	.8	2	2	171	1.68	.057	3	97	2.63	61	.19	2	4.48	.03	.20	2	1.9
9700N 10100E	52	295	7	50	.1	52	73	1309	6.65	4	5	ND	1	220	.5	2	3	134	1.74	.065	4	70	2.25	57	.18	2	4.20	.05	.20	3	5.1
9700N 10225E	3	355	2	43	.1	38	53	1281	5.05	5	5	ND	1	316	.8	2	2	108	1.83	.049	4	41	1.89	106	.16	2	4.27	.04	.26	1	6.6
9700N 10250E	4	415	4	41	.1	38	44	1021	5.57	7	5	ND	1	200	.6	2	3	127	1.57	.051	3	53	1.79	51	.16	2	4.69	.03	.17	1	6.0
9700N 10275E	14	348	4	38	.1	39	56	1012	6.30	5	9	ND	1	207	.6	2	2	138	1.88	.053	4	45	1.64	44	.13	2	5.07	.03	.22	1	8.5
9700N 10300E	18	437	4	39	.1	42	63	1025	6.40	7	5	ND	1	358	1.0	2	4	143	1.51	.065	2	44	1.95	61	.16	3	5.06	.04	.21	2	13.7
9700N 10325E	29	526	3	50	.1	47	72	1419	8.86	3	5	ND	1	249	.9	2	8	199	1.17	.076	5	50	2.24	81	.20	2	5.34	.05	.28	2	9.8
9700N 10350E	5	255	8	43	.1	37	43	837	6.14	11	6	ND	1	99	1.0	2	2	145	1.05	.056	3	56	1.38	26	.08	2	4.65	.01	.09	1	6.7
9700N 10375E	6	160	8	47	.1	29	22	347	5.35	5	5	ND	1	112	.9	2	3	144	.55	.050	4	41	1.25	81	.20	2	4.51	.03	.07	2	2.9
9700N 10400E	2	110	2	32	.1	20	23	237	3.92	2	5	ND	1	159	.4	2	2	94	.66	.051	2	22	.93	54	.13	2	4.31	.02	.06	1	3.2
9600N 9700E	1	141	7	46	.1	5	7	653	3.32	2	5	ND	1	458	.8	2	2	95	1.19	.177	4	6	.38	184	.04	2	4.11	.06	.05	1	3.1
9600N 9725E	2	254	9	54	.1	7	11	617	4.83	4	5	ND	2	331	.9	2	7	133	.51	.149	4	10	.68	345	.03	2	3.15	.03	.05	1	6.8
9600N 9750E	1	275	4	75	.3	18	13	503	4.50	2	5	ND	1	228	.5	2	5	131	.65	.112	4	37	1.13	310	.09	2	3.42	.03	.06	1	10.8
9600N 9775E	2	625	8	49	.1	17	30	1380	4.36	3	5	ND	1	395	.7	2	3	123	1.79	.114	4	32	.85	148	.09	3	4.55	.02	.18	1	10.3
9600N 9800E	2	622	6	60	.1	14	18	598	4.79	2	5	ND	1	418	.8	2	2	127	.79	.117	6	24	.66	243	.09	2	4.16	.02	.15	1	11.6
9600N 9825E	3	585	9	56	.1	12	19	775	4.73	5	5	ND	1	415	.4	2	3	115	.77	.143	4	20	.56	347	.08	2	4.50	.02	.16	1	8.2
9600N 9850E	5	1051	4	53	.3	36	20	306	5.58	4	5	ND	1	224	.8	2	7	161	.77	.048	2	67	1.15	82	.17	2	4.13	.03	.09	1	20.2
RE 9600N 9800E	2	619	5	58	.1	15	17	559	4.86	2	5	ND	1	402	.8	2	2	129	.75	.112	5	25	.65	232	.09	2	4.02	.02	.14	1	6.6
9600N 9875E	6	710	11	54	.1	25	25	663	5.01	10	5	ND	1	278	.3	2	3	138	.78	.072	3	43	.75	99	.08	2	3.86	.02	.08	1	9.1
9600N 9900E	3	295	6	37	.1	12	9	200	3.38	3	5	ND	1	263	.3	2	2	99	.49	.090	2	25	.27	100	.03	2	2.73	.03	.06	1	2.8
9600N 9925E	2	289	3	38	.1	13	17	457	3.52	2	5	ND	1	249	.5	2	4	115	1.35	.071	3	24	.69	64	.10	2	3.81	.04	.12	1	5.9
9600N 9950E	2	442	7	60	.1	37	28	628	5.19	4	5	ND	1	145	.6	2	4	146	.67	.084	5	63	1.30	95	.15	2	4.09	.03	.11	1	4.4
STANDARD C/AU-S	19	62	41	134	6.8	72	32	1044	3.95	41	15	6	39	52	17.2	18	17	57	.47	.091	39	57	.87	178	.09	34	1.91	.06	.15	13	46.0

Samples beginning 'RE' are duplicate samples.

Imperial Metals Corporation PROJECT 7101 FILE # 91-4898

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
9600N 9975E	1	246	2	48	.2	51	44	1047	4.83	5	5	ND	1	165	.7	2	2	111	1.12	.050	3	63	1.74	75	.12	2	4.07	.02	.12	1	6.1
9600N 10000E	2	217	2	47	.4	34	22	442	4.76	4	5	ND	1	118	.6	2	2	110	.50	.081	5	57	1.18	92	.10	2	4.54	.02	.05	2	2.3
9600N 10025E	2	86	2	55	.3	30	14	281	3.64	2	5	ND	1	65	.5	2	2	83	.45	.096	4	45	1.08	64	.11	2	4.06	.02	.05	1	8.7
9600N 10050E	4	102	4	48	.4	25	13	257	4.22	2	10	ND	1	72	.3	2	2	89	.38	.094	4	46	.77	90	.07	2	3.88	.02	.07	1	12.4
9600N 10075E	3	123	2	52	.2	39	26	341	4.15	3	5	ND	1	103	.4	2	3	81	.43	.058	9	46	1.12	75	.10	2	3.44	.02	.06	1	5.7
9600N 10100E	1	95	2	57	.3	31	17	428	3.52	2	5	ND	1	86	.6	2	2	75	.38	.048	7	35	1.04	95	.11	2	3.18	.02	.06	1	6.2
9600N 10125E	7	128	2	60	.1	31	27	519	4.34	3	5	ND	1	100	.6	2	2	94	.54	.046	5	33	.90	72	.10	2	3.26	.02	.07	1	8.2
9600N 10150E	3	139	2	44	.2	31	23	195	5.15	2	5	ND	1	110	.5	2	2	125	.54	.052	3	33	.68	56	.15	2	2.66	.02	.04	3	.6
9600N 10175E	7	138	5	56	.4	28	20	366	4.22	2	5	ND	1	79	.6	2	2	96	.43	.054	5	30	.95	112	.15	2	3.48	.02	.08	1	8.5
9600N 10200E	18	361	4	56	.2	37	47	1473	5.32	6	5	ND	1	231	.6	2	3	104	.82	.091	4	40	1.10	146	.11	3	4.75	.04	.11	1	4.9
9600N 10225E	3	186	2	58	.2	45	30	734	5.88	4	5	ND	1	68	.5	2	2	133	.37	.043	2	39	1.97	146	.28	2	4.88	.02	.18	1	1.5
9600N 10250E	5	190	2	58	.1	37	25	633	4.27	2	5	ND	1	86	.4	2	2	94	.39	.063	3	37	1.25	121	.18	2	3.75	.02	.14	1	7.0
9600N 10275E	5	175	2	54	.1	30	19	268	4.28	3	5	ND	1	98	.5	2	3	87	.37	.068	2	33	.91	98	.13	2	4.20	.02	.10	2	16.6
9600N 10300E	7	231	2	56	.2	38	34	594	5.34	2	5	ND	1	190	.8	2	2	128	.57	.069	2	42	1.35	124	.14	2	4.68	.02	.11	1	5.1
9600N 10325E	6	161	2	58	.1	28	21	289	5.31	2	5	ND	1	177	.7	2	2	119	.44	.072	2	36	1.08	128	.12	3	4.37	.03	.08	1	1.0
9600N 10350E	3	102	2	65	.3	24	19	1387	4.30	2	5	ND	1	111	.5	2	2	117	.44	.127	2	31	1.04	143	.16	2	3.21	.02	.15	1	.9
RE 9500N 9700E	3	237	2	55	.2	6	9	801	3.30	3	5	ND	1	313	.6	2	2	88	1.45	.228	5	6	.73	129	.05	2	5.16	.04	.12	1	.4
9600N 10375E	8	246	2	41	.3	17	31	327	5.41	2	5	ND	1	893	.8	2	2	128	1.23	.090	2	19	.75	165	.09	2	6.38	.04	[illegible]	1	1.7
9600N 10400E	6	214	4	45	.1	14	19	243	5.47	9	5	ND	1	311	.5	2	3	119	.61	.069	2	15	.87	120	.08	2	5.51	.03	.12	1	.2
9500N 9650E	1	179	2	43	.2	7	15	847	6.59	2	5	ND	1	463	.5	2	2	190	1.19	.174	6	10	.42	100	.04	2	3.44	.03	.09	1	9.4
9500N 9675E	1	128	2	34	.2	4	10	891	2.73	4	5	ND	1	383	.4	2	2	66	1.65	.121	5	5	.39	74	.02	2	3.14	.04	.09	1	.2
9500N 9700E	3	242	2	55	.2	5	9	806	3.29	2	5	ND	1	327	.8	2	2	87	1.52	.233	6	6	.72	128	.04	2	5.24	.04	.12	1	3.7
9500N 9725E	1	237	2	48	.3	6	10	1186	3.43	5	5	ND	1	762	.6	2	2	90	1.72	.187	7	6	.69	151	.04	2	5.02	.05	.10	1	2.0
9500N 9750E	1	810	3	65	.9	11	15	920	3.93	2	5	ND	1	638	.9	2	2	95	.95	.151	8	10	.88	167	.09	2	4.07	.03	.11	1	.2
9500N 9775E	2	791	5	59	.3	17	16	502	6.56	5	5	ND	1	254	.8	2	2	181	.84	.123	4	29	.92	128	.12	2	4.52	.02	.10	1	8.6
9500N 9800E	4	2974	2	70	.6	19	33	697	5.96	5	5	ND	1	558	.8	2	4	153	1.48	.065	5	27	.87	186	.10	2	3.98	.04	.17	1	.9
9500N 9825E	12	1533	2	55	.5	12	31	831	5.38	6	5	ND	1	318	.5	2	3	138	.91	.116	8	18	.79	202	.11	2	3.98	.02	.17	1	2.1
9500N 9850E	1	142	5	51	.1	11	8	413	3.15	2	5	ND	1	223	.3	2	2	99	.44	.062	2	22	.24	119	.05	2	2.00	.02	.08	1	7.8
9500N 9875E	4	594	2	45	.2	29	36	701	4.08	4	5	ND	1	199	.4	2	2	113	.79	.069	3	44	.97	69	.13	2	4.38	.02	.11	1	4.9
9500N 9900E	4	879	2	49	.1	28	29	500	5.00	4	5	ND	1	216	.2	2	2	144	.66	.054	5	64	1.18	79	.19	2	3.78	.03	.12	1	.9
9500N 9925E	3	544	2	42	.1	23	17	271	4.29	3	5	ND	1	131	.2	2	2	124	.47	.055	4	45	.87	76	.12	2	3.33	.02	.07	1	5.4
9500N 9950E	2	430	2	48	.1	30	25	409	5.46	2	5	ND	1	146	.8	2	3	143	.65	.107	4	52	.91	93	.10	2	4.04	.02	.10	1	1.1
9500N 9975E	1	225	2	61	.1	35	29	1131	4.94	3	5	ND	1	101	.3	2	2	106	1.31	.101	2	42	1.04	67	.07	2	4.39	.02	.12	1	1.2
9500N 10000E	1	219	2	63	.1	60	24	696	5.79	4	5	ND	1	81	.4	2	3	160	.85	.132	2	76	1.50	68	.07	2	4.64	.02	.07	1	.2
9500N 10025E	1	117	2	47	.2	50	22	530	4.18	2	5	ND	1	118	.6	2	2	98	.77	.081	5	58	1.42	111	.16	2	3.92	.03	.17	1	3.9
9500N 10050E	4	176	2	46	.1	46	42	847	4.88	4	5	ND	1	120	.8	2	3	107	.82	.069	4	57	1.20	81	.13	2	3.69	.02	.16	1	3.2
9500N 10075E	19	229	2	41	.2	67	113	623	8.33	5	5	ND	1	127	.8	2	2	223	.71	.049	2	140	1.51	31	.23	2	5.06	.01	.14	1	.2
STANDARD C/AU-S	19	62	39	133	6.9	73	32	1033	3.89	40	19	6	40	52	17.1	15	20	58	.47	.091	39	56	.87	178	.09	33	1.88	.06	.15	13	51.3

Samples beginning 'RE' are duplicate samples.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
9500N 10100E	1	112	3	62	.1	30	15	239	4.15	2	5	ND	1	91	.3	2	2	77	.37	.077	4	48	.89	110	.10	3	4.45	.03	.06	1	3.0
9500N 10125E	7	263	5	51	.2	62	43	878	5.21	7	5	ND	2	318	.9	2	2	98	.65	.096	9	63	1.72	195	.18	5	4.81	.03	.27	2	5.9
9500N 10150E	4	277	6	41	.1	57	45	1129	5.55	4	5	ND	2	363	.2	2	2	104	.98	.086	6	66	1.91	163	.17	3	5.74	.03	.25	1	5.8
9500N 10175E	1	261	4	49	.1	76	49	1055	5.64	12	5	ND	1	195	.2	2	2	102	.73	.079	7	84	1.93	118	.15	4	4.66	.03	.22	1	4.8
9500N 10200E	3	211	6	44	.1	44	37	952	5.74	2	5	ND	1	166	.2	2	2	114	.66	.066	6	59	1.69	100	.23	3	5.04	.03	.13	1	1.0
9500N 10225E	4	104	6	49	.1	16	15	287	3.43	2	5	ND	1	191	.2	2	2	95	.49	.061	3	30	.63	137	.15	3	2.54	.03	.08	1	2.4
9500N 10250E	4	216	5	46	.1	31	28	620	4.36	4	5	ND	1	172	.7	2	2	91	.50	.067	5	39	1.05	132	.13	3	4.09	.03	.11	1	1.2
9500N 10275E	46	480	2	43	.1	26	46	1037	7.45	10	5	ND	1	349	2.8	2	2	146	1.17	.088	10	33	1.37	95	.12	2	4.51	.03	.35	1	5.1
9500N 10300E	13	371	3	51	.1	54	49	918	6.55	8	5	ND	1	281	2.1	2	2	151	.96	.068	6	85	2.04	76	.14	2	5.28	.02	.20	1	3.5
9500N 10325E	9	191	4	63	.1	36	27	929	5.35	2	5	ND	1	240	.2	2	2	125	.59	.086	3	53	1.50	185	.14	2	4.80	.03	.11	1	3.1
RE 9400N 9625E	2	219	10	59	.2	7	7	660	2.97	4	5	ND	1	602	.2	2	2	73	.86	.182	8	11	.55	183	.04	4	4.41	.05	.06	1	3.4
9500N 10350E	9	242	4	46	.1	30	30	546	6.73	3	5	ND	1	257	.6	2	2	173	.86	.089	3	36	1.64	88	.14	2	6.93	.02	.13	1	1.0
9500N 10375E	9	265	4	54	.1	30	30	955	7.09	3	5	ND	1	291	.3	2	2	191	.69	.112	2	41	1.66	144	.15	2	5.39	.03	.14	1	3.2
9500N 10400E	4	134	7	32	.1	20	19	306	5.14	2	5	ND	1	82	.8	2	2	141	1.11	.139	2	18	.59	43	.11	3	9.20	.01	.06	2	1.9
9400N 9600E	1	187	13	41	.1	6	8	689	2.58	4	5	ND	1	389	.4	2	2	68	2.21	.174	4	6	.44	116	.03	3	6.32	.02	.15	1	3.0
9400N 9625E	2	196	9	56	.2	9	6	628	2.79	6	5	ND	1	546	.2	2	2	67	.89	.178	7	10	.50	159	.03	4	4.11	.04	.05	1	4.8
9400N 9650E	3	248	7	52	.1	8	13	1078	4.85	9	5	ND	1	598	.7	2	2	123	1.72	.209	11	7	.63	139	.03	2	4.22	.06	.13	1	5.3
9400N 9675E	1	232	8	55	.1	7	14	1238	4.88	10	5	ND	2	624	.5	2	2	124	1.77	.198	10	9	.60	176	.04	3	4.39	.05	.12	1	17.3
9400N 9700E	1	174	5	63	.3	8	7	320	3.52	4	5	ND	1	501	.2	2	2	66	.75	.164	5	11	.38	150	.04	3	4.08	.04	.05	1	4.6
9400N 9725E	1	126	4	65	.1	13	8	305	5.08	6	5	ND	1	314	.3	2	2	100	.52	.176	7	18	.41	197	.04	3	2.97	.07	.07	1	14.7
9400N 9750E	2	459	9	45	.1	5	12	1239	3.14	7	5	ND	1	447	.8	2	2	73	2.59	.180	4	4	.53	225	.02	3	5.93	.02	.20	1	5.3
9400N 9775E	1	866	5	56	.1	20	24	1432	5.12	9	5	ND	1	536	1.0	2	2	147	1.73	.148	4	50	1.32	277	.09	2	5.17	.04	.12	1	4.4
9400N 9800E	1	649	3	58	.1	22	18	538	6.04	7	5	ND	1	249	.5	2	2	155	.96	.153	6	44	1.03	169	.12	3	3.86	.03	.09	1	18.2
9400N 9825E	1	840	4	51	.1	26	26	333	6.00	6	5	ND	1	148	.6	2	2	158	.52	.095	3	55	.98	135	.12	2	3.91	.02	.06	1	6.9
9400N 9850E	1	1442	4	49	.3	27	50	1257	6.38	9	5	ND	2	319	.7	2	2	128	1.78	.064	6	34	1.21	50	.09	2	4.35	.03	.10	1	8.7
9400N 9875E	2	509	5	53	.2	18	17	689	4.78	4	5	ND	1	224	.2	2	2	120	.60	.150	4	41	.75	124	.05	2	3.07	.02	.07	1	4.3
9400N 9900E	1	177	3	71	.2	33	19	458	6.49	7	5	ND	1	179	.2	2	2	145	.52	.101	3	68	1.14	112	.09	3	2.98	.03	.06	1	11.8
9400N 9925E	4	906	5	46	.1	27	27	489	5.82	8	5	ND	1	186	.2	2	2	164	.64	.079	6	74	1.14	80	.17	3	3.51	.03	.09	1	13.4
9400N 9950E	1	193	4	70	.3	36	21	494	6.94	7	5	ND	1	172	.2	2	2	154	.55	.109	4	73	1.18	109	.09	4	3.11	.03	.05	1	4.4
9400N 9975E	1	200	4	47	.3	21	16	277	5.32	3	5	ND	1	182	.2	2	2	127	.52	.132	4	38	.62	108	.06	4	2.80	.02	.07	1	6.6
9400N 10000E	11	901	2	67	.1	50	209	1133	15.56	12	5	ND	2	132	.4	2	2	163	.56	.115	4	75	1.24	62	.15	2	3.98	.02	.06	1	3.6
9400N 10025E	1	193	2	52	.1	38	25	273	5.84	2	5	ND	1	64	.2	2	2	118	.48	.088	4	67	1.06	68	.14	5	3.28	.03	.06	1	5.7
9400N 10050E	1	289	4	64	.1	43	27	904	5.30	5	5	ND	1	179	.2	2	2	129	.77	.120	5	68	1.36	111	.14	5	4.22	.03	.12	1	6.4
9400N 10075E	1	171	3	72	.1	38	25	409	5.65	5	5	ND	1	127	.2	2	2	127	.59	.074	4	71	1.10	87	.14	4	2.98	.02	.06	1	3.9
9400N 10100E	1	493	4	50	.2	50	71	785	5.70	8	5	ND	1	148	.9	2	2	121	1.33	.077	3	65	2.48	53	.15	2	4.95	.03	.26	1	3.3
9400N 10125E	1	286	2	48	.1	56	52	1313	6.13	8	5	ND	1	232	.7	2	2	135	1.37	.079	4	88	2.20	53	.14	2	4.61	.02	.16	1	4.4
9400N 10150E	2	661	6	55	.1	65	90	1334	6.92	14	5	ND	1	151	2.1	10	2	111	.97	.101	4	58	1.59	60	.11	2	4.65	.03	.21	1	8.5
STANDARD C/AU-S	19	64	37	137	7.2	70	31	1052	4.01	42	19	8	39	53	18.8	16	19	56	.48	.089	40	58	.88	175	.09	35	1.91	.07	.16	11	46.5

Samples beginning 'RE' are duplicate samples.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
9400N 10175E	3	306	2	66	.3	47	51	1205	5.95	6	5	ND	4	117	.7	2	2	117	.77	.087	2	53	1.36	77	.13	3	4.80	.03	.12	1	4.9
9400N 10200E	5	241	2	46	.2	52	47	925	5.04	6	5	ND	2	236	1.0	2	2	105	1.10	.071	4	61	1.52	109	.14	3	4.49	.03	.19	1	11.5
9400N 10225E	10	344	2	30	.2	35	65	735	5.12	4	5	ND	2	202	.3	2	2	73	1.62	.043	2	33	.75	32	.05	3	3.23	.02	.13	1	1.2
9400N 10250E	18	316	4	29	.1	30	46	697	5.02	9	5	ND	1	224	.5	2	2	87	1.43	.056	2	31	.73	39	.05	2	3.75	.02	.14	1	6.8
9400N 10275E	16	328	2	35	.1	39	53	760	5.48	2	5	ND	1	304	.5	2	2	100	1.39	.050	2	32	.88	72	.07	2	3.85	.02	.15	1	17.6
9400N 10325E	31	750	2	49	.5	50	65	775	7.31	2	5	ND	2	327	1.1	2	2	147	1.58	.079	6	38	.82	87	.12	2	5.77	.02	.16	1	11.0
9400N 10350E	16	509	2	37	.2	32	61	608	6.55	2	5	ND	1	266	.8	2	2	104	1.24	.064	3	33	.76	80	.10	2	3.87	.02	.15	1	7.2
9300N 9700E	2	173	4	46	.1	10	12	418	5.44	2	5	ND	1	250	.5	2	2	151	.51	.081	3	16	.41	150	.05	2	2.61	.03	.05	1	7.7
9300N 9725E	1	523	4	69	.1	12	20	606	6.36	4	5	ND	1	426	1.0	2	2	123	1.49	.132	5	10	.73	212	.10	2	4.51	.01	.15	1	6.2
9300N 9750E	1	409	2	49	.2	7	11	312	4.58	2	5	ND	1	404	.8	2	2	116	.82	.261	4	13	.46	267	.06	2	4.24	.02	.12	1	9.4
9300N 9775E	1	693	2	61	.2	15	14	395	4.85	2	5	ND	1	121	.7	2	2	110	.56	.164	3	28	.42	107	.06	2	4.34	.01	.04	1	14.9
9300N 9800E	10	450	4	33	.3	6	16	499	3.49	3	5	ND	1	266	.9	2	2	78	1.84	.110	9	5	.35	58	.01	2	4.40	.04	.07	1	8.2
9300N 9825E	1	163	3	51	.1	10	8	480	3.66	2	5	ND	1	215	.5	2	2	106	.45	.104	4	18	.43	110	.07	2	2.92	.02	.06	1	4.0
9300N 9850E	1	237	2	52	.1	14	10	284	3.73	2	13	ND	1	169	.2	2	2	85	.54	.211	3	24	.44	93	.04	2	3.78	.02	.07	1	7.2
9300N 9875E	1	348	6	57	.2	18	18	471	6.25	4	5	ND	1	125	.9	2	2	144	.37	.080	3	32	1.06	67	.07	2	4.52	.02	.04	1	6.7
9300N 9900E	1	176	2	52	.2	18	12	221	4.10	2	5	ND	1	139	.6	2	2	87	.31	.110	2	29	.65	81	.05	2	3.41	.02	.04	1	3.3
9300N 9925E	1	126	2	48	.5	16	10	174	4.53	2	5	ND	2	94	.6	2	3	110	.28	.071	4	35	.44	72	.09	2	3.13	.02	.04	1	2.7
9300N 9950E	1	91	2	50	.4	37	14	258	3.81	2	5	ND	1	63	.2	2	2	87	.32	.057	2	60	1.15	71	.13	2	2.69	.02	.10	1	2.4
9300N 9975E	1	218	2	55	.6	26	19	867	5.18	2	5	ND	1	157	.7	2	3	130	.54	.103	4	46	.84	109	.05	3	3.57	.02	.06	1	5.9
9300N 10000E	1	301	3	61	.2	32	18	375	6.16	2	5	ND	1	106	.6	2	2	136	.47	.104	2	48	.88	79	.08	2	2.95	.02	.06	1	6.7
9300N 10025E	2	453	2	58	.2	45	53	427	7.06	2	5	ND	1	126	.7	2	3	126	.62	.065	4	66	1.34	62	.11	3	3.62	.02	.09	1	5.7
RE 9300N 9975E	1	230	2	54	.5	27	20	862	5.25	2	5	ND	1	163	.9	2	2	130	.54	.103	4	45	.85	108	.05	2	3.59	.02	.06	1	6.7
9300N 10050E	2	431	2	59	.2	55	61	909	6.42	4	5	ND	1	139	.8	2	2	132	.98	.080	3	73	1.73	55	.11	2	4.66	.02	.10	1	.9
9300N 10075E	8	335	6	39	.2	53	44	606	4.71	2	5	ND	1	239	.7	2	3	92	1.47	.073	3	60	1.06	73	.08	2	3.98	.02	.15	1	2.4
9300N 10100E	4	192	2	29	.2	26	35	496	3.56	2	5	ND	1	163	.5	2	2	67	1.80	.047	2	29	.74	35	.06	2	3.36	.01	.14	1	.5
9300N 10125E	4	204	2	29	.1	24	30	375	3.33	2	5	ND	1	162	.4	2	2	69	1.77	.051	2	27	.57	51	.06	2	3.68	.03	.11	1	.4
9300N 10150E	9	304	2	31	.3	29	50	670	4.90	2	5	ND	1	216	.6	2	3	87	1.57	.043	2	34	.79	43	.06	2	3.26	.02	.15	1	6.8
9300N 10175E	26	422	2	33	.1	35	94	844	6.06	2	5	ND	1	232	.5	2	3	96	1.60	.058	2	36	.71	39	.07	2	3.75	.03	.12	1	.5
9300N 10200E	19	429	2	40	.1	33	63	746	5.70	3	5	ND	1	404	.5	2	3	107	1.75	.093	4	35	.54	83	.10	2	5.07	.03	.11	1	1.4
9300N 10225E	20	651	9	52	.6	42	135	2197	8.94	3	5	ND	2	467	.4	2	5	179	1.42	.088	4	49	.90	66	.15	2	4.48	.03	.20	1	.7
9300N 10250E	21	542	3	41	.1	35	60	735	7.67	2	5	ND	1	444	.8	2	2	134	1.42	.098	3	38	.73	97	.13	2	4.62	.03	.17	1	.7
9300N 10275E	15	509	4	28	.1	28	75	571	6.17	2	5	ND	1	316	.6	2	2	110	1.51	.054	2	31	.56	77	.07	2	3.77	.02	.16	1	1.1
9300N 10300E	19	626	6	39	.3	37	74	646	7.56	2	5	ND	1	308	1.2	2	2	127	1.64	.075	3	35	.78	75	.12	2	4.73	.02	.18	1	2.2
9300N 10325E	26	462	2	46	.2	38	52	554	6.42	3	5	ND	1	264	.6	2	2	115	1.11	.089	4	43	1.03	83	.12	2	4.72	.03	.15	1	.7
9300N 10350E	27	528	16	30	.1	33	64	547	7.07	12	5	ND	1	292	.3	2	9	99	1.14	.073	2	36	.89	65	.11	2	3.96	.03	.16	1	7.8
9300N 10375E	12	261	8	19	.1	18	35	388	3.71	6	5	ND	1	151	.2	2	5	41	.54	.031	2	19	.51	45	.07	2	1.91	.02	.09	1	1.0
9300N 10400E	21	765	2	48	.3	41	70	903	8.31	2	5	ND	1	367	.5	2	3	141	1.11	.072	4	50	1.33	93	.17	2	4.26	.03	.24	1	2.1
STANDARD C/AU-S	19	62	43	133	6.7	72	33	1045	3.96	39	17	7	39	52	18.3	15	18	57	.48	.093	38	57	.88	179	.09	33	1.93	.06	.15	12	47.1

Samples beginning 'RE' are duplicate samples.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
9200N 9800E	1	60	3	39	.3	3	7	313	3.73	2	5	ND	1	262	.6	2	2	122	.41	.039	3	12	.17	149	.04	3	1.35	.02	.09	1	4.2
9200N 9825E	1	781	2	88	.2	27	36	1505	6.14	9	5	ND	1	180	1.6	2	2	146	.72	.111	6	57	1.15	84	.06	3	3.77	.01	.09	1	1.6
9200N 9850E	3	183	2	31	1.0	5	6	186	1.79	2	5	ND	1	159	.8	2	2	51	.37	.267	3	12	.20	90	.02	4	2.20	.02	.09	1	2.8
9200N 9875E	5	152	2	62	.2	17	16	582	4.04	2	5	ND	1	111	1.8	2	2	94	.43	.114	5	33	.53	96	.05	3	2.91	.03	.10	1	.2
9200N 9900E	3	235	2	60	.3	23	24	403	5.24	2	5	ND	2	94	.6	2	2	112	.50	.126	5	40	.92	81	.08	2	4.02	.02	.08	1	2.4
9200N 9925E	7	285	2	70	.2	47	29	1487	4.99	2	5	ND	1	104	.6	2	2	116	.82	.254	9	65	1.05	106	.05	3	4.60	.02	.08	1	3.3
9200N 9950E	3	182	2	61	.2	35	29	864	4.55	2	5	ND	1	90	.9	2	2	97	.56	.119	4	51	.92	131	.10	3	3.81	.02	.10	1	2.9
9200N 9975E	2	169	2	40	.1	33	22	319	4.17	2	5	ND	1	82	1.5	2	2	88	.46	.063	6	48	.95	114	.12	3	3.61	.03	.10	1	1.1
9200N 10000E	3	240	2	45	.1	43	42	589	4.72	2	5	ND	1	120	1.6	2	2	104	.57	.093	3	56	1.14	153	.12	2	4.43	.02	.13	3	.6
9200N 10025E	2	193	3	58	.1	41	29	761	4.62	2	5	ND	1	116	.9	2	2	102	.56	.082	3	48	1.07	167	.14	3	4.18	.02	.09	1	.8
9200N 10050E	3	157	2	56	.2	78	21	680	3.94	2	5	ND	1	115	1.0	2	2	83	.50	.083	3	98	1.07	132	.10	2	3.72	.02	.10	1	2.2
9200N 10075E	7	229	2	49	.2	88	31	688	4.65	5	5	ND	1	145	.9	2	2	107	.55	.084	4	93	1.52	133	.17	3	3.81	.02	.28	2	1.6
9200N 10100E	9	412	2	46	.2	50	47	593	5.71	3	5	ND	2	178	1.2	2	2	106	.79	.097	7	60	1.14	99	.12	3	3.71	.02	.14	1	1.4
9200N 10125E	10	512	2	44	.2	51	100	1132	6.36	6	5	ND	1	171	1.4	2	2	89	.84	.106	4	51	.76	66	.08	2	3.83	.02	.08	1	1.1
9200N 10150E	8	715	2	53	.2	54	69	1202	7.00	11	5	ND	1	238	1.5	2	2	107	1.45	.073	5	73	1.27	70	.10	2	3.91	.03	.13	1	1.3
9200N 10175E	8	598	2	47	.3	55	86	1129	7.31	6	5	ND	1	208	1.6	2	2	101	1.62	.065	4	59	1.15	62	.10	2	3.38	.02	.15	1	2.4
9200N 10200E	11	610	2	33	.3	31	79	1189	6.14	5	5	ND	1	131	2.9	2	2	76	1.40	.075	2	36	.94	25	.06	2	2.93	.02	.11	1	.5
9200N 10225E	2	382	2	41	.2	42	71	1770	6.01	31	5	ND	1	169	2.6	2	2	77	6.03	.048	4	53	1.06	46	.06	2	2.50	.02	.10	1	1.0
9200N 10250E	27	483	2	27	.3	34	99	767	6.08	4	5	ND	1	201	1.6	2	2	86	1.54	.097	3	37	.86	33	.08	2	3.74	.02	.12	1	2.2
9200N 10275E	34	1102	2	36	.4	39	68	847	11.64	7	5	ND	1	386	3.6	2	2	182	.80	.149	5	64	1.10	72	.21	2	4.72	.03	.24	1	9.7
9200N 10300E	34	611	2	29	.3	22	29	316	8.29	8	5	ND	1	215	1.6	2	2	74	1.59	.138	2	23	.48	56	.12	2	4.21	.02	.11	1	7.9
9200N 10325E	30	840	11	41	.4	31	59	595	8.52	14	5	ND	1	288	2.2	2	2	109	1.27	.122	5	43	.85	77	.14	2	4.57	.02	.14	2	.2
9200N 10350E	27	671	2	54	.2	46	169	1519	8.66	10	5	ND	1	646	2.6	2	2	143	1.27	.089	5	54	1.14	307	.16	2	4.53	.02	.18	1	.2
9200N 10375E	26	912	5	37	1.3	31	36	415	9.79	4	5	ND	2	154	1.7	2	2	120	.94	.150	4	25	.48	68	.11	2	6.52	.01	.08	1	2.0
9200N 10400E	48	608	2	37	.4	36	40	457	8.15	3	5	ND	1	213	1.8	2	2	132	.93	.108	4	44	.87	85	.16	2	5.28	.02	.15	6	4.5
9100N 9800E	2	194	3	54	.8	18	20	538	3.99	9	5	ND	1	63	1.2	2	2	100	1.18	.161	3	57	.74	36	.08	4	5.77	.02	.08	2	.5
9100N 9825E	1	182	3	49	.1	17	21	405	4.39	2	5	ND	1	79	1.4	2	2	108	.94	.073	3	38	1.39	113	.15	2	2.97	.03	.25	1	.3
9100N 9850E	2	92	7	53	.7	17	11	502	3.24	2	5	ND	1	76	.7	2	2	101	.53	.062	6	42	.58	95	.10	4	2.32	.02	.06	1	1.4
9100N 9875E	1	180	4	59	.5	34	18	334	4.30	3	5	ND	1	65	1.2	2	2	96	.40	.079	5	62	.99	65	.11	4	3.64	.02	.07	1	1.2
9100N 9900E	1	100	2	53	.3	25	15	509	4.82	2	5	ND	1	57	1.0	2	2	123	.40	.091	4	48	.89	77	.15	3	2.54	.02	.09	1	.3
9100N 9925E	1	160	4	45	.3	32	17	293	3.52	2	5	ND	1	98	.6	2	2	93	.42	.053	4	62	.98	94	.11	3	3.01	.02	.05	1	.6
9100N 9950E	1	271	4	52	.2	42	19	371	4.35	4	5	ND	1	87	1.1	2	2	109	.54	.050	3	65	1.09	101	.16	3	2.85	.02	.07	1	.8
9100N 9975E	1	145	4	40	.3	24	11	261	3.65	2	5	ND	1	71	.9	2	2	113	.50	.054	4	47	.65	65	.20	3	2.18	.02	.07	1	.8
RE 9100N 9875E	2	173	5	57	.5	33	17	318	4.19	3	5	ND	1	62	1.0	2	2	95	.39	.078	5	63	.98	60	.11	4	3.46	.02	.06	1	2.7
9100N 10000E	2	80	4	47	.2	19	13	508	3.21	2	5	ND	1	113	.7	2	2	90	.51	.081	3	35	.59	125	.11	3	1.85	.02	.13	1	.3
9100N 10025E	3	96	3	42	.3	21	12	314	2.80	2	5	ND	1	109	.8	2	2	85	.53	.100	4	28	.45	132	.07	4	2.12	.02	.09	1	2.1
9100N 10050E	2	106	3	70	.2	23	16	2494	2.72	2	5	ND	1	123	1.2	2	2	67	.66	.139	3	28	.62	230	.03	4	2.13	.02	.10	1	.7
STANDARD C/AU-S	19	58	41	131	7.6	68	32	1105	3.92	41	20	6	37	51	19.0	14	20	55	.49	.089	37	60	.87	180	.09	32	1.85	.06	.14	11	45.8

Samples beginning 'RE' are duplicate samples.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
9100N 10075E	1	176	3	46	.1	33	14	250	3.95	3	5	ND	1	81	.2	2	3	85	.45	.080	6	44	.76	122	.11	2	3.57	.02	.06	1	4.6
9100N 10100E	2	230	7	44	.2	34	22	252	3.08	2	5	ND	1	132	.2	2	2	73	.98	.091	6	35	.70	124	.10	2	3.93	.02	.07	1	3.9
9100N 10125E	3	115	3	55	.3	20	15	851	3.34	2	5	ND	1	113	.2	2	3	109	.50	.069	4	30	.48	126	.10	3	1.87	.03	.07	1	3.7
9100N 10150E	3	379	5	58	.2	36	25	399	4.10	6	5	ND	1	122	.2	2	4	89	.70	.088	8	45	.77	108	.10	2	3.35	.03	.08	1	4.3
9100N 10175E	2	417	3	55	.1	34	32	844	4.01	2	5	ND	1	199	.2	2	3	87	1.34	.097	4	38	.84	116	.10	2	4.25	.03	.17	1	1.8
9100N 10200E	2	374	4	45	.2	37	29	389	4.18	3	5	ND	1	203	.2	2	2	77	1.02	.078	5	38	.86	104	.12	2	4.17	.03	.11	1	4.3
RE 9100N 10125E	3	127	2	57	.2	22	15	875	3.51	3	5	ND	1	116	.2	2	2	112	.54	.072	4	30	.50	134	.11	2	1.96	.03	.08	1	2.6
9100N 10225E	4	231	9	58	.2	48	21	617	4.71	6	5	ND	1	68	.2	2	2	88	.45	.081	10	67	1.07	96	.14	2	3.30	.02	.07	1	4.7
9100N 10250E	5	244	6	60	.1	42	36	537	4.31	7	5	ND	1	209	.2	2	2	81	.61	.073	7	51	1.13	123	.12	2	3.50	.03	.10	1	3.0
9100N 10275E	2	193	7	56	.2	39	21	501	3.97	5	5	ND	1	94	.2	2	2	77	.53	.097	8	50	1.03	112	.09	2	3.50	.03	.07	1	6.1
9100N 10300E	1	991	7	58	.3	48	57	1013	6.62	15	5	ND	1	137	.2	2	6	144	.71	.091	7	75	1.30	95	.16	3	3.47	.03	.12	1	8.6
9100N 10325E	2	213	5	65	.3	25	19	616	4.93	4	5	ND	1	106	.2	2	2	104	.44	.096	4	46	.76	93	.09	2	2.88	.03	.07	1	3.0
9100N 10350E	4	234	7	59	.3	25	18	344	5.56	3	5	ND	1	125	.2	2	2	119	.46	.084	4	43	.75	98	.09	2	2.84	.02	.07	1	2.6
9100N 10375E	4	186	7	49	.3	22	14	321	5.23	4	5	ND	1	95	.2	2	2	106	.37	.078	4	46	.72	92	.08	2	3.29	.02	.07	1	1.4
9100N 10400E	24	527	4	50	1.3	20	16	445	7.37	2	5	ND	1	61	.2	2	2	124	.33	.116	3	58	.57	56	.09	2	3.90	.02	.05	1	2.0
STANDARD C/AU-S	20	63	42	139	7.3	74	32	1090	3.94	42	20	6	39	53	18.9	14	19	60	.50	.094	40	61	.92	185	.10	35	1.85	.07	.17	13	52.7

SAMPLE TYPE: SOIL. Samples beginning 'RE' are duplicate samples.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
9750N 10250E-R	70	570	5	19	.5	29	38	325	3.40	5	5	ND	1	79	.2	2	5	113	1.10	.047	4	50	1.23	51	.30	2	1.61	.13	.36	1	15
9750N 10370E-R	3	363	3	7	.4	26	66	168	4.64	6	5	ND	1	37	.2	2	3	54	.99	.066	2	21	.48	44	.24	2	.85	.08	.15	7	31
9700N 10275E-R	7	744	5	31	1.0	30	35	486	7.99	2	5	ND	1	58	.2	3	4	157	1.02	.038	2	73	2.62	52	.33	2	3.07	.14	1.12	8	13
RE 9500N 10400E-R	3	56	3	8	.2	17	10	153	5.41	2	5	ND	1	44	.2	2	2	86	.97	.043	3	12	.65	27	.25	2	1.16	.05	.09	1	7
9700N 10375E-R	5	102	2	12	.2	13	11	209	3.24	2	5	ND	1	259	.2	2	2	113	1.76	.058	4	42	.49	52	.29	5	1.98	.22	.11	1	5
9600N 10200E-R	1	174	2	18	.2	18	15	433	3.00	2	5	ND	1	110	.2	2	2	87	2.38	.076	3	27	.67	70	.28	3	2.38	.26	.12	1	8
9500N 10275E-R	13	145	3	20	.2	7	7	343	4.84	11	5	ND	1	270	.2	2	3	140	.64	.050	5	28	1.35	144	.34	2	2.42	.09	.77	1	7
9500N 10300E-R	2	165	2	23	.3	17	18	360	4.52	3	5	ND	1	217	.2	2	3	161	1.40	.051	5	27	.86	87	.36	2	2.00	.25	.26	1	7
9500N 10400E-R	2	50	2	8	.2	17	9	148	5.28	3	5	ND	1	44	.2	2	2	85	.96	.042	3	12	.63	29	.24	2	1.12	.05	.09	1	5
9460N 10400E-R	4	182	2	22	.3	24	15	375	3.17	2	5	ND	1	80	.2	2	4	97	1.76	.059	3	48	1.13	39	.30	2	1.86	.17	.21	1	5
9400N 10200E-R	1	80	2	18	.2	24	14	289	2.25	2	5	ND	1	33	.2	2	2	71	1.19	.040	3	40	1.11	160	.28	3	1.41	.16	.55	1	3
9325N 10075E-R	1	288	4	22	.1	23	14	815	2.74	2	6	ND	1	44	.2	2	2	99	4.56	.032	6	36	.79	68	.12	2	.68	.05	.11	1	4
9100N 10285E-R	1	447	4	18	.4	24	13	386	4.17	5	5	ND	1	119	.2	2	5	99	2.45	.072	4	54	1.09	30	.22	4	2.10	.25	.18	1	6
STANDARD C/AU-R	19	56	42	133	7.0	70	33	1044	3.99	41	19	7	37	51	18.4	16	19	55	.48	.091	38	58	.88	178	.09	31	1.89	.06	.15	13	462

Samples beginning 'RE' are duplicate samples.

APPENDIX II

Detail Rock Sample Descriptions

TRAVERSE NUMBER ____________

N.T.S. 93N/14

PROJECT ATO

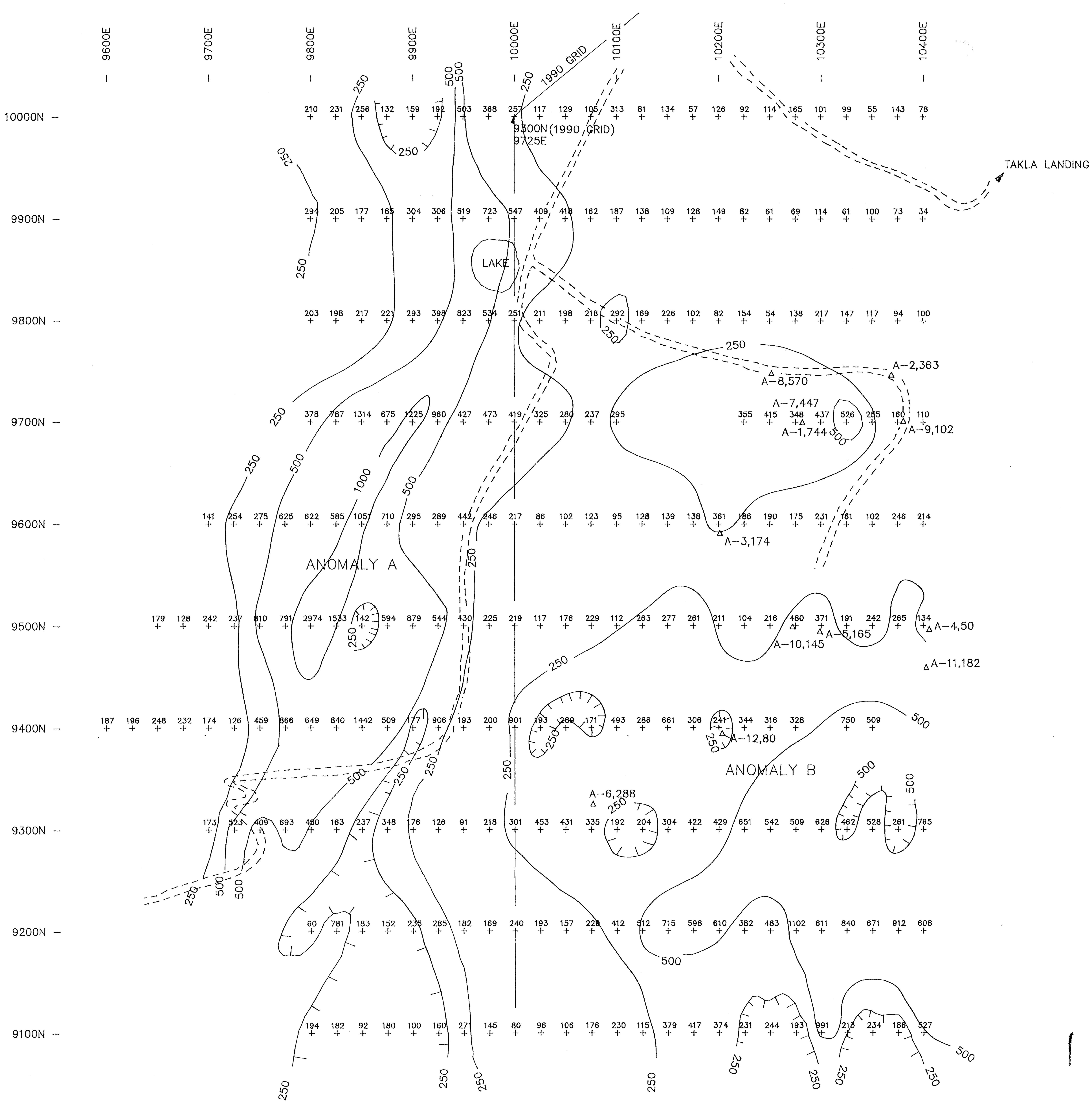
AREA GRID B

GEOLOGIST(S) R. Pesalj / D. Gorc

DATE September 30, 1991

SAMPLE NUMBER	SAMPLE TYPE		SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION	RESULTS (ppm / % / oz. per ton)				
	Outcrop Talus	Grab, Chip, Channel			Rock type, lithology, character of soil, stream, silt, etc. Formation Mineralization, etc.	Cu ppm	Mo ppm	Fe %	Ag ppm	Au ppb
ATO-1	outcrop	grab		9700N/10275E	Andesite, dark green, with veinlets of pyrite. Sample from a small gossan on the north facing slope.	744	7	7.99	1.0	13
ATO-2	talus	grab		9750N/10370E	Porphyritic andesite, dark green, with plagioclase and augite phenocrysts set in chloritic, fine grained groundmass. Pyrite concentrations in form of irregular patches and minor disseminations approximately 5%. Sample of talus on the north facing slope.	363	3	4.64	0.4	31
ATO-3	talus	grab		9600N/10200E	Porphyritic andesite, dark green, as ATO-2, disseminated pyrite <1%. Epidote in form of blebs and irregular patches throughout. Sample of talus on the east facing side of the hill.	174	1	3.00	0.2	8
ATO-4	outcrop	grab		9500N/10400E	Andesite porphyry cut by epidote veinlets up to 2 cm wide. Sample from highly gossanized o/c.	50	2	5.28	0.2	5
ATO-5	talus	grab		9500N/10300E	Andesite, green, fine grained massive flow, disseminated and minor fracture pyrite 3%. Sample from the talus at the base of the hill.	165	2	4.52	0.3	7
ATO-6	talus	grab		9325N/10075E	Andesite, light, green, fine grained massive flow, silicified, epidote alteration throughout, disseminated pyrite 1%. Sample from the base of the talus.	288	1	2.74	0.1	4

SAMPLE NUMBER	SAMPLE TYPE		SAMPLE LENGTH, WIDTH, AREA	LATITUDE, LONGITUDE and/or U.T.M.	SAMPLE DESCRIPTION	RESULTS (ppm / % / oz. per ton)				
	Outcrop Talus	Grab, Chip, Channel			Rock type, lithology, character of soil, stream, silt, etc. Formation Mineralization, etc.	Cu ppm	Mo ppm	Fe %	Ag ppm	Au ppb
ATO-7	talus	grab		9700N/10275E	Andesite, porphyritic, dark green with thin 1 mm veinlets of pyrite.	447	1	4.17	0.4	6
ATO-8	talus	grab		9750N/10250E	Dark green, fine to medium grained andesite; thin py veinlets to 3 mm thick; occasional 1-2 cm long sections where pyrite is 6 mm thick; minor epidote and quartz along fractures.	570	70	3.40	0.5	15
ATO-9	talus	grab		9700N/10375E	Porphyritic andesite; augite phenocrysts to 0.25 cm; smaller white feldspar phenocrysts; thin py veins along fractures; 0.5% diss py; no alteration	102	5	3.24	0.2	5
ATO-10	talus	grab		9500N/10275E	Very iron stained fracture andesite; quite weathered; thin calcite veinlets; pyrite weathered out??	145	13	4.84	0.2	7
ATO-11	talus	grab		9460N/10400E	Dark green porphyritic andesite; augite phenocrysts to 0.2 cm; lesser plagioclase phenocrysts; fracture surfaces very iron stained; abundant thin 1 mm py veinlets; 1-2% disseminated pyrite	182	4	3.17	0.3	5
ATO-12	talus	grab		9400N/10200E	Grab sample of two-0.5 cm wide quartz-chlorite veins with 0.5% disseminated pyrite in porphyritic andesite; slightly sheared appearance; thin epidote-calcite veinlets.	80	1	2.25	0.2	3



GEOLOGICAL BRANCH
ASSESSMENT REPORT

21,912

LEGEND

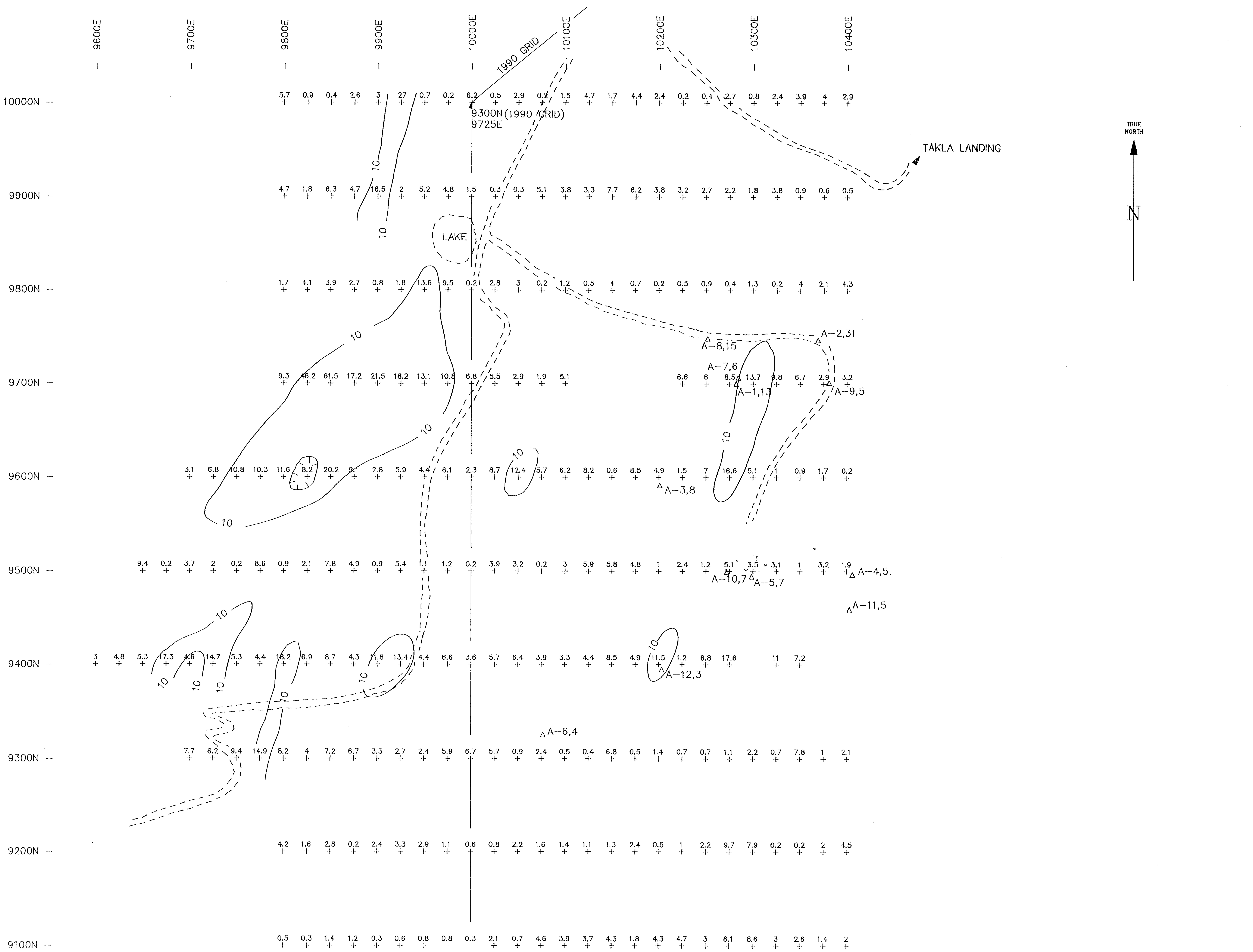
250 — 250 PPM CU CONTOUR

△A-8,570 ROCK SAMPLE LOCATION–SAMPLE NUMBER–CU(PPM)

DRILL ROAD

NOTE–DRILL ROAD LOCATION ONLY APPROXIMATE

CATHEDRAL GOLD CORPORATION	
ATO	
FIGURE 3	N.T.S. 93N/14
GRID B	
SOIL GEOCHEMISTRY–CU	
Metres 50 0 50 100 150 200 Metres	
SCALE: 1:2500	GEOLOGIST: R. PESALJ
DATE: NOVEMBER 1991	DRAWN BY: D. GORC



LEGEND

10 — 10 PPB AU CONTOUR

△A–1,13 ROCK SAMPLE LOCATION–SAMPLE NUMBER, AU PPB

DRILL ROAD

NOTE--DRILL ROAD LOCATION ONLY APPROXIMATE

GEOLOGICAL BRANCH ASSESSMENT REPORT

21,912

CATHEDRAL GOLD CORPORATION

ATO

FIGURE 4 N.T.S. 93N/14

GRID B

SOIL GEOCHEMISTRY–AU

Metres 50 0 50 100 150 200 Metres

SCALE:	1:2500	GEOLOGIST:	R. PESALJ
DATE:	NOVEMBER 1991	DRAWN BY:	D. GORC