

**GEOLOGICAL AND GEOCHEMICAL REPORT**

on the

**HY 1 to 76 Mineral Claims  
YB87384 to YB87459**

**Watson Lake Mining Division  
Yukon Territory**

**NTS 105H/15  
61° 56' North Latitude  
128° 40' West Longitude**

**Registered Owner  
PHELPS DODGE CORPORATION OF CANADA, LIMITED  
Work Performed between July 18 and September 1, 1997**

by

**P.E. Fox., Ph.D., P.Eng.  
and Robert S. Cameron, B.Sc.**

**FOX GEOLOGICAL SERVICES INC.  
#1409 - 409 Granville Street  
Vancouver, BC V6C 1T8**

**December 16, 1997**

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 \$ 9600.00.

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

## SUMMARY

This report describes an exploration program conducted on the Hy mineral claims between July 18 and September 1, 1997. The Hy property consists of seventy-six mineral claims located approximately 185 kilometres north of Watson Lake between the Hyland and Little Hyland Rivers. The claims were staked by Phelps Dodge Corporation of Canada, Limited in the fall of 1996 after reconnaissance sampling returned anomalous gold concentrations in silt and rock. There are no roads in the area and the property must be accessed by helicopter.

The Hy prospect is situated within the Selwyn Fold Belt in the eastern Yukon Territory. The claims are underlain by upper Proterozoic Hyland Group sedimentary rocks consisting of phyllite, quartzite and shale with lesser pebble conglomerate, limestone and grit. Mineralization consists of disseminations and clots of arsenopyrite, pyrite, galena and traces of chalcopyrite in quartz veins and breccias.

The 1997 exploration program consisted of prospecting and installation of a 12.8 line-kilometre grid with collection of 273 soil samples and 50 rock samples. Two areas containing elevated to anomalous gold in soils were outlined within the grid area. The "West Anomaly" is a narrow feature extending for approximately 1.25 kilometres in length that contains gold concentrations in soil up to 484 ppb and rocks with up to 8740 ppb gold and 20,659 ppm arsenic. The "East Anomaly", with gold concentrations in soil up to 1259 ppb, measures 500 metres in length and 50 to 200 metres in width. Rock samples from this area returned up to 37,600 ppb gold and 99,999 ppm arsenic. Both soil anomalies appear to continue off the grid toward the north.

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## **INTRODUCTION**

This report describes an exploration program conducted on the Hy mineral claims between July 18 and September 1, 1997. Exploration consisted of a soil sampling, prospecting and rock sampling performed by a 6 man crew for a total of 50 mandays. The work done and results obtained are described herein.

## **LOCATION, ACCESS and PHYSIOGRAPHY**

The Hy claims are located approximately 185 kilometres north of Watson Lake in the Logan Range of the Selwyn Mountains, between the Hyland and Little Hyland Rivers. The claim block lies some 6 kilometres due north of the confluence of these two rivers. The property is shown on NTS map sheet 105H/15, roughly centered at 61° 56' north latitude and 128° 40' west longitude. There are no roads in the area and the property must be accessed by helicopter from Watson Lake, approximately 1 hour away. Property location is indicated in Figure 1.

The claim block encompass peaks and steep westerly and easterly facing slopes of two unnamed mountains, which are separated by the broad, U-shaped valley that cuts the claims in a north-south direction. Topography ranges from 1185 metres along the valley in the southeastern corner of the property to 2048 metres on the easternmost mountain peak. Approximately 70% of the property is situated above the timber line.

## **CLAIM INFORMATION**

The Hy property consists of seventy-six mineral claims located in the Watson Lake Mining District and shown on claim map 105H-15. The claims were staked for Phelps Dodge Corporation of Canada, Limited on September 13, 1997 and recorded in Watson Lake on September 17, 1997. For the purposes of recording assessment work, 48 of the claims were divided into three claim groups. The remaining 28 claims were allowed to lapse. Pertinent claim data is tabulated below and claims are shown in Figure 2. Expiry dates shown on Table 1 are contingent upon the work described herein being accepted for assessment.

Table I: CLAIM DATA							
Claim	Grant	Group	Expiry	Claim	Grant	Group	Expiry
HY 1	YB87384	A	Sept. 17,	HY 39	YB87422		Sept. 17, 1997
HY 2	YB87385	A	Sept. 17,	HY 40	YB87423		Sept. 17, 1997
HY 3	YB87386	A	Sept. 17,	HY 41	YB87424		Sept. 17, 1997
HY 4	YB87387	A	Sept. 17,	HY 42	YB87425		Sept. 17, 1997
HY 5	YB87388	A	Sept. 17,	HY 43	YB87426		Sept. 17, 1997
HY 6	YB87389	A	Sept. 17,	HY 44	YB87427		Sept. 17, 1997
HY 7	YB87390	A	Sept. 17,	HY 45	YB87428		Sept. 17, 1997
HY 8	YB87391	A	Sept. 17,	HY 46	YB87429		Sept. 17, 1997
HY 9	YB87392		Sept. 17,	HY 47	YB87430		Sept. 17, 1997
HY 10	YB87393		Sept. 17,	HY 48	YB87431		Sept. 17, 1997
HY 11	YB87394		Sept. 17,	HY 49	YB87432	B	Sept. 17, 1999
HY 12	YB87395		Sept. 17,	HY 50	YB87433	B	Sept. 17, 1999
HY 13	YB87396		Sept. 17,	HY 51	YB87434	B	Sept. 17, 1999
HY 14	YB87397		Sept. 17,	HY 52	YB87435	B	Sept. 17, 1999
HY 15	YB87398		Sept. 17,	HY 53	YB87436	B	Sept. 17, 1999
HY 16	YB87399		Sept. 17,	HY 54	YB87437	B	Sept. 17, 1999
HY 17	YB87400		Sept. 17,	HY 55	YB87438	B	Sept. 17, 1999
HY 18	YB87401		Sept. 17,	HY 56	YB87439	B	Sept. 17, 1999
HY 19	YB87402		Sept. 17,	HY 57	YB87440	C	Sept. 17, 1999
HY 20	YB87403		Sept. 17,	HY 58	YB87441	C	Sept. 17, 1999
HY 21	YB87404		Sept. 17,	HY 59	YB87442	C	Sept. 17, 1999
HY 22	YB87405		Sept. 17,	HY 60	YB87443	C	Sept. 17, 1999
HY 23	YB87406		Sept. 17,	HY 61	YB87444	C	Sept. 17, 1999
HY 24	YB87407		Sept. 17,	HY 62	YB87445	C	Sept. 17, 1999
HY 25	YB87408	A	Sept. 17,	HY 63	YB87446	B	Sept. 17, 1999
HY 26	YB87409	A	Sept. 17,	HY 64	YB87447	B	Sept. 17, 1999
HY 27	YB87410	A	Sept. 17,	HY 65	YB87448	B	Sept. 17, 1999
HY 28	YB87411	A	Sept. 17,	HY 66	YB87449	B	Sept. 17, 1999
HY 29	YB87412	A	Sept. 17,	HY 67	YB87450	B	Sept. 17, 1999
HY 30	YB87413	A	Sept. 17,	HY 68	YB87451	B	Sept. 17, 1999
HY 31	YB87414	A	Sept. 17,	HY 69	YB87452	B	Sept. 17, 1999
HY 32	YB87415	A	Sept. 17,	HY 70	YB87453	B	Sept. 17, 1999
HY 33	YB87416	C	Sept. 17,	HY 71	YB87454	C	Sept. 17, 1999
HY 34	YB87417	C	Sept. 17,	HY 72	YB87455	C	Sept. 17, 1999
HY 35	YB87418	C	Sept. 17,	HY 73	YB87456	C	Sept. 17, 1999
HY 36	YB87419	C	Sept. 17,	HY 74	YB87457	C	Sept. 17, 1999
HY 37	YB87420		Sept. 17,	HY 75	YB87458	C	Sept. 17, 1999
HY 38	YB87421	C	Sept. 17,	HY 76	YB87459		Sept. 17, 1997

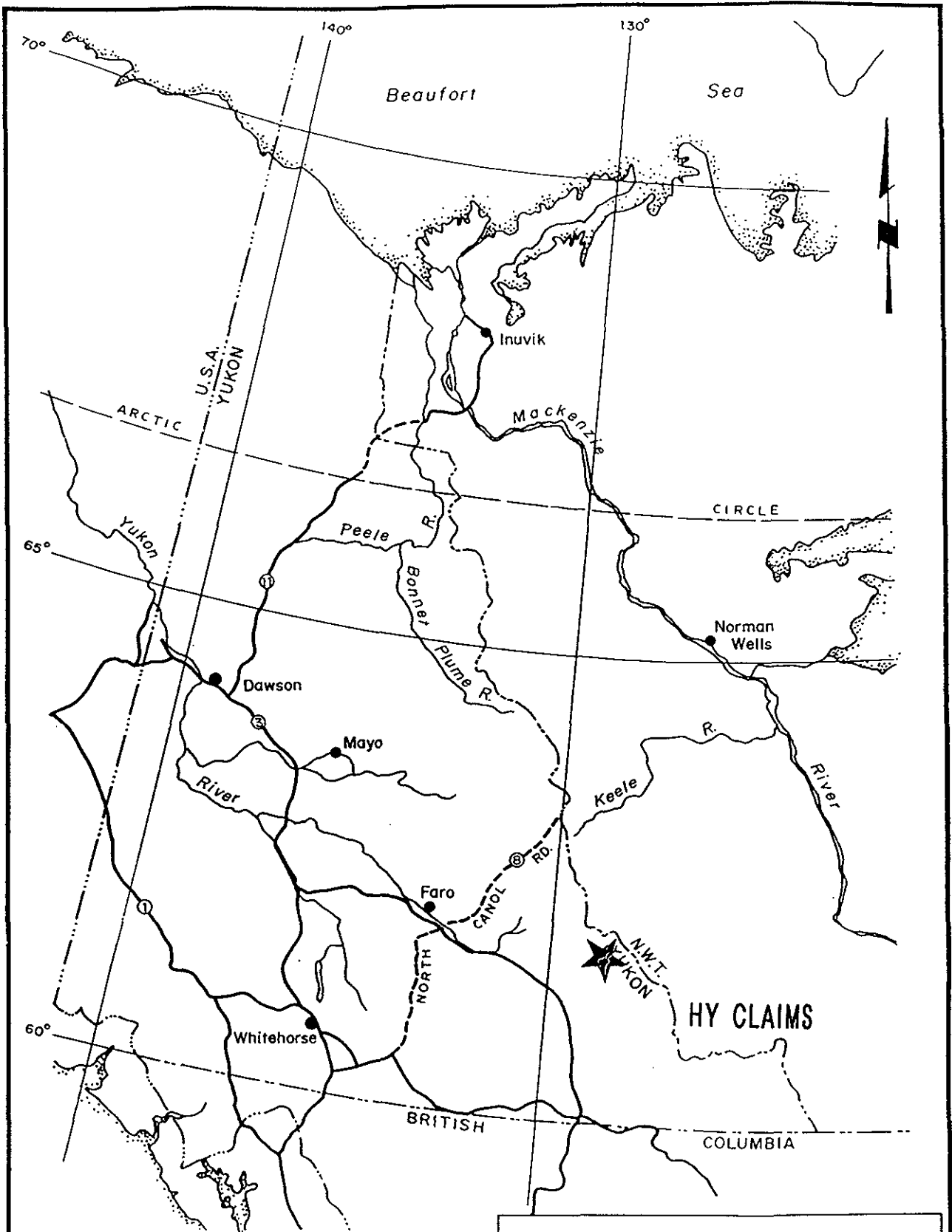


FIGURE 1  
LOCATION MAP

SCALE			DWG N <sup>o</sup>
1:5,840,000			

516 000 mE

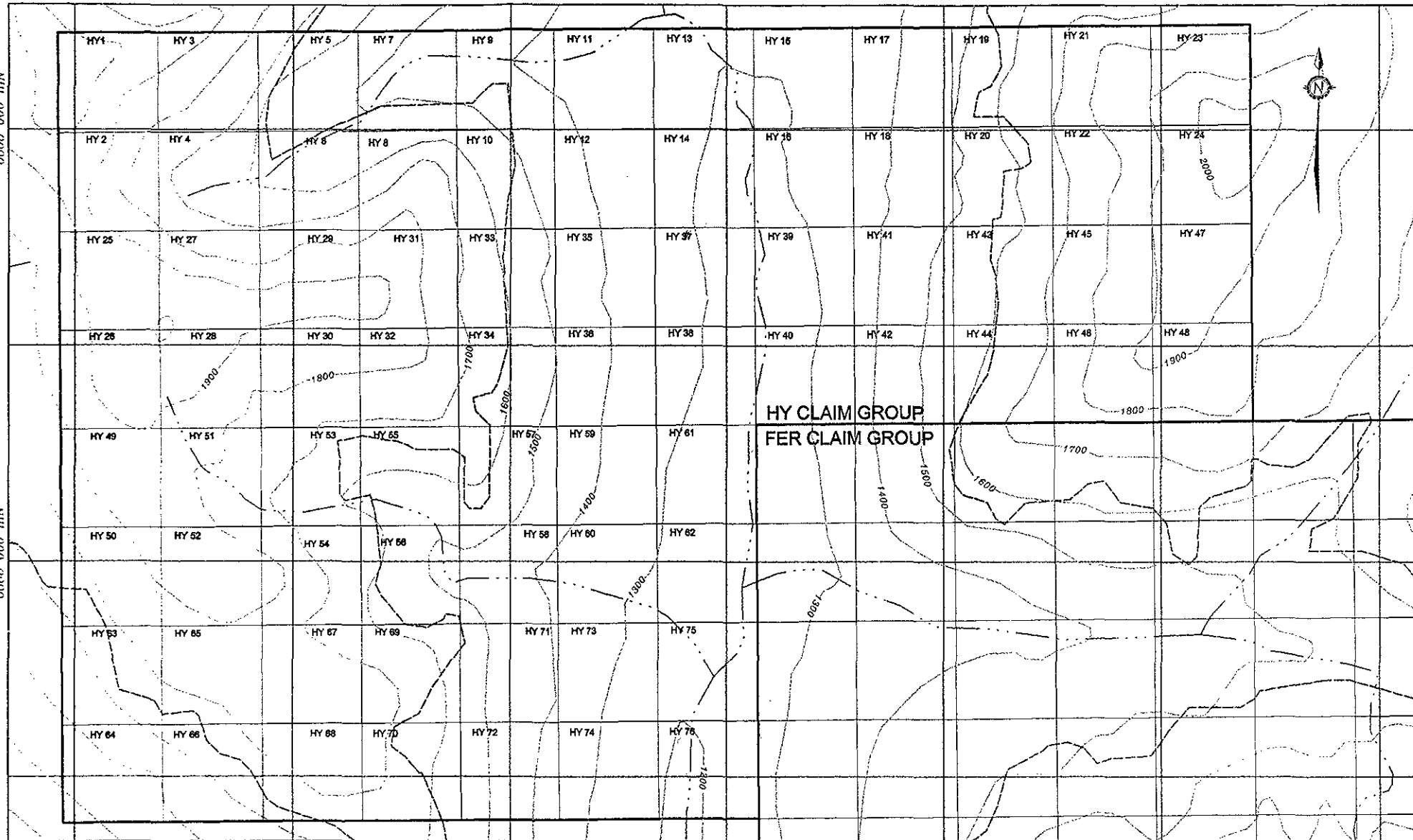
518 000 mE

520 000 mE

522 000 mE

6168 000 mN

6166 000 mN



 Tree line  
 Creek

NOTE:

\* CONTOUR INTERVAL 100 METRES.

\* ELEVATION IN METRES.



SCALE 1:25000

PHELPS DODGE CORP. OF CANADA LIMITED

PROJECT NO.: 209 (HY PROPERTY)

### CLAIM LOCATION MAP

YUKON TERRITORY

SCALE	DATE	BY	NTS NO.	FIGURE
1:25000	JAN/98			2

FOX GEOLOGICAL SERVICES INC.

## HISTORY

The author is unaware of any previous work in the immediate area of the Hy claims. The claims were staked by Phelps Dodge Corporation of Canada, Limited in the fall of 1996 after reconnaissance sampling returned anomalous gold concentrations in silt and rock. The Fer claims located east of the Hy claims are under active exploration by Westmin Resources Ltd.

## REGIONAL GEOLOGY

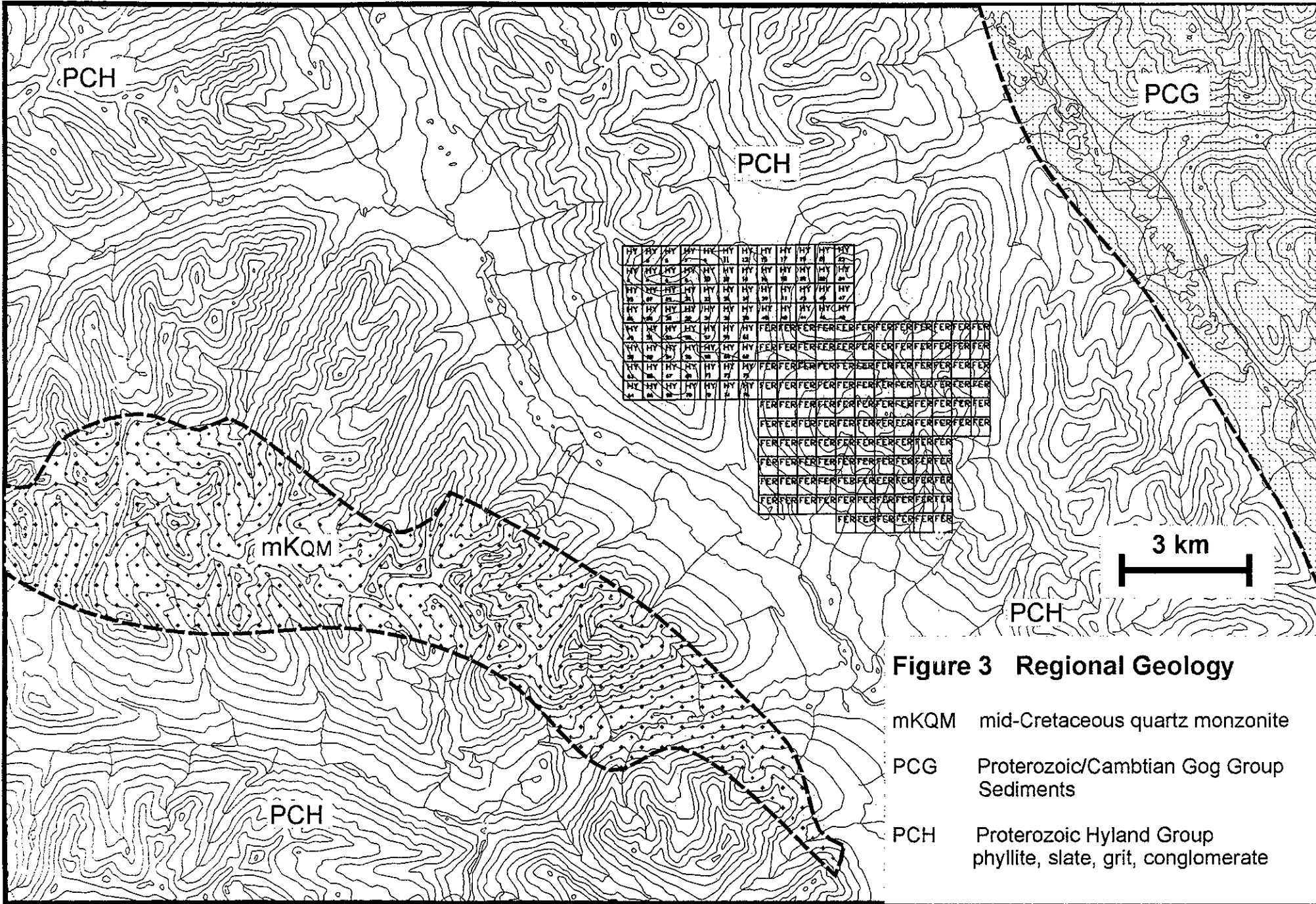
The Selwyn Mountains are situated within the Selwyn Fold Belt in the eastern Yukon Territory. The Selwyn fold belt, described by Gabrielse et al (1977), is underlain by a diversity of clastic, carbonate, volcanic, ultrabasic and granitic rocks of upper Proterozoic to Tertiary age. On the west boundary of the fold belt, these rocks are juxtaposed against rocks of markedly different facies at the Tintina Fault, which displays as much as 450 kilometres of dextral offset. Within the belt, Hadrynian and lower Paleozoic calcareous and argillaceous strata host lead-zinc deposits and tungsten is associated with some mid-Cretaceous plutons.

The Hy prospect is situated within a persistent northwesterly trending belt of upper Proterozoic offshore sediments known as the Hyland Group (Figure 3) which accumulated along a passive continental margin. These sedimentary rocks consist of gritty quartzite, conglomerate, slate and phyllite. This belt has been intruded along its length by mid-Cretaceous sub-alkaline and calc-alkaline intrusions which includes the Mount Billings Batholith that lies some 15 kilometres west of the Hy claims.

## PROPERTY GEOLOGY

The property has not been geologically mapped. Bedrock observed on the Hy claims consisted entirely of sedimentary rocks. Phyllite, quartzite and shale predominate with lesser pebble and quartz-pebble conglomerate and minor limestone and grit. Phyllites are commonly limonitic and may contain up to 2 percent pyrite. Disseminated pyrrhotite was observed in pebble conglomerate and quartzite.

Quartz veins, stockworks and breccias were observed in all lithologies. White to grey-blue quartz displays textures ranging from massive to drusy and vuggy and often contain wall rock fragments. Veins may contain muscovite and are mineralized with traces of pyrite and galena and up to 10 percent arsenopyrite as disseminations and clots. Greater amounts



**Figure 3 Regional Geology**

- mKQM mid-Cretaceous quartz monzonite
- PCG Proterozoic/Cambrian Gog Group Sediments
- PCH Proterozoic Hyland Group phyllite, slate, grit, conglomerate

of pyrite and some chalcopyrite were noted in float samples.

## 1996 WORK PROGRAM

The 1997 exploration program on the Hy mineral claims was conducted between July 18 and September 1. Work consisted of establishment of a small grid, soil sampling, prospecting and rock sampling performed by a 6 man crew for a total of 50 mandays. During installation of the grid and soil sampling, two men camped on the property for a period of four days. For the remainder of the program, the crew worked out of Watson Lake, utilizing a helicopter for access. All work was performed under the direct supervision of Rob Cameron.

Grid construction began with a northerly trending baseline instituted along the Hy 49 to 62 claim line. Thirteen east-west oriented lines, 95+00N to 107+00N, were turned off the baseline, spaced at 100-metre intervals over the HY 30, 32, 34 and Hy 53 to 58 claims, for a total of 12.8 line-kilometres. A total of 273 soil samples were collected at 50-metre intervals along the lines and along a contour soil sample line. Samples were obtained from the "B" horizon, where possible, stored in paper sample bags, tagged with a unique number and submitted to Acme Analytical Laboratories Ltd. in Vancouver, B.C. for Ultratrace ICP analysis and for gold by geochemical atomic absorption analysis. Field notes detail location, topography, type and colour of material. Analytical procedures and certificates are compiled in Appendix II, grid and soil sample locations are shown in Figure 4a and results for gold and arsenic in Figures 5a and 5b.

A total of 50 rock samples were collected during prospecting traverses and sent to Acme Analytical Laboratories Ltd. for Ultratrace ICP analysis and gold as above. Rock sample descriptions are included in Appendix I, sample locations and results are given in Figures 4b and 6 respectively.

## RESULTS

Soil geochemical results are summarized in Table 2 below. Two areas containing elevated to anomalous gold in soils were outlined within the grid area. The westernmost anomaly ("West Anomaly", Figure 5) is a linear feature that trends northwesterly for approximately 1.25 kilometres across the Hy 53, 56 and 58 claims. This anomaly is elongated downslope, along a small creek. Gold contents of 909 and 484 ppb occur on the western extremity of the grid, tapering to 22 ppb at the downhill end. Arsenic is also elevated (up to 285 ppm) within this trend and along the hillside to the south. Gold and arsenic in this

area have undoubtedly experienced significant downhill dispersion.

A second anomaly lies just to the east ("East Anomaly", Figure 5), along the northerly trending claim boundary between the Hy 32-34 and Hy 55-57 claims. This area measures 500 metres in length and ranges in width from 50 to 200 metres. Gold concentrations are up to 1259 ppb on the southerly ridge and 124 ppb near the top of the northerly ridge at the northerly edge of the grid. Arsenic in this area is elevated to highly anomalous (up to 1842 ppm) and generally originates further uphill than do the anomalous gold samples. Although the width of this anomaly is probably exaggerated due to downhill dispersion, the length should be authentic.

**Table II: SUMMARY OF SOIL GEOCHEMICAL RESULTS**

Element	Au (ppb)	Ag (ppb)	Cu (ppm)	Pb (ppm)	Zn (ppm)	As (ppm)
Minimum	0	<30	3.6	2.2	5.2	0.9
Maximum	1259	829	215.3	151.4	327.2	1842.5
Elevated Threshold	20	100	100	50	100	100
Anomalous Threshold	50					500

Prospecting in the vicinity of stream sediment (silt) samples collected in 1996 located an exposure of quartz veins and quartz breccia at a contact between rusty phyllite and quartzite. Quartz veins measured 10 to 30 centimetres wide and contained disseminations and clots of pyrite and arsenopyrite. Three rock samples (nos. 63706, 7 and 8) collected from this showing returned 1360 to 8740 ppb gold and 11,057 to 20,659 ppm arsenic. A talus sample (62493) collected 130 metres downhill, returned 965 ppb gold and 26,788 ppm arsenic. Both of these samples are situated within the upper 500 metres of the "West Anomaly" shown in figure 5. In the vicinity of the "East Anomaly", a sample (62498) of rubble found along a sheared contact between quartzite and phyllite returned 37,600 ppb gold and 99,999 ppm arsenic. Another sample (62499), collected just down slope, returned 140 ppb gold. A talus (64898) and a float(70750) sample, both collected upslope, returned 938 and 809 ppb gold respectively with 99,999 and 15,915 ppm arsenic. Rock sample locations and results for gold are shown on Figures 4b and 6 respectively.

## CONCLUSIONS

The 1997 exploration program on the Hy claims delineated two areas with anomalous gold and arsenic in soils. Rock samples collected within these anomalies returned up to 37.6 gpt gold. The "West Anomaly" is continuous for at least 350 metres, as indicated by three rock samples containing in excess of 1 gpt gold, and is open to the northwest. The "East Anomaly", where rock samples returned up to 37.6 gpt gold, is open to the north and northeast. Additional prospecting and perhaps hand trenching of the West and East anomalies is recommended.

## BIBLIOGRAPHY

Gabrielse, H. et al (1977)

"Geology of the MacMillan River" Geological Survey of Canada, Department of Energy, Mines and Resources Map 1398A, compiled in 1997.

## DISBURSEMENTS

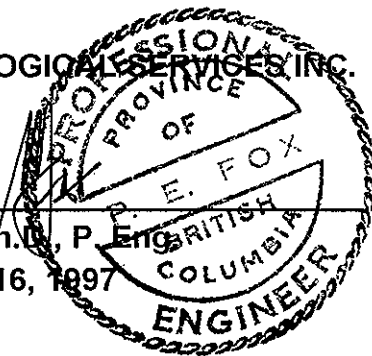
Expenditures for the 1997 work program on the Hy property are \$50,610.00 as tabulated below:

Accommodation & Board	50 days @ \$80.00/day	4,000.00
Assays	50 rock samples @ \$20.00/sample	1,000.00
	273 soil samples @ \$15.00/sample	4,095.00
Helicopter	33.3 hours @ \$800.00/hour	26,640.00
Labour		
R. Cameron, geologist	7 days @ \$325.00/day	2,275.00
T. Archibald, prospector	8 days @ \$225.00/day	1,800.00
J. McCrea, sampler	8 days @ \$225.00/day	1,800.00
D. McGee, sampler	6 days @ \$225.00/day	1,350.00
D. Gagnon, sampler	12 days @ \$225.00/day	2,700.00
L. Poznikoff, sampler	9 days @ \$225.00/day	2,025.00
Report		1,000.00
Supplies and Services		500.00
Trucks, fuel	19 days @ \$75.00/day	<u>1,425.00</u>
<b>Total</b>		<b><u>\$50,610.00</u></b>

Prepared by:

FOX GEOLOGICAL SERVICES INC.


P.E. Fox, Ph.D., P. Eng.  
December 16, 1997

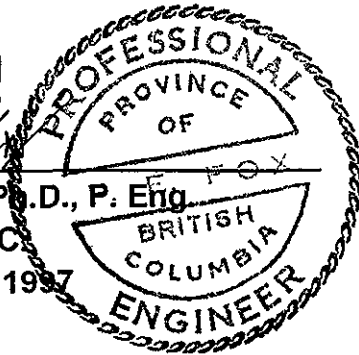


## CERTIFICATE

I, Peter Edward Fox, certify to the following:

1. - I am a consulting geologist residing at #902 - 2077 Nelson Street, Vancouver, B.C.
2. I am a Professional Engineer registered in the Association of Professional Engineers and Geoscientists of British Columbia.
3. My academic qualifications are:  
  
B.Sc. and M.Sc., Queens University, Kingston, Ontario  
Ph.D., Carleton University, Ottawa, Ontario
4. I have been engaged in geological work since graduation in 1966.

  
Peter E. Fox, Ph.D., P. Eng.  
Vancouver, B.C.  
December 16, 1997



The seal is circular with a decorative border. The text inside the seal reads: "PROFESSIONAL" at the top, "PROVINCE OF" in the upper middle, "OF" in the center, "BRITISH COLUMBIA" in the lower middle, and "ENGINEER" at the bottom. A horizontal line with the name "P. E. FOX" is drawn across the seal, passing through the center.

## CERTIFICATE

I, Robert S. Cameron, of the City of Vancouver, B.C., do hereby certify that:

1. I graduated from Carleton University in 1981 with a Bachelor of Science Degree in Geology.
2. I have been practising my profession as a geologist since 1981.
3. I am a fellow of the Geological Association of Canada.



---

**Robert S. Cameron, B.Sc.**  
**Vancouver, B.C.**  
**December 16, 1997**

## **APPENDIX I**

### **Field Notes and Selected Analytical Results**

1997 GEOCHEMICAL DATA WITH SELECTED ANALYTICAL RESULTS

SAMPLE	PROJECT	PROPERTY	TYPE	MATERIAL	GRID NORTH	GRID EAST	UTM NORTH	UTM EAST	REMARKS	As (ppm)	Au (ppb)
63703	209	HY	CHIP	BEDROCK			6865458	517690	QUARTZ VEIN IN GREY PHYLLITE, TR PY	2.8	0.0
62399	209	HY	GRAB	TALUS			6866200	517725	SLIGHTLY RUSTY QUARTZ-PEBBLE CONGLOMERATE	0.0	1.0
62493	209	HY	GRAB	TALUS	10100	9700	6866112	517200	5-10% ARSENPYRITE IN ALTERED QTZ BX	26788.0	965.0
62494	209	HY	GRAB	TALUS	10700	10135	6866712	517635	RUSTY QUARTZ-PHYLLITE BRECCIA	821.3	5.0
62495	209	HY	GRAB	BEDROCK	10720	10270	6866732	517770	RUSTY QUARTZ VEIN 1M WIDE	68.6	3.0
62496	209	HY	GRAB	TALUS	10600	10230	6866612	517730	RUSTY QTZ BLDR, PHYLLITE INCLUSIONS	26.0	4.0
62497	209	HY	GRAB	TALUS	10600	10275	6866612	517775	RUSTY PHYLLITE WITH QUARTZ VEINS	32.8	3.0
62498	209	HY	GRAB	SUBCROP	10600	10275	6866612	517775	ARSENPYRITE IN QUARTZ	99999.0	37600.0
62499	209	HY	GRAB	BEDROCK	10600	10290	6866612	517790	QUARTZITE, LIMONITE IN VEINLETS	200.1	140.0
62501	209	HY	GRAB	BEDROCK			6866125	517375	RUSTY QUARTZ, GREY-BLUE VEINS	228.9	89.0
62529	209	HY	GRAB	BEDROCK					LIMESTONE SEDIMENTARY BRECCIA	16.1	24.0
62530	209	HY	GRAB	BEDROCK					BULL QUARTZ VEINS, STOCKWORK IN GRIT	78.2	15.0
62531	209	HY	GRAB	TALUS			6867750	521325	QUARTZITE BOULDER WITH QUARTZ VEINS	428.4	12.0
63500	209	HY	GRAB	TALUS			6866530	517130	BULL QUARTZ	4.7	10.0
63501	209	HY	GRAB	BEDROCK			6866400	516400	RUSTY BULL QUARTZ FROM FELSENMEER	11.9	5.0
63525	209	HY	GRAB	TALUS			6866651	516234	RUSTY WEATHERING PEBBLE CONGLOMERATE	6.3	13.0
63526	209	HY	GRAB	TALUS			6867248	516255	SHALE WITH QUARTZ, RUSTY WEATHERING	125.7	7.0
63527	209	HY	GRAB	BEDROCK			6867279	516373	SHALE, TRACE PYRITE	28.3	4.0
63528	209	HY	GRAB	BEDROCK			6867166	516414	PEBBLE CONGL, TRACE FRACTURE GA, PY	17.3	5.0
63529	209	HY	GRAB	TALUS			6867030	516437	PEBBLE CONGLOMERATE, TRACE PYRRHOTITE	4.4	6.0
63530	209	HY	GRAB	BEDROCK			6867225	516532	PEBBLE CONGLOMERATE, THIN COATING GA	4.1	5.0
63534	209	HY	GRAB	TALUS			6867500	517360	QUARTZITE, DISSEM PYRRHOTITE	2.2	6.0
63535	209	HY	GRAB	TALUS			6867025	517590	SHALE FERRICRETE	0.0	6.0
63536	209	HY	GRAB	TALUS			6867135	518005	BARREN QUARTZ	2.3	7.0
63537	209	HY	GRAB	TALUS			6866890	518022	RUSTY QUARTZ BRECCIA	3.3	4.0
63538	209	HY	GRAB	TALUS			6867700	521380	PYRITIC SHALE IN FELSENMEER	24.6	3.0
63539	209	HY	GRAB	BEDROCK			6868130	520835	RUSTY WEATHERING SHALE	6.7	2.0
63540	209	HY	GRAB	BEDROCK			6867733	520735	RUSTY WEATHERING SHALE	3.0	1.0
63541	209	HY	GRAB	BEDROCK			6867552	520725	BARREN QUARTZ VEINS IN SHALE	3.5	1.0
63704	209	HY	GRAB	BEDROCK					DRUSY QUARTZ STOCKWORK IN PHYLLITE	1.3	1.0
63705	209	HY	GRAB	BEDROCK					RUSTY 1M MASSIVE BULL QUARTZ VEIN	2.8	1.0
63706	209	HY	GRAB	BEDROCK					5% ARSENOPYRITE IN QUARTZ VEIN	20659.0	1360.0
63707	209	HY	GRAB	BEDROCK					QUARTZ BRECCIA, ARSENO-PY CLOTS	57796.0	4120.0
63708	209	HY	GRAB	BEDROCK					REMNANT PY IN QUARTZ VEIN BRECCIA	11057.0	8740.0
63709	209	HY	GRAB	BEDROCK					QTZ GRID UNIT WITH QTZ VEIN BRECCIA	125.7	68.0
63710	209	HY	GRAB	BEDROCK					BULL QTZ VEIN-CRYSTAL LINED VUGS, PY	50.2	27.0
64200	209	HY	GRAB	BEDROCK					FRIABLE QUARTZ CHIPS IN BUFF MATRIX	33.3	14.0
64201	209	HY	GRAB	BEDROCK					2% DISS PY CUBES IN BLACK PHYLLITE	5.3	2.0
64202	209	HY	GRAB	FLOAT					5% PYRITE IN WHITE BULL QUARTZ VEIN	310.1	10.0
64208	209	HY	GRAB	FLOAT	10630	10240	6866642	517740	VUGGY LIMONITIC QUARTZ VEIN	47.7	14.0
64209	209	HY	GRAB	TALUS	10675	10250	6866687	517750	LIMONITIC BRECCIATED QTZ VEIN, TR PY	65.9	15.0
64210	209	HY	GRAB	BEDROCK					LIMONITIC QUARTZ BRECCIA	15.0	9.0
64375	209	HY	GRAB	FLOAT	10100	10250	6866112	517750	ALTERED QUARTZ WITH WHITE MICA	23.5	7.0

1997 GEOCHEMICAL DATA WITH SELECTED ANALYTICAL RESULTS

SAMPLE	PROJECT	PROPERTY	TYPE	MATERIAL	GRID NORTH	GRID EAST	UTM NORTH	UTM EAST	REMARKS	As (ppm)	Au (ppb)
63703	209	HY	CHIP	BEDROCK			6865458	517690	QUARTZ VEIN IN GREY PHYLLITE, TR PY	2.8	0.0
62399	209	HY	GRAB	TALUS			6866200	517725	SLIGHTLY RUSTY QUARTZ-PEBBLE CONGLOMERATE	0.0	1.0
62493	209	HY	GRAB	TALUS	10100	9700	6866112	517200	5-10% ARSENPYRITE IN ALTERED QTZ BX	26788.0	965.0
62494	209	HY	GRAB	TALUS	10700	10135	6866712	517635	RUSTY QUARTZ-PHYLLITE BRECCIA	821.3	5.0
62495	209	HY	GRAB	BEDROCK	10720	10270	6866732	517770	RUSTY QUARTZ VEIN 1M WIDE	68.6	3.0
62496	209	HY	GRAB	TALUS	10600	10230	6866612	517730	RUSTY QTZ BLDR, PHYLLITE INCLUSIONS	26.0	4.0
62497	209	HY	GRAB	TALUS	10600	10275	6866612	517775	RUSTY PHYLLITE WITH QUARTZ VEINS	32.8	3.0
62498	209	HY	GRAB	TALUS	10600	10275	6866612	517775	ARSENPYRITE IN QUARTZ	99999.0	37600.0
62499	209	HY	GRAB	BEDROCK	10600	10290	6866612	517790	QUARTZITE, LIMONITE IN VEINLETS	200.1	140.0
62501	209	HY	GRAB	BEDROCK			6866125	517375	RUSTY QUARTZ, GREY-BLUE VEINS	228.9	89.0
62529	209	HY	GRAB	BEDROCK					LIMESTONE SEDIMENTARY BRECCIA	16.1	24.0
62530	209	HY	GRAB	BEDROCK					BULL QUARTZ VEINS, STOCKWORK IN GRIT	78.2	15.0
62531	209	HY	GRAB	TALUS			6867750	521325	QUARTZITE BOULDER WITH QUARTZ VEINS	428.4	12.0
63500	209	HY	GRAB	TALUS			6866530	517130	BULL QUARTZ	4.7	10.0
63501	209	HY	GRAB	BEDROCK			6866400	516400	RUSTY BULL QUARTZ FROM FELSENMEER	11.9	5.0
63525	209	HY	GRAB	TALUS			6866651	516234	RUSTY WEATHERING PEBBLE CONGLOMERATE	6.3	13.0
63526	209	HY	GRAB	TALUS			6867248	516255	SHALE WITH QUARTZ, RUSTY WEATHERING	125.7	7.0
63527	209	HY	GRAB	BEDROCK			6867279	516373	SHALE, TRACE PYRITE	28.3	4.0
63528	209	HY	GRAB	BEDROCK			6867166	516414	PEBBLE CONGL, TRACE FRACTURE GA, PY	17.3	5.0
63529	209	HY	GRAB	TALUS			6867030	516437	PEBBLE CONGLOMERATE, TRACE PYRRHOTITE	4.4	6.0
63530	209	HY	GRAB	BEDROCK			6867225	516532	PEBBLE CONGLOMERATE, THIN COATING GA	4.1	5.0
63534	209	HY	GRAB	TALUS			6867500	517360	QUARTZITE, DISSEM PYRRHOTITE	2.2	6.0
63535	209	HY	GRAB	TALUS			6867025	517590	SHALE FERRICRETE	0.0	6.0
63536	209	HY	GRAB	TALUS			6867135	518005	BARREN QUARTZ	2.3	7.0
63537	209	HY	GRAB	TALUS			6866890	518022	RUSTY QUARTZ BRECCIA	3.3	4.0
63538	209	HY	GRAB	TALUS			6867700	521380	PYRITIC SHALE IN FELSENMEER	24.6	3.0
63539	209	HY	GRAB	BEDROCK			6868130	520835	RUSTY WEATHERING SHALE	6.7	2.0
63540	209	HY	GRAB	BEDROCK			6867733	520735	RUSTY WEATHERING SHALE	3.0	1.0
63541	209	HY	GRAB	BEDROCK			6867552	520725	BARREN QUARTZ VEINS IN SHALE	3.5	1.0
63704	209	HY	GRAB	BEDROCK					DRUSY QUARTZ STOCKWORK IN PHYLLITE	1.3	1.0
63705	209	HY	GRAB	BEDROCK					RUSTY 1M MASSIVE BULL QUARTZ VEIN	2.8	1.0
63706	209	HY	GRAB	BEDROCK					5% ARSENPYRITE IN QUARTZ VEIN	20659.0	1360.0
63707	209	HY	GRAB	BEDROCK					QUARTZ BRECCIA, ARSENPY-PY CLOTS	57796.0	4120.0
63708	209	HY	GRAB	BEDROCK					REMNANT PY IN QUARTZ VEIN BRECCIA	11057.0	8740.0
63709	209	HY	GRAB	BEDROCK					QTZ GRID UNIT WITH QTZ VEIN BRECCIA	125.7	68.0
63710	209	HY	GRAB	BEDROCK					BULL QTZ VEIN-CRYSTAL LINED VUGS, PY	50.2	27.0
64200	209	HY	GRAB	BEDROCK					FRIABLE QUARTZ CHIPS IN BUFF MATRIX	33.3	14.0
64201	209	HY	GRAB	BEDROCK					2% DISS PY CUBES IN BLACK PHYLLITE	5.3	2.0
64202	209	HY	GRAB	FLOAT					5% PYRITE IN WHITE BULL QUARTZ VEIN	310.1	10.0
64208	209	HY	GRAB	FLOAT	10630	10240	6866642	517740	VUGGY LIMONITIC QUARTZ VEIN	47.7	14.0
64209	209	HY	GRAB	TALUS	10675	10250	6866687	517750	LIMONITIC BRECCIATED QTZ VEIN, TR PY	65.9	15.0
64210	209	HY	GRAB	BEDROCK					LIMONITIC QUARTZ BRECCIA	15.0	9.0
64375	209	HY	GRAB	FLOAT	10100	10250	6866112	517750	ALTERED QUARTZ WITH WHITE MICA	23.5	7.0

**1997 GEOCHEMICAL DATA WITH SELECTED ANALYTICAL RESULTS**

SAMPLE	PROJECT	PROPERTY	TYPE	MATERIAL	GRID NORTH	GRID EAST	UTM NORTH	UTM EAST	REMARKS	As (ppm)	Au (ppb)
64376	209	HY	GRAB	FLOAT	10300	10460	6866312	517960	QUARTZ-WHITE MICA, PHYLLITE INCLUSIONS	2.5	3.0
64898	209	HY	GRAB	TALUS	10380	10180	6866392	517680	QUARTZ WITH ARSENOPYRITE	99999.0	938.0
64899	209	HY	GRAB	TALUS	10320	10160	6866332	517660	PHYLLITE AND QUARTZ	141.6	11.0
70748	209	HY	GRAB	FLOAT	10150	10250	6866162	517750	ALTERED RUSTY QUARTZ + CHALCOPYRITE	217.1	2.0
70749	209	HY	GRAB	FLOAT	10140	10250	6866152	517750	RUSTY QUARTZ VEIN WITH PYRITE	26.6	0.0
70750	209	HY	GRAB	FLOAT	10560	10225	6866572	517725	QUARTZ VEIN WITH ARSENOPYRITE	15915.0	809.0
70751	209	HY	GRAB	FLOAT	10850	10225	6866862	517725	RUSTY QUARTZ VEIN, ARSENOPYRITE	12467.0	94.0
70752	209	HY	GRAB	TALUS	10900	10100	6866912	517600	QUARTZ WITH ARSENOPYRITE	1669.7	114.0
70753	209	HY	GRAB	FLOAT	10125	9700	6866137	517200	RUSTY QUARTZ VEIN, 1% ARSENOPYRITE	727.9	13.0
70792	209	HY	GRAB	FLOAT	10470	9525	6866482	517025	RUSTY QUARTZ WITH MICA, SOME PYRITE	35.2	1.0
71300	209	HY	GRAB	TALUS	10090	9735	6866102	517235	BLEACHED QUARTZITE WITH SLICKENSIDES	68.3	6.0
62409	209	HY	SOIL		9600	10500	6865612	518000	3M NORTH OF CREEK	56.2	51.0
62410	209	HY	SOIL		9600	10450	6865612	517950	5M SOUTH OF CREEK	46.1	10.0
62411	209	HY	SOIL		9600	10400	6865612	517900	6M SOUTH OF CREEK	59.7	11.0
62412	209	HY	SOIL		9600	10350	6865612	517850	15M SW SILT SAMPLE SITE 96-DPY-010	35.8	2.0
62413	209	HY	SOIL		9600	10300	6865612	517800		17.8	0.0
62414	209	HY	SOIL		9600	10250	6865612	517750	ROCKY SOIL	43.7	1.0
62415	209	HY	SOIL		9600	10200	6865612	517700		145.2	1.0
62416	209	HY	SOIL		9600	10150	6865612	517650		8.6	0.0
62417	209	HY	SOIL		9600	10105	6865612	517605	SAMPLED 5M EAST DUE TO THICK BUSH	15.7	1.0
62418	209	HY	SOIL		9600	10050	6865612	517550		32.1	1.0
62419	209	HY	SOIL		9600	10000	6865612	517500		11.3	0.0
62420	209	HY	SOIL		9800	10500	6865812	518000	ROCKY SOIL	18.8	2.0
62421	209	HY	SOIL		9800	10450	6865812	517950	THIN LAYER LEACHED SOIL OVER ROCKS	1.6	0.0
62422	209	HY	SOIL		9800	10400	6865812	517900	VERY ROCKY AND IN SCRUB BRUSH	6.3	9.0
62423	209	HY	SOIL		9800	10350	6865812	517850	ROCKY SOIL IN SCRUB	18.9	9.0
62424	209	HY	SOIL		9800	10300	6865812	517800	6M EAST OF CREEK	49.7	9.0
62425	209	HY	SOIL		9800	10250	6865812	517750	SOME ROCKS IN SOIL	12.3	18.0
62426	209	HY	SOIL		9800	10200	6865812	517700		284.5	23.0
62427	209	HY	SOIL		9800	10150	6865812	517650		35.2	21.0
62428	209	HY	SOIL		9800	10100	6865812	517600		11.0	8.0
62429	209	HY	SOIL		9800	10050	6865812	517550		12.1	0.0
62430	209	HY	SOIL		9800	10000	6865812	517500		31.6	2.0
62431	209	HY	SOIL	SAND	10000	10500	6866012	518000	GRAVEL SIZE PHYLLITE IN SOIL	3.8	0.0
62432	209	HY	SOIL	SAND	10000	10450	6866012	517950	NEAR RIDGE CREST	6.8	2.0
62433	209	HY	SOIL	SAND	10000	10400	6866012	517900		30.2	2.0
62434	209	HY	SOIL	SAND	10000	10350	6866012	517850		25.5	2.0
62435	209	HY	SOIL	SAND	10000	10300	6866012	517800		79.3	3.0
62436	209	HY	SOIL	SAND	10000	10250	6866012	517750		47.8	2.0
62437	209	HY	SOIL	SAND	10000	10200	6866012	517700	VERY ROCKY	10.0	8.0
62438	209	HY	SOIL	GRAVEL	10000	10150	6866012	517650		7.6	0.0
62439	209	HY	SOIL	GRAVEL	10000	10100	6866012	517600	VERY ROCKY	10.4	0.0
62440	209	HY	SOIL	SAND	10000	10050	6866012	517550	TOO ROCKY, TAKEN 5M SOUTH OF STATION	18.0	1.0
62441	209	HY	SOIL	SAND	10000	10000	6866012	517500	2M SOUTH OF CREEK	62.2	34.0

**1997 GEOCHEMICAL DATA WITH SELECTED ANALYTICAL RESULTS**

SAMPLE	PROJECT	PROPERTY	TYPE	MATERIAL	GRID NORTH	GRID EAST	UTM NORTH	UTM EAST	REMARKS	As (ppm)	Au (ppb)
62442	209	HY	SOIL	TALUS	10200	10500	6866212	518000	TALUS SLOPE	15.7	1.0
62443	209	HY	SOIL	SAND	10200	10450	6866212	517950		34.9	3.0
62444	209	HY	SOIL	SAND	10200	10400	6866212	517900	GRAVELLY	115.1	3.0
62445	209	HY	SOIL	SAND	10200	10350	6866212	517850	GRAVELLY SAND	42.9	0.0
62446	209	HY	SOIL	SAND	10200	10300	6866212	517800	GRAVELLY	83.3	0.0
62447	209	HY	SOIL	SAND	10200	10250	6866212	517750	GRAVELLY	131.0	7.0
62448	209	HY	SOIL	SAND	10200	10200	6866212	517700	GRAVELLY	1101.9	1259.0
62449	209	HY	SOIL	SAND	10200	10150	6866212	517650	GRAVELLY	387.9	54.0
62450	209	HY	SOIL	SAND	10200	10100	6866212	517600	GRAVELLY	1073.6	124.0
62451	209	HY	SOIL	SAND	10200	10050	6866212	517550	GRAVELLY, LARGE BOULDERS	49.9	4.0
62452	209	HY	SOIL	SAND	10200	10000	6866212	517500	ROCKY SOIL BESIDE TALUS	7.0	2.0
62453	209	HY	SOIL	GRAVEL	10600	10250	6866612	517750	IN PHYLLITE TALUS	265.5	101.0
62454	209	HY	SOIL	GRAVEL	10600	10200	6866612	517700	IN PHYLLITE TALUS	534.2	53.0
62455	209	HY	SOIL	GRAVEL	10600	10150	6866612	517650	SANDY	571.6	96.0
62456	209	HY	SOIL	GRAVEL	10600	10100	6866612	517600	SANDY	440.0	22.0
62457	209	HY	SOIL	SAND	10600	10050	6866612	517550	GRAVELLY	100.6	9.0
62458	209	HY	SOIL	SAND	10600	10000	6866612	517500	GRAVELLY	40.3	9.0
62459	209	HY	SOIL	GRAVEL	10700	10250	6866712	517750	SANDY	228.3	13.0
62460	209	HY	SOIL	TALUS	10700	10200	6866712	517700	ON TALUS SLOPE, NO SAMPLE @ 10150E	455.8	46.0
62461	209	HY	SOIL	SAND	10700	10100	6866712	517600		643.4	124.0
62462	209	HY	SOIL	SAND	10700	10050	6866712	517550	GRAVELLY	509.9	19.0
62463	209	HY	SOIL	GRAVEL	10700	10000	6866712	517500	SANDY GRAVEL	233.9	19.0
62464	209	HY	SOIL	GRAVEL	10700	9500	6866712	517000	SANDY	19.4	4.0
62465	209	HY	SOIL		10700	9550	6866712	517050		10.2	0.0
62466	209	HY	SOIL		10700	9600	6866712	517100		6.3	1.0
62467	209	HY	SOIL	GRAVEL	10700	9650	6866712	517150	SANDY	14.3	2.0
62468	209	HY	SOIL		10700	9700	6866712	517200		13.5	1.0
62469	209	HY	SOIL		10700	9750	6866712	517250	LARGE QURATZ BOULDERS IN TALUS	14.7	9.0
62470	209	HY	SOIL		10700	9800	6866712	517300	15 CM SOIL LAYER ABOVE TALUS	10.6	1.0
62471	209	HY	SOIL	GRAVEL	10700	9850	6866712	517350	SANDY	10.8	0.0
62472	209	HY	SOIL	GRAVEL	10700	9900	6866712	517400	SANDY	10.6	3.0
62473	209	HY	SOIL	GRAVEL	10700	9950	6866712	517450	TALUS @ STATION, TAKEN 10M WEST	241.9	18.0
62474	209	HY	SOIL	SAND	10200	9500	6866212	517000	WEST SIDE OF GULLY, 20M WEST OF CK	9.4	3.0
62475	209	HY	SOIL	GRAVEL	10200	9550	6866212	517050	PEBBLY QUARTITE TALUS	19.0	20.0
62476	209	HY	SOIL	GRAVEL	10200	9600	6866212	517100	SANDY	3.8	109.0
62477	209	HY	SOIL	SAND	10200	9650	6866212	517150	GRAVELLY	120.5	155.0
62478	209	HY	SOIL	GRAVEL	10200	9700	6866212	517200	SANDY	31.6	12.0
62479	209	HY	SOIL	SAND	10200	9750	6866212	517250	GRAVELLY	10.1	1.0
62480	209	HY	SOIL	SAND	10200	9800	6866212	517300	VERY ROCKY	7.2	1.0
62481	209	HY	SOIL	SAND	10200	9850	6866212	517350		10.6	0.0
62482	209	HY	SOIL	SAND	10200	9900	6866212	517400		2.1	0.0
62483	209	HY	SOIL	SAND	10200	9950	6866212	517450	GRAVELLY	7.6	0.0
62484	209	HY	SOIL	SAND	10100	9450	6866112	516950	ROCKY SOIL	24.6	0.0
62485	209	HY	SOIL	GRAVEL	10100	9500	6866112	517000	SANDY	1.9	1.0

1997 GEOCHEMICAL DATA WITH SELECTED ANALYTICAL RESULTS

SAMPLE	PROJECT	PROPERTY	TYPE	MATERIAL	GRID NORTH	GRID EAST	UTM NORTH	UTM EAST	REMARKS	As (ppm)	Au (ppb)
62486	209	HY	SOIL	GRAVEL	10100	9550	6866112	517050	IN GULLY 10M WEST OF CREEK	51.8	3.0
62487	209	HY	SOIL	TALUS	10100	9600	6866112	517100	NEAR QUARTZITE TALUS	141.9	106.0
62488	209	HY	SOIL	TILL	10100	9650	6866112	517150	THIN SOIL ON SLOPE	44.3	61.0
62489	209	HY	SOIL	GRAVEL	10100	9800	6866112	517300	NO SAMPLE AT 9700E	51.3	76.0
62490	209	HY	SOIL	TILL	10100	9850	6866112	517350		15.4	4.0
62491	209	HY	SOIL	GRAVEL	10100	9900	6866112	517400		7.6	5.0
62492	209	HY	SOIL	SAND	10100	9950	6866112	517450	GRAVELLY	22.9	12.0
64211	209	HY	SOIL	COLLUVIUM			6868520	520800	CONTOUR LINE: 900 NORTH, TALUS SLOPE	30.2	3.0
64212	209	HY	SOIL	TALUS			6868470	520800	CONTOUR LINE: 850 NORTH, TALUS FINES	21.0	1.0
64213	209	HY	SOIL	TALUS			6868420	520800	CONTOUR LINE: 800M NORTH, TALUS FINES	31.4	4.0
64214	209	HY	SOIL	COLLUVIUM			6868370	520800	CONTOUR LINE: 750M NORTH, FINE SOIL UNDER MOS	5.5	2.0
64215	209	HY	SOIL	COLLUVIUM			6868320	520800	CONTOUR LINE: 700 NORTH, TALUS FINES	11.1	1.0
64216	209	HY	SOIL	COLLUVIUM			6868270	520800	CONTOUR LINE: 650 NORTH, TALUS FINES	7.4	0.0
64217	209	HY	SOIL	COLLUVIUM			6868220	520800	CONTOUR LINE: 600 NORTH, TALUS FINES	47.0	2.0
64218	209	HY	SOIL	COLLUVIUM			6868170	520800	CONTOUR LINE: 500 NORTH, GOOD TALUS FINES	4.8	1.0
64219	209	HY	SOIL	COLLUVIUM			6868120	520800	CONTOUR LINE: 500 NORTH	10.7	2.0
64220	209	HY	SOIL	COLLUVIUM			6868070	520800	CONTOUR LINE: 450 NORTH, GULLY	45.7	2.0
64221	209	HY	SOIL	COLLUVIUM			6867920	520800	CONTOUR LINE: 300 NORTH, TALUS FINES	9.8	0.0
64222	209	HY	SOIL	COLLUVIUM			6867860	520800	CONTOUR LINE: 240 NORTH, TALUS FINES	63.0	2.0
64223	209	HY	SOIL	COLLUVIUM			6867820	520800	CONTOUR LINE: 200 NORTH	31.3	0.0
64224	209	HY	SOIL	COLLUVIUM			6867770	520800	CONTOUR LINE: 150 NORTH, TALUS FINES	62.7	1.0
64225	209	HY	SOIL	COLLUVIUM			6867720	520800	CONTOUR LINE: 100 NORTH, BLACK WET TALUS FINES	43.6	0.0
64226	209	HY	SOIL	COLLUVIUM			6867670	520800	CONTOUR LINE: 50 NORTH	49.3	5.0
64227	209	HY	SOIL	COLLUVIUM			6867620	520800	CONTOUR LINE: 0+00 NORTH	34.1	5.0
64228	209	HY	SOIL	COLLUVIUM			6867320	520800	CONTOUR LINE: 300 SOUTH	12.2	2.0
64229	209	HY	SOIL	COLLUVIUM			6867370	520800	CONTOUR LINE: 250 SOUTH, GOOD FINES	3.1	0.0
64230	209	HY	SOIL	COLLUVIUM			6867420	520800	CONTOUR LINE: 200 SOUTH	14.1	0.0
64231	209	HY	SOIL	COLLUVIUM			6867470	520800	CONTOUR LINE: 150 SOUTH	14.4	0.0
64232	209	HY	SOIL	COLLUVIUM			6867520	520800	CONTOUR LINE: 100 SOUTH	8.3	0.0
64233	209	HY	SOIL	COLLUVIUM			6867570	520800	CONTOUR LINE: 50 SOUTH	1.0	0.0
64300	209	HY	SOIL	TILL	10300	10200	6866312	517700		572.3	7.0
64301	209	HY	SOIL	TILL	10300	10250	6866312	517750		740.9	91.0
64302	209	HY	SOIL	TILL	10300	10300	6866312	517800		69.8	8.0
64303	209	HY	SOIL	TILL	10300	10350	6866312	517850	CREST OF RIDGE	10.3	3.0
64304	209	HY	SOIL	TILL	10300	10400	6866312	517900		77.1	8.0
64305	209	HY	SOIL	TILL	10300	10450	6866312	517950		41.6	1.0
64306	209	HY	SOIL	TILL	10300	10500	6866312	518000	MINERALIZED QUARTZ TALUS @ 104+75	36.7	1.0
64307	209	HY	SOIL	TILL	10100	10000	6866112	517500		0.9	0.0
64308	209	HY	SOIL	TILL	10100	10050	6866112	517550		45.7	0.0
64309	209	HY	SOIL	TILL	10100	10100	6866112	517600		23.9	2.0
64310	209	HY	SOIL	TILL	10100	10150	6866112	517650		80.2	23.0
64311	209	HY	SOIL	TILL	10100	10200	6866112	517700		1.8	3.0
64312	209	HY	SOIL	TILL	10100	10250	6866112	517750	MINERALIZED QUARTZ FLOAT 5M NORTH	9.1	2.0
64313	209	HY	SOIL	TILL	10100	10300	6866112	517800		60.5	9.0

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1997 GEOCHEMICAL DATA WITH SELECTED ANALYTICAL RESULTS

SAMPLE	PROJECT	PROPERTY	TYPE	MATERIAL	GRID NORTH	GRID EAST	UTM NORTH	UTM EAST	REMARKS	As (ppm)	Au (ppb)
64314	209	HY	SOIL	TILL	10100	10350	6866112	517850		93.4	3.0
64315	209	HY	SOIL	TILL	10100	10400	6866112	517900	ROCKY SOIL	7.3	0.0
64316	209	HY	SOIL	TILL	10100	10450	6866112	517950	CREST OF RIDGE	17.0	4.0
64317	209	HY	SOIL	TILL	10100	10500	6866112	518000		20.8	2.0
64318	209	HY	SOIL	TILL	9900	10000	6865912	517500		16.6	1.0
64319	209	HY	SOIL	TILL	9900	10050	6865912	517550		42.3	53.0
64320	209	HY	SOIL	TILL	9900	10100	6865912	517600		41.4	4.0
64321	209	HY	SOIL	TILL	9900	10150	6865912	517650		18.4	55.0
64322	209	HY	SOIL	TILL	9900	10200	6865912	517700		17.1	13.0
64323	209	HY	SOIL	TILL	9900	10250	6865912	517750		18.8	1.0
64324	209	HY	SOIL	TILL	9900	10300	6865912	517800	REDDISH BROWN SOIL	11.5	1.0
64325	209	HY	SOIL	TILL	9900	10350	6865912	517850		19.3	0.0
64326	209	HY	SOIL	TILL	9900	10400	6865912	517900		16.2	1.0
64327	209	HY	SOIL	TILL	9900	10450	6865912	517950		58.6	33.0
64328	209	HY	SOIL	TILL	9900	10500	6865912	518000	REDDISH BROWN SOIL	19.0	1.0
64329	209	HY	SOIL	TILL	9700	10000	6865712	517500		72.8	42.0
64330	209	HY	SOIL	TILL	9700	10050	6865712	517550		55.9	5.0
64331	209	HY	SOIL	TILL	9700	10100	6865712	517600	REDDISH BROWN SOIL	65.6	13.0
64332	209	HY	SOIL	TILL	9700	10150	6865712	517650	REDDISH BROWN, WELL DEVELOPED SOIL	30.9	1.0
64333	209	HY	SOIL	TILL	9700	10200	6865712	517700		31.9	10.0
64334	209	HY	SOIL	TILL	9700	10250	6865712	517750		6.4	1.0
64335	209	HY	SOIL	TILL	9700	10300	6865712	517800	CREEK AT 103+30	33.4	22.0
64336	209	HY	SOIL	TILL	9700	10350	6865712	517850	SMALL CLIFF AT 103+40	14.2	1.0
64337	209	HY	SOIL	TILL	9700	10400	6865712	517900	GOOD SOIL	16.5	0.0
64338	209	HY	SOIL	TILL	9700	10450	6865712	517950	ROCKY SOIL	12.4	1.0
64339	209	HY	SOIL	TILL	9700	10500	6865712	518000	THICK BUCK BRUSH	6.3	5.0
64340	209	HY	SOIL	TILL	9520	10000	6865532	517500	SAMPLE TAKEN 20M NORTH DUE TO TALUS	125.5	12.0
64341	209	HY	SOIL	TILL	9500	10050	6865512	517550	SMALL CREEK	3.2	1.0
64342	209	HY	SOIL	TILL	9500	10100	6865512	517600		11.6	0.0
64343	209	HY	SOIL	TILL	9500	10150	6865512	517650		36.4	0.0
64344	209	HY	SOIL	TILL	9500	10200	6865512	517700		5.2	1.0
64345	209	HY	SOIL	TILL	9500	10245	6865512	517745	CREEK AT 102+50	4.8	0.0
64346	209	HY	SOIL	TILL	9500	10300	6865512	517800	REDDISH BROWN SOIL	18.2	1.0
64347	209	HY	SOIL	TILL	9500	10350	6865512	517850	GOOD REDDISH BROWN SOIL	7.9	3.0
64348	209	HY	SOIL	TILL	9500	10400	6865512	517900		8.6	1.0
64349	209	HY	SOIL	TILL	9500	10450	6865512	517950		31.0	3.0
64350	209	HY	SOIL	TILL	9500	10500	6865512	518000		13.7	8.0
64351	209	HY	SOIL	TILL	10500	9950	6866512	517450		4.4	0.0
64352	209	HY	SOIL	TILL	10500	9900	6866512	517400		17.9	2.0
64353	209	HY	SOIL	TILL	10500	9850	6866512	517350	NO SAMPLE AT 98+00, TALUS	4.5	1.0
64354	209	HY	SOIL	TILL	10500	9750	6866512	517250		6.2	1.0
64355	209	HY	SOIL	TILL	10500	9700	6866512	517200		13.8	1.0
64356	209	HY	SOIL	TILL	10500	9650	6866512	517150		17.4	0.0
64357	209	HY	SOIL	TILL	10500	9600	6866512	517100		5.2	2.0

1997 GEOCHEMICAL DATA WITH SELECTED ANALYTICAL RESULTS

SAMPLE	PROJECT	PROPERTY	TYPE	MATERIAL	GRID NORTH	GRID EAST	UTM NORTH	UTM EAST	REMARKS	As (ppm)	Au (ppb)
64358	209	HY	SOIL	TILL	10500	9550	6866512	517050		16.3	1.0
64359	209	HY	SOIL	TILL	10500	9500	6866512	517000		15.7	6.0
64360	209	HY	SOIL	TILL	10500	9450	6866512	516950		24.0	3.0
64361	209	HY	SOIL	TILL	10500	9400	6866512	516900		12.3	1.0
64362	209	HY	SOIL	TILL	10600	9950	6866612	517450		113.8	12.0
64363	209	HY	SOIL	TILL	10600	9900	6866612	517400		185.7	11.0
64364	209	HY	SOIL	TILL	10600	9850	6866612	517350		18.9	0.0
64365	209	HY	SOIL	TILL	10600	9800	6866612	517300		15.9	0.0
64366	209	HY	SOIL	TILL	10600	9750	6866612	517250		32.2	0.0
64367	209	HY	SOIL	TILL	10600	9700	6866612	517200		14.0	0.0
64368	209	HY	SOIL	TILL	10600	9650	6866612	517150		14.5	0.0
64369	209	HY	SOIL	TILL	10600	9600	6866612	517100		16.4	0.0
64370	209	HY	SOIL	TILL	10600	9550	6866612	517050		18.0	0.0
64371	209	HY	SOIL	TILL	10600	9500	6866612	517000		26.9	0.0
64372	209	HY	SOIL	TILL	10600	9450	6866612	516950		24.6	0.0
64373	209	HY	SOIL	TILL	10600	9400	6866612	516900		17.6	55.0
64374	209	HY	SOIL	TILL	10600	9350	6866612	516850	LINE ENDS AT 93+25, TALUS	11.9	1.0
64377	209	HY	SOIL	TILL	10500	10000	6866512	517500		53.5	2.0
64378	209	HY	SOIL	TILL	10500	10050	6866512	517550		831.1	18.0
64379	209	HY	SOIL	TILL	10500	10100	6866512	517600		117.6	11.0
64380	209	HY	SOIL	TALUS	10500	10150	6866512	517650		45.4	0.0
64381	209	HY	SOIL	TILL	10500	10200	6866512	517700		794.3	94.0
64382	209	HY	SOIL	TILL	10500	10250	6866512	517750		84.3	20.0
64383	209	HY	SOIL	TILL	10500	10300	6866512	517800		59.1	0.0
64384	209	HY	SOIL	TILL	10500	10350	6866512	517850		145.9	192.0
64385	209	HY	SOIL	TILL	10400	10000	6866412	517500		24.4	2.0
64386	209	HY	SOIL	TILL	10400	10050	6866412	517550		268.6	66.0
64387	209	HY	SOIL	TILL	10400	10100	6866412	517600		61.6	38.0
64388	209	HY	SOIL	TILL	10400	10150	6866412	517650		86.6	83.0
64389	209	HY	SOIL	TILL	10400	10200	6866412	517700		1842.5	178.0
64390	209	HY	SOIL	TILL	10400	10250	6866412	517750		217.5	7.0
64391	209	HY	SOIL	TILL	10400	10300	6866412	517800		5.8	3.0
64392	209	HY	SOIL	TILL	10400	10350	6866412	517850		7.0	1.0
64393	209	HY	SOIL	TILL	10400	10400	6866412	517900		44.1	1.0
64394	209	HY	SOIL	TILL	10400	10450	6866412	517950		55.6	7.0
64395	209	HY	SOIL	TILL	10400	10500	6866412	518000		39.2	1.0
64396	209	HY	SOIL	TILL	10300	10000	6866312	517500		15.4	0.0
64397	209	HY	SOIL	TILL	10300	10050	6866312	517550		126.2	0.0
64398	209	HY	SOIL	TILL	10300	10100	6866312	517600		80.6	3.0
64399	209	HY	SOIL	TILL	10300	10150	6866312	517650		427.6	18.0
64447	209	HY	SOIL	TILL	9600	9350	6865612	516850		6.1	0.0
64448	209	HY	SOIL	TILL	9600	9400	6865612	516900		4.7	0.0
64449	209	HY	SOIL	TILL	9600	9450	6865612	516950		8.8	0.0
64450	209	HY	SOIL	TILL	9600	9500	6865612	517000		29.6	1.0

1997 GEOCHEMICAL DATA WITH SELECTED ANALYTICAL RESULTS

SAMPLE	PROJECT	PROPERTY	TYPE	MATERIAL	GRID NORTH	GRID EAST	UTM NORTH	UTM EAST	REMARKS	As (ppm)	Au (ppb)
64451	209	HY	SOIL	TILL	9600	9550	6865612	517050		21.5	0.0
64452	209	HY	SOIL	TILL	9600	9600	6865612	517100		22.8	2.0
64453	209	HY	SOIL	TILL	9600	9650	6865612	517150		41.3	1.0
64454	209	HY	SOIL	TILL	9600	9700	6865612	517200		65.8	5.0
64455	209	HY	SOIL	TILL	9600	9750	6865612	517250		122.6	13.0
64456	209	HY	SOIL	TILL	9600	9800	6865612	517300		253.3	22.0
64457	209	HY	SOIL	TILL	9600	9850	6865612	517350		75.1	4.0
64458	209	HY	SOIL	TILL	9600	9900	6865612	517400		165.1	7.0
64459	209	HY	SOIL	TILL	9600	9950	6865612	517450		21.2	2.0
64460	209	HY	SOIL	TILL	9500	9950	6865512	517450		40.7	4.0
64461	209	HY	SOIL	TILL	9500	9900	6865512	517400		54.8	1.0
64462	209	HY	SOIL	TILL	9500	9850	6865512	517350		39.7	12.0
64463	209	HY	SOIL	TILL	9500	9800	6865512	517300		21.7	2.0
64464	209	HY	SOIL	TILL	9500	9750	6865512	517250		37.3	12.0
64465	209	HY	SOIL	TILL	9500	9700	6865512	517200		111.9	10.0
64466	209	HY	SOIL	TILL	9500	9650	6865512	517150		17.4	1.0
64467	209	HY	SOIL	TILL	9500	9600	6865512	517100		18.3	1.0
64468	209	HY	SOIL	TILL	9500	9550	6865512	517050		20.2	2.0
64469	209	HY	SOIL	TILL	9500	9500	6865512	517000		3.9	4.0
64470	209	HY	SOIL	TILL	9500	9450	6865512	516950		5.5	1.0
64471	209	HY	SOIL	TILL	9500	9400	6865512	516900		11.6	1.0
64472	209	HY	SOIL	TILL	9500	9350	6865512	516850		3.4	1.0
64473	209	HY	SOIL	TILL	9500	9300	6865512	516800		4.9	1.0
64474	209	HY	SOIL	TILL	9500	9250	6865512	516750		5.9	0.0
64475	209	HY	SOIL	TILL	9500	9200	6865512	516700		12.1	0.0
64476	209	HY	SOIL	TILL	10300	9950	6866312	517450		37.5	3.0
64477	209	HY	SOIL	TILL	10300	9900	6866312	517400		2.3	1.0
64478	209	HY	SOIL	TILL	10300	9850	6866312	517350		1.9	1.0
64479	209	HY	SOIL	TILL	10300	9800	6866312	517300		18.2	2.0
64480	209	HY	SOIL	TILL	10300	9750	6866312	517250		14.9	0.0
64481	209	HY	SOIL	TILL	10300	9700	6866312	517200		8.7	0.0
64482	209	HY	SOIL	TILL	10300	9650	6866312	517150		17.1	3.0
64483	209	HY	SOIL	TILL	10300	9600	6866312	517100		21.5	0.0
64484	209	HY	SOIL	TILL	10300	9550	6866312	517050		8.2	484.0
64485	209	HY	SOIL	TILL	10300	9500	6866312	517000		11.9	5.0
64486	209	HY	SOIL	TILL	10300	9450	6866312	516950	CREEK AT 94+30	16.3	2.0
64487	209	HY	SOIL	TILL	10300	9400	6866312	516900		14.8	1.0
64488	209	HY	SOIL	TILL	10400	9950	6866412	517450		18.7	1.0
64489	209	HY	SOIL	TILL	10400	9900	6866412	517400		4.7	0.0
64490	209	HY	SOIL	TILL	10400	9850	6866412	517350		2.2	0.0
64491	209	HY	SOIL	TILL	10400	9800	6866412	517300		15.2	0.0
64492	209	HY	SOIL	TILL	10400	9750	6866412	517250		0.0	0.0
64493	209	HY	SOIL	TILL	10400	9700	6866412	517200		9.8	3.0
64494	209	HY	SOIL	TILL	10400	9650	6866412	517150		13.9	1.0

1997 GEOCHEMICAL DATA WITH SELECTED ANALYTICAL RESULTS

SAMPLE	PROJECT	PROPERTY	TYPE	MATERIAL	GRID NORTH	GRID EAST	UTM NORTH	UTM EAST	REMARKS	As (ppm)	Au (ppb)
64495	209	HY	SOIL	TILL	10400	9600	6866412	517100		3.2	1.0
64496	209	HY	SOIL	TILL	10400	9550	6866412	517050		14.4	1.0
64497	209	HY	SOIL	TILL	10400	9500	6866412	517000		8.6	17.0
64498	209	HY	SOIL	TILL	10400	9450	6866412	516950		16.2	909.0
64499	209	HY	SOIL	TILL	10400	9400	6866412	516900		2.9	3.0
64564	209	HY	SOIL		9600	9300	6865612	516800		9.0	2.0
64565	209	HY	SOIL	GRAVEL	9600	9250	6865612	516750		9.8	0.0
64566	209	HY	SOIL	TILL	9600	9200	6865612	516700	NEAR OUTCROP OF PEBBLY QUARTZITE	15.7	0.0
64567	209	HY	SOIL	TILL	9700	9900	6865712	517400	EDGE OF TALUS SLOPE	177.3	11.0
64568	209	HY	SOIL	TILL	9700	9950	6865712	517450		212.1	14.0
64569	209	HY	SOIL	TILL	9900	9950	6865912	517450		4.1	1.0
64570	209	HY	SOIL	TILL	9900	9900	6865912	517400		19.8	0.0
64571	209	HY	SOIL	TILL	9900	9850	6865912	517350	GRAVELLY	14.9	2.0
64572	209	HY	SOIL	TILL	9900	9800	6865912	517300		9.4	0.0
64573	209	HY	SOIL	TILL	9900	9750	6865912	517250		3.0	0.0
64574	209	HY	SOIL	TILL	9900	9700	6865912	517200		15.8	0.0
64575	209	HY	SOIL	TILL	9900	9650	6865912	517150		31.0	0.0
64576	209	HY	SOIL	TILL	9900	9600	6865912	517100	GRAVEL & SAND	22.8	0.0
64577	209	HY	SOIL	TILL	9900	9500	6865912	517000		4.1	0.0
64578	209	HY	SOIL	TILL	9900	9450	6865912	516950	TAN SOIL BESIDE CREEK HEADWATERS	13.1	0.0
64579	209	HY	SOIL	TILL	9900	9400	6865912	516900	GRAVEL & SAND	12.0	2.0
64580	209	HY	SOIL	TILL	9900	9350	6865912	516850	GRAVEL & SAND	34.0	4.0
64581	209	HY	SOIL	GRAVEL	9800	9500	6865812	517000		12.0	0.0
64582	209	HY	SOIL	GRAVEL	9800	9550	6865812	517050	TALUS SLOPE, PHYLLITE	7.5	0.0
64583	209	HY	SOIL	GRAVEL	9800	9600	6865812	517100	B HORIZON?-TALUS SLOPE, PHYLLITE	39.0	1.0
64584	209	HY	SOIL	TILL	9800	9650	6865812	517150		41.5	1.0
64585	209	HY	SOIL	TILL	9800	9700	6865812	517200	HORIZON?, THIN SOIL LAYER ON TALUS	2.3	0.0
64586	209	HY	SOIL	TILL	9800	9750	6865812	517250	THIN SOIL LAYER ON TALUS, 10M WEST	1.8	1.0
64587	209	HY	SOIL	TILL	9800	9850	6865812	517350		136.7	19.0
64588	209	HY	SOIL	TILL	9800	9900	6865812	517400	GRAVELLY SAMPLE	20.1	3.0
64589	209	HY	SOIL	TILL	9800	9950	6865812	517450	GRAVELLY	9.0	1.0
64590	209	HY	SOIL	SAND	10000	9700	6866012	517200		46.8	7.0
64591	209	HY	SOIL	GRAVEL	10000	9650	6866012	517150		7.0	1.0
64592	209	HY	SOIL	GRAVEL	10000	9600	6866012	517100		39.6	1.0
64593	209	HY	SOIL	GRAVEL	10000	9400	6866012	516900		50.3	1.0
64594	209	HY	SOIL	GRAVEL	10000	9350	6866012	516850		6.3	1.0
64595	209	HY	SOIL	TILL	10000	9750	6866012	517250	15 METRES NORTH OF CREEK	21.3	47.0
64596	209	HY	SOIL	SAND	10000	9800	6866012	517300	10 METRES NORTH OF CREEK	149.2	8.0
64597	209	HY	SOIL	SAND	10000	9850	6866012	517350	15 METRES NORTH OF CREEK	113.5	74.0
64598	209	HY	SOIL	SAND	10000	9900	6866012	517400	15 METRES NORTH OF CREEK	130.1	52.0
64599	209	HY	SOIL	SAND	10000	9950	6866012	517450	CREEKS 2M ON EITHER SIDE OF STATION	13.6	124.0

## APPENDIX II

### Geochemical Analyses

#### ANALYTICAL METHOD

##### Soil Samples

- ICP A 30 gram sample is digested with 180 millilitres 3-1-2 HCL-HNO<sub>3</sub>-H<sub>2</sub>O at 95° C for one hour and is diluted to 600 millilitres with water. This each is partial for Mn, Fe, Sr, Ca, P, La, Cr, Mg, Ba, Ti, B, W and limited for Na, K, Ga and Al. The solution is analysed directly by ICP. Mo, Cu, Pb, Zn, Ag, As, Au, Cd, Sb, Bi, Tl, Hg, Se, Te and Ga are extracted with MIBK-Aliquat 336 and analysed by ICP. Elevated detection limits for samples contain Cu, Pb, Zn, As>1500 ppm, Fe>20%.
- Au<sup>+</sup> Extracted by aqua-regia/MIBK with GF/AA finished.



GEOCHEMICAL EXTRACTION-ANALYSIS CERTIFICATE

Phelps Dodge Corp. PROJECT 209 File # 97-3893 Page 1

1409 - 409 Granville St., Vancouver BC V6T 1T2 Submitted by: R. Cameron

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B %	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
52399	.7	8.2	3.8	21.0	<30	8	3	666	1.09	<.5	7	6	6	.05	<.2	.1	3	.46	.012	24	18	.27	20<.01	<3	.61	.01	.07	4	.2	<10	<.3	<.2	1.5	1	
52493	1.5	15.3	88.4	36.7	<300	15	5	164	3.86	26788.2	<5	6	5	<.1	4.3	<.1	6	.01	.005	9	21	.31	16<.01	3	.86	.01	.07	9	<2	<10	<.3	<.2	<5	965	
52494	1.4	34.2	26.9	70.3	255	10	5	137	4.35	821.3	<5	8	3	.09	.8	.5	8	<.01	.028	16	21	.15	15<.01	<3	.60	.01	.06	4	.6	<10	.4	.5	2.8	5	
52495	2.3	6.9	5.0	9.4	<30	3	1	51	.47	68.6	5	2	1	.03	.5	<.1	2	<.01	.005	7	23	.05	5<.01	<3	.13	.01	.02	6	<.2	<10	<.3	<.2	.7	3	
52496	.7	15.8	6.5	15.6	<30	3	1	52	1.35	26.0	6	4	1	.02	.5	<.1	2	<.01	.024	2	21	.04	6<.01	<3	.15	<.01	.02	4	<.2	<10	<.3	<.2	.6	4	
52497	2.0	59.4	135.6	65.3	141	10	3	223	3.54	32.8	<5	10	6	.02	2.6	.7	8	.01	.025	6	30	.56	22 .01	<3	1.21	.02	.07	6	<.2	<10	.4	.4	3.0	3	
52498	1.3	33.8	4393.6	67.8	20342	22	23	84	11.22	99999.0	<5	5	16	.29	26.0	31.6	4	.01	.007	90	18	.16	37<.01	<3	.46	<.01	.04	26	2.7	26	6.6	6.5	<5	37600	
52499	2.0	12.1	19.1	64.3	78	29	13	197	2.13	200.1	<5	4	1	.03	.2	.2	4	<.01	.005	9	25	.14	7<.01	5	.51	<.01	.03	6	<.2	<10	<.3	<.2	1.6	140	
52501	.6	9.4	27.5	34.3	99	9	4	284	1.39	228.9	<5	8	4	.04	<.2	.3	7	.11	.008	14	29	.31	10<.01	<3	.77	.03	.04	5	<.2	<10	<.3	<.2	1.8	89	
52524	5.3	45.2	32.8	60.9	163	64	23	566	3.08	4.8	<5	8	212	.23	<.2	.3	51	1.78	.119	10	77	2.15	89 .15	4	3.80	.55	1.23	2	.8	<10	1.1	<.2	7.9	33	
52529	.4	5.7	5.0	23.4	32	3	<.1	700	.39	16.1	<5	<2	619	.14	.7	.1	2	41.59	.060	5	3	.68	24<.01	<3	.11	<.01	.02	<2	<.2	<10	<.3	<.2	<.5	24	
52530	1.9	7.3	6.7	13.7	<30	7	1	250	.63	78.2	<5	4	4	.05	<.2	<.1	3	.12	.006	9	24	.09	5<.01	5	.32	.02	.01	6	<.2	<10	<.3	<.2	.7	15	
52531	.8	6.8	2.1	9.8	<30	4	1	51	.49	428.4	<5	4	2	.04	.2	<.1	2	.04	.004	5	29	.05	1<.01	<3	.14	.02	.01	5	.4	<10	.3	<.2	<.5	12	
53500	1.6	15.8	6.2	15.9	<30	11	4	373	.68	4.7	<5	4	2	.17	<.2	<.1	3	.09	.003	12	20	.11	17<.01	<3	.31	.01	.02	5	<.2	<10	<.3	<.2	.8	10	
53501	.7	4.5	3.9	6.3	86	2	1	42	.32	11.9	<5	<2	<.1	<.01	<.2	.1	1	.02	.002	1	32	<.01	3<.01	<3	.02	<.01	<.01	8	<.2	<10	<.3	<.2	<.5	5	
63525	1.7	11.1	14.7	7.6	<30	6	2	38	.50	6.3	<5	4	1	.02	<.2	.1	3	.02	.006	8	21	.01	8<.01	<3	.17	<.01	.03	6	<.2	<10	<.3	<.2	<.5	13	
63526	.8	36.7	7.3	49.7	82	2	1	466	5.21	125.7	<5	17	4	<.01	<.2	<.1	15	<.01	.003	24	30	1.02	27 .01	<3	1.69	.02	.15	3	<.2	<10	.3	<.2	5.6	7	
RE 63526	1.3	38.6	6.7	51.1	72	4	1	480	5.40	130.8	<5	17	4	<.01	<.2	<.1	15	<.01	.004	25	31	1.05	29 .01	<3	1.75	.02	.16	2	<.2	<10	<.3	<.2	5.9	5	
63527	1.4	14.5	4.1	64.7	<30	20	6	242	2.92	28.3	<5	6	3	.02	<.2	<.1	10	.08	.010	12	25	.71	12<.01	<3	1.49	.01	.07	5	.2	<10	<.3	<.2	4.1	4	
63528	.6	10.1	12.4	39.8	<30	25	11	603	1.81	17.3	<5	9	9	.05	<.2	<.1	9	.66	.010	60	29	.47	<1<.01	<3	.96	.01	.01	5	<.2	<10	<.3	<.2	2.8	5	
63529	2.5	36.5	30.0	63.3	110	31	16	215	2.43	4.4	<5	6	2	.30	<.2	.2	5	.04	.011	43	26	.45	5<.01	<3	.91	<.01	.03	4	<.2	<10	<.3	<.2	2.3	6	
63530	.6	11.8	12.4	37.0	47	22	10	327	1.67	4.1	<5	12	8	.06	<.2	<.1	6	.13	.012	60	22	.33	24 .01	<3	1.09	<.01	.10	3	<.2	<10	<.3	<.2	2.1	5	
63531	1.3	36.9	34.2	85.1	86	26	15	638	3.77	.6	<5	8	49	.08	<.2	.1	21	.24	.010	41	30	1.15	195 .01	<3	2.09	.06	.11	3	<.2	<10	<.3	<.2	6.1	5	
63532	1.6	58.3	28.2	133.7	78	58	25	822	5.05	19.3	<5	15	9	.19	.9	.3	12	.10	.036	27	26	1.19	44 .01	<3	1.92	.04	.17	<2	<.2	<10	.6	.3	4.4	2	
63533	.9	37.6	14.9	77.2	42	15	10	277	4.66	.5	<5	18	11	.05	<.2	.2	18	.01	.028	25	35	1.14	64 .02	3	2.35	.03	.24	<2	<.2	<10	<.3	<.2	5.8	5	
63534	.7	26.6	3.9	55.0	<30	19	8	387	3.44	2.2	<5	16	9	.02	<.2	<.1	15	.06	.034	19	27	.93	37 .02	<3	1.78	.06	.16	2	<.2	<10	<.3	<.2	5.5	6	
63535	1.3	304.1	32.4	86.2	<150	<.1	<.1	87	43.49	<2.5	<.5	38	2	.09	<.1	<.5	6	<.01	.042	9	23	.05	26<.01	<3	.55	<.01	.06	<2	<.1	62	<1.5	<.1	3.1	6	
63536	.7	7.4	.7	9.3	<30	2	<.1	25	.42	2.3	<.5	<2	<.1	.02	<.2	<.1	1	<.01	.002	1	16	<.01	<1<.01	<3	.02	<.01	<.01	5	<.2	<10	<.3	<.2	<.5	7	
63537	1.3	30.7	5.5	190.9	<30	21	12	93	6.70	3.3	<.5	7	1	.04	.3	<.1	3	<.01	.016	19	18	.01	2<.01	<3	.29	<.01	.01	4	<.2	<10	<.3	<.2	1.2	4	
63538	1.6	11.9	48.6	26.9	197	6	2	38	1.26	24.6	<.5	8	10	.05	3.5	.4	6	<.01	.009	27	17	.07	55<.01	<3	.55	.01	.19	3	.2	11	<.3	<.2	3.3	3	
63539	.9	23.6	11.0	37.9	98	7	4	190	2.43	6.7	<.5	8	15	.14	<.2	.5	11	<.01	.025	16	20	.52	51 .02	5	1.47	.04	.22	2	<.2	<10	<.3	<.2	3.9	2	
63540	2.5	43.8	16.7	52.6	85	4	2	200	3.41	3.0	<.5	11	10	.05	.6	.4	13	<.01	.015	12	28	.83	56 .01	<3	1.73	.02	.19	<2	.2	<10	.5	<.2	7.2	1	
63541	2.0	14.4	5.8	14.4	<30	7	2	71	.78	3.5	<.5	<2	2	.01	<.2	<.1	1	<.01	.004	2	23	.05	<1<.01	<3	.15	<.01	.01	7	<.2	<10	<.3	<.2	<.5	1	
STANDARD D2/HG-500/AU-R	25.2	125.1	101.2	270.3	1922	29	17	1011	4.44	79.4	22	19	55	2.14	9.8	22.2	71	.71	.110	17	54	1.18	255 .14	28	2.26	.06	.68	17	2.7	459	.5	2.1	6.7	450	

ICP - 30 GRAM SAMPLE IS DIGESTED WITH 180 ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 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 GA AND AL. SOLUTION ANALYSED DIRECTLY BY ICP. MO CU PB ZN AG AS AU CD SB BI TL HG SE TE AND GA ARE EXTRACTED WITH MIBK-ALIQUNT 336 AND ANALYSED BY ICP. ELEVATED DETECTION LIMITS FOR SAMPLES CONTAIN CU,PB,ZN,AS>1500 PPM,Fe>20%.  
 - SAMPLE TYPE: P1 TO P2 ROCK P3 TO P11 SOIL AU+ - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.  
 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 28 1997 DATE REPORT MAILED: *Aug 8/97* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of the analysis only.

Date *1* FA



ACME ANALYTICAL

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U 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	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
3703	.6	3.7	.6	8.6	<30	5	1	73	.28	2.8	<5	<2	<1	<.01	<.2	<.1	1	.01	.002	1	26	.01	5<.01	<3	.03	<.01	<.01	7	<.2	<10	<.3	<.2	<.5	<.1	
3704	1.7	3.4	2.3	13.0	<30	6	2	73	.64	1.3	<5	4	3	.01	<.2	<.1	2<.01	.005	8	20	.01	5<.01	<3	.13	<.01	.03	6	<.2	<10	<.3	<.2	<.5	1		
3705	.5	4.5	5.8	8.1	40	3	1	35	.49	2.8	5	<2	<1	.01	<.2	<.1	1<.01	.001	1	23	.04	6<.01	<3	.08	<.01	<.01	5	<.2	10	<.3	<.2	<.5	1		
3706	<1	9.0	18.5	7.6	<300	4	7	57	2.78	20659.1	<5	3	6	<.1	<2	<1	1<.01	.002	28	14	.10	20<.01	<3	.38	<.01	.02	4	<2	<10	<3	<2	<5	1360		
3707	<1	19.3	37.1	14.7	731	4	3	47	5.73	57795.6	<5	6	2	<.1	9.1	<1	2<.01	.006	11	17	.04	11<.01	<3	.26	<.01	.04	9	<2	<10	<3	<2	<5	4120		
3708	1.4	31.0	37.9	18.0	1754	15	6	64	1.64	11056.7	<5	8	5	.11	2.7	<1	1	.02	.008	28	13	.02	59<.01	3	.32	<.01	.03	4	<2	<10	<3	<2	<5	8740	
3709	.6	10.2	5.5	45.3	99	5	3	281	2.40	125.7	<5	3	1	.01	.4	.4	6	.02	.009	7	19	.55	4<.01	<3	1.17	<.01	.01	5	<.2	<10	.3	<.2	3.6	68	
3710	1.9	3.7	<.3	2.3	35	6	1	42	.24	50.2	6	<2	<1	<.01	.2	<.1	<1<.01	.001	1	19	.01	4<.01	<3	.03	<.01	<.01	6	<.2	<10	<.3	<.2	<.5	27		
4200	.7	7.1	12.2	18.0	30	9	3	353	1.35	33.3	<5	6	3	.04	.2	.1	4	.01	.011	13	22	.16	9<.01	<3	.80	<.01	.02	5	<.2	<10	<.3	<.2	1.5	14	
RE 64200	.7	6.8	10.6	17.6	<30	6	3	346	1.34	31.8	<5	6	3	<.01	.2	<.1	4	.01	.011	13	21	.16	14<.01	<3	.80	<.01	.02	5	<.2	<10	<.3	<.2	1.6	9	
4202	1.6	34.4	110.8	15.8	2604	11	6	110	3.25	310.1	<5	2	2	.18	.9	11.0	1	.03	.003	3	23	.02	4<.01	4	.11	<.01	.02	6	<.2	<10	.6	.3	<.5	10	
4207	<1	8.0	21.5	5.3	<300	7	2	37	5.12	94898.8	<5	5	1	<.1	22.4	<1	1<.01	.003	4	23	<.01	10<.01	5	.16	.01	.05	14	<2	<10	<3	<2	<5	1241		
4208	1.4	37.1	4.0	20.2	39	9	3	46	3.13	47.7	<5	7	1	.02	.3	.1	1<.01	.013	1	17	.01	3<.01	4	.26	<.01	<.01	5	<.2	<10	<.3	<.2	<.5	14		
4209	.7	50.0	14.2	63.0	147	47	13	156	5.61	65.9	<5	5	1	.07	8.4	<.1	9<.01	.024	11	22	.01	7<.01	<3	.31	<.01	.01	5	<.2	14	.4	<.2	1.7	15		
4210	1.4	27.8	3.5	130.1	82	24	9	83	4.01	15.0	<5	6	2	<.01	1.2	<.1	3<.01	.009	19	17	.03	12<.01	<3	.29	<.01	.04	4	<.2	<10	<.3	<.2	.8	9		
4375	.8	10.3	3.2	34.4	38	5	2	153	1.48	23.5	<5	3	1	<.01	.2	<.1	4<.01	.012	10	25	.32	3<.01	<3	.56	<.01	.02	6	<.2	<10	<.3	<.2	1.6	7		
4376	1.8	18.1	6.7	20.1	<30	6	1	206	1.26	2.5	<5	2	4	<.01	1.8	<.1	1	.03	.015	1	19	.29	3<.01	<3	.33	<.01	<.01	931	<.2	<10	1.2	<.2	2.2	3	
STANDARD	25.2	124.9	99.3	265.8	1887	32	17	1011	4.51	76.8	20	19	57	2.16	9.3	22.4	70	.72	.104	17	52	1.20	265	.14	27	2.30	.05	.70	17	2.7	435	.5	2.0	6.5	531

Standard is STANDARD D2/HG-500/AU-R. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



GEOCHEMICAL EXTRACTION-ANALYSIS CERTIFICATE

Phelps Dodge Corp. PROJECT 209 File # 97-3893 Page 3

1409 - 409 Granville St., Vancouver BC V6T 1T2 Submitted by: R. Cameron

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Se	Te	Ga	Au+
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppb	ppm	ppm	ppm	ppb
62409	.7	47.1	35.8	146.5	79	71	32	607	4.74	56.2	<5	13	8	.14	.4	.4	16	.17	.056	78	30	1.16	19	.01	<3	2.31	.01	.03	<2	<2	12	<3	<2	6.4	51
62410	1.0	41.7	37.4	112.0	61	48	41	1048	4.97	46.1	<5	10	5	.15	.5	.4	17	.08	.072	57	31	1.09	19	<.01	4	2.19	.01	.04	<2	<2	<10	<3	.2	6.8	10
62411	.7	60.8	33.3	129.2	79	52	19	547	4.75	59.7	6	12	5	.09	.4	.4	16	.09	.064	92	30	1.10	24	.01	<3	2.38	.01	.03	<2	<2	13	<3	.2	6.7	11
62412	2.1	44.4	34.6	112.3	60	37	22	850	6.31	35.8	<5	8	9	.18	1.0	.6	19	.11	.090	43	32	.85	31	.01	<3	2.16	.01	.05	<2	<2	40	5	.2	6.4	2
62413	1.7	32.4	44.7	72.3	84	15	14	2050	6.30	17.8	<5	5	7	.08	.9	.4	26	.07	.124	32	26	.58	57	.01	<3	1.99	.01	.04	<2	<2	26	.4	.2	8.2	<1
62414	.9	16.7	17.6	41.2	51	13	7	483	2.58	43.7	<5	<2	6	.07	.4	.2	19	.05	.104	24	14	.26	26	.01	3	.99	.01	.04	<2	<2	21	<3	<2	4.8	1
62415	1.1	32.2	32.1	74.9	91	28	17	969	3.56	145.2	<5	4	8	.11	.6	.3	15	.14	.119	33	22	.69	36	.01	<3	1.89	.01	.04	<2	<2	34	<3	<2	5.2	1
62416	.6	10.2	10.3	23.4	117	5	7	1417	1.21	8.6	<5	<2	6	.20	.2	.1	12	.03	.150	10	6	.08	76	<.01	<3	.56	.02	.03	<2	<2	30	<3	<2	3.0	<1
62417	.5	14.2	12.7	35.1	180	10	8	1787	2.40	15.7	<5	<2	4	.07	.3	.2	14	.02	.194	19	12	.26	50	.01	<3	.93	.01	.04	<2	<2	44	<3	<2	4.0	1
62418	.6	17.6	16.5	39.3	121	11	6	810	3.50	32.1	<5	3	5	.08	.3	.3	16	.02	.177	28	17	.32	31	.01	<3	1.13	.01	.03	<2	<2	46	<3	<2	4.8	1
62419	.7	12.2	17.6	32.2	149	11	9	1351	2.60	11.3	<5	<2	4	.08	.2	.2	17	.02	.152	19	14	.27	36	.01	<3	.97	.01	.04	<2	<2	47	<3	<2	4.7	<1
62420	.8	10.6	12.7	30.8	195	9	3	272	2.72	18.8	<5	<2	4	.01	.3	.2	19	.02	.116	26	13	.27	27	.01	<3	.81	.01	.03	<2	<2	40	<3	<2	6.0	2
62421	.3	4.5	3.8	6.9	81	1	1	52	.36	1.6	<5	<2	5	.02	<.2	.1	9	.02	.051	15	3	.03	20	.01	<3	.27	.01	.03	<2	<2	20	<3	<2	2.3	<1
62422	.7	6.0	3.9	9.7	66	4	1	62	.62	6.3	<5	<2	4	<.01	.2	.1	13	.01	.034	18	3	.04	13	.01	<3	.29	.01	.02	<2	<2	32	<3	<2	3.2	9
62423	.4	13.6	9.6	31.8	194	8	3	171	2.41	18.9	<5	2	4	<.01	.3	.1	12	.02	.061	18	12	.30	17	.01	<3	.84	.01	.02	<2	<2	40	<3	<2	3.6	9
62424	1.0	53.5	35.2	122.7	123	52	46	1019	5.23	49.7	<5	12	6	.19	.5	.4	17	.08	.075	68	32	1.17	22	.01	<3	2.41	.01	.05	<2	<2	43	<3	.2	6.1	9
62425	.6	10.9	7.9	26.4	130	7	2	138	2.00	12.3	<5	<2	5	<.01	.2	.2	12	.02	.069	16	12	.27	27	.01	<3	.97	.02	.02	<2	<2	42	<3	<2	3.9	18
RE 62425	.6	11.9	7.6	25.9	132	6	2	135	1.97	10.1	5	<2	5	<.01	.2	.2	12	.02	.069	16	12	.26	27	.01	<3	.94	.01	.02	<2	<2	49	<3	<2	3.6	1
62426	.8	22.9	22.6	87.1	88	28	12	649	4.25	284.5	<5	8	10	.07	.5	.4	16	.25	.102	38	28	.86	46	.01	<3	2.09	.01	.04	<2	<2	<10	<3	<2	6.8	23
62427	.9	18.8	16.4	50.6	69	13	6	341	3.18	35.2	<5	2	5	.05	.4	.4	19	.02	.064	32	25	.59	36	.01	<3	1.68	.01	.04	<2	<2	28	<3	<2	6.4	21
62428	.8	19.8	18.1	42.7	79	15	7	390	2.67	11.0	<5	2	5	.05	.5	.3	15	.03	.081	21	19	.45	27	.01	<3	1.34	.02	.03	<2	<2	33	<3	<2	4.5	8
62429	1.0	14.9	14.1	40.9	79	12	7	591	3.21	12.1	<5	<2	7	.12	.4	.4	21	.03	.124	21	24	.39	32	.01	<3	1.28	.01	.04	<2	<2	25	<3	<2	6.1	<1
62430	1.0	76.0	50.1	98.2	72	56	37	1171	6.21	31.6	<5	10	4	.06	1.0	.9	19	.03	.095	53	33	1.05	20	.01	<3	2.23	.01	.03	<2	<2	23	<3	.4	6.6	2
62431	1.0	14.8	9.8	16.1	128	2	1	112	2.48	3.8	5	<2	6	.08	.3	.2	16	.02	.081	10	13	.07	27	.01	<3	.66	.01	.02	<2	<2	35	<3	<2	5.4	<1
62432	1.4	39.4	27.4	51.3	148	9	3	225	4.86	6.8	<5	4	30	.03	.6	.5	21	.02	.113	19	25	.47	55	.01	<3	1.82	.01	.02	<2	<2	45	.5	.2	5.2	2
62433	1.2	34.6	21.5	61.6	62	18	7	364	4.82	30.2	<5	3	7	.03	.4	.3	23	.02	.077	31	29	.71	23	.02	<3	1.95	.01	.03	<2	<2	34	.3	<2	6.5	2
62434	1.2	25.8	13.7	44.0	68	9	3	232	3.92	25.5	<5	<2	7	.04	.4	.3	20	.02	.079	18	24	.43	25	.01	<3	1.58	.01	.03	<2	<2	38	.3	<2	5.8	2
62435	1.6	34.4	35.2	50.9	64	10	3	299	5.60	79.3	<5	3	13	.02	.8	.5	20	.01	.078	29	26	.46	32	.01	<3	1.52	.01	.03	<2	<2	39	.4	.2	6.9	3
62436	1.4	24.9	23.4	50.1	160	9	4	297	5.54	47.8	<5	3	7	.05	.6	.4	24	.01	.075	32	28	.46	30	.01	<3	1.51	.01	.03	<2	<2	27	<3	.3	7.0	2
62437	.5	6.5	4.6	12.9	121	3	1	76	.89	10.0	5	<2	6	.12	.2	<.1	12	.03	.040	6	4	.06	13	.02	<3	.42	.03	.03	<2	<2	17	<3	<2	3.3	8
62438	1.2	17.0	23.3	28.3	170	4	3	267	2.96	7.6	<5	<2	6	.04	.5	.4	17	.02	.098	21	18	.27	34	.01	<3	1.05	.01	.04	<2	<2	31	.4	<2	4.3	<1
62439	1.1	16.2	17.1	30.4	208	6	6	579	2.51	10.4	<5	<2	7	.05	.4	.3	22	.02	.083	27	12	.11	44	.01	<3	.84	.01	.04	<2	<2	19	.3	.2	5.7	<1
62440	1.2	92.4	49.0	327.2	829	60	27	10305	15.91	18.0	<5	3	5	.24	.4	.2	24	.01	.293	36	23	.09	179	.02	<3	1.80	.01	.05	<2	.3	74	.9	.2	6.3	1
62441	2.2	74.4	36.9	117.7	98	65	45	1382	4.86	62.2	<5	9	7	.14	<.6	<.3	17	.15	.066	79	29	1.17	28	.01	<3	2.32	.01	.04	<2	<.6	<10	<.9	<.6	16.2	34
62442	.9	35.7	24.8	55.8	89	11	5	354	3.76	15.7	<5	6	14	.02	.4	.3	21	.04	.079	34	23	.54	32	.02	<3	1.60	.02	.06	<2	<2	11	.3	<2	5.0	1
STANDARD	25.2	124.0	99.8	267.7	2099	31	15	1014	4.57	72.8	18	18	57	2.07	9.1	22.9	70	.72	.111	17	53	1.20	249	.14	21	2.29	.06	.71	18	2.7	479	.6	2.1	8.1	55

Standard is STANDARD D2/HG-500/AU-S.

ICP - 15 GRAM SAMPLE IS DIGESTED WITH 90 ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 300 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 GA AND AL. SOLUTION ANALYSED DIRECTLY BY ICP. MO CU PB ZN AG AS AU CD SB BI TL HG SE TE AND GA ARE EXTRACTED WITH MIBK-ALIQAT 336 AND ANALYSED BY ICP. ELEVATED DETECTION LIMITS FOR SAMPLES CONTAIN CU,PB,ZN,AS>1500 PPM,Fe>20%. - SAMPLE TYPE: P1 TO P2 ROCK P3 TO P11 SOIL AU+ - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 28 1997 DATE REPORT MAILED: Aug 8/97 SIGNED BY: C. Leong, J. Wang; D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

All results are considered the confidential property of the client. Ache assumes the liabilities for actual cost of the analysis only.

Data FA



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U 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	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
62443	1.2	53.5	47.7	70.5	139	19	7	370	4.85	34.9	<5	7	10	.08	.8	.5	21	.02	.083	35	30	.75	38	.02	<3	2.30	<.01	.04	<2	<.2	32	.8	.2	4.9	3
62444	1.0	45.5	49.5	69.6	73	14	6	383	5.55	115.1	<5	9	13	.05	.5	.5	23	.02	.091	43	32	.75	36	.01	<3	1.88	<.01	.03	3	<.2	10	.4	.3	5.5	3
62445	.7	15.0	30.1	21.9	55	3	2	162	1.63	42.9	<5	<2	6	.05	.2	.2	13	.02	.084	17	9	.08	25	.01	<3	.61	.01	.03	3	<.2	20	.3	<.2	3.4	<1
62446	1.0	41.7	29.8	61.2	132	15	5	333	4.63	83.3	<5	4	5	.07	.6	.4	18	.01	.070	31	22	.54	31	.01	<3	1.45	<.01	.03	8	<.2	10	<.3	.2	5.2	<1
62447	.8	43.0	47.1	88.0	202	17	9	401	4.31	131.0	<5	15	6	.17	.7	.5	12	.09	.056	53	25	.83	17	<.01	<3	1.59	<.01	.03	2	<.2	<10	<.3	.3	4.2	7
62448	.9	75.5	137.6	97.5	353	25	10	425	6.07	1101.9	<5	11	14	.15	.7	.6	22	.03	.083	71	32	.89	43	.02	<3	2.18	.01	.03	<2	<.2	<10	<.3	.3	5.4	1259
62449	.9	32.0	33.0	71.5	44	23	8	366	4.29	387.9	5	5	5	.07	.6	.3	19	.02	.049	45	24	.59	26	.01	3	1.42	.01	.02	<2	<.2	<10	.3	.2	4.8	54
62450	.9	60.1	30.2	82.0	123	26	9	458	5.77	1073.6	<5	7	6	.07	.5	.3	18	.01	.079	59	28	.81	43	.01	3	2.05	.01	.02	<2	<.2	16	.3	.2	5.6	124
62451	.6	10.6	11.7	21.2	51	7	3	114	1.43	49.9	<5	<2	4	.03	.2	.2	13	.02	.070	11	8	.15	12	.01	<3	.75	.01	.02	<2	<.2	20	<.3	<.2	2.6	4
62452	.8	10.3	11.3	24.5	100	7	4	522	1.71	7.0	<5	<2	5	.10	.3	.2	18	.03	.087	13	10	.09	31	.01	<3	.68	.01	.04	<2	<.2	25	.3	<.2	4.3	2
62453	1.4	72.7	49.1	90.3	147	28	13	351	5.52	265.5	<5	15	7	.10	1.5	.6	20	.03	.082	40	27	.61	32	.01	<3	1.67	.01	.03	<2	<.2	<10	.4	.4	4.6	101
62454	.7	35.9	24.3	74.6	182	29	7	351	3.46	534.2	<5	6	8	.11	.3	.2	15	.06	.067	57	25	.78	40	.01	<3	1.89	.01	.04	2	<.2	22	<.3	.2	4.5	53
62455	1.0	32.7	37.0	71.2	114	25	9	527	3.97	571.6	<5	3	6	.08	.5	.3	21	.03	.085	36	24	.63	32	.01	<3	1.73	.01	.03	3	<.2	<10	.4	.2	5.3	96
62456	.8	30.8	25.7	73.6	73	23	7	442	4.19	440.0	<5	5	7	.06	.4	.3	20	.04	.070	46	26	.69	30	.01	<3	1.74	.01	.04	<2	<.2	<10	<.3	<.2	6.8	22
62457	1.9	78.4	68.5	126.9	95	77	51	1133	6.81	100.6	<5	14	7	.11	1.2	.8	18	.02	.078	43	29	.83	36	.01	<3	2.12	<.01	.03	<2	<.2	14	.7	.4	6.2	9
RE 62457	1.8	75.3	66.9	128.0	112	77	52	1130	6.78	99.9	5	13	7	.12	1.3	.8	18	.01	.079	43	31	.84	33	.01	<3	2.14	<.01	.04	<2	<.2	<10	.7	.4	6.4	6
62458	1.3	34.4	36.3	74.7	81	31	19	758	3.89	40.3	<5	2	7	.09	.6	.4	19	.03	.080	31	22	.61	41	.02	<3	1.78	.01	.04	<2	<.2	22	.6	<.2	5.1	9
62459	.9	31.3	31.6	55.2	106	10	5	322	3.44	228.3	<5	4	7	.09	.5	.4	14	.04	.080	27	21	.60	22	.01	<3	1.44	.01	.04	<2	<.2	17	.3	<.2	4.5	13
62460	1.3	38.9	49.9	56.6	253	14	6	286	4.00	455.8	<5	9	7	.08	1.3	.6	14	.02	.068	48	19	.46	28	.01	<3	1.25	<.01	.03	3	<.2	<10	.5	.3	4.3	46
62461	1.3	48.2	28.1	105.6	69	42	13	568	5.78	643.4	<5	12	8	.05	.4	.4	22	.04	.076	71	35	1.03	37	.01	<3	2.40	<.01	.03	<2	.5	<10	.5	.2	6.3	124
62462	1.5	40.8	32.6	74.5	102	27	10	394	4.38	509.9	<5	15	7	.03	.5	.4	17	.05	.069	58	23	.64	31	.01	<3	1.61	.01	.03	<2	.5	11	.7	.2	5.1	19
62463	1.2	36.9	35.8	81.9	57	26	8	523	5.03	233.9	<5	11	7	.05	.5	.5	18	.02	.057	66	31	.85	23	.01	<3	1.95	<.01	.02	<2	<.2	10	.4	.2	6.5	19
62464	.7	18.0	17.4	72.4	<30	22	6	465	4.74	19.4	<5	6	5	.01	.4	.4	23	.03	.066	31	35	.91	26	.01	<3	2.12	.01	.03	<2	<.2	<10	.3	<.2	7.9	4
62465	.9	17.3	18.6	42.7	72	15	3	229	3.03	10.2	<5	<2	6	.03	.4	.4	21	.03	.079	21	23	.52	31	.01	<3	1.51	.01	.03	<2	<.2	11	.5	<.2	6.9	<1
62466	.9	24.4	24.5	43.9	83	9	4	253	3.05	6.3	<5	2	7	.02	.4	.5	15	.02	.066	34	23	.60	43	.01	<3	1.67	.02	.03	<2	.2	<10	.4	<.2	7.0	1
62467	1.0	38.8	33.1	81.7	55	29	9	440	4.60	14.3	5	8	7	.04	.8	.5	25	.04	.062	41	33	.97	37	.02	<3	2.18	.01	.04	<2	<.2	<10	.3	<.2	8.7	2
62468	1.1	32.8	29.9	48.8	94	15	4	255	3.54	13.5	<5	2	7	.05	.4	.4	19	.03	.083	42	24	.57	40	.01	<3	1.80	.02	.03	<2	<.2	15	.5	<.2	7.5	1
62469	1.0	47.9	53.0	94.3	101	40	19	564	4.28	14.7	<5	4	9	.12	.4	.4	23	.07	.076	69	31	.80	57	.01	<3	2.33	.01	.05	<2	<.2	15	.4	<.2	8.0	9
62470	.7	32.4	38.7	68.6	103	29	8	291	3.42	10.6	<5	4	8	.06	.4	.4	22	.08	.075	53	27	.68	48	.02	<3	1.94	.01	.04	<2	<.2	<10	.4	<.2	6.5	1
62471	1.0	23.7	30.8	70.2	62	23	10	611	4.26	10.8	<5	3	6	.08	.4	.4	23	.03	.081	29	30	.68	30	.01	<3	1.93	.01	.03	<2	<.2	<10	.4	<.2	7.2	<1
62472	1.2	46.8	31.2	85.9	37	29	13	499	4.95	10.6	<5	10	6	.05	.7	.5	18	.02	.063	28	27	.82	38	.01	<3	1.74	.01	.03	<2	<.2	<10	.6	.2	6.1	3
62473	1.6	31.1	24.4	60.3	111	15	5	424	4.49	241.9	9	2	9	.07	.5	.5	23	.03	.120	34	25	.43	46	.01	3	1.47	<.01	.05	<2	.2	16	.5	.3	8.4	18
62474	.5	33.9	14.9	60.8	50	23	12	368	2.49	9.4	<5	2	6	.04	.7	.4	15	.08	.065	31	16	.46	32	.01	<3	1.39	.02	.02	<2	.2	<10	.3	<.2	4.6	3
62475	.5	30.8	35.0	66.3	62	35	18	628	2.71	19.0	<5	10	6	.06	.4	.3	11	.10	.065	49	16	.55	27	.01	<3	1.41	.01	.03	<2	<.2	<10	<.3	<.2	4.2	20
62476	.6	9.0	10.7	22.9	33	10	5	340	1.22	3.8	<5	<2	5	.04	<.2	.1	13	.03	.056	13	6	.13	19	.01	<3	.71	.02	.02	<2	<.2	20	<.3	<.2	3.2	109
STANDARD	24.7	118.6	99.3	263.3	2068	30	16	996	4.52	77.3	14	18	58	2.19	8.4	22.6	71	.74	.108	17	55	1.18	255	.14	23	2.28	.05	.68	17	2.8	425	.7	2.3	7.3	52

Standard is STANDARD D2/HG-500/AU-S. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U 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	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
62477	.5	21.6	17.2	32.0	121	12	4	167	1.86	120.5	<5	<2	6	.05	1.1	.3	12	.03	.071	18	10	.18	30	.01	<3	1.03	.02	.02	<2	<2	37	.4	.2	3.8	155
62478	.9	70.7	41.7	81.9	161	32	11	337	4.06	31.6	<5	9	6	.07	1.4	.6	18	.05	.083	53	25	.72	24	.01	<3	1.90	.01	.03	<2	<2	<10	.4	.3	6.4	12
62479	.5	11.1	9.6	26.1	55	5	2	169	1.44	10.1	7	<2	5	.04	.3	.3	13	.02	.060	14	10	.16	29	.01	<3	1.08	.01	.03	<2	<2	18	<.3	<.2	3.5	1
62480	.9	15.9	16.3	35.5	71	9	4	204	2.53	7.2	<5	<2	5	.09	.5	.3	19	.03	.077	15	13	.19	26	.01	<3	.77	.01	.03	<2	<2	29	<.3	<.2	4.4	1
62481	.7	15.4	15.6	30.4	76	10	4	236	2.73	10.6	<5	<2	5	.07	.3	.2	18	.03	.076	14	18	.17	23	.01	<3	1.19	.01	.03	<2	<2	38	.4	<.2	5.2	<1
62482	.4	5.2	3.5	11.6	<30	2	1	116	.65	2.1	<5	<2	6	.04	<.2	.1	11	.03	.040	6	3	.03	18	.01	<3	.45	.01	.02	<2	<2	17	<.3	<.2	3.4	<1
62483	.6	10.8	9.8	25.8	82	5	5	458	1.11	7.6	<5	<2	5	.09	.3	.1	15	.02	.058	9	6	.05	45	.01	<3	.45	.01	.03	<2	<2	13	<.3	<.2	3.1	<1
62484	.9	41.5	38.8	88.4	61	35	16	848	5.38	24.6	<5	4	4	.06	.6	.7	23	.02	.080	31	34	.85	34	.01	4	2.17	<.01	.02	<2	<2	13	<.3	.2	7.3	<1
62485	.4	7.7	8.8	18.7	117	6	2	89	.83	1.9	<5	<2	5	.03	<.2	.2	12	.04	.035	7	6	.14	17	.02	<3	.52	.02	.03	<2	<2	<10	<.3	<.2	3.0	1
62486	1.1	52.5	75.5	74.0	116	28	9	534	4.04	51.8	<5	15	6	.04	.9	.8	16	.06	.079	50	28	.86	15	.01	<3	2.28	.01	.03	<2	<2	18	<.3	.2	6.8	3
RE 62486	.9	52.6	74.7	77.3	105	32	8	547	4.15	53.4	5	16	5	.06	.8	.7	17	.06	.080	51	27	.88	20	.01	3	2.33	.01	.03	<2	<2	17	<.3	.2	6.3	3
62487	.7	30.0	28.8	60.7	71	24	6	256	3.38	141.9	<5	5	6	.04	.6	.5	19	.02	.056	29	23	.59	39	.01	<3	1.79	.01	.03	2	<.2	22	<.3	<.2	6.4	106
62488	.9	19.2	21.4	61.4	79	15	5	313	3.53	44.3	<5	<2	6	.09	.7	.4	25	.03	.084	24	18	.33	50	.01	4	1.45	<.01	.03	<2	<2	20	<.3	<.2	6.5	61
62489	.9	54.0	59.4	86.1	89	22	7	510	6.30	51.3	<5	13	5	.02	1.3	.7	18	<.01	.073	62	37	1.01	36	.01	8	2.54	<.01	.03	<2	<2	15	<.3	<.2	6.9	76
62490	1.1	15.4	13.4	33.4	84	8	5	451	3.30	15.4	<5	<2	7	.15	.3	.3	20	.02	.122	20	20	.18	38	.01	3	1.19	.01	.03	<2	<2	28	.6	<.2	7.2	4
62491	.6	16.9	16.9	31.3	131	7	7	731	2.01	7.6	<5	<2	7	.09	.5	.2	19	.04	.101	19	10	.11	35	.01	<3	.58	.01	.05	<2	<2	25	<.3	<.2	3.9	5
62492	.8	15.7	13.5	41.5	80	11	4	246	2.93	22.9	<5	<2	6	.17	.4	.3	17	.03	.080	23	18	.30	30	.01	6	1.39	.01	.03	<2	<2	36	<.3	<.2	5.4	12
64211	1.2	34.0	29.5	91.7	323	25	9	491	5.38	30.2	<5	4	9	.20	.6	.8	26	.05	.073	28	29	.63	44	.03	<3	2.22	<.01	.05	<2	<2	57	.5	<.2	5.1	3
64212	1.3	32.6	20.2	61.3	233	13	7	406	3.36	21.0	<5	5	10	.18	.5	.8	19	.05	.077	27	16	.46	27	.02	<3	1.31	<.01	.04	<2	<2	23	.4	<.2	3.8	1
64213	1.3	44.5	34.4	80.8	195	21	9	335	4.56	31.4	<5	11	10	.12	.6	.5	19	.03	.072	40	25	.77	32	.01	<3	1.82	.01	.05	<2	<2	26	.5	<.2	5.2	4
64214	.9	24.3	27.9	42.8	220	11	2	138	2.46	5.5	<5	5	8	.04	.3	.3	12	.03	.051	23	16	.45	37	.01	<3	1.37	.02	.05	<2	<2	22	.3	<.2	3.9	2
64215	1.4	26.4	38.2	74.2	192	17	6	307	5.93	11.1	<5	8	8	.09	.6	.5	31	.03	.057	27	33	.63	40	.02	<3	1.78	<.01	.05	<2	<2	30	.4	<.2	8.1	1
64216	1.0	35.6	28.0	58.6	92	8	3	242	4.52	7.4	<5	9	7	.02	.3	.3	22	.04	.062	39	26	.74	18	.01	<3	1.69	.01	.03	<2	<2	15	.3	<.2	5.0	<1
64217	1.3	49.9	34.8	85.1	107	18	11	318	5.73	47.0	<5	17	7	.09	.6	.4	17	.01	.055	50	31	.89	29	<.01	<3	1.85	<.01	.03	<2	<2	22	.4	<.2	5.2	2
64218	.8	19.2	16.3	35.9	64	5	3	122	2.55	4.8	<5	2	8	.04	.2	.2	29	.08	.070	23	12	.28	26	.03	<3	1.04	.01	.02	<2	<2	18	<.3	<.2	3.8	1
64219	1.4	42.6	44.7	79.5	82	20	5	259	6.22	10.7	<5	18	7	.09	.6	.4	15	<.01	.075	52	30	.84	31	<.01	<3	1.82	<.01	.03	<2	.2	12	.4	<.2	4.9	2
64220	1.2	51.5	44.4	72.3	320	18	4	233	5.31	45.7	<5	15	6	.02	.5	.3	16	.01	.071	42	22	.59	36	<.01	4	1.72	.01	.04	<2	.2	14	.3	<.2	4.5	2
64221	.4	29.9	18.2	33.2	101	10	7	264	1.61	9.8	<5	<2	7	.04	.3	.1	13	.08	.064	9	10	.29	25	.02	<3	.94	.02	.03	<2	<2	18	<.3	<.2	2.7	<1
64222	1.3	170.1	100.3	151.3	229	66	66	1608	7.32	63.0	<5	10	6	.08	1.8	.9	20	.04	.094	22	38	1.21	23	<.01	<3	2.76	<.01	.03	<2	<2	32	<.3	.3	7.5	2
64223	.7	70.1	33.6	58.8	166	28	12	403	2.79	31.3	<5	2	7	.02	.5	.2	16	.08	.084	15	18	.58	17	.01	<3	1.53	.01	.03	<2	<2	17	<.3	<.2	3.9	<1
64224	1.5	215.3	90.3	150.5	271	74	59	1263	6.73	62.7	8	14	15	.08	1.4	.9	23	.06	.101	29	40	1.22	37	.01	5	2.91	.02	.06	<2	<2	<10	.3	<.2	7.7	1
64225	1.7	112.7	79.9	131.9	172	67	50	2433	6.90	43.6	<5	16	5	.19	3.1	.4	17	.04	.059	23	36	1.05	45	<.01	3	2.53	.01	.05	<2	<2	18	.6	<.2	6.4	<1
64226	.7	40.3	43.5	83.2	<30	39	21	1061	4.13	49.3	<5	4	14	.07	.5	.2	15	.07	.056	18	28	1.07	27	<.01	<3	2.17	<.01	.03	<2	<2	15	<.3	<.2	4.9	5
64227	.6	33.8	28.3	77.5	50	43	15	677	3.79	34.1	<5	5	16	.10	.2	.3	15	.26	.068	16	26	1.14	19	<.01	<3	2.27	<.01	.03	<2	<2	12	<.3	<.2	5.3	5
64228	.7	30.1	20.8	42.8	<30	22	13	894	2.82	12.2	<5	<2	6	.02	.7	.2	21	.05	.093	10	18	.58	25	.02	<3	1.37	.01	.03	<2	<2	22	<.3	<.2	4.0	2
STANDARD	24.3	122.9	99.9	266.8	2147	30	16	1001	4.46	77.8	25	18	58	2.02	8.9	22.8	70	.73	.105	18	54	1.17	256	.14	26	2.31	.05	.70	18	2.9	438	.5	2.5	7.5	45

Standard is STANDARD D2/HG-500/AU-S. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U 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	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
64229	.7	44.5	31.4	47.7	65	27	9	406	2.33	3.1	<5	<2	5	.03	<.2	.3	12	.04	.057	6	19	.65	33	.01	<3	1.69	.01	.03	<2	<.2	20	.3	<.2	4.4	<1
64230	.7	22.5	31.8	35.6	<30	14	13	865	2.03	14.1	<5	<2	7	.02	.5	.2	12	.02	.054	8	12	.53	17	.01	<3	1.23	.01	.02	<2	<.2	29	<.3	<.2	4.1	<1
64231	.7	23.6	22.8	46.3	63	19	14	488	2.01	14.4	<5	4	4	.05	.3	.2	10	.03	.052	14	13	.50	22	.01	<3	1.30	.01	.03	<2	<.2	26	<.3	<.2	3.9	<1
RE 64231	.6	24.0	21.2	44.4	72	20	13	501	1.98	14.7	<5	3	3	.03	.3	.1	10	.03	.052	13	13	.49	22	<.01	<3	1.28	.01	.02	<2	<.2	18	<.3	<.2	3.8	3
64232	.7	58.1	33.5	95.3	68	56	26	2011	5.43	8.3	5	4	3	.05	.2	.4	22	.04	.101	18	42	1.49	34	<.01	<3	2.97	.01	.03	<2	<.2	12	<.3	.2	8.0	<1
64233	.3	8.6	3.4	6.9	37	2	1	86	.47	1.0	<5	<2	9	.02	<.2	.1	8	.07	.042	3	3	.06	20	.02	<3	.60	.04	.03	<2	<.2	<10	<.3	<.2	2.0	<1
64300	1.3	20.9	30.1	42.1	105	11	6	351	3.62	572.3	<5	<2	6	.09	.6	.3	26	.03	.089	18	19	.21	48	.02	<3	1.32	.01	.04	5	<.2	34	<.3	.3	6.9	7
64301	1.3	44.2	122.7	116.3	83	36	21	644	5.23	740.9	<5	8	8	.05	.5	.2	22	.02	.077	62	28	.69	34	.01	<3	1.94	.01	.03	<2	<.2	<10	<.3	<.2	7.8	91
64302	.8	19.1	22.7	30.2	117	10	6	214	1.71	69.8	<5	2	6	.02	.4	.2	10	.06	.054	20	8	.17	23	.02	<3	.98	.02	.03	<2	<.2	17	<.3	<.2	3.4	8
64303	.6	8.8	5.4	12.8	35	2	2	109	.84	10.3	<5	<2	7	.03	.2	<.1	12	.05	.043	5	4	.05	25	.02	<3	.67	.03	.04	<2	<.2	13	<.3	<.2	3.9	3
64304	1.5	53.4	39.3	88.7	59	30	12	489	5.59	77.1	<5	7	7	.12	1.0	.4	18	.02	.075	45	27	.68	28	.02	<3	1.69	<.01	.04	7	<.2	13	.3	.2	5.8	8
64305	1.5	65.0	37.5	74.3	87	18	10	350	4.93	41.6	6	16	15	.08	.8	.4	17	.02	.064	36	27	.66	44	.01	<3	1.66	.01	.03	2	.2	<10	.5	<.2	5.7	1
64306	1.5	41.4	36.5	64.8	75	14	6	341	4.31	36.7	<5	7	9	.04	.6	.3	19	.02	.066	33	26	.67	40	.01	<3	1.70	.01	.04	2	<.2	<10	.4	<.2	5.6	1
64307	.4	3.6	3.8	7.2	123	1	1	29	.36	.9	5	2	5	.01	<.2	<.1	10	.03	.035	3	2	.03	12	.01	<3	.14	.02	.02	<2	<.2	<10	<.3	<.2	1.3	<1
64308	1.4	27.2	23.4	64.2	56	20	8	336	4.35	45.7	5	<2	7	.07	.4	.3	32	.03	.057	26	31	.52	55	.02	<3	1.95	<.01	.04	<2	.2	27	.3	<.2	7.8	<1
64309	1.2	27.8	24.0	52.9	154	18	7	437	8.24	23.9	<5	3	6	.17	.3	.3	31	.02	.136	24	40	.39	34	.01	<3	2.02	.01	.03	<2	<.2	43	.6	<.2	12.0	2
64310	1.2	19.9	18.1	39.8	164	11	5	527	5.52	80.2	<5	<2	6	.09	.4	.3	27	.03	.118	21	27	.26	35	.01	4	1.52	.01	.03	<2	.2	43	.3	<.2	10.3	23
64311	.4	4.1	3.2	6.2	<30	<1	1	39	.54	1.8	<5	<2	7	<.01	<.2	<.1	12	.04	.034	4	3	.03	19	.02	<3	.64	.03	.03	<2	<.2	25	<.3	<.2	3.0	3
64312	.4	3.6	4.0	7.5	69	1	1	27	.55	9.1	<5	<2	5	.01	<.2	<.1	9	.02	.032	7	3	.04	22	.01	<3	.41	.02	.02	<2	.2	<10	<.3	<.2	2.7	2
64313	1.3	41.0	28.8	61.0	173	14	7	497	4.45	60.5	<5	3	8	.08	.6	.4	19	.02	.150	34	26	.50	40	.01	<3	1.69	.01	.04	<2	<.2	25	<.3	.2	6.8	9
64314	1.2	16.8	16.2	27.9	146	6	2	224	2.58	93.4	<5	<2	7	.07	.3	.3	19	.03	.089	23	14	.14	38	.01	<3	1.03	.01	.03	2	.2	37	<.3	.2	6.5	3
64315	.7	12.6	16.4	16.8	70	3	2	176	1.15	7.3	<5	2	9	.05	.2	.1	9	.08	.061	8	7	.16	24	.02	<3	.95	.03	.03	<2	<.2	20	<.3	<.2	2.3	<1
64316	1.0	30.5	23.8	52.7	55	8	3	346	3.83	17.0	<5	7	7	.02	.4	.3	17	.02	.061	21	24	.67	34	.01	<3	1.58	.01	.03	<2	.2	<10	.3	.2	5.9	4
64317	1.3	45.6	28.0	52.6	59	11	5	290	4.05	20.8	<5	8	11	.01	.5	.3	18	.04	.087	30	22	.55	32	.02	<3	1.52	.01	.03	<2	<.2	11	.4	<.2	5.5	2
64318	.5	13.2	8.4	14.7	<30	6	4	274	1.68	16.6	<5	<2	8	<.01	<.2	.1	12	.09	.062	10	9	.12	27	.01	4	.77	.02	.02	<2	<.2	14	<.3	<.2	4.4	1
64319	1.2	50.0	49.4	108.0	31	60	32	1047	6.73	42.3	<5	12	7	.08	.9	.9	18	.05	.095	42	37	1.14	30	.01	<3	2.53	.01	.02	<2	<.2	<10	<.3	.2	7.4	53
64320	1.0	42.5	33.9	87.7	<30	37	18	710	5.49	41.4	<5	6	4	.13	.5	.5	23	.03	.071	42	37	.90	25	.01	<3	2.34	<.01	.02	<2	.2	30	.3	<.2	7.8	4
64321	.5	12.5	13.5	62.5	58	22	5	417	3.71	18.4	<5	7	4	.06	<.2	.3	16	.02	.083	34	31	.77	30	.01	<3	1.97	.01	.03	<2	<.2	19	<.3	<.2	6.9	55
64322	.6	27.1	11.3	111.3	66	44	13	535	3.90	17.1	<5	10	8	.06	<.2	.2	13	.21	.044	51	30	.97	28	<.01	<3	2.15	.01	.03	<2	<.2	<10	<.3	<.2	5.9	13
64323	1.9	59.5	59.9	92.9	112	30	10	532	7.49	18.8	<5	12	15	.04	1.5	.5	18	.02	.085	27	30	.68	37	.01	<3	2.58	.01	.03	<2	.3	28	.6	.3	7.2	1
64324	.7	11.2	7.5	16.5	79	4	2	108	1.20	11.5	<5	<2	7	.04	<.2	.2	15	.04	.043	12	7	.11	48	.01	<3	1.14	.02	.03	<2	<.2	<10	<.3	<.2	4.9	1
64325	1.0	25.2	17.4	46.2	579	17	8	724	7.78	19.3	<5	3	5	.25	.2	.3	32	.03	.159	22	34	.41	33	.02	<3	1.63	.01	.03	<2	<.2	56	<.3	<.2	12.3	<1
64326	.9	32.0	16.4	51.2	77	16	6	285	3.33	16.2	<5	3	6	.03	.3	.2	17	.03	.063	19	19	.42	26	.01	<3	1.36	.01	.03	<2	<.2	19	<.3	<.2	5.8	1
64327	1.0	35.5	23.3	71.6	65	22	8	347	5.13	58.6	<5	8	5	.06	.5	.3	20	.01	.050	30	31	.70	33	.01	<3	1.92	<.01	.02	<2	<.2	22	.3	<.2	6.7	33
64328	1.1	26.9	18.6	49.9	149	12	4	324	4.74	19.0	6	4	5	.06	.3	.4	20	.02	.080	20	24	.46	33	.01	<3	1.55	.01	.03	<2	<.2	36	<.3	.2	7.4	1
STANDARD	24.5	123.6	97.9	267.7	2011	32	16	1010	4.52	74.2	21	18	56	2.13	9.2	22.1	70	.72	.109	17	53	1.19	257	.13	25	2.30	.06	.69	17	2.2	458	.5	2.1	7.1	53

Standard is STANDARD D2/HG-500/AU-S. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U 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	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
64329	.7	30.7	17.6	66.3	106	20	10	538	4.41	72.8	<5	8	3	.11	.8	.4	16	.02	.115	34	26	.80	20	.01	<3	1.83	<.01	.02	<2	<.2	<10	<.3	<.2	5.8	42
64330	1.0	25.1	19.6	77.5	37	25	10	542	5.50	55.9	<5	7	4	.07	.6	.4	18	.02	.076	35	33	.93	18	.01	<3	2.19	<.01	.02	<2	<.2	<10	<.3	<.2	6.1	5
64331	1.0	29.7	14.9	78.2	56	23	9	447	6.48	65.6	<5	7	3	.04	.9	.5	19	.01	.094	34	34	.99	9	.01	4	2.05	<.01	.02	<2	<.2	13	<.3	<.2	6.8	13
64332	1.0	23.1	15.7	49.0	45	15	8	599	3.94	30.9	<5	<2	5	.12	.5	.4	28	.02	.087	30	28	.48	38	.01	<3	1.68	<.01	.03	<2	<.2	14	<.4	<.2	7.0	1
64333	.5	25.9	15.0	46.7	98	16	8	498	2.97	31.9	<5	3	3	.04	.7	.4	14	.02	.129	27	16	.59	18	.01	<3	1.12	.01	.03	<2	<.2	19	<.3	<.2	4.3	10
64334	.5	7.3	4.6	16.3	<30	2	3	395	1.01	6.4	<5	<2	5	.05	.2	.2	12	.02	.098	9	6	.09	23	.01	<3	.49	.02	.03	<2	<.2	26	<.3	<.2	2.7	1
64335	.7	18.2	8.8	26.5	217	6	3	523	2.33	33.4	<5	<2	4	.07	.3	.4	23	.02	.115	16	9	.09	23	.01	<3	.55	.01	.03	<2	<.2	23	<.3	<.2	6.0	22
64336	1.1	29.6	19.0	44.8	106	7	4	149	5.15	14.2	<5	2	4	.04	.6	.6	20	.02	.085	15	21	.37	20	.01	<3	1.23	.01	.02	<2	<.2	41	.3	<.2	6.7	1
64337	1.3	26.1	21.6	37.6	131	9	4	168	3.48	16.5	<5	<2	5	.02	.5	.5	26	.02	.119	17	13	.22	21	.01	<3	.88	.01	.03	<2	<.2	11	<.3	<.2	6.6	<1
64338	.7	21.4	13.2	43.3	161	15	4	214	2.98	12.4	<5	3	5	.04	.3	.3	14	.02	.111	19	16	.35	18	.01	<3	1.00	.01	.03	<2	<.2	10	<.3	<.2	4.3	1
64339	.2	4.5	7.0	14.0	92	3	2	231	.99	6.3	<5	<2	4	.02	<.2	.2	10	.01	.051	17	6	.14	12	.01	<3	.44	.01	.02	<2	<.2	11	<.3	<.2	3.3	5
64340	.4	47.2	34.2	77.1	70	34	17	554	3.59	125.5	12	8	12	.05	.5	.4	13	.37	.063	62	22	.85	24	.01	<3	1.94	<.01	.03	<2	<.2	13	<.3	<.2	4.2	12
64341	.3	6.5	2.2	5.2	67	<1	1	37	.36	3.2	<5	<2	12	.01	.2	.1	7	.21	.028	4	2	.04	17	.02	<3	.75	.04	.03	<2	<.2	<10	.7	<.2	3.1	1
64342	1.4	12.5	10.6	37.3	86	10	4	319	2.09	11.6	<5	<2	6	.05	.3	.3	15	.04	.116	26	16	.40	23	.01	4	1.14	.01	.05	<2	<.2	19	<.3	<.2	4.9	<1
64343	1.0	17.9	12.4	87.4	111	24	10	419	3.18	36.4	14	5	17	.13	.3	.3	14	.71	.094	45	28	.85	29	.01	<3	1.96	.01	.04	<2	<.2	14	.4	<.2	5.5	<1
64344	.3	10.6	17.8	14.7	55	6	2	63	.69	5.2	6	<2	12	.02	<.2	.2	9	.32	.066	36	6	.14	10	.02	<3	.97	.03	.02	<2	<.2	16	1.0	<.2	3.0	1
64345	.6	8.8	10.1	37.6	89	13	5	212	1.76	4.8	<5	<2	7	.05	<.2	.2	11	.08	.076	27	14	.46	41	.01	<3	1.40	.01	.03	<2	<.2	<10	<.3	<.2	4.8	<1
64346	1.2	68.0	63.7	48.4	595	15	10	643	5.33	18.2	<5	<2	6	.16	.3	.4	28	.03	.103	92	33	.50	24	.02	<3	1.97	.01	.04	2	<.2	45	.5	<.2	7.6	1
64347	.7	11.8	8.7	31.5	134	6	4	280	2.71	7.9	<5	<2	6	.06	.2	.3	16	.02	.090	22	20	.34	24	.01	<3	1.36	.01	.03	<2	<.2	22	.3	<.2	6.0	3
64348	.8	71.5	13.1	70.8	156	33	11	448	3.39	8.6	<5	<2	5	.11	.3	.4	20	.03	.092	49	26	.63	27	.01	<3	1.84	.01	.03	<2	<.2	27	.3	<.2	6.6	1
RE 64351	.4	9.2	8.1	10.3	66	1	2	51	.69	3.3	<5	<2	5	.01	<.2	.1	12	.02	.034	9	5	.09	16	.02	<3	.56	.03	.02	<2	<.2	10	<.3	<.2	2.3	1
64349	1.0	48.3	45.7	80.0	182	32	17	476	4.11	31.0	<5	<2	8	.11	.5	.5	23	.10	.097	62	25	.57	35	.01	<3	1.56	.01	.04	<2	.2	19	<.3	<.2	6.8	3
64350	.8	21.1	5.8	44.0	69	12	5	391	2.99	13.7	<5	<2	6	.03	.5	.3	19	.03	.064	21	15	.31	58	.01	<3	.97	.01	.03	<2	<.2	<10	<.3	<.2	6.0	8
64351	.3	9.0	6.3	12.9	78	1	1	58	.79	4.4	<5	<2	5	.02	.2	.2	11	.02	.035	10	5	.10	21	.02	<3	.57	.02	.02	<2	<.2	14	<.3	<.2	2.4	<1
64352	1.3	40.3	18.1	66.4	49	19	8	385	4.65	17.9	<5	4	5	.07	.7	.4	16	.01	.078	35	22	.44	27	.01	4	1.52	.01	.03	<2	<.2	17	.6	.2	5.3	2
64353	1.0	26.5	17.6	53.1	35	14	8	591	3.08	4.5	<5	<2	6	.08	.5	.3	16	.02	.070	14	18	.40	27	.01	<3	1.28	.01	.03	<2	<.2	25	.5	<.2	5.0	1
64354	.5	30.1	10.1	38.7	57	16	11	268	2.01	6.2	<5	<2	5	.04	.3	.2	14	.03	.054	36	14	.38	13	.02	3	1.32	.01	.03	<2	<.2	13	.3	<.2	4.1	1
64355	.5	77.2	44.0	119.8	51	65	40	741	4.84	13.8	<5	13	11	.07	.6	.4	20	.09	.077	78	34	1.00	33	.01	4	2.32	.01	.03	<2	<.2	<10	<.3	.2	6.6	1
64356	.8	51.3	40.4	86.6	53	35	14	453	4.00	17.4	<5	9	6	.06	.5	.4	19	.06	.075	36	27	.77	22	.01	<3	2.10	.01	.03	<2	<.2	17	.4	<.2	6.5	<1
64357	.7	18.7	13.0	37.9	60	11	10	504	2.10	5.2	<5	<2	5	.07	.4	.2	15	.03	.071	21	12	.30	25	.01	<3	1.32	.02	.03	<2	<.2	20	.3	<.2	5.1	2
64358	1.1	29.1	21.4	69.4	37	21	7	563	5.23	16.3	5	<2	8	.06	.8	.5	33	.03	.104	30	33	.67	39	.02	3	1.94	.01	.04	<2	.2	12	.5	<.2	9.0	1
64359	.7	33.5	17.8	66.8	47	17	8	407	4.10	15.7	<5	3	7	.04	.6	.3	21	.04	.084	38	29	.70	30	.01	<3	1.92	.01	.03	<2	<.2	13	.3	<.2	6.7	6
64360	1.0	101.5	33.2	116.3	56	59	44	605	4.90	24.0	<5	5	6	.08	.6	.5	23	.03	.078	54	34	.90	28	.01	<3	2.26	.01	.04	<2	<.2	19	.4	.2	7.5	3
64361	.3	40.3	22.1	61.6	57	31	13	953	2.75	12.3	<5	2	5	.10	.3	.3	13	.05	.059	57	18	.62	27	.01	<3	1.61	.02	.02	<2	<.2	12	<.3	<.2	4.3	1
64362	1.2	34.3	27.3	83.2	55	25	11	641	5.56	113.8	<5	2	8	.09	.6	.5	24	.02	.089	48	31	.70	28	.01	<3	1.99	<.01	.04	2	<.2	22	.4	.2	7.5	12
STANDARD	24.4	121.2	99.9	263.9	2102	30	17	1008	4.47	78.0	21	18	58	2.12	8.7	21.9	71	.74	.106	18	55	1.19	247	.14	23	2.27	.06	.67	18	2.7	452	.7	2.4	7.4	47

Standard is STANDARD D2/HG-500/AU-S. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Mn	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Se	Te	Ga	Au+
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppb
64363	1.1	41.1	27.2	69.8	131	19	10	509	4.32	185.7	5	4	6	.12	.7	.4	15	.03	.090	35	23	.62	34	.01	<3	1.66	.01	.02	<2	<.2	10	.5	.2	5.3	11
64364	1.6	37.0	25.2	62.9	51	21	11	714	5.57	18.9	<5	<2	6	.08	.7	.4	30	.03	.100	29	32	.44	48	.02	<3	1.70	<.01	.03	<2	<.2	13	.7	<.2	7.5	<1
64365	.8	34.7	25.5	86.2	38	37	24	724	3.49	15.9	<5	5	7	.09	.5	.2	22	.06	.069	46	27	.69	38	.02	<3	1.86	.01	.03	<2	<.2	11	.3	<.2	5.5	<1
64366	1.3	121.2	44.3	131.9	<30	84	73	870	5.06	32.2	<5	14	7	.12	.9	.4	23	.04	.065	98	33	.89	45	.02	<3	2.32	<.01	.03	<2	<.2	<10	.3	.2	6.9	<1
64367	.9	35.0	22.8	60.0	50	17	6	387	3.56	14.0	<5	6	6	.04	.9	.3	19	.05	.061	38	24	.66	22	.01	<3	1.57	.01	.03	<2	<.2	10	.3	.2	5.5	<1
64368	.7	34.9	17.3	66.1	<30	23	12	533	3.15	14.5	<5	6	7	.04	.3	.3	16	.07	.079	41	23	.58	22	.01	<3	1.57	.02	.03	<2	<.2	<10	<.3	<.2	4.7	<1
64369	.6	40.6	29.5	83.2	<30	41	24	417	3.49	16.4	<5	6	8	.06	.6	.3	20	.06	.064	48	25	.67	30	.02	<3	1.66	.01	.03	<2	<.2	<10	<.3	<.2	6.1	<1
64370	1.0	45.3	27.3	84.0	40	20	9	457	5.04	18.0	<5	10	5	.06	1.2	.5	21	.02	.056	54	35	.99	19	.01	<3	2.29	.01	.03	2	<.2	<10	.3	.2	8.1	<1
64371	1.3	41.0	28.9	87.2	53	31	19	1682	7.07	26.9	<5	2	6	.11	.8	.7	31	.03	.127	38	40	.85	37	.02	<3	2.39	<.01	.04	<2	<.2	15	.6	.2	10.5	<1
64372	1.3	36.7	22.8	73.4	51	17	8	802	6.27	24.6	<5	3	7	.07	.7	.5	31	.02	.161	41	40	.72	36	.02	5	2.20	.01	.05	<2	<.2	<10	.5	<.2	9.7	<1
64373	.6	45.2	23.0	104.1	60	33	10	583	5.92	17.6	<5	15	7	.03	.6	.4	24	.05	.071	60	41	1.26	28	.01	<3	2.69	<.01	.04	<2	<.2	<10	<.3	.2	8.1	55
64374	.8	49.5	31.4	84.9	76	37	17	862	4.59	11.9	<5	5	6	.10	.8	.4	19	.06	.080	48	29	.81	24	.01	<3	1.99	.01	.03	<2	<.2	13	<.3	<.2	6.1	1
64377	1.3	56.4	35.4	110.2	81	47	30	738	5.75	53.5	5	10	8	.10	1.2	.5	18	.02	.073	39	28	.84	36	.02	<3	1.94	<.01	.03	<2	<.2	<10	.6	.3	5.4	2
RE 64377	1.3	58.3	33.2	111.9	69	52	29	747	5.88	54.3	<5	10	7	.08	1.1	.5	18	.02	.072	39	28	.85	30	.02	<3	1.98	<.01	.03	<2	<.2	<10	.6	.3	5.3	1
64378	.8	37.2	27.4	77.3	86	23	11	579	5.00	831.1	<5	3	7	.08	.6	.3	19	.02	.099	40	27	.65	52	.01	6	1.86	<.01	.03	3	.2	20	.4	.2	5.1	18
64379	.6	27.4	14.6	64.0	32	25	11	389	2.81	117.6	<5	4	7	.05	.3	.2	18	.07	.075	34	18	.43	27	.02	<3	1.47	.01	.02	<2	<.2	20	.3	<.2	3.9	11
64380	1.0	37.0	21.7	83.2	63	31	13	494	3.94	45.4	<5	4	10	.10	.7	.3	28	.07	.088	38	28	.68	44	.03	<3	1.90	.01	.05	<2	.2	11	.6	<.2	6.3	<1
64381	.7	36.5	35.1	91.7	94	29	11	442	4.32	794.3	<5	12	9	.09	.6	.2	19	.07	.058	71	26	.78	44	.02	<3	1.75	<.01	.04	<2	<.2	<10	.5	.2	4.1	94
64382	.8	35.6	21.0	87.3	37	24	12	690	4.99	84.3	<5	6	7	.06	.4	.3	24	.03	.083	36	32	.93	33	.02	<3	2.11	<.01	.04	<2	<.2	<10	.3	.2	6.3	20
64383	1.3	30.0	14.1	57.5	46	12	7	508	4.95	59.1	<5	<2	8	.06	.5	.3	29	.03	.114	27	31	.43	46	.01	<3	1.62	.01	.04	<2	<.2	24	.5	<.2	7.7	<1
64384	1.0	45.0	30.7	73.7	84	18	10	415	4.81	145.9	<5	6	5	.06	.7	.4	18	.02	.073	34	30	.65	26	.01	<3	1.65	<.01	.03	<2	<.2	<10	.5	.2	4.7	192
64385	1.7	56.9	44.0	73.9	70	17	13	458	5.29	24.4	<5	8	4	.03	1.3	.5	16	.01	.068	19	22	.46	26	.01	<3	1.35	<.01	.03	<2	<.2	10	.7	.3	4.7	2
64386	1.0	44.8	28.4	83.0	48	29	17	516	4.57	268.6	<5	4	7	.05	.9	.4	18	.03	.059	37	22	.61	35	.02	<3	1.64	<.01	.03	2	.2	12	.5	.2	5.4	66
64387	.6	17.9	12.2	41.7	152	14	5	234	2.08	61.6	<5	<2	6	.09	<.2	.1	15	.03	.058	27	14	.31	37	.01	<3	1.28	.01	.03	<2	<.2	19	.3	<.2	3.9	38
64388	1.1	69.2	36.9	166.1	94	91	33	390	5.42	86.6	<5	14	4	.06	.7	.2	17	.01	.061	47	20	.41	20	.01	<3	1.65	<.01	.03	<2	<.2	<10	.3	.2	3.5	83
64389	.6	28.0	66.7	52.7	226	17	6	213	2.69	1842.5	<5	3	8	.11	.4	.2	14	.05	.067	31	14	.36	43	.01	<3	1.29	.01	.03	4	<.2	<10	.3	1.0	3.0	178
64390	.9	46.0	30.4	90.9	<30	39	16	474	4.38	217.5	<5	7	7	.07	.6	.3	23	.05	.053	47	28	.70	46	.02	<3	1.90	<.01	.03	3	<.2	10	.5	.2	4.6	7
64391	.3	4.9	2.8	7.6	40	3	1	26	.58	5.8	<5	<2	6	<.01	<.2	<.1	11	.03	.032	4	3	.04	12	.01	<3	.37	.01	.02	<2	.2	<10	.4	<.2	2.4	3
64392	.5	8.0	4.5	13.2	<30	3	1	89	.89	7.0	5	<2	5	.01	<.2	<.1	12	.03	.051	6	4	.05	17	.01	<3	.66	.01	.02	<2	.2	20	<.3	<.2	3.3	1
64393	.9	24.8	24.3	49.8	38	14	7	451	2.96	44.1	<5	<2	7	.04	.5	.3	16	.04	.071	22	18	.45	29	.02	<3	1.30	.01	.04	<2	.3	<10	.4	<.2	4.4	1
64394	1.2	47.1	28.3	75.3	35	25	8	340	4.48	55.6	<5	7	6	.05	.8	.3	17	.01	.058	34	26	.64	25	.01	<3	1.56	<.01	.02	2	.2	<10	.5	.2	4.4	7
64395	1.9	38.6	29.5	56.0	236	16	6	212	4.40	39.2	5	<2	10	.14	.8	.3	31	.04	.120	29	27	.28	42	.01	4	1.94	<.01	.04	<2	.2	51	1.2	.2	7.3	1
64396	.4	26.9	58.9	64.6	<30	27	22	1260	3.04	15.4	<5	7	3	.03	.2	.2	13	.02	.056	36	23	.52	20	<.01	<3	1.50	<.01	.02	<2	.2	<10	.3	<.2	4.4	<1
64397	1.0	27.1	22.0	54.8	62	17	10	497	3.88	126.2	<5	2	4	.04	.6	.3	16	.01	.071	27	20	.27	34	.01	<3	1.22	<.01	.03	<2	.2	22	.3	.2	5.4	<1
64398	.7	44.6	26.9	92.6	60	42	28	739	3.48	80.6	<5	9	7	.08	.4	.2	20	.07	.063	63	24	.68	40	.02	<3	1.78	<.01	.04	<2	.2	<10	.3	<.2	5.3	3
STANDARD	25.4	125.4	99.8	270.1	2184	33	18	1017	4.50	76.1	24	18	55	2.14	9.9	22.6	71	.71	.107	17	54	1.19	256	.13	25	2.30	.05	.69	19	3.0	455	.5	2.7	7.4	55

Standard is STANDARD D2/HG-500/AU-S. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U 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	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
64399	1.2	38.8	26.9	89.3	81	31	14	382	3.97	427.6	<5	5	7	.12	.6	.3	23	.04	.059	38	25	.59	42	.02	<3	1.85	.01	.04	<2	<.2	18	.5	.2	5.1	18
64447	.7	45.1	30.3	66.8	54	34	19	1153	4.02	6.1	<5	6	6	.06	<.2	.3	20	.03	.136	42	29	.94	36	.01	4	2.01	.01	.02	<2	<.2	18	<.3	<.2	5.9	<1
64448	.6	22.8	13.0	69.7	50	32	17	654	5.38	4.7	<5	5	6	.05	.2	.3	24	.02	.135	35	28	1.04	20	.01	<3	2.21	<.01	.03	<2	<.2	23	<.3	<.2	7.5	<1
64449	.7	30.2	18.0	72.3	42	31	17	1002	5.52	8.8	<5	6	4	.07	.2	.2	25	.02	.148	39	30	1.09	15	.01	<3	2.25	<.01	.02	<2	<.2	23	<.3	<.2	8.6	<1
64450	.7	75.2	151.4	78.4	53	41	25	1171	4.50	29.6	<5	8	4	.05	.2	.9	19	.04	.095	49	32	1.41	12	<.01	4	2.40	.01	.03	<2	<.2	19	<.3	.3	6.5	1
64451	.9	44.9	25.0	73.2	43	38	17	1201	4.69	21.5	<5	7	4	.05	1.3	.4	21	.02	.093	41	29	1.21	17	.01	<3	2.04	<.01	.03	<2	<.2	16	<.3	.2	6.1	<1
64452	.7	46.8	30.3	79.0	71	33	12	680	4.83	22.8	<5	7	5	.04	.9	.3	20	.03	.089	42	32	1.08	18	.01	<3	2.21	.01	.02	<2	<.2	<10	<.3	<.2	6.6	2
64453	.9	29.7	33.0	79.9	71	31	15	573	3.94	41.3	<5	6	7	.15	.4	.3	21	.07	.078	38	29	.82	18	.01	3	2.05	.01	.04	<2	<.2	16	<.3	<.2	5.8	1
64454	.6	20.4	31.8	58.7	47	23	11	754	3.31	65.8	<5	7	5	.05	.4	.3	16	.03	.051	34	23	.74	29	.01	<3	1.87	.01	.03	<2	<.2	14	<.3	<.2	5.3	5
64455	.8	26.0	62.1	53.9	55	34	23	1253	2.47	122.6	<5	9	8	.11	.9	.2	11	.08	.062	38	15	.48	46	.01	<3	1.33	<.01	.02	<2	<.2	<10	<.3	<.2	2.8	13
64456	.6	26.5	39.0	50.1	150	26	16	854	2.62	253.3	<5	7	6	.11	2.5	.2	10	.04	.046	35	14	.42	19	<.01	<3	1.09	<.01	.02	<2	.2	10	<.3	<.2	2.8	22
64457	.6	39.4	32.4	75.2	72	32	12	570	3.87	75.1	<5	9	6	.07	.6	.3	13	.05	.060	70	23	.89	18	<.01	5	1.88	<.01	.03	<2	<.2	<10	<.3	<.2	5.2	4
64458	.6	51.1	50.4	81.7	409	35	23	777	3.97	165.1	<5	7	5	.13	.8	.4	13	.04	.078	58	24	.85	15	<.01	<3	1.98	.01	.03	<2	<.2	16	<.3	.2	5.8	7
64459	.5	24.4	18.3	41.5	86	14	10	687	2.58	21.2	<5	2	4	.08	.4	.3	13	.02	.072	29	13	.42	21	.01	<3	1.27	.02	.03	<2	<.2	11	<.3	<.2	4.2	2
64460	.5	26.4	36.0	53.3	44	23	15	846	2.42	40.7	<5	2	7	.10	.3	.2	12	.10	.069	24	15	.52	24	.01	<3	1.37	.01	.03	<2	<.2	19	<.3	<.2	3.8	4
64461	.4	15.6	30.6	37.2	59	14	7	355	2.35	54.8	5	<2	5	.06	.4	.2	14	.04	.082	23	15	.37	18	.01	<3	1.17	.01	.02	<2	<.2	15	<.3	<.2	3.6	1
64462	.6	15.4	27.5	50.4	50	18	8	518	3.13	39.7	<5	2	4	.03	.5	.2	16	.02	.075	25	21	.60	27	.01	<3	1.41	<.01	.03	<2	<.2	19	<.3	<.2	4.7	12
64463	.4	18.3	23.4	48.4	<30	20	10	573	2.48	21.7	<5	4	5	.03	.3	.1	12	.06	.059	25	18	.58	21	.01	<3	1.43	.01	.02	<2	<.2	13	<.3	<.2	3.6	2
64464	.9	25.7	38.4	59.7	122	19	16	1803	5.06	37.3	<5	4	5	.12	.5	.3	27	.03	.230	32	33	.51	50	.01	<3	1.61	<.01	.03	<2	<.2	37	.3	<.2	7.7	12
RE 64464	1.0	26.3	37.9	63.0	107	21	17	1937	5.43	40.5	<5	3	5	.11	.5	.3	29	.03	.245	36	36	.54	58	.01	4	1.75	<.01	.04	<2	<.2	36	<.3	<.2	7.7	4
64465	.9	29.7	27.6	74.6	39	29	13	558	4.25	111.9	<5	5	5	.05	.8	.3	18	.01	.056	43	30	.90	30	.01	<3	1.97	<.01	.03	<2	<.2	<10	<.3	<.2	5.6	10
64466	.9	26.2	28.5	57.2	62	22	13	1974	6.34	17.4	6	6	4	.07	.5	.3	26	.01	.317	34	39	.71	39	.01	<3	1.99	.01	.02	<2	.2	44	.3	<.2	7.8	1
64467	.7	31.8	20.7	82.6	<30	35	15	1494	5.17	18.3	<5	7	5	.03	.5	.3	22	.02	.129	43	34	1.44	22	.01	<3	2.47	.01	.03	<2	<.2	10	<.3	<.2	6.4	1
64468	.4	44.8	28.4	87.6	32	42	25	1404	4.86	20.2	<5	9	7	.02	.2	.2	20	.11	.080	65	35	1.71	16	.01	<3	2.62	.01	.02	<2	<.2	10	<.3	<.2	6.4	2
64469	.7	30.2	15.9	64.5	49	34	16	1222	4.45	3.9	<5	5	5	.03	.2	.3	21	.03	.141	44	33	1.02	25	.01	<3	2.15	.01	.03	<2	<.2	<10	<.3	<.2	6.1	4
64470	1.1	27.4	22.5	64.8	81	31	16	1687	4.83	5.5	<5	5	5	.04	.2	.2	22	.02	.163	43	38	.99	31	.01	4	2.02	<.01	.02	<2	<.2	25	<.3	<.2	6.8	1
64471	2.1	62.9	51.7	101.1	62	50	25	2135	5.90	11.6	<5	7	5	.09	.2	.5	21	.02	.080	44	35	1.04	17	<.01	<3	2.04	.01	.02	<2	<.2	13	<.3	.2	4.8	1
64472	.5	25.0	18.8	57.8	51	29	11	627	3.58	3.4	<5	4	5	.02	.2	.2	21	.03	.083	43	28	.96	31	.01	<3	1.94	.01	.03	<2	<.2	<10	<.3	<.2	6.0	1
64473	.5	51.4	27.7	86.4	56	46	20	1223	5.02	4.9	<5	9	7	.05	.2	.4	23	.08	.099	62	38	1.38	15	.01	<3	2.49	.01	.02	<2	<.2	19	<.3	<.2	6.7	1
64474	.8	30.1	29.0	69.2	95	31	16	1630	4.39	5.9	<5	5	4	.04	.3	.3	22	.02	.145	47	29	.96	45	.01	<3	1.97	.01	.02	<2	<.2	32	<.3	<.2	6.1	<1
64475	1.0	29.2	28.5	66.9	150	30	11	882	4.16	12.1	<5	5	4	.02	.2	.3	21	.02	.148	37	29	.97	25	.01	<3	2.02	.01	.02	<2	<.2	29	<.3	<.2	5.9	<1
64476	1.7	25.7	25.9	62.9	101	17	9	424	6.85	37.5	8	<2	7	.20	.6	.4	39	.03	.090	26	36	.38	54	.02	<3	1.98	.01	.03	<2	<.2	34	.7	<.2	9.7	3
64477	.5	6.8	6.7	16.8	45	3	5	543	.86	2.3	8	<2	5	.12	<.2	<.1	10	.03	.065	6	4	.04	37	.01	<3	.48	.03	.03	<2	<.2	21	<.3	<.2	2.5	1
64478	.5	8.5	7.1	15.3	126	4	2	126	1.01	1.9	5	<2	7	.05	<.2	.1	10	.07	.063	16	6	.10	25	.01	<3	.81	.03	.02	<2	<.2	16	<.3	<.2	3.0	1
64479	.9	29.2	19.3	78.9	64	27	11	447	4.62	18.2	5	2	7	.12	.3	.3	23	.04	.072	44	32	.70	45	.01	<3	1.96	.01	.03	<2	<.2	24	<.3	<.2	6.5	2
STANDARD	24.2	118.1	101.6	262.2	2034	33	16	1002	4.45	69.3	19	18	58	1.89	8.0	21.9	70	.74	.106	17	54	1.19	256	.14	23	2.26	.05	.67	17	2.4	437	.7	2.2	7.3	55

Standard is STANDARD D2/HG-500/AU-S. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Se	Te	Ga	Au+
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppb	ppm	ppm	ppm	ppb
64480	.9	21.3	22.8	69.1	73	23	8	407	3.70	14.9	<5	<2	8	.21	.3	.4	19	.10	.131	34	23	.46	41	.01	<3	1.67	.01	.03	<2	<.2	17	<.3	<.2	7.5	<1
64481	.7	33.3	22.1	67.4	41	22	13	537	3.37	8.7	<5	3	6	.07	.5	.4	22	.05	.075	31	24	.58	23	.02	<3	1.68	.01	.03	<2	<.2	<10	.3	<.2	5.6	<1
64482	2.3	67.4	30.4	83.3	39	23	13	699	6.31	17.1	<5	<2	8	.11	1.3	.7	39	.03	.104	42	37	.43	39	.03	<3	1.85	.01	.04	<2	.2	27	.9	.2	10.3	3
64483	1.4	48.5	25.5	73.9	<30	28	8	291	5.14	21.5	<5	2	7	.04	.8	.4	33	.03	.065	32	32	.57	50	.02	<3	1.89	.01	.04	<2	<.2	19	.7	<.2	8.2	<1
64484	.5	17.2	12.4	37.7	<30	13	5	191	2.11	8.2	<5	<2	7	.02	.3	.2	18	.04	.062	30	15	.33	31	.02	<3	1.10	.01	.03	<2	<.2	11	<.3	<.2	4.7	484
64485	1.5	26.5	18.0	48.0	38	12	6	542	4.77	11.9	<5	<2	7	.06	.6	.4	32	.04	.130	24	25	.28	36	.02	<3	1.48	.01	.04	<2	<.2	35	.4	<.2	9.5	5
64486	1.1	62.1	29.1	109.3	<30	65	33	892	5.55	16.3	<5	7	6	.03	.6	.6	26	.03	.069	34	38	.87	34	.01	<3	2.30	.01	.03	<2	.2	20	.4	<.2	7.5	2
64487	.9	37.1	23.3	50.9	64	35	19	442	1.86	14.8	<5	<2	9	.07	.3	.3	15	.10	.082	44	13	.25	36	.02	<3	1.08	.02	.03	<2	<.2	14	<.3	<.2	4.5	1
64488	1.1	26.7	21.3	50.3	64	13	10	485	3.27	18.7	5	<2	6	.07	.6	.3	15	.04	.076	22	17	.42	31	.01	<3	1.33	.01	.03	<2	<.2	23	.3	.2	5.0	1
64489	.5	10.9	15.2	25.8	81	4	9	460	1.42	4.7	<5	<2	9	.21	.2	.3	17	.11	.071	24	7	.10	38	.02	<3	.78	.02	.04	<2	<.2	28	<.3	<.2	4.1	<1
64490	.6	9.3	8.6	15.3	<30	6	3	171	.83	2.2	<5	<2	9	.03	<.2	.1	11	.11	.059	16	5	.10	25	.02	<3	.85	.04	.03	<2	<.2	14	<.3	<.2	2.6	<1
64491	1.3	36.4	26.1	78.6	76	25	12	566	4.63	15.2	<5	<2	7	.08	.6	.5	28	.03	.082	38	31	.67	38	.02	3	2.11	.01	.04	<2	.2	25	.6	.2	7.5	<1
64492	.8	6.8	3.0	6.9	<90	1	1	39	.53	<1.5	<5	<2	9	<.03	<.6	<.3	9	.08	.052	4	3	.04	22	.03	<3	.86	.04	.03	<2	<.6	19	<.9	<.6	2.3	<1
64493	.7	27.1	19.5	85.3	35	25	11	448	4.42	9.8	<5	7	8	.04	.5	.3	23	.03	.053	58	34	.90	43	.01	<3	2.25	.01	.04	<2	<.2	28	.3	<.2	7.7	3
64494	.9	25.2	19.4	76.3	52	21	7	464	5.19	13.9	<5	4	6	.03	.5	.4	25	.02	.064	49	39	.83	38	.01	<3	2.38	.01	.04	<2	<.2	31	.4	<.2	7.3	1
64495	.5	17.6	6.7	11.4	66	3	4	88	.87	3.2	<5	<2	7	.04	<.2	<.1	11	.06	.049	7	4	.09	17	.02	<3	.73	.03	.03	<2	<.2	20	.4	<.2	3.5	1
64496	1.2	39.7	21.9	86.7	36	25	13	819	5.19	14.4	<5	3	6	.07	.5	.4	29	.02	.088	45	39	.79	29	.02	<3	2.35	.01	.05	<2	.2	31	.6	<.2	8.7	1
64497	.8	19.7	13.2	36.2	65	10	4	362	2.64	8.6	<5	<2	5	.04	.4	.2	17	.02	.092	20	16	.25	26	.01	<3	1.22	.02	.03	<2	<.2	33	.4	<.2	6.2	17
64498	.8	28.8	15.0	79.1	127	30	10	385	4.36	16.2	<5	5	4	.03	.4	.4	19	.02	.072	38	32	.88	29	.01	3	2.04	.01	.03	<2	.2	15	<.3	<.2	7.2	909
RE 64498	.9	28.3	8.9	79.4	44	30	10	386	4.40	11.3	<5	5	4	.02	.4	.4	19	.02	.072	37	31	.89	29	.01	<3	2.07	.01	.03	<2	.4	24	.6	.2	6.8	12
64499	.5	7.5	4.9	12.8	40	4	1	62	.62	2.9	<5	<2	7	.07	<.2	.1	7	.05	.046	9	4	.06	24	.01	<3	.62	.02	.02	<2	<.2	19	<.3	<.2	2.7	3
64564	.8	48.9	15.1	81.4	62	43	17	1249	5.36	9.0	<5	6	7	.04	.3	.4	26	.04	.148	57	37	1.15	17	.01	<3	2.39	.01	.03	<2	<.2	19	<.3	.2	9.1	2
64565	1.3	35.9	19.5	68.3	<30	28	11	550	3.62	9.8	<5	4	6	.03	.2	.2	19	.05	.076	42	26	.99	19	.01	<3	1.98	.01	.03	<2	<.2	23	<.3	<.2	6.8	<1
64566	.7	22.2	18.6	58.8	52	22	8	513	3.00	15.7	<5	<2	6	.06	.5	.2	19	.05	.073	30	20	.51	24	.01	<3	1.48	.01	.03	<2	.2	19	<.3	<.2	5.3	<1
64567	.8	82.8	52.7	93.6	32	45	30	869	4.56	177.3	<5	16	6	.03	.6	.2	14	.09	.022	77	27	1.11	26	.01	5	2.34	.01	.07	<2	.2	18	.5	.2	7.0	11
64568	.8	54.9	46.4	74.4	57	36	21	579	3.70	212.1	13	7	7	.05	.7	.3	13	.10	.054	44	24	.79	49	<.01	<3	2.10	.01	.04	<2	<.2	14	<.3	<.2	5.5	14
64569	.2	4.8	3.8	9.2	<30	1	1	96	.65	4.1	<5	<2	5	.01	<.2	.1	10	.02	.042	3	4	.05	17	.01	<3	.25	.02	.02	<2	<.2	13	<.3	<.2	1.5	1
64570	1.0	47.8	32.5	74.6	56	35	18	831	5.13	19.8	<5	3	6	.09	.7	.9	22	.04	.108	38	31	.70	26	.01	<3	2.06	.01	.02	<2	<.2	30	.3	.2	6.6	<1
64571	1.7	22.0	20.7	66.3	79	16	8	465	2.84	14.9	<5	<2	9	.10	.4	.6	23	.12	.131	29	21	.47	42	.02	<3	1.85	.01	.04	<2	<.2	22	.3	<.2	6.7	2
64572	.9	17.3	18.0	34.4	71	11	6	272	1.96	9.4	<5	<2	7	.04	.3	.5	16	.03	.074	17	12	.35	28	.01	<3	1.16	.02	.03	<2	<.2	23	.3	<.2	4.8	<1
64573	.5	9.3	9.4	15.9	33	3	3	89	.96	3.0	<5	<2	11	.02	<.2	.1	16	.02	.054	6	6	.13	23	.01	<3	.63	.02	.02	<2	<.2	19	.3	<.2	3.0	<1
64574	.7	20.9	17.2	63.4	60	24	9	524	3.35	15.8	<5	2	6	.03	.2	.3	18	.07	.079	28	24	1.11	20	.01	<3	2.00	.01	.03	<2	<.2	15	<.3	<.2	6.2	<1
64575	.7	56.3	24.2	84.2	38	50	29	1360	4.96	31.0	<5	6	5	.03	.8	.4	21	.04	.081	62	33	1.51	19	.01	3	2.49	.01	.03	<2	<.2	16	<.3	<.2	7.2	<1
64576	.8	49.8	21.4	79.0	90	40	22	1229	4.31	22.8	<5	5	5	.04	.6	.3	18	.04	.088	45	27	1.30	16	.01	<3	2.18	.01	.03	<2	<.2	25	<.3	<.2	6.3	<1
64577	.3	9.9	3.2	12.2	36	5	1	181	.83	4.1	<5	<2	6	.02	<.2	<.1	9	.04	.069	9	5	.12	19	.01	<3	.78	.04	.03	<2	<.2	16	<.3	<.2	2.4	<1
STANDARD	24.8	127.0	99.2	270.4	2050	30	17	1014	4.52	68.4	21	18	57	2.13	9.9	22.5	71	.71	.111	17	55	1.20	256	.14	27	2.32	.06	.70	17	2.4	457	.6	2.2	8.1	55

Standard is STANDARD D2/HG-500/AU-S. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U 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	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
64578	.4	48.4	36.2	96.7	35	49	24	1183	5.65	13.1	<5	10	7	.06	<.2	.3	22	.10	.057	49	37	1.68	15	<.01	<3	2.87	<.01	.03	<2	<.2	<10	<.3	<.2	6.7	<1
64579	.4	32.2	20.7	46.0	<30	18	16	1500	2.40	12.0	<5	3	6	.07	.3	.2	17	.07	.072	28	16	.70	14	.01	<3	1.46	<.01	.03	<2	<.2	11	<.3	<.2	3.7	2
64580	.8	54.9	32.9	94.8	<30	48	24	1149	5.10	34.0	<5	12	10	.13	.7	.5	17	.15	.071	63	29	1.49	5	<.01	<3	2.38	<.01	.03	<2	<.2	<10	<.3	<.2	5.9	4
64581	.2	55.3	39.5	75.0	<30	39	24	1351	3.95	12.0	<5	6	6	.07	.2	.3	18	.09	.067	32	26	1.21	14	.01	<3	2.15	<.01	.03	<2	<.2	15	<.3	<.2	6.9	<1
64582	.6	68.2	49.4	99.5	39	48	35	1732	5.61	7.5	<5	11	7	.11	<.2	.2	23	.11	.061	61	35	1.79	9	.01	<3	2.94	<.01	.03	<2	.3	17	<.3	<.2	5.7	<1
64583	.6	62.3	43.2	97.6	32	61	34	1471	5.31	39.0	<5	13	10	.08	.7	.4	20	.18	.058	55	35	1.87	13	<.01	<3	2.71	<.01	.04	<2	<.2	11	<.3	<.2	6.7	1
64584	.9	66.5	41.2	91.4	<30	45	24	811	5.15	41.5	<5	10	7	.07	1.0	.6	18	.10	.041	43	30	1.56	23	.01	<3	2.55	.01	.04	<2	.2	12	<.3	<.2	6.1	1
64585	.3	9.9	6.4	9.8	32	3	2	70	.59	2.3	10	<2	7	.06	<.2	.1	11	.08	.050	8	3	.09	11	.02	<3	.56	.02	.02	<2	<.2	24	.4	<.2	2.2	<1
64586	.4	6.1	5.5	9.8	54	3	2	154	.62	1.8	6	<2	5	.05	.2	.1	10	.03	.057	5	4	.08	14	.01	<3	.49	.02	.02	<2	<.2	20	<.3	<.2	2.3	1
64587	.1	38.4	45.7	64.5	30	28	15	478	3.02	136.7	<5	6	8	.12	.6	.2	12	.15	.038	33	21	.68	37	<.01	<3	1.63	.01	.03	<2	<.2	21	<.3	<.2	4.1	19
64588	.6	56.6	35.7	96.8	<30	44	24	690	4.66	20.1	<5	6	8	.07	.4	.4	23	.08	.077	35	35	1.02	20	.01	<3	2.43	.01	.04	<2	<.2	<10	.3	<.2	7.0	3
64589	1.0	16.6	12.9	42.5	45	11	5	298	2.85	9.0	<5	<2	7	.05	.5	.3	29	.03	.125	13	20	.29	34	.01	<3	1.09	.01	.05	<2	<.2	34	<.3	<.2	6.4	1
64590	.7	53.9	38.4	114.1	51	51	37	1009	4.88	46.8	<5	9	7	.10	.5	.5	18	.15	.072	68	30	1.07	43	<.01	<3	2.67	<.01	.02	<2	<.2	23	<.3	<.2	7.2	7
RE 64590	.6	55.2	37.5	115.4	62	54	37	1020	4.95	41.3	<5	9	7	.06	.6	.6	18	.16	.072	70	30	1.09	51	.01	<3	2.71	.01	.03	<2	<.2	20	<.3	<.2	6.7	1
64591	.4	26.0	20.9	49.5	42	17	13	536	2.66	7.0	<5	3	5	.08	.3	.3	13	.13	.068	36	18	.60	14	.01	<3	1.71	.01	.02	<2	<.2	14	<.3	<.2	4.7	1
64592	.6	75.6	50.8	129.4	72	59	36	1839	5.57	39.6	7	13	8	.26	.5	.7	17	.36	.093	82	35	1.32	32	<.01	<3	2.70	<.01	.04	<2	<.2	17	<.3	<.2	6.9	1
64593	.6	71.1	37.3	101.2	<30	52	34	1341	5.45	50.3	<5	9	6	.05	.9	.4	19	.03	.072	65	35	1.62	20	<.01	<3	2.75	<.01	.03	<2	<.2	12	<.3	<.2	6.9	1
64594	.3	16.2	8.8	23.9	<30	7	5	598	1.59	6.3	<5	<2	6	.10	.2	.1	15	.05	.100	16	11	.19	34	.01	<3	1.07	.02	.03	<2	<.2	27	<.3	<.2	3.5	1
64595	1.1	26.6	22.5	54.5	60	20	5	286	3.33	21.3	<5	<2	6	.04	.4	.2	22	.03	.071	28	25	.56	42	.01	3	1.79	.01	.04	<2	<.2	19	<.3	<.2	6.4	47
64596	1.0	24.5	19.7	53.5	169	19	4	233	2.81	149.2	<5	<2	6	.11	.3	.3	18	.04	.083	31	28	.50	22	.02	<3	2.16	.01	.04	<2	<.2	46	.4	<.2	6.6	8
64597	.9	22.2	18.1	55.7	91	17	7	369	4.00	113.5	<5	2	5	.11	.4	.3	21	.02	.088	43	27	.54	28	.01	<3	1.70	.01	.04	<2	<.2	27	<.3	<.2	6.4	74
64598	.8	34.7	24.1	76.1	73	29	9	420	4.77	130.1	<5	8	3	.12	.6	.3	16	.01	.054	42	31	.82	22	<.01	<3	2.18	.01	.03	<2	<.2	24	.5	<.2	6.9	52
64599	.5	40.5	16.2	76.6	94	37	10	274	2.15	13.6	9	2	6	.16	.2	.2	12	.08	.054	57	17	.56	20	.01	<3	1.55	.02	.02	<2	<.2	17	<.3	<.2	4.4	124
STANDARD	24.4	121.7	101.9	264.0	2098	30	16	1001	4.44	74.1	22	18	58	2.12	8.2	22.0	71	.74	.106	17	55	1.18	258	.14	24	2.31	.05	.69	18	2.4	459	.5	2.0	7.0	47

Standard is STANDARD D2/HG-500/AU-S. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



GEOCHEMICAL EXTRACTION-ANALYSIS CERTIFICATE  
 Phelps Dodge Corp. PROJECT 209 File # 97-5186  
 1409 - 409 Granville St., Vancouver BC V6T 1T2



SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Tl	Hg	Se	Te	Ga	Au+
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppb	ppm	ppm	ppm	ppb	
64898	<1	<2	11637.1	116.1	25772	4	<1	25	6.41	99999.0	<5	<2	1	<10	40.0	2.0	<1.01	.003	16	12	<.01	3.01	<3	.06	.01	.01	6	<2	205	<3	<2	<5	938		
64899	.7	20.6	76.8	43.2	600	10	2	267	2.47	141.6	<5	4	5	.08	.8	<.1	6.01	.013	15	22	.43	20.01	<3	1.13	.01	.12	2	<2	110	.3	<2	2.7	11		
70748	.7	12.1	80.3	26.0	179	5	1	129	1.49	217.1	<5	2	1	.05	.3	<.1	4.01	.009	5	21	.23	9.01	<3	.49	<.01	.04	7	<2	91	<.3	<2	.8	2		
70749	1.1	16.5	12.6	41.8	<30	7	1	319	2.78	26.6	<5	4	3	.02	<.2	<.1	8.01	.014	17	29	.63	21.01	<3	1.22	.01	.10	3	<2	105	.3	<2	3.7	<1		
70750	<1	11.4	33.7	46.4	<300	26	3	257	3.76	15915.1	<5	5	21	.24	<.2	<.1	9.01	.007	18	29	.46	28.01	<3	1.11	<.01	.08	4	<2	37	<3	5.0	7.0	809		
70751	1.0	16.3	30.1	55.6	<300	18	10	221	3.69	12466.6	<5	7	8	.16	<.2	<.1	6.01	.015	22	19	.36	10.01	<3	.75	<.01	.06	3	<2	107	<3	3.0	<5	94		
70752	.8	15.6	12.5	48.5	<150	22	8	215	2.30	1669.7	<5	4	7	.08	<.1	<.5	6.01	.012	30	22	.24	13.01	<3	.73	<.01	.02	4	<1	37	<1.5	1.2	<2.5	114		
70753	.4	2.2	37.4	48.2	<30	14	6	720	2.74	727.9	<5	6	3	.09	.2	<.1	12.11	.011	11	26	.76	7.01	<3	1.36	<.01	.03	4	<2	57	<.3	<2	2.5	13		
70781	1.5	16.9	1944.1	16.1	11469	4	1	30	.81	5536.3	<5	<2	3	.31	4.6	13.6	<.01	.004	13	20	.01	5.01	<3	.09	<.01	.02	5	<2	63	7.1	12.0	5.7	202		
70782	1.1	30.2	21.8	33.1	128	5	1	136	2.58	38.5	<5	6	2	.05	.4	<.1	6.01	.010	10	21	.28	11.01	<3	.68	.01	.05	3	<2	64	.3	<2	2.7	4		
70792	.7	10.7	34.8	28.2	207	5	1	179	1.50	35.2	<5	<2	1	.04	.3	<.1	4.01	.005	1	20	.30	5.01	<3	.68	<.01	.02	5	<2	45	<.3	<2	1.8	1		
70793	.7	46.1	31.6	60.2	514	24	5	91	6.35	1971.6	<5	2	5	.09	1.6	1.7	10.03	.012	2	17	.22	20.01	<3	.66	<.01	.10	2	<1	219	1.6	<1	<2.5	812		
70796	1.7	21.7	2809.4	630.7	10683	7	1	36	1.74	7296.1	<5	<2	2	1.18	5.0	20.9	1.03	.009	1	23	.01	2.01	<3	.10	<.01	.01	8	<2	95	<.3	<2	<5	275		
71071	.9	8.5	725.3	24.5	623	4	<1	59	.57	998.4	<5	<2	4	.16	1.0	<.1	1.01	.006	8	25	.07	19.01	<3	.14	<.01	.03	29	<2	96	<.3	<2	<5	27		
71072	<1	6.6	5007.0	29.0	12598	3	<1	60	.72	3391.0	<5	<2	1	.32	6.7	<.1	2.01	.003	7	21	.08	11.01	<3	.15	<.01	.01	6	<2	94	<.3	<2	<5	87		
71073	<1	6.5	3425.4	46.3	2795	5	<1	59	1.10	8520.7	<5	<2	2	.19	4.2	<.1	2.01	.003	11	21	.07	8.01	<3	.18	<.01	.01	5	<2	72	<.3	<2	<5	144		
71074	.4	5.9	70.9	40.1	183	21	3	85	1.13	861.3	<5	5	3	.03	.3	<.1	2.01	.007	33	18	.08	12.01	<3	.45	<.01	.06	6	<2	37	<.3	<2	<5	22		
71075	<1	11.2	2424.5	223.5	2120	3	<1	23	.73	6465.7	<5	<2	4	.86	3.3	<.1	<.01	.001	16	17	<.01	9.01	<3	.06	<.01	.01	153	<2	141	<.3	<2	<5	268		
71076	4.1	35.2	11548.4	132.9	35726	6	<1	68	1.91	12375.8	<5	<2	18	<.10	34.7	<.1	3.07	.017	26	23	.06	7.01	7	.25	<.01	.04	2280	18.7	121	8.1	<2	6.1	494		
71077	<1	<2	113.2	30.7	<300	10	1	195	1.90	8099.1	<5	5	5	<.10	<.2	<.1	5.01	.011	23	23	.31	37.01	<3	.62	<.01	.03	17	<2	56	<.3	<2	<5	173		
71078	.6	12.3	96.4	17.5	359	10	3	244	.82	112.5	<5	5	2	.11	.7	<.1	2.06	.008	18	17	.09	14.01	<3	.32	<.01	.06	20	<2	95	<.3	<2	.6	8		
71079	1.0	9.3	28.4	17.9	104	11	4	157	1.81	107.6	<5	9	5	.05	.3	<.1	3.04	.009	11	21	.15	14.01	<3	.40	.02	.05	7	<2	50	<.3	<2	.8	4		
RE 71079	1.3	9.3	26.0	18.0	84	12	4	160	1.83	110.5	<5	10	5	.06	.2	<.1	3.04	.009	11	22	.15	15.01	<3	.43	.02	.05	6	<2	48	<.3	<2	1.8	3		
71090	1.4	23.0	1405.1	592.4	2974	19	18	362	3.45	11077.3	<5	3	5	2.35	3.5	4.4	7.01	.005	15	24	.61	5.01	<3	1.26	.02	.02	25	<2	<10	<3	23.5	<5	191		
71091	3.8	32.6	9884.6	996.0	17223	4	<1	37	.48	1689.9	<5	<2	6	10.35	7.4	19.3	1.02	.010	18	21	.01	3.01	4	.07	<.01	.02	1024	9.0	<10	5.7	12.3	3.4	23		
71092	<1	16.2	78.5	63.0	<300	47	25	577	6.67	83204.2	<5	17	11	<.10	8.9	1.7	10.04	.027	70	23	.89	21.01	<3	1.58	.01	.11	7	<2	<10	<.3	<2	<5	2900		
71093	1.2	10.2	53.1	22.3	326	14	2	190	1.76	9279.7	<5	5	56	<.10	<.2	<.1	2.01	.007	52	25	.22	10.01	<3	.59	<.01	.03	6	<2	29	<.3	<2	<5	158		
71094	.6	44.0	12.8	24.7	47	18	8	267	2.11	116.8	<5	8	5	.03	<.2	.8	6.09	.010	18	21	.28	15.01	<3	.82	.02	.08	6	<2	21	<.3	<2	2.5	30		
71300	1.1	8.8	16.0	15.0	95	7	2	73	1.17	68.3	<5	5	2	.02	.4	<.1	2.02	.014	11	14	.08	6.01	<3	.35	<.01	.04	4	<2	22	<.3	<2	1.5	6		
71301	1.0	61.1	198.5	65.0	800	42	42	783	4.06	94.7	<5	6	8	.08	.8	2.1	9.09	.027	7	31	.61	25.01	<3	1.49	.02	.11	7	<2	54	1.0	.5	4.4	7		
71302	<1	21.5	22.1	80.8	506	63	13	725	7.77	2692.1	<5	4	19	<.10	<.2	<.1	30.24	.126	11	68	1.96	47.02	24	3.49	.01	.20	<2	<2	27	<.3	<2	5.0	221		
71303	.4	7.8	14.0	1.9	6710	3	1	34	7.12	134.7	<5	2	2	.01	22.1	<.1	2.01	.005	3	15	.01	11.01	<3	.12	<.01	.06	6	.5	63	4.5	<.2	.7	514		
STANDARD D2/HG-500/AU-R	26.3	127.5	103.4	237.3	1976	35	18	1060	4.45	82.6	23	19	60	2.06	9.7	22.1	78.70	.115	19	60	1.15	262.15	25	2.36	.05	.70	23	2.9	500	.7	2.5	7.5	469		

ICP - 30 GRAM SAMPLE IS DIGESTED WITH 180 ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 600 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 GA AND AL. SOLUTION ANALYSED DIRECTLY BY ICP. MO CU PB ZN AG AS AU CD SB BI TL HG SE TE AND GA ARE EXTRACTED WITH MIBK-ALIQAT 336 AND ANALYSED BY ICP. ELEVATED DETECTION LIMITS FOR SAMPLES CONTAIN CU,PB,ZN,AS>1500 PPM,Fe>20%.  
 - SAMPLE TYPE: ROCK AU+ - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 8 1997 DATE REPORT MAILED: *Sept 24/97* SIGNED BY: *C. L. Toy* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



GEOCHEMICAL EXTRACTION-ANALYSIS CERTIFICATE

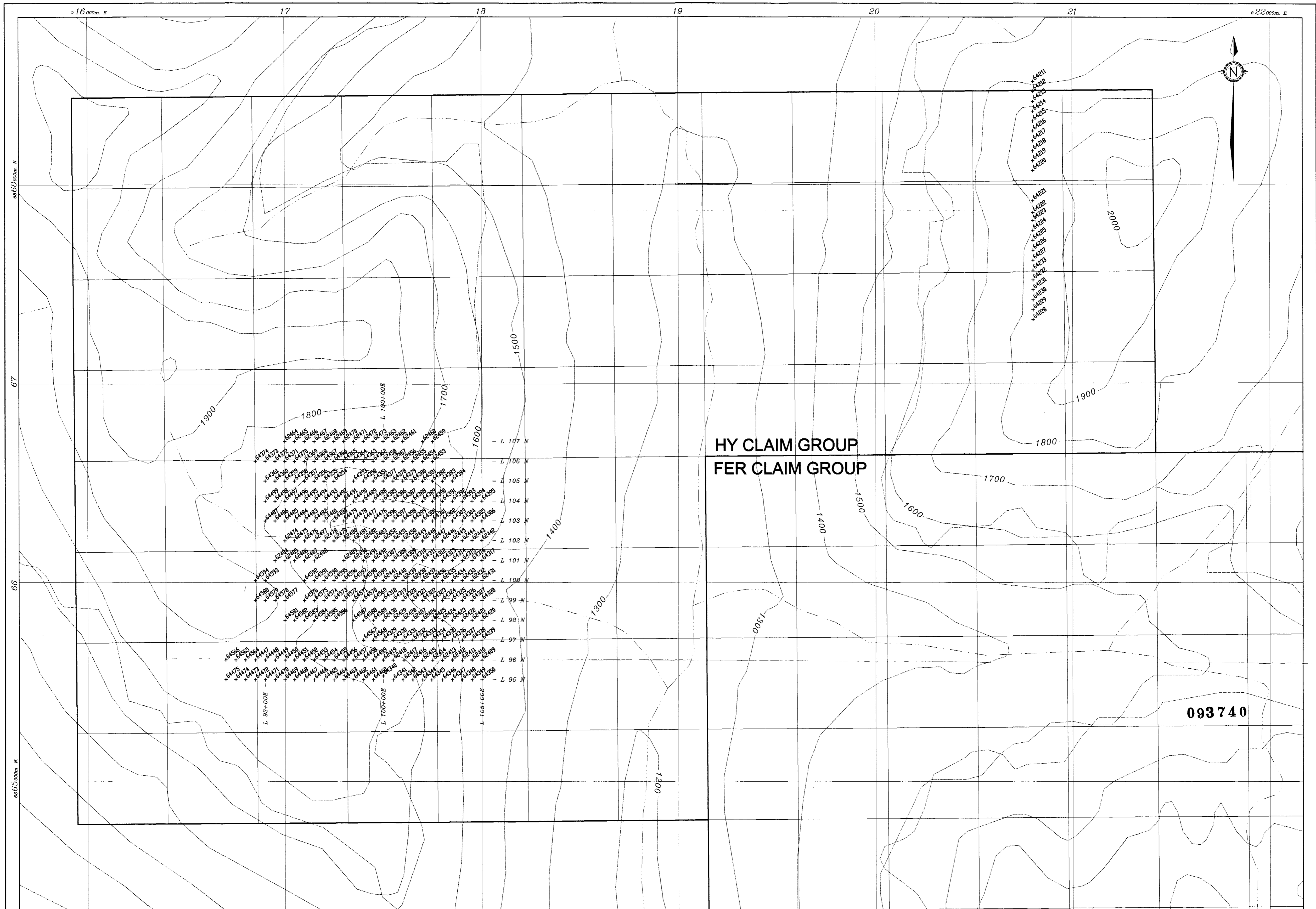


Phelps Dodge Corp. PROJECT 209 File # 97-5187  
 1409 - 409 Granville St., Vancouver BC V6T 1T2

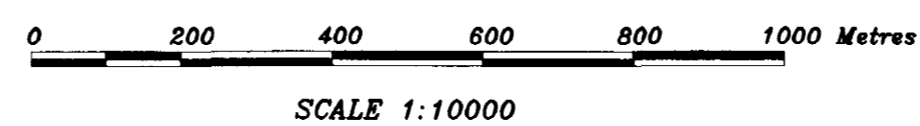
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm	Au+ ppb
70794	1.6	180.9	101.8	159.6	276	75	64	1790	5.59	91.0	10	10	18	.40	.8	1.5	20	.22	.087	16	37	1.25	20	<.01	<3	2.58	<.01	.04	<2	.2	158	.7	.2	6.9	7
70795	1.4	107.4	56.9	137.8	188	73	38	1723	5.87	289.0	<5	10	12	.18	1.4	.6	20	.17	.066	21	35	1.19	26	<.01	3	2.47	<.01	.03	<2	.3	62	.4	.2	6.7	32
RE 70795	1.4	103.7	58.3	135.2	190	72	37	1685	5.76	277.9	5	8	11	.18	1.3	.5	19	.16	.063	19	34	1.17	17	<.01	<3	2.40	<.01	.02	<2	.3	73	.4	<.2	6.5	16

ICP - 15 GRAM SAMPLE IS DIGESTED WITH 90 ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 300 ML WITH WATER. THIS LEACH IS PARTIAL FOR %N FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL. SOLUTION ANALYSED DIRECTLY BY ICP. MO CU PB ZN AG AS AU CD SB BI TL HG SE TE AND GA ARE EXTRACTED WITH MIBK-ALIQUAT 336 AND ANALYSED BY ICP. ELEVATED DETECTION LIMITS FOR SAMPLES CONTAIN CU,PB,ZN,AS>1500 PPM,Fe>20%.  
 - SAMPLE TYPE: -150 SILT AU+ - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

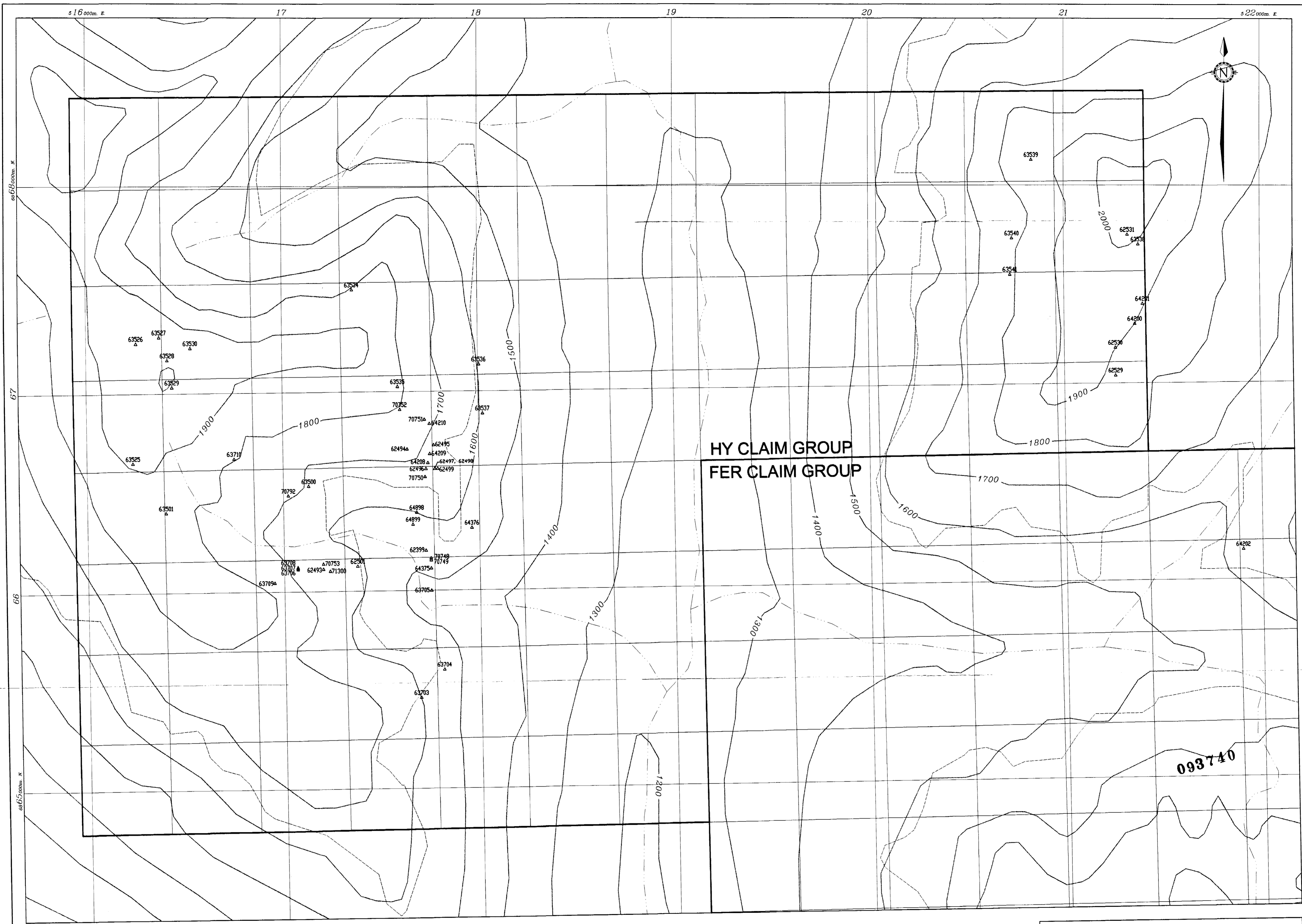
DATE RECEIVED: SEP 8 1997 DATE REPORT MAILED: *Sept 24/97* SIGNED BY: *C. Leong* D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS



LEGEND  
 \* 62412 1997 soil sample, sample number  
 ~~~~~ Tree line  
 ~~~~~ Creek  
 NOTE:  
 \* CONTOUR INTERVAL 100 METRES.  
 \* ELEVATION IN METRES.



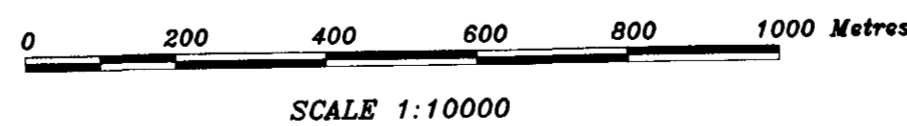
|                                      |        |                 |         |        |
|--------------------------------------|--------|-----------------|---------|--------|
| PHELPS DODGE CORP. OF CANADA LIMITED |        |                 |         |        |
| PROJECT NO.: 208 (HY PROPERTY)       |        | YUKON TERRITORY |         |        |
| SAMPLE LOCATION                      |        |                 |         |        |
| SOIL                                 |        |                 |         |        |
| DIAND - YUKON REGION, LIBRARY        |        |                 |         |        |
| SCALE                                | DATE   | BY              | NTS NO. | FIGURE |
| 1:10000                              | JAN/98 |                 | 105H15  | 4a     |



**LEGEND**

- △70752      1997 rock sample, sample number
- ~~~~~      Tree line
- ~~~~~      Creek

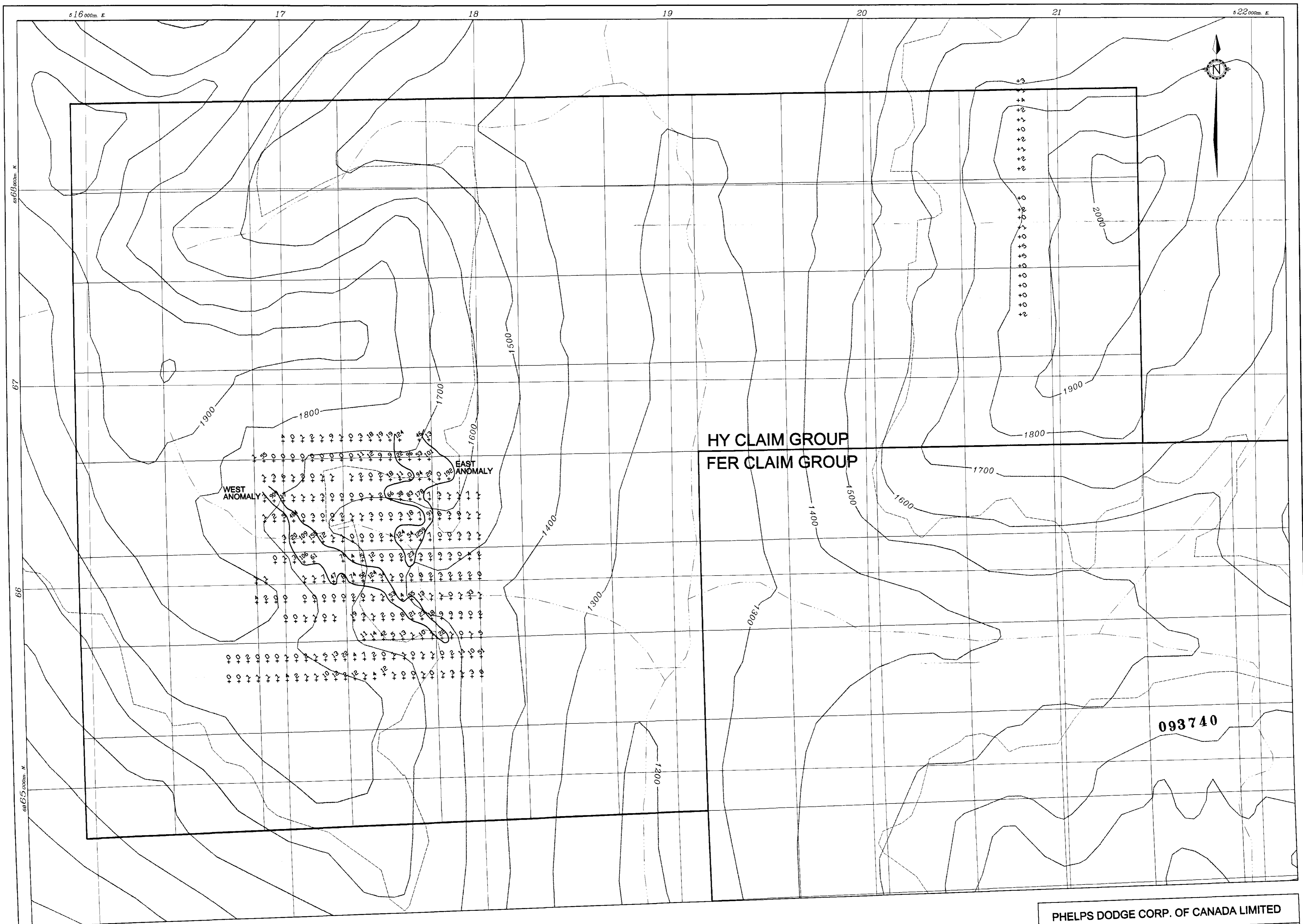
**NOTE:**  
 • CONTOUR INTERVAL 100 METRES.  
 • ELEVATION IN METRES.



|                                      |        |    |                 |        |
|--------------------------------------|--------|----|-----------------|--------|
| PHELPS DODGE CORP. OF CANADA LIMITED |        |    |                 |        |
| PROJECT NO.: 209 (HY PROPERTY)       |        |    | YUKON TERRITORY |        |
| <b>SAMPLE LOCATIONS</b>              |        |    |                 |        |
| <b>ROCK</b>                          |        |    |                 |        |
| DIAND - YUKON REGION, LIBRARY        |        |    |                 |        |
| SCALE                                | DATE   | BY | NTS NO.         | FIGURE |
| 1:10000                              | JAN/88 |    | 105H15          | 4b     |

093740

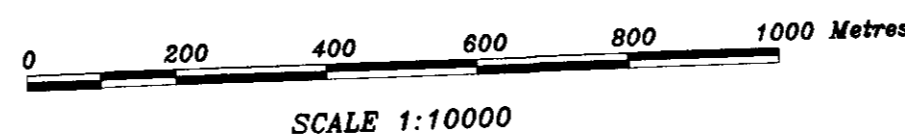
DWB (2) (2)



LEGEND

- 1997 soil sample, gold (ppb)
- Tree line
- Creek

NOTE:  
 • CONTOUR INTERVAL 100 METRES.  
 • ELEVATION IN METRES.

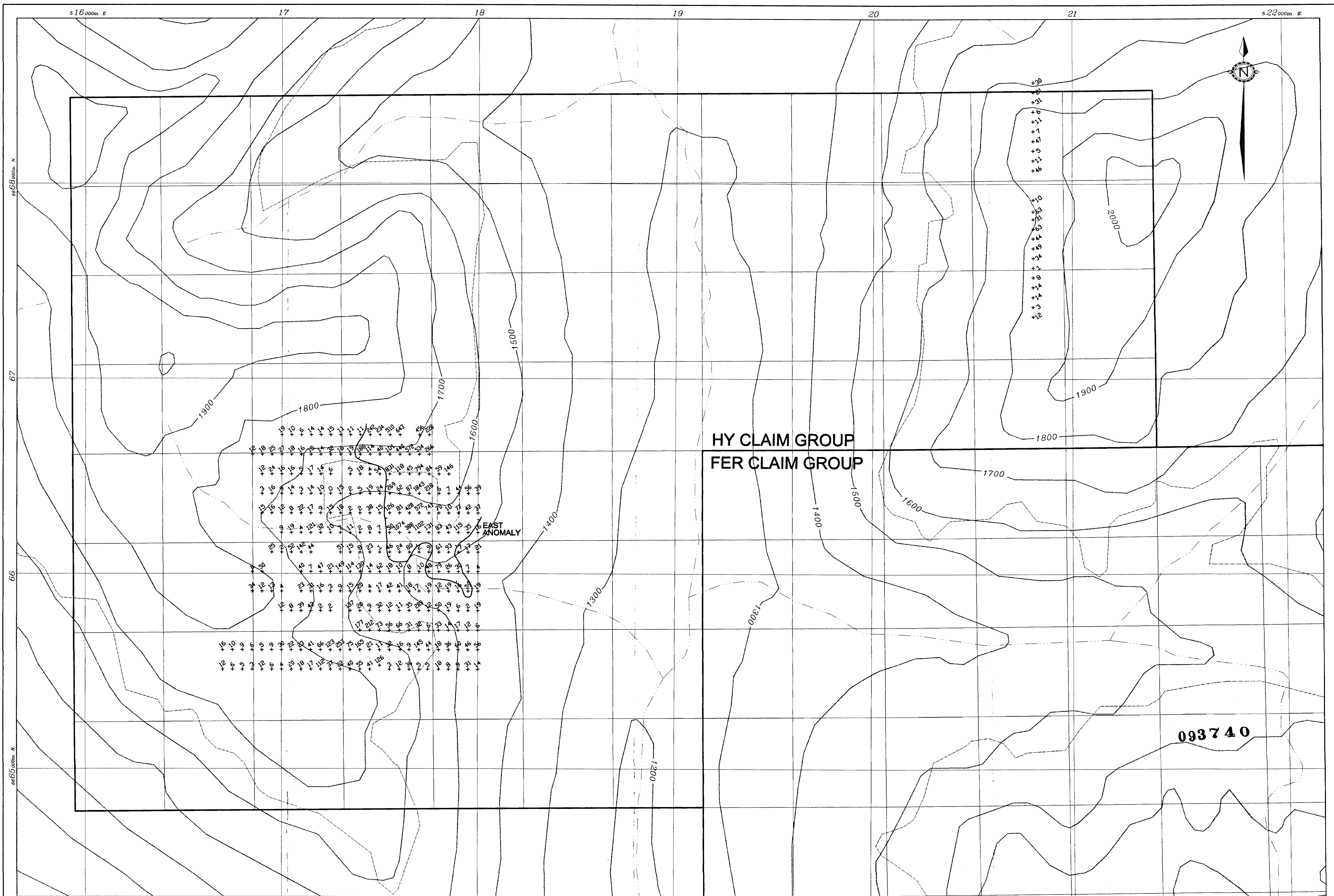


093740

PHELPS DODGE CORP. OF CANADA LIMITED  
 PROJECT NO.: 208 (HY PROPERTY) YUKON TERRITORY  
**SOIL GEOCHEMISTRY**  
**GOLD (PPB)** DWG 3  
 DIAND - YUKON REGION. LIBRARY

| SCALE   | DATE   | BY | NTS NO. | FIGURE |
|---------|--------|----|---------|--------|
| 1:10000 | JAN/98 |    | 105H15  | 5a     |

FOX GEOLOGICAL SERVICES INC.



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516000m E 17 18 19 20 21 522000m E

HY CLAIM GROUP  
FER CLAIM GROUP

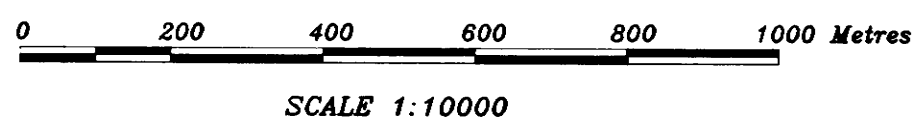
EAST ANOMALY

093740

LEGEND

- +S 1997 Soil sample, Arsenic (ppm)
- ~ Tree line
- ~ Creek

NOTE:  
\* CONTOUR INTERVAL 100 METRES.  
\* ELEVATION IN METRES.



|                                      |        |    |                 |        |
|--------------------------------------|--------|----|-----------------|--------|
| PHELPS DODGE CORP. OF CANADA LIMITED |        |    |                 |        |
| PROJECT NO.: 209 (HY PROPERTY)       |        |    | YUKON TERRITORY |        |
| SOIL GEOCHEMISTRY                    |        |    |                 |        |
| ARSENIC (PPM)                        |        |    |                 |        |
| DIAND - YUKON REGION, LIBRARY        |        |    |                 |        |
| SCALE                                | DATE   | BY | NTS NO.         | FIGURE |
| 1:10000                              | JAN/98 |    | 105H15          | 5b     |

FOX GEOLOGICAL SERVICES INC.

