094061

Summary Report
On

Cy 1-26 And ST 9-22/27-34
NTS 105-F-9

For
Eagle Plains Resources

By
Bernie Kreft

December 19, 1999

This report has been examined by the Geological Evaluation Unit under Section 53 (4) Yukon Quartz Mining Act and is allowed as representation work in the amount of $ 4800.00.

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

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History

First explored by Canadian Occidental Petroleum who staked the area as the Tier group during the summer of 1979, to cover a Mo-Cu-Ba-F stream sediment anomaly identified by the GSC Uranium Reconnaissance Program. Mapping, radiometric and soil geochem surveys were carried out during 1979 and 1980. This work resulted in the delineation of an arcuate 1500m x 300m soil anomaly with up to 122 ppm Cu, 1350 ppm Zn and 4.8 ppm Ag in an area underlain by dacitic volcanic rocks. Samples of pyritic dacite tuff returned up to 675 ppm Zn and 98 ppm Cu. The area was re-staked as the Cy and ST claims during the fall of 1997, by Bernie Kreft on behalf of Eagle Plains Resources. The 1998 field program consisted of soil sampling and mapping. Soil values up to 3360 ppm Zn were returned from an area underlain by felsic volcanics.

Location And Access

The property is located in the south-central Yukon Territory, approximately 37 kilometres S.S.E. of Ross River, and approximately 14 kilometres north of the Ketza River mine-site. The mine access road is located approximately 1.0 kilometre east of the current property boundary. Topography is moderate to steep, but is nowhere a limiting factor to exploration. Although about 50% of the area is above treeline, true outcrop is rare due to extensive bedrock weathering and talus development.

Geology

The property is situated on the west side of the Tintina Fault within Pelly-Cassiar Platform strata which is coeval, and possibly correlative with, Yukon Tanana Terrane rocks in the Finlayson Lake district. Strata underlying the claims consists of an interbedded sequence of volcanic, pyroclastic and sedimentary rocks, Devonian to Triassic in age. A klippe of Silurian aged dolomite has been thrust over the volcanic-sedimentary sequence, and forms a northwest trending ridge along the northeast property boundary. These rocks are part of the same belt which hosts Atna's Wolf deposit (55 km SE), the MM deposit (30 km SW) and Eagle Plains's Fire and Ice projects (11 km SW).

Volcanic rocks consist predominantly of felsic tuffs and flows which commonly contain from 1% to 10% disseminated pyrite, the oxidation of which has resulted in the development of widespread gossans. Purple fluorite and abundant disseminated siderite has been noted in several outcrops of gossaned pyritic felsic ash tuff located immediately south of the recently discovered zinc anomaly. Maroon to dark-green fine grained volcanics also occur. These units contain a maximum of 0.5% disseminated pyrite, often contain calcite filled amygdules and are occasionally cut by quartz-calcite veins which contain occasional trace galena. Total width of the volcanic package in the central claims area, including two minor shale beds, is approximately 750 metres.

Bounding the volcanics are black shales, cherty black shales and black argillite. Two 5-10 metre wide black shale beds have been located within the volcanic package. Occasional quartz calcite veining has been noted within the sediments along the north side of the volcanics while the sediments to the south are often heavily veined and/or stockworked.

Previous Work

Work by Canadian Occidental resulted in the discovery of anomalous copper, zinc and silver from stream silts and soil samples within the central portion of what is now the Cy/ST claims area. Soils were taken on a rough grid with sample sites every 100m to 125m on lines spaced 150m to 300m apart. Results show a crude, arcuate 1500m x 300m soil anomaly with up to 122 ppm Cu, 1350 ppm Zn and 4.8 ppm Ag within an area underlain by dacitic volcanic rocks. Silt samples from the stream immediately east of the soil anomaly contain up to 1600 ppm Zn and 6.5 ppm Ag with occasional anomalous copper to 76 ppm. A sample of pyritic dacite tuff taken approximately 200m south of the soil anomaly returned 675 ppm Zn and 98 ppm Cu. The 1998 fieldwork consisted of soil-sampling and minor mapping. Up to 3360 ppm zinc in soils was returned from an area underlain by moderately chlorite altered quartz feldspar crystal tuff containing trace to 1% disseminated pyrite.

Current Work And Results

Work in 1999 consisted of grid soil sampling, rock sampling and minor mapping. Soils were taken on a 300m x 900m (25m x 100m spacings) grid roughly centred on the highest 1998 zinc in soil value. Results were contoured at the 84th, 72nd and 40th percentile of a total metal value based on the following formula: Zn + Ba + (Pb x 1.5) + (Cu x 2) = total metal. These results were further filtered using a minimum zinc value (200 ppm) needed for a sample to be considered anomalous. Three anomalous areas, all of which parallel stratigraphy, were outlined using the above method.

Anomaly A: Extends for 900 metres along the length of the grid and is open at both ends. Some mineral zonation is apparent, with barium/zinc predominating at the west end, copper/zinc in the centre and zinc/silver at the east end. Peak metal values within the anomaly are: 2064 ppm Zn, 161 ppm Cu, 137 ppm Pb, 1417 ppm Ba and 4.0 ppm Ag.

Anomaly B: Is a 300 metre long (open to the east) Zn/Pb/Ba anomaly located slightly north of Anomaly A, at the east end of the grid. Peak metal values are: 1582 ppm Zn, 56 ppm Cu, 385 ppm Pb, 744 ppm Ba and 2.4 ppm Ag. Metal values are highest at the eastern extremity of the anomaly.

Anomaly C: Is located along the south edge of the grid, near its west end. Peak metal values are: 1942 ppm Zn, 106 ppm Cu, 79 ppm Pb and 759 ppm Ba. There are no silver values associated with this anomaly.

Prospecting was concentrated in the vicinity of the highest 1998 zinc in soil value, while a minor amount of reconnaissance type work was conducted throughout the remainder of the grid area. This work resulted in the collection of 19 rock samples, and 20 close-spaced soil/talus fine samples. Rock sampling results show that a chlorite altered quartz feldspar crystal tuff unit with trace to 1.5% pyrite is consistently enriched in zinc (7 samples: 1645 ppm Zn to 7031 ppm Zn) along with occasional anomalous copper (max 217 ppm), cadmium (max 38.1 ppm) and tungsten (max 52 ppm). This unit is the likely source for anomalies A and C, and may also be responsible for Anomaly B. A sample of fericrete from the east end of anomaly B contained anomalous values in lead (134 ppm), zinc (2429 ppm) and molybdenum (24 ppm).

The soil/talus fine samples were taken in a single line (6.25 metre spacings) designed to cross-cut stratigraphy in the vicinity of the highest 1998 zinc in soil value. Maximum values were 6148 ppm Zn, 179 ppm Pb, 257 ppm Cu and 746 ppm Ba; along with occasional highly anomalous tungsten and cadmium. Silver values were below detection limit. The highest metal values correspond with the chlorite altered quartz feldspar crystal tuff unit.

Conclusions

The chlorite altered quartz feldspar crystal tuff unit is consistently highly anomalous in zinc. The size and shape of the soil anomalies is consistent with what would be expected with a stratiform type target. Geology, mineralogy and geochemistry is consistent with what would be expected in a VMS system. The property is located close to existing infrastructure and supply centres.

Recommendations

Further work is recommended for this property. It should consist of an expansion of the geochemical grid to at least 600 west, 1200 east and 350 south. Detailed prospecting should be completed over all high soil anomalies, especially: anomaly B, anomaly C and the east end of anomaly A. Pending continued favourable results from prospecting and soil geochemistry, geophysical work should be completed to help advance the property to the drill stage.

Certification

I, Bernie Kreft, was present and witnessed the exploration work described herein. I have twelve years experience prospecting in the Yukon.

This report is based on fieldwork conducted or witnessed by myself, and includes information from assessment reports 090636, 090842 and Eagles Plains 1998 report FFAC.

This report is based on work completed on the Cy and ST claims.

This work was completed during August 1999.

Respectfully Submitted,

Bernie Kreft

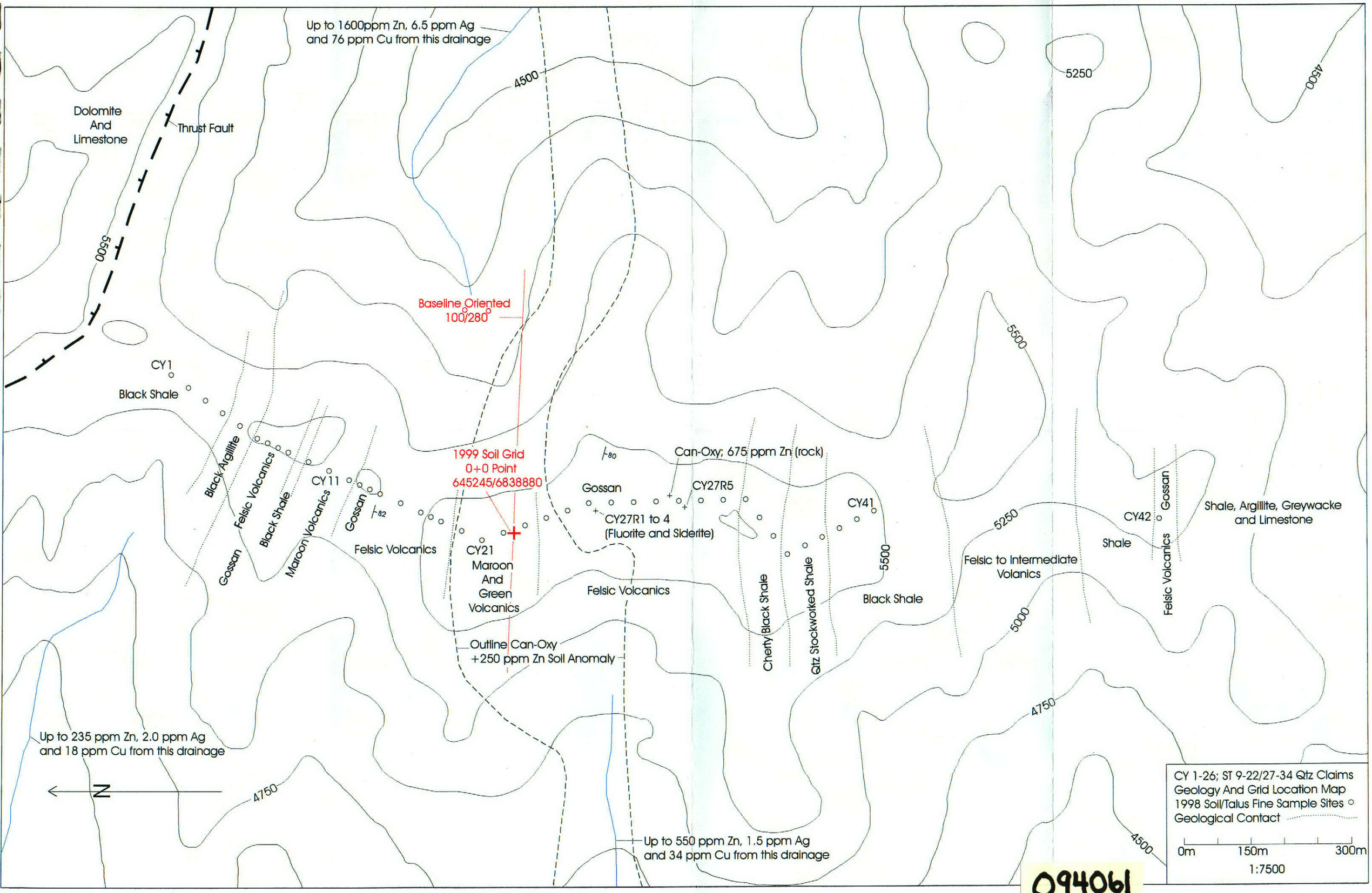
Rock Sample Descriptions

PCYR-1 > black siltstone trace diss pyrite
PCYR-2 > fericrete
PCYR-3 > as per PCYR-1
PCYR-4 > black siltstone
PCYR-5 > qtz crystal tuff with trace pyrite
PCYR-6 > dark fine-grained tuff/sed?? Fine minor diss pyrite plus a narrow x-cutting qtz vein
PCYR-7 > felsic volcanic with weak sericite alteration and minor diss siderite 2% diss pyrite

BCYR-1 > qtz crystal tuff cream-white g-mass, minor green fluorite
BCYR-2 > chloite altered qtz crystal tuff,trace fine diss py, green fluorite fragments common
BCYR-3 > creamy fine-grained qtz-crystal tuff, several qtz-pyrite fragments and minor green fluorite
BCYR-4 > qtz feldspar crystal tuff as above
BCYR-5 > qtz crystal tuff with a few qtz sulphide fragments
BCYR-6 > as per -3
BCYR-7 > moderately chlorite altered fine grained qtz crystal tuff with 0.5% fine diss pyrite
BCYR-8 >
BCYR-9 > fine grained creamy bedded tuff with 7.5% fine pyrite as wisps and disseminations oriented parallel to bedding weak chlorite alteration
BCYR-10 > qtz crystal tuff with around 40% qtz fragments in a fine grey weakly pyritic groundmass
BCYR-11 > qtz crystal tuff with green fluorite and minor chlorite alteration of groundmass, about 5% fine diss pyrite in groundmass
BCYR-12 > as above with around 20% pyrite in g-mass

Costs

Food and camp supplies (4 man-days x $35/day)	=	$149.80
Report Reproduction	=	$100.00
Sample Analysis	=	$2648.25
Wages Bernie Kreft (2 man-days x $375/day)	=	$802.50
Wages P.Christensen (2 man-days x $150/day)	=	$321.00
Helicopter Charter	=	$1243.04
Report Preparation	=	$802.50
Truck Costs (800 km x 0.42/km)	=	$359.52
Room And Board (Welcome Inn)	=	$101.65
TOTAL	=	$6528.26


Up to 1600ppm Zn, 6.5 ppm Ag
and 76 ppm Cu from this drainage
4500
5250
4500
Dolomite
And
Limestone
Thrust Fault
5500
Baseline Oriented
100/280°
5500
CY1
Black Shale
Black Argillite
Felsic Volcanics
Black Shale
Maroon Volcanics
CY11
Gossan
Gossan
Felsic Volcanics
1999 Soil Grid
0+0 Point
645245/6838880
CY21
Maroon
And
Green
Volcanics
Felsic Volcanics
Gossan
Can-Oxy; 675 ppm Zn (rock)
CY27R5
CY27R1 to 4
(Fluorite and Siderite)
CY41
5500
Black Shale
Cherty Black Shale
Qtz Stockworked Shale
5250
Felsic to Intermediate
Volanics
5000
CY42
Gossan
Shale
Felsic Volcanics
Shale, Argillite, Greywacke
and Limestone
Outline Can-Oxy
+250 ppm Zn Soil Anomaly
Up to 235 ppm Zn, 2.0 ppm Ag
and 18 ppm Cu from this drainage
N
4750
4750
Up to 550 ppm Zn, 1.5 ppm Ag
and 34 ppm Cu from this drainage
4500
CY 1-26; ST 9-22/27-34 Qtz Claims
Geology And Grid Location Map
1998 Soil/Talus Fine Sample Sites
Geological Contact
0m
150m
300m
1:7500

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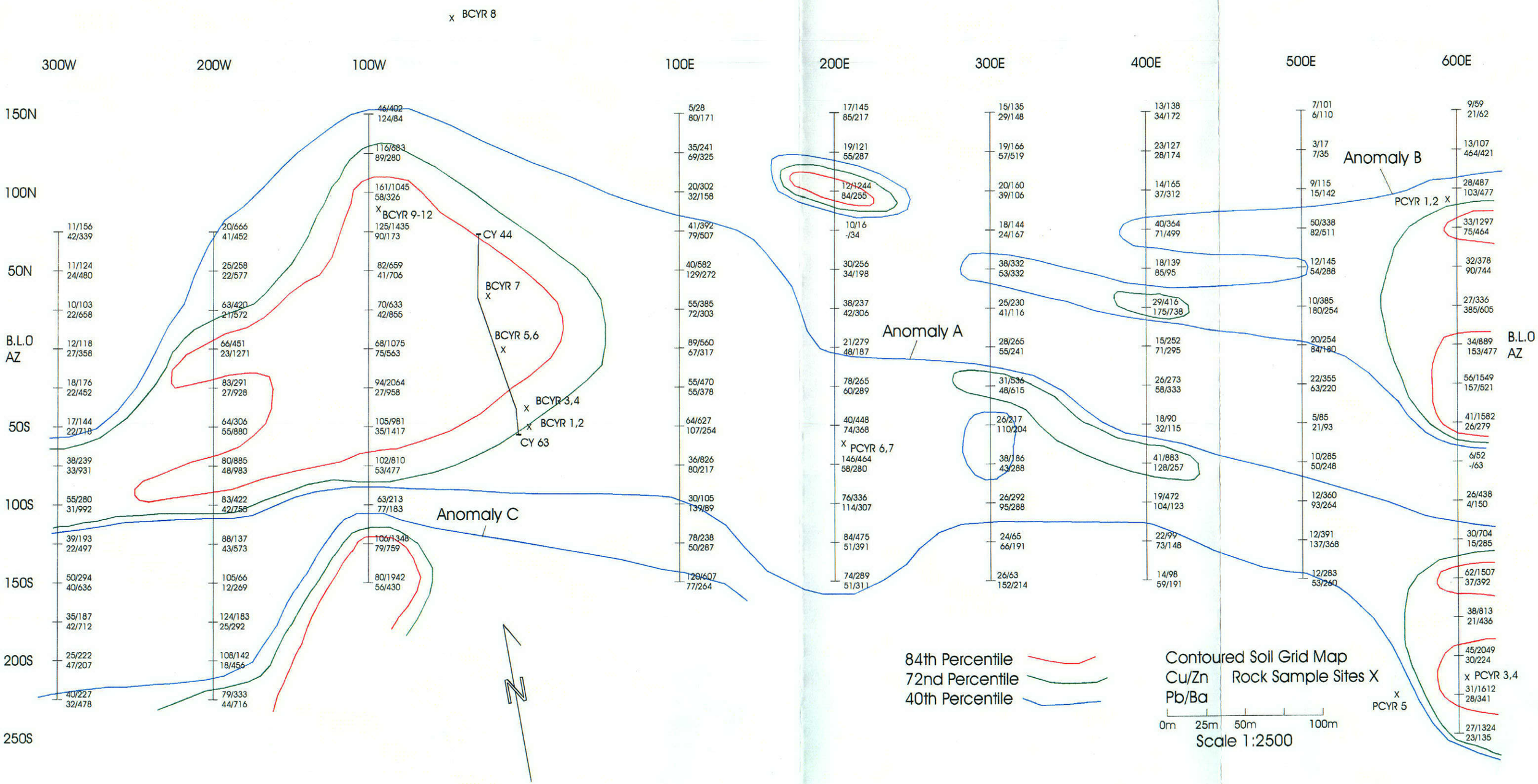
BCYR 8
300W
200W
100W
100E
200E
300E
400E
500E
600E
150N
100N
50N
B.L.O
AZ
50S
100S
150S
200S
250S
BCYR 9-12
CY 44
BCYR 7
BCYR 5,6
BCYR 3,4
BCYR 1,2
CY 63
PCYR 6,7
Anomaly A
Anomaly B
Anomaly C
PCYR 1,2
PCYR 3,4
PCYR 5
N
84th Percentile
72nd Percentile
40th Percentile
Contoured Soil Grid Map
Cu/Zn
Pb/Ba
Rock Sample Sites X
0m
25m
50m
100m
Scale 1:2500

094061

CERTIFICATE OF ANALYSIS
iPL 99H0736

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Client : Northern Analytical Laboratories
Project: W.O. 05721

160 Samples
160=Pulp

[073608:49:23:99082099]

Out: Aug 20, 1999
In : Aug 13, 1999

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
BYCR - 1	P	<	50	70	339	19	<	<	3	<	<	1.0	4	9	364	<	28	20	32	41	221	3	9	<	0.65	0.67	1.27	0.07	0.43	0.02	0.32
BYCR - 2	P	<	100	53	2433	19	<	<	1	<	<	9.7	35	45	64	25	12	17	137	3	226	2	10	<	0.49	1.92	2.50	0.51	0.40	0.02	0.09
BYCR - 3	P	<	105	29	3939	20	<	<	<	<	<	16.2	38	45	82	28	18	18	1023	9	386	3	12	<	0.58	8.78	2.37	0.53	0.39	0.02	0.18
BYCR - 4	P	<	88	48	3539	33	<	<	<	<	<	16.4	27	35	75	30	23	28	140	27	308	3	14	<	0.96	3.36	1.51	0.46	0.59	0.02	0.60
BYCR - 5	P	0.5	153	62	1645	17	<	<	1	<	<	9.1	25	28	507	<	26	40	1290	5	211	2	16	<	0.78	8.34	3.69	1.20	0.49	0.02	0.28
BYCR - 6	P	<	46	27	4080	14	<	<	<	<	<	15.4	25	18	705	9	19	25	333	14	468	3	19	<	0.82	7.91	3.53	1.11	0.50	0.02	0.27
BYCR - 7	P	<	217	74	3501	42	<	<	<	<	<	20.9	51	84	40	23	23	30	217	6	68	2	12	<	0.93	1.20	2.87	0.20	0.62	0.02	0.20
BYCR - 8	P	<	10	20	108	<	<	<	2	<	<	<	12	13	193	<	9	28	2297	23	174	3	9	<	0.73	4.65	6.82	0.52	0.46	0.02	0.37
BYCR - 9	P	<	20	49	130	22	<	<	10	<	<	0.8	6	13	91	<	15	7	63	10	7	8	1	<	1.06	0.04	3.42	0.24	0.24	0.02	0.01
BYCR - 10	P	<	60	34	366	<	<	<	3	<	<	3.6	52	53	111	<	18	41	1809	7	135	4	16	<	0.62	11%	5.44	2.47	0.40	0.02	0.23
BYCR - 11	P	<	51	84	39	21	<	<	2	<	<	<	84	70	32	<	30	29	286	11	227	4	7	<	0.85	3.46	4.02	0.44	0.58	0.02	0.74
BYCR - 12	P	<	50	48	39	5	<	<	4	<	<	0.5	55	68	114	<	16	31	1075	3	238	2	12	<	0.55	7.35	4.39	1.74	0.41	0.02	0.20
CY - 44	P	<	86	92	818	13	<	<	2	<	<	0.3	33	33	172	13	9	25	468	12	132	1	8	<	0.64	0.17	4.59	0.12	0.35	0.03	0.14
CY - 45	P	<	92	104	927	6	<	<	1	<	<	0.7	47	36	140	7	7	25	563	13	135	1	9	<	0.62	0.11	4.83	0.10	0.37	0.03	0.14
CY - 46	P	<	91	84	865	5	<	<	2	<	<	0.4	27	38	111	<	7	23	253	13	156	1	8	<	0.58	0.16	4.61	0.10	0.43	0.03	0.14
CY - 47	P	<	215	179	3872	18	<	<	<	<	<	9.8	129	104	548	37	9	25	1446	24	80	1	18	<	0.62	0.28	6.11	0.08	0.21	0.02	0.17
CY - 48	P	<	130	108	1473	13	<	<	1	<	<	1.9	90	52	296	10	9	28	957	16	101	1	11	<	0.65	0.09	5.47	0.10	0.30	0.02	0.18
CY - 49	P	<	177	132	1916	8	<	<	1	<	<	2.7	128	68	515	<	6	26	1242	16	70	1	16	<	0.54	0.12	5.79	0.07	0.24	0.02	0.20
CY - 50	P	<	111	67	814	5	<	<	<	<	<	0.3	36	42	550	5	5	22	269	13	64	1	6	<	0.46	0.06	4.67	0.06	0.20	0.02	0.20
CY - 51	P	<	143	102	1220	<	<	<	1	<	<	0.6	63	70	244	14	4	20	326	15	91	1	10	<	0.43	0.16	6.05	0.06	0.19	0.02	0.16
CY - 52	P	<	125	143	1985	<	<	<	1	<	<	3.6	45	52	511	26	6	20	304	12	84	1	14	<	0.45	0.16	5.72	0.09	0.19	0.02	0.16
CY - 53	P	<	208	82	3333	12	<	<	1	<	<	10.4	79	85	693	39	8	24	590	11	42	2	19	<	0.50	0.29	6.08	0.11	0.16	0.02	0.14
CY - 54	P	<	126	62	1384	18	<	<	2	<	<	3.1	45	55	746	<	11	31	423	6	29	2	9	<	0.79	0.13	4.78	0.16	0.14	0.02	0.15
CY - 55	P	<	110	45	3510	18	<	<	<	<	<	15.7	34	38	676	25	9	24	638	18	73	1	12	<	0.53	0.30	3.91	0.07	0.20	0.02	0.13
CY - 56	P	<	155	82	3871	17	<	<	<	<	<	14.8	61	66	402	33	7	22	686	14	72	1	13	<	0.46	0.36	4.60	0.09	0.20	0.02	0.14
CY - 57	P	<	244	104	5357	14	<	<	<	<	<	20.5	112	84	121	67	7	27	1063	10	77	2	15	<	0.55	0.26	7.03	0.08	0.23	0.03	0.13
CY - 58	P	<	184	96	6148	12	<	<	<	<	<	22.4	119	67	147	41	5	16	598	8	51	1	16	<	0.29	0.28	5.05	0.04	0.17	0.02	0.12
CY - 59	P	<	257	154	4983	10	<	<	<	<	<	14.3	61	85	272	40	4	19	313	13	66	2	17	<	0.34	0.21	7.40	0.02	0.18	0.02	0.17
CY - 60	P	<	106	167	1287	<	<	<	2	<	<	1.9	40	50	79	12	3	22	262	6	412	2	9	<	0.27	0.19	6.72	0.06	0.56	0.02	0.12
CY - 61	P	<	68	99	346	<	<	<	2	<	<	0.4	29	36	125	5	4	20	120	18	243	1	5	<	0.36	0.05	3.97	0.04	0.30	0.02	0.10
CY - 62	P	<	105	52	882	<	<	<	1	<	<	0.9	33	45	566	<	5	30	171	10	189	1	8	<	0.44	0.22	4.59	0.08	0.20	0.02	0.14
CY - 63	P	<	172	104	1868	<	<	<	<	<	<	4.6	105	73	137	12	5	22	604	10	275	1	12	<	0.38	0.21	5.87	0.06	0.33	0.03	0.19
PCYR - 1	P	0.3	4	13	158	20	<	<	2	<	<	1.0	1	3	134	<	55	5	42	8	23	3	1	<	0.21	0.06	0.46	0.01	0.05	0.02	0.05
PCYR - 2	P	0.3	36	134	2429	<	<	<	24	<	<	0.7	16	54	893	8	41	41	1034	9	24	7	2	<	0.55	0.12	9.31	0.05	0.13	0.02	0.10
PCYR - 3	P	<	10	14	197	12	<	<	4	<	<	0.3	4	11	1084	<	27	11	1215	8	495	4	2	0.01	0.31	18%	2.41	5.23	0.15	0.04	0.04
PCYR - 4	P	0.3	39	9	409	5	<	<	1	<	<	1.8	3	16	114	<	58	8	306	6	104	3	3	<	0.33	5.86	1.42	2.10	0.19	0.02	0.03
PCYR - 5	P	0.3	38	19	7031	19	<	<	<	<	<	38.1	7	41	100	52	102	19	327	3	53	4	5	<	0.53	2.37	4.90	0.45	0.16	0.02	0.03
PCYR - 6	P	<	12	13	441	<	<	<	10	<	<	0.3	9	23	217	<	68	6	1729	98	24	7	1	<	0.66	0.42	4.99	0.05	0.47	0.02	0.02
PCYR - 7	P	<	9	20	165	8	<	<	3	<	<	0.5	5	15	208	<	22	5	1653	36	22	15	1	<	0.95	1.59	4.43	0.33	0.51	0.02	0.01
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	999	9999	999	999	9999	99.9	9999	9999	9999	999	9999	9999	9999	9999	9999	9999	9999	1.00	9.99	9.99	9.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

——=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No SampleP=Pulp

CERTIFICATE OF ANALYSIS
iPL 99H0736

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Client : Northern Analytical Laboratories
Project: W.O. 05721

160 Samples
160=Pulp

[073608:49:23:99082099]

Out: Aug 20, 1999
In : Aug 13, 1999

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
100E 0N	P	<	89	67	560	<	<	<	4	<	<	<	28	42	317	13	6	26	301	14	122	1	6	<	0.38	0.15	5.32	0.07	0.24	0.02	0.13
100E 25N	P	<	55	72	385	<	<	<	6	<	<	<	15	19	303	<	5	29	393	20	76	1	4	<	0.37	0.12	5.30	0.06	0.24	0.02	0.10
100E 50N	P	<	40	129	582	7	<	<	6	<	<	1.1	14	17	272	<	3	19	196	10	82	1	5	<	0.28	0.10	3.93	0.02	0.32	0.02	0.08
100E 75N	P	<	41	79	392	8	<	<	5	<	<	<	9	17	507	<	4	25	136	8	41	1	5	<	0.36	0.05	4.35	0.03	0.18	0.02	0.10
100E 100N	P	<	20	32	302	<	<	<	12	<	<	<	6	9	158	<	3	17	384	8	6	1	1	<	0.40	0.02	4.52	0.02	0.10	0.02	0.05
100E 125N	P	0.1	35	69	241	20	<	<	13	<	<	<	4	9	325	5	2	22	210	92	37	1	1	<	0.48	0.03	4.56	0.02	0.22	0.02	0.10
100E 150N	P	0.1	5	80	28	11	<	<	8	<	<	<	1	5	171	<	1	8	18	11	30	1	1	<	0.17	0.01	2.03	<	0.32	0.02	0.03
100E 25S	P	<	55	55	470	<	<	<	4	<	<	0.5	14	22	378	<	4	22	312	7	30	3	5	<	0.32	0.19	5.63	0.04	0.14	0.02	0.08
100E 50S	P	<	64	107	627	7	<	<	4	<	<	0.2	27	29	254	8	4	22	281	6	90	1	5	<	0.35	0.12	4.27	0.04	0.30	0.02	0.11
100E 75S	P	<	36	80	826	<	<	<	9	<	<	<	7	13	217	13	2	14	285	59	33	1	2	<	0.28	0.06	5.22	0.02	0.19	0.02	0.08
100E 100S	P	0.1	30	139	105	<	<	<	7	<	<	<	12	11	89	<	1	12	157	31	186	4	3	<	0.18	0.14	3.51	0.02	0.57	0.02	0.07
100E 125S	P	<	78	50	238	<	<	<	4	<	<	<	25	34	287	<	6	24	528	33	53	2	10	<	0.43	0.29	4.89	0.10	0.20	0.02	0.11
100E 150S	P	0.1	120	77	607	22	<	<	5	<	<	0.5	51	56	264	<	7	32	623	69	93	2	11	<	0.75	0.50	4.55	0.09	0.49	0.02	0.14
100W 0N	P	0.2	68	75	1075	19	<	<	6	<	<	0.6	34	40	563	18	13	29	290	9	59	2	9	<	0.86	0.25	4.79	0.29	0.19	0.02	0.09
100W 25N	P	0.1	70	42	633	36	<	<	1	<	<	1.4	33	40	855	<	20	35	421	12	70	2	9	<	1.09	0.52	3.43	0.43	0.13	0.02	0.09
100W 50N	P	0.1	82	41	659	23	<	<	2	<	<	1.0	42	49	706	9	17	31	454	13	82	2	8	0.01	0.78	0.54	3.53	0.29	0.13	0.02	0.08
100W 75N	P	<	125	90	1435	7	<	<	9	<	<	8.5	43	69	173	17	8	25	292	27	173	2	11	<	0.37	0.51	5.89	0.14	0.44	0.02	0.14
100W 100N	P	<	161	58	1045	<	<	<	3	<	<	1.1	68	81	326	<	9	32	1163	14	56	2	14	0.01	0.54	0.54	5.72	0.15	0.14	0.02	0.14
100W 125N	P	0.1	116	89	683	<	<	<	9	<	<	0.7	49	53	280	10	9	28	1025	20	63	2	11	0.01	0.50	0.46	5.67	0.12	0.34	0.02	0.12
100W 150N	P	0.3	46	124	402	11	<	<	9	<	<	0.3	17	23	84	<	3	16	294	45	69	3	3	<	0.29	0.19	4.66	0.04	0.57	0.02	0.07
100W 25S	P	<	94	27	2064	<	<	<	3	<	<	3.5	32	50	958	16	6	35	1532	13	54	2	21	<	0.48	0.77	5.89	0.11	0.11	0.02	0.21
100W 50S	P	<	105	35	981	7	<	<	<	<	<	1.3	42	64	1417	7	8	27	671	8	123	1	18	<	0.80	0.65	5.47	0.28	0.13	0.02	0.11
100W 75S	P	<	102	53	810	<	<	<	4	<	<	<	58	78	477	<	8	28	844	13	191	1	13	<	0.75	0.28	6.17	0.15	0.18	0.02	0.15
100W 100S	P	<	63	77	213	<	<	<	3	<	<	<	25	41	183	<	6	28	604	6	142	2	10	<	0.46	0.63	5.41	0.13	0.49	0.02	0.11
100W 125S	P	<	106	79	1348	<	<	<	14	<	<	4.3	97	92	759	<	5	20	3332	25	102	2	13	<	0.54	0.67	5.08	0.23	0.16	0.02	0.10
100W 150S	P	<	80	56	1942	5	<	<	2	<	<	12.1	19	43	430	11	4	21	273	8	216	2	8	<	0.48	1.11	4.49	0.13	0.22	0.02	0.15
200E 0N	P	0.3	21	48	279	13	<	<	9	<	<	11.3	10	19	187	<	9	26	653	35	25	1	1	0.01	0.70	0.11	4.00	0.08	0.23	0.02	0.13
200E 25N	P	0.1	38	42	237	12	<	<	4	<	<	0.7	15	25	306	<	19	41	767	14	21	1	2	0.01	0.75	0.07	3.78	0.13	0.12	0.02	0.08
200E 50N	P	<	30	34	256	13	<	<	6	<	<	0.4	12	23	198	<	14	33	296	14	19	1	2	0.01	0.79	0.06	3.29	0.15	0.15	0.02	0.04
200E 75N	P	<	10	<	16	15	<	<	<	<	<	0.1	2	3	34	<	1	12	56	3	9	1	<	0.02	0.55	0.15	0.51	0.05	0.03	0.04	0.05
200E 100N	P	0.1	12	84	1244	19	<	<	5	<	<	1.2	4	8	255	8	1	6	115	11	16	2	1	<	0.30	0.12	2.74	0.02	0.13	0.02	0.05
200E 125N	P	0.1	19	55	121	16	<	<	13	<	<	0.1	4	7	287	<	4	17	292	34	52	1	1	<	0.47	0.11	3.65	0.04	0.30	0.02	0.06
200E 150N	P	0.2	17	85	145	8	<	<	8	<	<	<	6	10	217	<	3	12	389	42	37	1	1	<	0.44	0.07	4.03	0.03	0.33	0.02	0.04
200E 25S	P	0.4	78	60	265	7	<	<	9	<	<	0.7	29	47	289	<	11	56	1255	9	31	1	5	<	0.46	0.20	5.37	0.08	0.15	0.02	0.12
200E 50S	P	0.1	40	74	448	9	<	<	4	<	<	2.1	17	14	368	<	3	19	373	28	48	1	3	<	0.49	0.14	3.53	0.03	0.22	0.02	0.13
200E 75S	P	0.1	146	58	464	<	<	<	8	<	<	0.4	33	50	280	<	4	31	1063	33	35	3	7	<	0.45	0.30	5.81	0.07	0.20	0.02	0.10
200E 100S	P	0.2	76	114	336	<	<	<	5	<	<	<	24	35	307	<	3	26	561	19	48	2	7	<	0.40	0.24	4.35	0.04	0.23	0.02	0.10
200E 125S	P	<	84	51	475	<	<	<	2	<	<	0.4	33	38	391	15	4	37	1026	11	41	2	9	<	0.43	0.44	4.67	0.09	0.18	0.02	0.11
200E 150S	P	0.2	74	51	289	<	<	<	3	<	<	0.2	15	22	311	<	4	32	238	17	42	1	6	0.01	0.55	0.33	3.48	0.09	0.15	0.03	0.09
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	999	9999	999	999	9999	99.9	9999	9999	9999	999	9999	9999	9999	9999	9999	9999	9999	1.00	9.99	9.99	9.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No SampleP=Pulp

CERTIFICATE OF ANALYSIS
iPL 99H0736

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Client : Northern Analytical Laboratories
Project: W.O. 05721

160 Samples
160=Pulp

[073608:49:23:99082099]

Out: Aug 20, 1999
In : Aug 13, 1999

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
200W 0N	P	<	66	23	451	13	<	<	3	<	7	0.9	31	48	1271	<	18	35	956	13	33	1	9	<	1.08	0.69	3.46	0.23	0.12	0.02	0.07
200W 25N	P	<	63	21	420	9	<	<	4	<	<	0.2	30	79	572	<	41	48	725	13	36	2	15	<	0.88	0.46	4.88	0.30	0.09	0.02	0.06
200W 50N	P	<	25	22	258	27	<	<	3	<	<	<	14	25	577	<	17	43	741	12	15	1	3	0.01	1.22	0.21	3.61	0.27	0.10	0.02	0.03
200W 75N	P	<	20	41	666	<	<	<	12	<	<	<	29	44	452	<	7	20	4587	9	9	2	4	<	0.85	0.17	6.66	0.18	0.07	0.02	0.03
200W 25S	P	<	83	27	291	11	<	<	2	<	<	<	39	43	928	<	12	36	1344	14	40	1	11	<	0.92	0.52	4.11	0.20	0.15	0.02	0.10
200W 50S	P	<	64	55	306	12	<	<	6	<	<	<	29	35	880	<	9	35	773	7	63	1	7	<	0.70	0.37	4.29	0.10	0.17	0.02	0.11
200W 75S	P	<	80	48	885	13	<	<	3	<	<	1.2	36	47	983	<	7	29	811	6	95	1	13	<	0.65	0.39	4.15	0.10	0.16	0.02	0.12
200W 100S	P	<	83	42	422	5	<	<	4	<	<	<	30	43	755	<	8	32	818	9	72	1	12	<	0.55	0.41	4.16	0.10	0.14	0.01	0.09
200W 125S	P	<	88	43	137	<	<	<	2	<	<	0.3	31	46	573	<	5	25	1203	7	91	1	10	<	0.32	1.11	4.01	0.08	0.13	0.02	0.09
200W 150S	P	<	105	12	66	5	<	<	1	<	<	0.3	30	43	269	5	5	22	429	3	21	<	12	<	0.38	0.29	2.58	0.05	0.08	0.02	0.05
200W 175S	P	<	124	25	183	<	<	<	1	<	<	<	42	81	292	<	11	39	502	4	30	1	19	<	0.53	0.32	4.04	0.08	0.12	0.02	0.08
200W 200S	P	<	108	18	142	8	<	<	2	<	<	<	38	88	456	6	13	39	842	6	37	1	25	<	0.62	1.07	4.41	0.14	0.11	0.02	0.11
200W 225S	P	<	79	44	333	6	<	<	6	<	<	0.6	46	79	716	<	10	32	2285	9	36	2	16	<	0.84	0.82	5.26	0.20	0.11	0.02	0.08
300E 0N	P	<	28	55	265	32	<	<	6	<	<	0.2	9	27	241	<	16	58	502	20	24	1	2	0.02	1.10	0.07	3.10	0.16	0.13	0.02	0.06
300E 25N	P	<	25	41	230	27	<	<	6	<	<	0.1	8	24	116	<	16	58	551	36	17	1	1	0.02	1.02	0.06	3.27	0.15	0.13	0.02	0.04
300E 50N	P	0.2	38	53	332	28	<	<	4	<	<	0.6	22	44	332	5	21	41	871	30	39	1	4	0.04	1.03	0.26	3.67	0.34	0.21	0.02	0.11
300E 75N	P	<	18	24	144	11	<	<	4	<	<	0.6	7	14	167	<	9	40	676	23	13	<	1	0.01	0.49	0.03	2.13	0.04	0.11	0.02	0.04
300E 100N	P	<	20	39	160	16	<	<	5	<	<	<	8	19	106	<	17	46	552	19	14	1	1	0.05	0.81	0.06	3.44	0.16	0.12	0.02	0.04
300E 125N	P	0.1	19	57	166	27	<	<	7	<	<	0.8	16	11	519	6	9	35	6449	12	10	<	1	<	0.53	0.06	2.26	0.03	0.08	0.02	0.09
300E 150N	P	<	15	29	135	24	<	<	3	<	<	0.7	7	15	148	<	21	35	333	17	13	1	1	0.01	0.97	0.11	2.28	0.23	0.07	0.02	0.05
300E 25S	P	0.3	31	48	536	5	<	<	12	<	<	1.0	15	31	615	<	12	29	1795	21	31	1	3	0.01	0.75	0.21	4.77	0.18	0.12	0.02	0.06
300E 50S	P	0.4	26	110	217	29	<	<	31	<	<	<	8	27	204	<	3	21	896	32	47	1	1	0.01	0.56	0.11	4.86	0.05	0.25	0.03	0.05
300E 75S	P	<	38	43	186	17	<	<	10	<	<	<	13	26	288	<	7	28	520	37	29	<	1	<	0.76	0.11	3.32	0.08	0.16	0.03	0.06
300E 100S	P	0.7	26	95	292	29	<	<	24	<	<	1.2	9	21	288	<	6	30	1492	50	54	1	2	0.01	0.80	0.19	3.91	0.08	0.27	0.04	0.07
300E 125S	P	0.2	24	66	65	22	<	<	9	<	<	<	8	13	191	<	4	32	1185	45	21	1	1	0.02	0.73	0.07	3.82	0.08	0.20	0.03	0.05
300E 150S	P	0.3	26	152	63	5	<	<	10	<	<	<	9	18	214	<	4	31	1186	43	30	1	1	0.02	0.65	0.06	4.40	0.08	0.35	0.03	0.06
300W 0N	P	<	12	27	118	<	<	<	11	<	<	<	6	13	358	<	3	13	3946	9	8	3	2	<	0.92	0.14	7.28	0.19	0.05	0.02	0.02
300W 25N	P	<	10	22	103	9	<	<	13	<	<	<	5	14	658	<	2	11	4889	9	9	7	1	<	1.13	0.21	7.22	0.23	0.06	0.02	0.01
300W 50N	P	<	11	24	124	16	<	<	11	<	<	<	6	16	480	<	2	12	4944	10	11	7	2	<	1.40	0.35	7.55	0.24	0.10	0.02	0.02
300W 75N	P	<	11	42	156	6	<	<	14	<	<	<	5	12	339	<	3	13	4803	7	12	2	1	<	0.84	0.15	6.08	0.13	0.05	0.02	0.02
300W 25S	P	<	18	22	176	<	<	<	11	<	<	<	9	19	452	<	7	23	2730	7	9	2	2	<	0.68	0.10	7.03	0.11	0.08	0.02	0.04
300W 50S	P	<	17	22	144	5	<	<	6	<	<	<	7	15	718	<	13	29	1554	7	23	1	3	<	0.72	0.67	4.67	0.15	0.07	0.02	0.07
300W 75S	P	0.1	38	33	239	15	<	<	7	<	<	0.8	11	31	931	<	13	46	698	15	28	1	3	<	0.71	0.19	3.91	0.13	0.14	0.02	0.08
300W 100S	P	<	55	31	280	19	<	<	3	<	<	0.8	15	31	992	<	13	38	495	11	38	1	5	<	0.98	0.43	3.68	0.19	0.15	0.02	0.12
300W 125S	P	<	39	22	193	13	<	<	7	<	<	0.2	12	28	497	<	10	57	529	13	21	1	1	<	0.70	0.13	3.49	0.09	0.12	0.02	0.07
300W 150S	P	0.1	50	40	294	5	<	<	5	<	<	<	19	33	636	<	13	48	1354	17	26	1	2	<	0.63	0.14	4.81	0.08	0.14	0.02	0.12
300W 175S	P	0.1	35	42	187*	7	<	<	8	<	<	<	12	26	712	<	8	50	531	13	27	<	2	0.01	0.36	0.13	3.15	0.05	0.10	0.02	0.07
300W 200S	P	0.7	25	47	222	14	<	<	5	<	<	0.8	8	19	207	<	10	44	369	10	33	1	2	0.01	0.60	0.05	3.72	0.10	0.09	0.02	0.08
300W 225S	P	0.3	40	32	227	22	<	<	5	<	<	0.8	15	29	478	7	17	43	466	12	21	1	3	0.01	1.00	0.05	3.90	0.20	0.09	0.02	0.08
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	999	9999	999	999	9999	99.9	9999	9999	9999	999	9999	9999	9999	9999	9999	9999	9999	1.00	9.99	9.99	9.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

——=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No SampleP=Pulp

CERTIFICATE OF ANALYSIS
iPL 99H0736

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INTERNATIONAL PLASMA LABORATORY LTD.

Client : Northern Analytical Laboratories
Project: W.O. 05721

160 Samples
160=Pulp

[073608:49:23:99082099]

Out: Aug 20, 1999
In : Aug 13, 1999

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
400E 0N	P	0.5	15	71	252	9	<	<	5	<	<	0.5	6	14	295	<	5	19	531	14	44	<	1	<	0.51	0.14	2.31	0.06	0.09	0.02	0.09
400E 25N	P	0.7	29	175	416	24	<	<	4	<	<	3.0	13	28	738	<	16	42	779	14	40	1	2	0.01	0.91	0.46	2.97	0.23	0.12	0.02	0.10
400E 50N	P	0.3	18	85	139	30	<	<	5	<	<	0.4	4	15	95	8	11	48	138	10	18	<	<	0.01	0.76	0.04	2.11	0.07	0.06	0.02	0.06
400E 75N	P	0.2	40	71	364	<	<	<	5	<	<	<	12	20	499	<	7	28	418	18	43	1	1	<	0.51	0.06	4.13	0.06	0.21	0.02	0.12
400E 100N	P	0.4	14	37	165	27	<	<	4	<	<	0.2	6	9	312	<	5	23	378	18	20	1	2	0.01	1.08	0.19	1.85	0.08	0.08	0.04	0.07
400E 125N	P	<	23	28	127	15	<	<	5	<	<	1.4	8	15	174	<	10	38	1273	20	8	<	<	0.01	0.59	0.02	2.23	0.05	0.07	0.02	0.05
400E 150N	P	0.2	13	34	138	28	<	<	6	<	<	1.5	7	17	172	<	14	33	1111	30	15	1	1	0.03	0.89	0.07	2.71	0.16	0.08	0.02	0.05
400E 25S	P	0.1	26	58	273	12	<	<	13	<	<	<	13	22	333	<	8	22	2542	27	30	1	1	0.01	0.59	0.13	4.11	0.11	0.12	0.02	0.06
400E 50S	P	0.1	18	32	90	6	<	<	8	<	<	0.9	7	15	115	<	5	20	652	35	13	1	1	0.01	0.46	0.05	2.95	0.03	0.10	0.02	0.06
400E 75S	P	0.3	41	128	883	14	<	<	8	<	<	4.1	23	37	257	14	4	35	1800	24	31	1	6	<	0.65	0.20	4.52	0.04	0.13	0.02	0.15
400E 100S	P	0.4	19	104	472	6	<	<	5	<	<	1.8	8	16	123	5	3	12	497	27	29	3	3	<	0.38	0.34	2.70	0.04	0.09	0.02	0.14
400E 125S	P	0.2	22	73	99	16	<	<	12	<	<	<	7	16	148	<	5	18	543	65	22	1	1	0.01	0.53	0.05	4.59	0.04	0.24	0.02	0.07
400E 150S	P	0.4	14	59	98	13	<	<	10	<	<	<	7	12	191	<	2	13	1471	42	25	1	1	0.01	0.50	0.08	3.61	0.04	0.25	0.03	0.07
500E 0N	P	0.3	20	84	254	26	<	<	5	<	<	1.5	8	20	180	<	12	38	465	16	29	1	<	<	0.68	0.10	2.72	0.12	0.09	0.02	0.11
500E 25N	P	0.5	10	180	385	7	<	<	5	<	<	0.5	4	10	254	<	3	21	560	13	23	1	1	<	0.35	0.17	1.84	0.04	0.06	0.02	0.10
500E 50N	P	0.5	12	54	145	16	<	<	3	<	<	0.3	4	10	288	<	8	29	174	12	18	<	<	<	0.60	0.07	1.59	0.08	0.07	0.03	0.06
500E 75N	P	0.2	50	82	338	6	<	<	6	<	<	0.4	16	21	511	5	5	27	561	37	49	1	3	<	0.51	0.11	4.14	0.06	0.27	0.02	0.09
500E 100N	P	0.3	9	15	115	17	<	<	3	<	<	1.4	4	10	142	<	8	21	591	10	36	1	<	0.01	0.69	0.38	1.49	0.10	0.07	0.03	0.10
500E 125N	P	0.2	3	7	17	11	<	<	<	<	<	<	1	3	35	5	1	11	43	2	46	1	<	0.02	0.32	0.62	0.40	0.07	0.03	0.05	0.05
500E 150N	P	0.3	7	6	101	9	<	<	2	<	<	0.7	2	5	110	<	2	12	285	6	87	2	<	0.01	0.50	1.38	0.89	0.10	0.05	0.05	0.07
500E 25S	P	1.3	22	63	355	29	<	<	4	<	<	1.7	8	28	220	<	24	46	377	12	26	1	2	0.02	1.01	0.21	2.48	0.34	0.07	0.02	0.08
500E 50S	P	0.5	5	21	85	13	<	<	<	<	<	0.7	1	3	93	<	2	11	112	3	11	<	<	0.01	0.39	0.11	0.65	0.06	0.04	0.04	0.05
500E 75S	P	0.4	10	50	285	13	<	<	2	<	<	1.3	4	8	248	<	3	16	280	9	18	1	1	<	0.43	0.35	1.45	0.08	0.05	0.03	0.11
500E 100S	P	0.4	12	93	360	11	<	<	1	<	<	1.6	4	9	264	7	2	15	320	12	24	1	3	<	0.42	0.28	2.14	0.05	0.06	0.02	0.10
500E 125S	P	0.9	12	137	391	15	<	<	4	<	<	1.2	3	10	368	13	3	22	242	10	27	1	2	<	0.34	0.22	1.88	0.04	0.08	0.02	0.10
500E 150S	P	0.6	12	53	283	<	<	<	1	<	<	1.3	5	10	260	<	1	6	581	13	31	7	4	<	0.36	0.49	2.33	0.06	0.05	0.02	0.16
600E 0N	P	1.8	34	153	889	33	<	<	8	<	<	8.5	5	27	477	12	6	70	168	6	91	3	2	<	0.71	0.49	2.00	0.10	0.09	0.03	0.09
600E 25N	P	1.7	27	385	336	34	<	<	7	<	<	1.7	3	16	605	<	5	61	130	7	92	4	1	<	0.70	0.60	1.69	0.10	0.11	0.03	0.14
600E 50N	P	0.9	32	90	378	29	<	<	5	<	<	2.2	10	35	744	<	24	51	462	17	42	2	3	0.01	0.90	0.36	2.95	0.33	0.09	0.02	0.10
600E 75N	P	1.0	33	75	1297	31	<	<	14	<	<	9.0	16	51	464	16	11	45	834	12	30	1	2	<	0.58	0.24	4.65	0.16	0.07	0.02	0.13
600E 100N	P	0.6	28	103	487	16	<	<	7	<	<	1.7	9	20	477	<	8	33	456	24	52	1	3	<	0.61	0.20	3.17	0.11	0.11	0.02	0.10
600E 125N	P	3.8	13	464	107	37	8	5	24	<	<	2.7	2	12	421	5	9	121	183	12	123	3	1	<	0.59	0.15	1.84	0.04	0.12	0.03	0.11
600E 150N	P	0.8	9	21	59	9	<	<	6	<	<	<	2	5	62	5	5	35	82	8	13	<	<	0.01	0.31	0.05	1.16	0.04	0.05	0.03	0.04
600E 25S	P	2.4	56	157	1549	38	5	<	11	<	<	7.4	7	50	521	7	7	99	249	7	112	4	4	<	0.72	0.57	2.65	0.11	0.10	0.03	0.09
600E 50S	P	2.1	41	26	1582	34	<	<	3	<	<	7.3	8	48	279	20	5	37	272	6	43	4	3	<	0.66	0.89	2.34	0.13	0.07	0.03	0.10
600E 75S	P	0.1	6	<	52	8	<	<	1	<	<	<	2	2	63	<	1	14	57	2	16	1	<	0.02	0.33	0.32	0.48	0.06	0.03	0.06	0.03
600E 100S	P	1.3	26	4	438	11	<	<	1	<	<	1.3	4	14	150	<	3	11	193	4	24	2	2	0.01	0.42	0.64	0.90	0.12	0.05	0.06	0.05
600E 125S	P	1.7	30	15	704	20	<	<	1	<	<	0.9	8	28	285	14	6	21	429	5	40	3	3	0.01	0.51	1.47	1.66	0.19	0.05	0.04	0.09
600E 150S	P	4.0	62	37	1507	30	<	<	5	<	<	1.4	18	79	392	7	13	28	864	8	30	4	6	0.01	0.58	0.73	3.45	0.22	0.08	0.02	0.08
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	999	9999	999	999	9999	99.9	9999	9999	9999	999	9999	9999	9999	9999	9999	9999	9999	1.00	9.99	9.99	9.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No SampleP=Pulp

CERTIFICATE OF ANALYSIS
iPL 99H0736

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

Client : Northern Analytical Laboratories
Project: W.O. 05721

160 Samples
160=Pulp

[073608:49:23:99082099]

Out: Aug 20, 1999
In : Aug 13, 1999

Sample Name		Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
600E 175S	P	1.9	38	21	813	19	<	<	3	<	<	6.8	16	44	436	6	8	15	1451	6	47	2	2	<	0.42	2.65	1.74	0.25	0.06	0.02	0.14
600E 200S	P	1.3	45	30	2049	31	<	<	2	<	<	4.4	17	54	224	11	15	66	560	10	23	2	4	0.01	0.75	0.64	3.19	0.23	0.06	0.02	0.07
600E 225S	P	0.4	31	28	1612	31	<	<	2	<	<	1.8	17	43	341	<	20	87	694	12	21	1	3	0.02	1.00	0.31	3.51	0.28	0.06	0.02	0.05
600E 250S	P	1.4	27	23	1324	38	<	<	4	<	<	4.8	9	35	135	<	21	70	287	11	11	1	3	0.02	1.15	0.14	2.74	0.24	0.07	0.02	0.03
Min Limit		0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Max Reported*		99.9	20000	20000	20000	9999	999	9999	999	999	9999	99.9	9999	9999	9999	999	9999	9999	9999	9999	9999	9999	9999	1.00	9.99	9.99	9.99	9.99	9.99	5.00	5.00
Method		ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP

—=No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No SampleP=Pulp

Northern Analytical Laboratories ltd.

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17/09/98

Certificate of Analysis

Bernie Kreft

WO# 05603

Certified by

	Sample #	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm
s	CY 31	<5	<0.1	199	60	149	<0.1
s	CY 32	<5	<0.1	89	39	377	2.3
s	CY 33	<5	1.8	10	261	46	<0.1
s40	CY 34	<5	<0.1	15	184	61	<0.1
s	CY 35	<5	0.5	17	139	23	0.1
s	CY 36	<5	0.6	24	33	108	0.5
s	CY 37	<5	3.0	25	74	73	0.9
s	CY 38	<5	1.8	21	114	239	0.4
s	CY 39	<5	0.1	19	58	137	0.4
s40	CY 40	<5	<0.1	7	18	55	<0.1
s	CY 41	<5	0.2	13	14	80	0.2
s	CY 42	<5	<0.1	44	76	142	<0.1
r	CY27R1	<5	<0.1	10	62	94	0.3
r	CY27R2	<5	<0.1	13	63	211	1.8
r	CY27R3	<5	<0.1	16	46	241	2.0
r	CY27R4	<5	<0.1	14	55	238	1.5
r	CY27R5	<5	<0.1	23	26	8	<0.1

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17/09/98

Certificate of Analysis

Bernie Kreft

WO# 05603

Certified by

	Sample #	Au ppb	Ag ppm	Cu ppm	Pb ppm	Zn ppm	Cd ppm
s	CY 1	<5	<0.1	20	41	161	1.0
s	CY 2	<5	0.9	20	103	86	0.1
s	CY 3	<5	0.2	19	41	100	<0.1
s	CY 4	<5	<0.1	23	26	129	0.1
s	CY 5	<5	<0.1	11	45	110	0.6
s	CY 6	<5	0.2	22	69	70	0.1
s	CY 7	<5	0.4	55	85	76	<0.1
s	CY 8	<5	0.7	13	101	83	0.1
s	CY 9	<5	0.5	10	67	695	4.9
s	CY 10	<5	<0.1	10	42	82	<0.1
s	CY 11	<5	0.3	37	290	862	4.2
s	CY 12	<5	0.3	15	65	24	<0.1
s	CY 13	<5	0.2	10	74	86	<0.1
s	CY 14	<5	<0.1	8	67	82	<0.1
s	CY 15	<5	<0.1	14	83	53	<0.1
s	CY 16	<5	<0.1	120	69	137	0.3
s	CY 17	<5	<0.1	14	54	90	0.1
s	CY 18	<5	<0.1	94	73	938	5.6
s	CY 19	<5	<0.1	7	52	26	<0.1
s	CY 20	<5	<0.1	33	63	320	0.2
s	CY 21	<5	<0.1	40	63	359	0.6
s	CY 22	<5	<0.1	165	109	2110	5.5
s	CY 23	<5	<0.1	165	85	3360	11.3
s	CY 24	<5	<0.1	118	78	1139	2.6
s	CY 25	<5	<0.1	21	73	761	0.1
s	CY 26	<5	<0.1	38	122	223	0.5
s	CY 27	<5	<0.1	146	87	703	2.0
s	CY 28	<5	<0.1	162	77	328	0.9
s	CY 29	<5	<0.1	101	125	28	<0.1
s	CY 30	<5	<0.1	50	93	93	<0.1