Title: Reconnaissance Geochemical Survey of the Serp Property

Claims Worked: Serp 1 to 11

Record Numbers: 409770

Mining Division: Liard

NTS Map Sheet: 104I/11W and 06W

Mineral Titles Reference Maps: 104I053, 054, 043, 044

Latitude: 58° 29' 46"

Longitude: 129° 23' 12"

Claim Owner: Hard Creek Nickel Corp.

Operator: Hard Creek Nickel Corp.

Date Submitted: May 5, 2005

Author: B. K. Northcote

27777

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1. Summary

The Serp Claims, located at Lat. 58° 29' 46" Long. 129° 23' 12" in north western BC, are 100% owned and operated by Hard Creek Nickel Corporation. A geochemical survey conducted in summer 2004 returned elevated nickel values in soil and silt samples and outlined several anomalously high nickel areas in soil. However, sulfur analyses are uniformly low, suggesting that little nickel occurs in sulfide form. Platinum and palladium values are generally low (below detection), with the exception of the south eastern end of the survey where values are weakly anomalous.

A small malachite-chalcocite-chalcopyrite showing, also at the south eastern limit of the survey area, requires further prospecting and geological investigation to determine the nature and extent of mineralization. Chromium values are generally high in soils and exploration for podiform chromite deposits may be viable in the future, although presently not a priority. In addition, the area is prospective for nephrite jade.

2. Introduction

The Serp claims were staked by Hard Creek Nickel Corporation in 2004, In part on the basis of high Ni and Cu values reported in the British Columbia Regional Geochemical Survey database and on the presence of regionally mapped ultramafic rocks (Gabrielse, 1998), which are potentially prospective for Ni, Cu and PGE mineralization. The claims are 100% owned and operated by Hard Creek Nickel Corporation.

This report describes results of a reconnaissance geochemical survey that Hard Creek conducted in the summer of 2004.

3. Property Description and Access

The Serp Claims are located 38 km east of the community of Dease Lake. Consisting of eleven contiguous four post claims, they cover an area of approximately 5,430 hectares, with elevations ranging from swampy areas below 1230 m to several peaks above 2000 m. Black Spruce and balsam dominate the forested areas, but the central part of the claim block is largely above tree line in alpine tundra. Outcrop exposure is generally good above tree line. Wildlife sightings include caribou, grizzly bear and fox. Access is by helicopter.

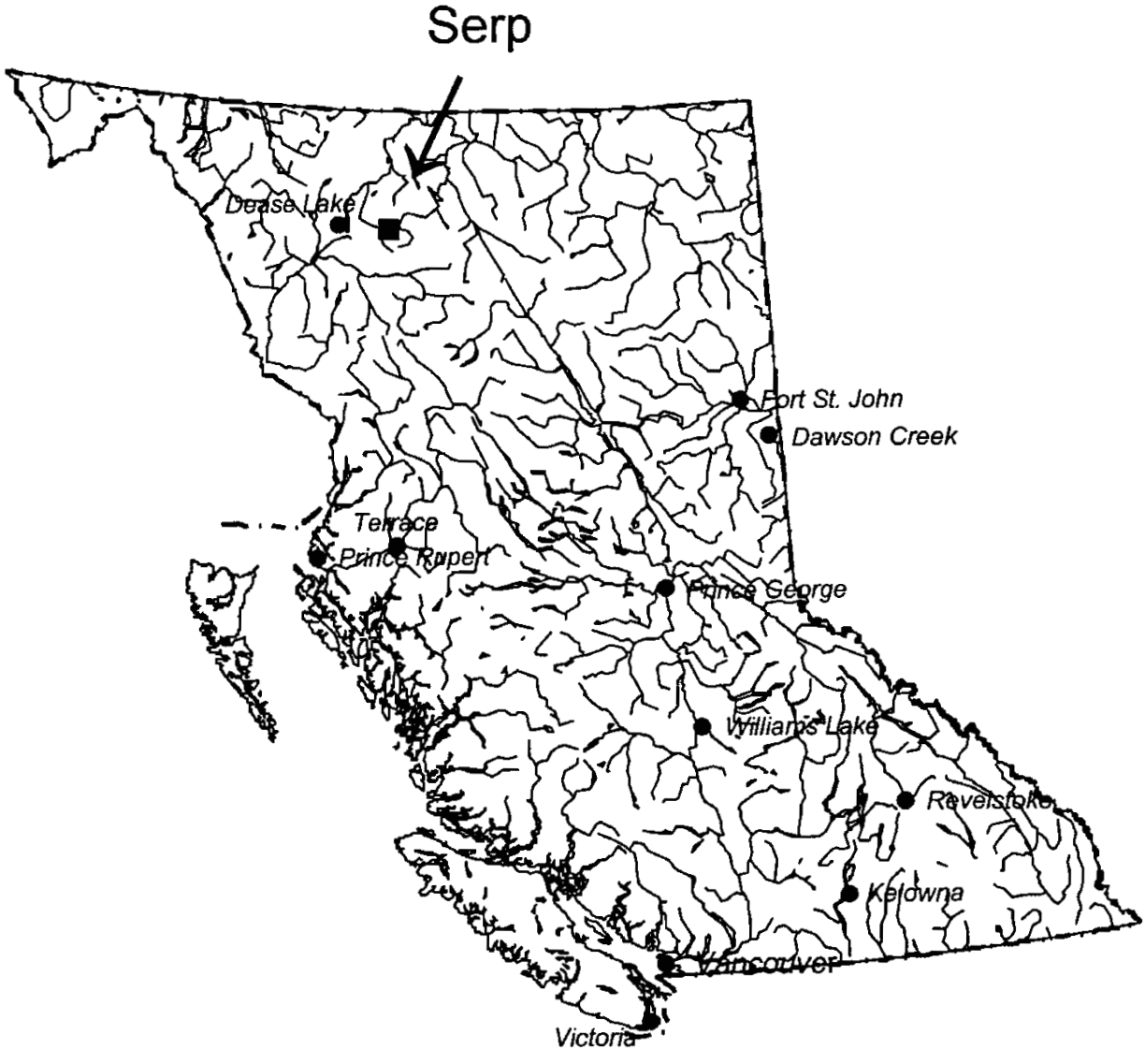
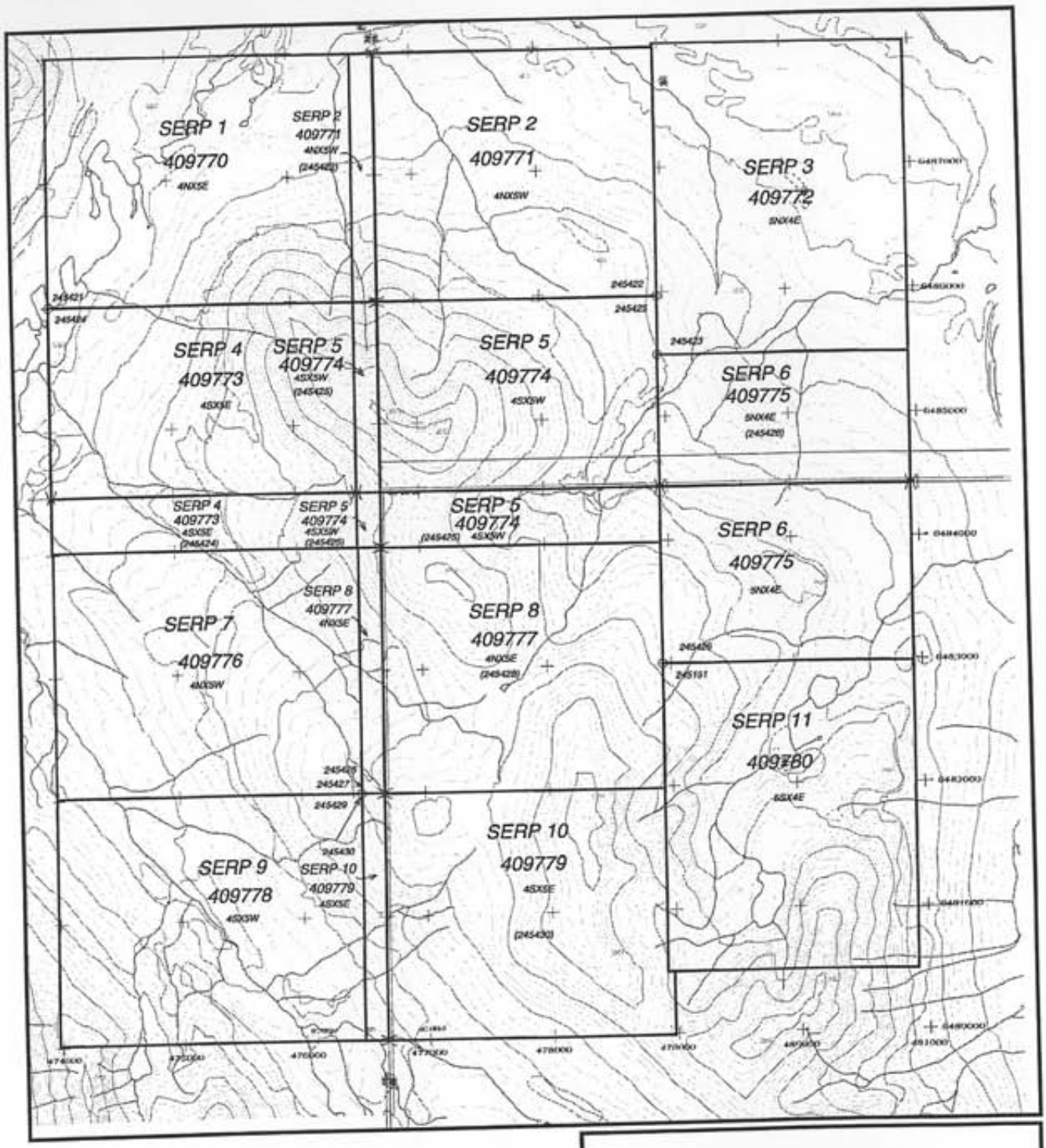


Figure 1. Map of BC showing approximate location of Serp claims.



Hard Creek Nickel Corp.	
	Figure 2
Date:9/2/2005	Serp Claims
Author: BKN	Location Map
Office: Vancouver	
Drawing:	
Scale: 1:50000	Projection: UTM Zone 9 (NAD 83)

0 1 2

kilometers

Where sampling surveys were carried out, soils are rubbly alpine regosol in which B horizon is absent or poorly developed. Locally there is some brunisol development. Drainages are immature with steep gradients in the areas covered by silt sampling.

4. Regional Geology

The Serp Claims cover a portion of a NW-SE trending 80 km-long (by approximately 10 km) wedge interpreted as Paleozoic oceanic crustal material assigned to the Cache Creek Complex (Moyle, 1997; Gabrielse, 1998) and consisting of fault bounded serpentinized ultramafic rocks, diorite-gabbro, carbonate rocks, chert, argillite and siliciclastic rocks. These lie within Mesozoic Laberge Group rocks (argillite, greywacke, wacke, conglomerate and turbidite) west of the Cassiar Batholith.

5. Property Geology

No mapping accompanied the geochemical survey described herein, but government mapping and the author's and samplers' observations indicate that The Serp claims are principally underlain by black serpentinized ultramafic rocks with some relatively minor limestone and calcareous sediments in the west and

diorite-gabbro bodies in the southeast. Orange weathering talc-carbonate altered material was noted in faults and major shear zones in ultramafic rocks. These cursory observations are consistent with the interpretation of the rocks as part of a fault bounded ocean floor assemblage.

6. Previous Work and Known Mineralization

Getty Canada Metals explored in the area in 1985 (Fox and Payne, 1985). They describe the area as underlain by barren Cache Creek serpentinite, Stuhini Formation Volcanics and sediments. Their geochemical samples returned background values for most elements. Du Pont of Canada Exploration Limited explored to the north of the property in 1981 (Harron, 1981), but discovered no outcrop. No BC Minfile occurrences are found in the immediate area. There are several known Jade occurrences in the ultramafics to the south east of the Serp claims. A malachite-stained area (herein referred to as the Reed Showing) was found by Pacific Western Helicopters pilot Jim Reed, in the southeastern portion of the property.

7. 2004 Prospecting and Geochemical Sampling Program

The 2004 exploration program consisted of silt sampling of all observed active creeks (28 silt samples) and 335 soil samples along the 1600 m elevation contour

at 50 meter spacing (Figure 3). Samplers selected B or C horizon soils. Commonly B horizons were not developed, and most samples consist of C horizon and in some cases talus fines. While consistent sampling of a single horizon is desired, in most cases samplers collect the material available, believing it better than collecting no sample at all. The resulting data are believed adequate for a reconnaissance survey of this type. The depths at which samples were taken were generally only 10-15 cm and rarely more than 30 cm. Samplers supplemented these surveys with prospecting and rock sampling where they encountered mineralized float or outcrop. A total of eleven rock samples were collected.

8. Results and Conclusions

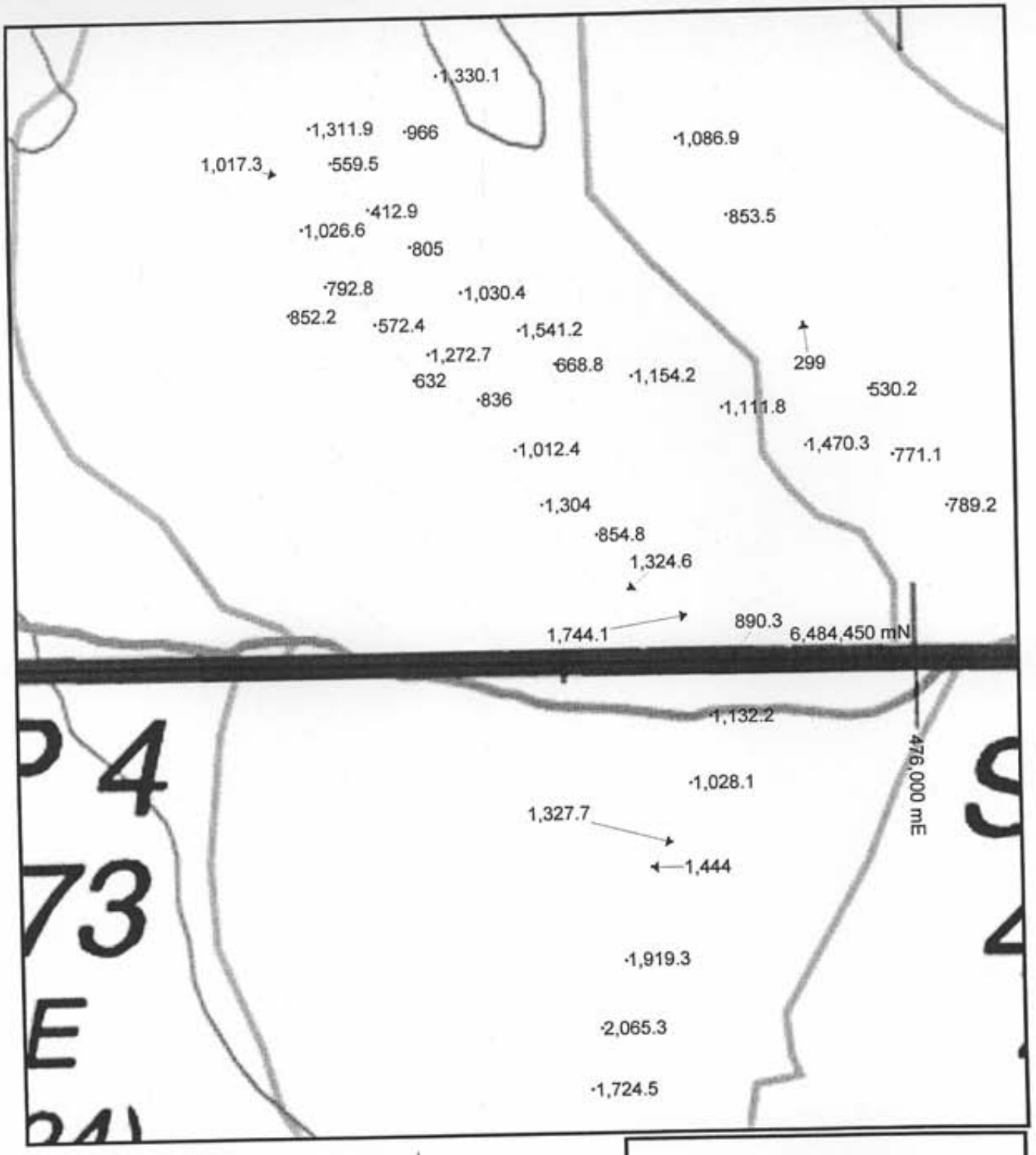
Nickel and chromium values in soils are generally elevated on much of the Serp Property, as expected in ocean floor mafic-ultramafic rocks. Overall, the two elements show poorer correlation in soil samples than in the neighboring Green claims (0.52 in the Serp as compared to 0.82 in the Green) although overall the areas of elevated Cr and Ni roughly coincide (Figure 3).

Frequency histograms (Appendix C) show a small, separate population of low Ni values below 450 ppm, distinguishable from a larger population centered at approximately 1000 ppm. These lower values presumably represent samples not

underlain by or principally derived from ultramafic rocks. Separate populations are not distinct in the Cr histogram as it is plotted. There are a few samples with Ni/Cr ratios which could be interpreted as anomalous (Appendix C) and partially account for the relatively poor Ni and Cr correlation in the Serp versus the neighbouring Green claims. They are concentrated in the northernmost part of the survey area in the Serp 1 and 4 claims. These are of interest because an increase in the ratio could reflect the presence of sulfide nickel (for example) in addition to the mainly silicate nickel found elsewhere in peridotite/serpentine.

Anomalously high Cr and Ni values are found at several intervals along the survey line (Figure 3), commonly with elevated values in several adjacent samples, indicating zones of high soil values extending across several hundred meters. Accompanying S analyses appear too low to be consistent with economically interesting concentrations of sulfide nickel however, suggesting some another Ni mineralogy (presumably silicate nickel in olivine and serpentine and oxide in magnetite. Appendix A).

Copper values in soil are elevated and anomalous in the southeast part of the survey area, near the Reed showing (Figure 5). Selected rock samples from this location contained over 3% and over 1.5% Cu, principally in malachite and



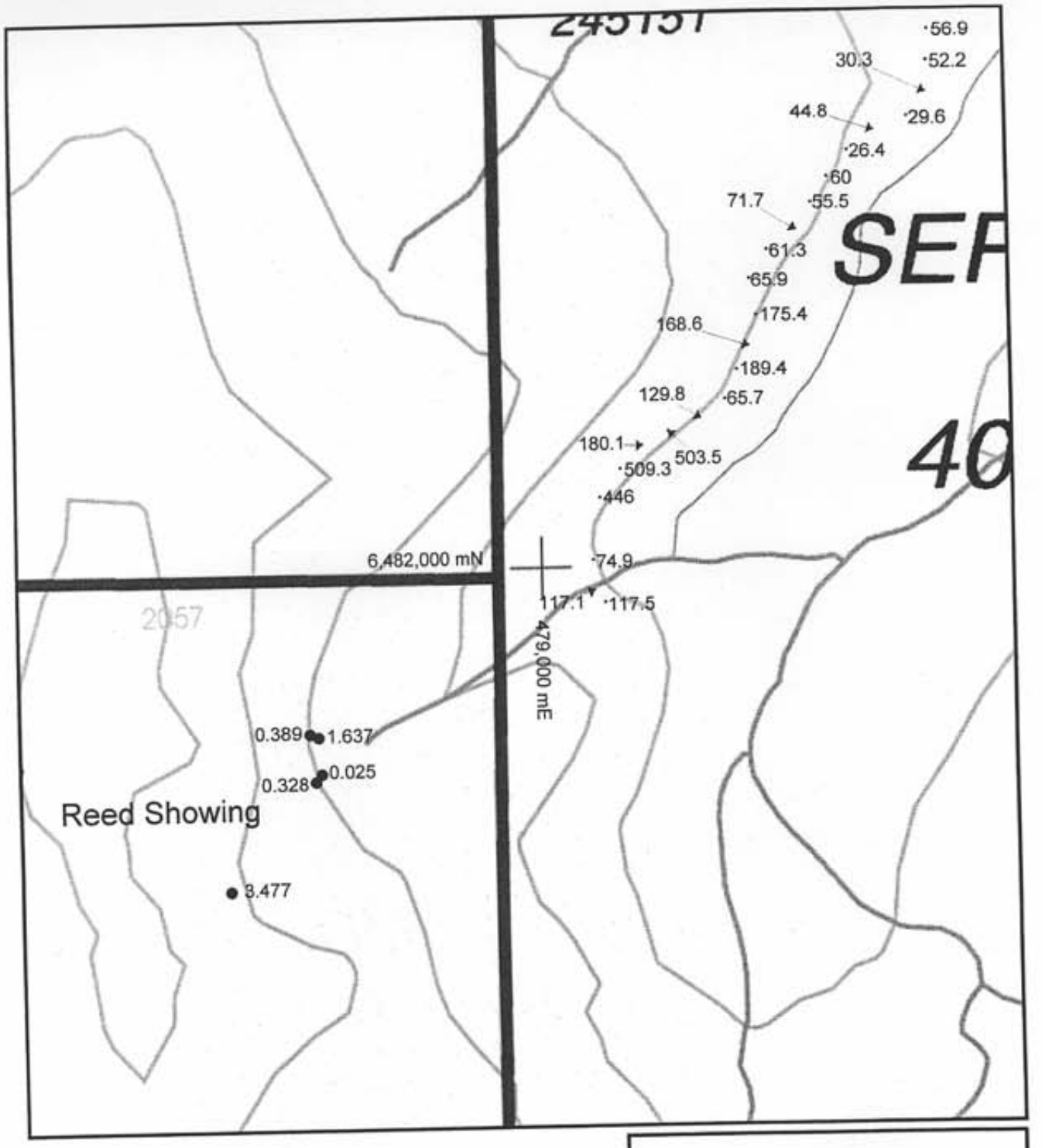
Legend

- △ Soil Sample, Ni (ppm)
- ● Rock Sample, Ni (Percent)

Hard Creek Nickel Corp.

	Figure 4
Date: 25/4/2005	Rock Sample Locations
Author: BKN	Nickel (Percent)
Office: Vancouver	
Drawing:	
Scale: 1:5000	Projection: UTM Zone 9 (NAD 83)

0 75 150 300
metres



Legend

- △ Soil Sample Location, Cu (ppm)
- ● Rock Sample Location, Cu (Percent)

N

Hard Creek Nickel Corp.

	Figure 5
Date:25/4/2005	Rock Sample Locations
Author: BKN	Copper (Percent)
Office: Vancouver	
Drawing:	
Scale: 1:10000	Projection: UTM Zone 9 (NAD 83)

0 125 250 500
metres

chalcopyrite+chalcocite respectively. Elsewhere on the property, Cu analyses in soil rarely exceed 100 ppm.

Weakly anomalous gold analyses are scattered, and rarely above 100 ppb. Pt and Pd analyses are generally below detection and where detectable, below 20 ppb, except in the south eastern area of the survey, nearest the malachite showing, where there is a very weak but otherwise convincing anomaly (Appendix C).

9. Recommendations:

Unfortunately sulfur analyses in the regions of the highest nickel analyses are uniformly low, suggesting that very little nickel resides in sulfide. Consequently, no further exploration for sulfide nickel can be recommended on the basis of this survey. Neither would initial Pt-Pd results warrant follow-up investigation independently, however the weak anomaly noted above occurs near the copper showing.

Other chromium and nickel anomalies could be further investigated if future exploration targets were to expand beyond sulfide hosted nickel and PGE deposits. Rock sampling and prospecting at these locations could provide insight

into Cr and Ni mineralogy and the possibility of podiform chromite mineralization, for example. In addition, the area could be prospected for nephrite jade.

The Reed showing has not been carefully studied and deserves further investigation into a primary source of its secondary copper mineralization as well as the possibility of additional secondary mineralization. Further sampling, prospecting and a more detailed geological examination are warranted there. If practical, scattered gold values, the areas of anomalous Ni/Cr ratios, and the clustered platinum values in soils may be re-sampled and prospected at that time.

10. References

Fox, Peter E. and Payne, Craig W. (1985) Assessment Report 14006.

Gabrielse, H. (1998) Geology of Cry Lake and Dease Lake Map Areas, North – Central British Columbia. Geological Survey of Canada Bulletin 504. 147 pages.

Harron, G. (1981) Assessment Report 9865.

Moyle, Francis (1997) Prospectors Report on the Snow Claims, Assessment Report 24936, 28 pages.

Northcote, B.K. (2005) Reconnaissance Geochemical Survey of the Green Claims (assessment report submitted May, 2005)

Appendix A

Analytical Results and Assay Certificates

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Hard Creek Nickel Corporation PROJECT TUR-S31 File # A404447

1060 - 1090 W. Georgia St, Vancouver BC V6E 3V7

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Pd ppb	Pt ppb	Sample gm
475497E 6484740N	1.1	26.1	4.3	78	<.1	852.2	86.2	1515	6.39	4.5	.8	1.2	1.1	11	.3	.2	.1	71	.27	.057	7	1044.3	8.09	105	.139	8	1.54	.011	.03	.2	.02	5.4	<.1	<.05	8	<.5	<10	3	15.0
475534E 6484864N	1.5	24.0	5.2	66	<.1	559.5	60.8	1018	5.67	6.6	.5	1.6	1.2	14	.2	.3	.1	78	.26	.061	7	690.5	5.03	100	.175	6	1.52	.010	.05	.2	.01	4.7	<.1	<.05	9	<.5	<10	3	15.0
475564E 6484825N	1.5	14.7	6.5	72	<.1	412.9	41.9	813	5.01	5.2	.4	1.2	1.5	13	.3	.2	.1	74	.25	.036	9	589.1	4.47	133	.213	4	1.33	.015	.04	.2	.01	3.5	<.1	<.05	11	<.5	<10	3	15.0
475598E 6484794N	1.0	28.8	4.4	53	<.1	805.0	64.2	733	5.11	6.1	.5	2.4	1.5	12	.2	.3	.1	65	.28	.041	5	798.5	7.43	124	.126	7	1.76	.010	.05	.1	.02	4.9	<.1	<.05	6	<.5	<10	2	15.0
475599E 6484685N	1.7	15.6	6.0	93	<.1	632.0	69.6	1047	5.94	7.5	.6	1.7	1.9	12	.3	.3	.1	75	.23	.083	11	579.0	4.01	112	.274	5	1.91	.018	.05	.2	.02	3.9	<.1	<.05	12	<.5	<10	2	15.0
475639E 6484756N	.6	52.9	2.7	43	<.1	1030.4	65.1	882	4.37	8.3	.5	5.1	1.1	10	.2	.3	<.1	60	.27	.023	5	780.8	7.62	187	.062	8	1.34	.008	.03	.1	<.01	7.9	.1	<.05	4	<.5	<10	3	15.0
475686E 6484724N	.3	38.6	1.3	34	<.1	1541.2	97.9	811	4.13	6.0	.4	1.7	.6	6	.1	.3	<.1	40	.13	.013	3	1756.8	14.95	123	.026	22	.70	.006	.02	.1	<.01	6.1	<.1	<.05	2	<.5	<10	7	15.0
475715E 6484696N	.7	32.5	2.9	43	<.1	668.8	38.5	484	3.76	4.1	.4	1.8	1.3	16	.1	.3	.1	52	.31	.026	5	530.4	5.12	184	.081	6	1.19	.015	.06	.1	<.01	5.1	<.1	<.05	4	<.5	<10	2	15.0
475777E 6484685N	.5	51.7	2.3	46	.1	1154.2	80.4	1237	4.60	8.9	.3	3.2	.8	13	.2	.3	<.1	66	.53	.039	7	909.6	7.29	230	.036	8	1.39	.011	.05	.1	.03	10.0	.1	<.05	4	<.5	<10	3	7.5
475817E 6484879N	.5	44.7	.7	53	<.1	1086.9	72.2	949	5.09	6.7	.1	.5	.6	18	.1	.2	<.1	98	.72	.030	3	809.4	6.56	1084	.057	6	1.88	.017	.18	<.1	<.01	11.0	.2	<.05	6	<.5	<10	4	7.5
475850E 6484658N	.7	94.1	3.0	61	.1	1111.8	49.4	505	3.92	46.9	.6	2.9	.9	21	.3	.4	.1	61	.52	.067	9	724.4	5.42	597	.055	5	2.15	.022	.09	.1	.04	8.5	.1	<.05	5	1.0	<10	4	7.5
475857E 6484815N	.5	46.5	1.7	54	<.1	853.5	69.6	1093	4.76	7.5	.3	.7	.5	16	.2	.2	<.1	76	.36	.059	3	979.7	6.73	881	.047	8	1.72	.012	.07	.1	.01	8.0	.1	<.05	5	<.5	<10	3	15.0
475907E 6484726N	1.2	96.6	6.6	99	.1	352.0	26.5	1601	3.19	2.0	.3	.9	3.1	6	.2	.1	.2	60	.13	.030	12	331.7	2.13	343	.041	3	.98	.005	.20	<.1	.02	9.3	.2	<.05	7	<.5	<10	3	7.5
475917E 6484726N	.2	118.0	1.8	74	.3	299.0	36.9	637	7.27	3.9	.2	3.7	.3	12	.1	.1	<.1	170	1.28	.043	4	271.1	3.92	1417	.009	1	3.18	.001	.07	<.1	.06	27.3	.1	<.05	11	<.5	14	9	15.0
475917E 6484626N	.4	20.4	1.4	32	<.1	1470.3	154.0	1034	3.49	17.6	.1	1.5	.5	6	.1	.3	<.1	25	.13	.020	3	1692.1	16.96	126	.028	29	.64	.006	.01	.1	.01	4.9	<.1	<.05	2	<.5	15	9	15.0
475969E 6484671N	1.1	53.4	5.7	94	.1	530.2	24.5	523	4.07	22.8	.7	2.0	.4	25	.3	.4	.1	69	1.05	.078	5	398.9	1.86	174	.024	5	1.11	.009	.05	.1	.03	7.1	.1	.09	4	.5	<10	2	15.0
RE 475987E 6484617N	.6	42.1	3.7	51	<.1	801.4	39.4	519	4.21	3.1	.5	2.2	1.3	13	.2	.3	.1	57	.42	.039	6	556.1	4.89	93	.083	4	1.34	.007	.05	.1	<.01	5.5	<.1	<.05	5	<.5	<10	3	15.0
475987E 6484617N	.6	42.3	3.6	52	<.1	771.1	40.0	525	4.12	2.8	.5	2.0	1.3	12	.1	.3	.1	57	.42	.039	5	572.2	4.95	92	.083	5	1.30	.007	.04	.1	<.01	5.4	<.1	<.05	5	<.5	<10	3	15.0
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STANDARD DS5	13.0	146.5	24.7	138	.3	24.1	11.9	787	3.01	17.8	6.3	45.5	3.1	46	5.6	4.0	6.3	62	.77	.098	12	193.3	.70	136	.095	19	1.98	.035	.15	5.0	.16	3.4	1.0	<.05	7	5.0	173	43	15.0

GROUP 1DX - 15.0 GM SAMPLE LEACHED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 300 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
PD & PT ANALYSIS BY ICP-MS.
- SAMPLE TYPE: SOIL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data f FA ____ **DATE RECEIVED:** AUG 10 2004 **DATE REPORT MAILED:** Aug. 26./2004

BRITISH COLUMBIA CERTIFIED ASSAYER
Jacky Wang

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604) 253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Hard Creek Nickel Corporation PROJECT TUR-S30 File # A404446

1060 - 1090 W. Georgia St, Vancouver BC V6E 3V7

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Pd ppb	Pt ppb	Sample gm
G-1	1.7	3.0	2.1	54	<.1	5.5	4.9	601	2.11	<.5	1.6	.5	4.3	83	<.1	<.1	.1	46	.56	.090	7	51.5	.63	270	.139	<1	1.02	.079	.54	.6	<.01	2.5	.4	<.05	5	<.5	<10	<2	15.0
479495E 6481966N	.3	100.5	2.5	50	.1	486.3	37.5	482	3.13	1.7	.4	5.6	.4	14	.1	.2	<.1	54	.48	.058	6	485.9	4.47	47	.058	5	1.80	.010	.03	.1	.04	5.7	<.1	.07	4	1.3	<10	5	7.5
479480E 6481944N	.3	59.1	2.7	45	<.1	684.6	62.1	807	4.27	2.3	.3	1.4	.5	9	.1	.3	<.1	47	.34	.037	4	692.2	6.21	65	.057	7	1.23	.011	.04	<.1	.02	6.2	<.1	<.05	3	.6	<10	8	7.5
479457E 6480743N	.3	146.0	1.6	62	.1	618.6	66.1	756	4.06	2.0	.2	15.7	.7	8	.1	.1	<.1	61	.32	.044	4	772.6	7.68	23	.064	6	1.98	.009	.02	<.1	.02	7.4	<.1	<.05	5	.8	<10	5	15.0
481094E 6479727N	.5	153.4	2.2	62	.1	720.5	59.3	720	4.46	2.2	.2	10.3	.4	9	.2	.3	<.1	58	.30	.034	3	689.0	8.69	24	.050	13	1.55	.007	.03	<.1	.01	5.9	<.1	<.05	4	.5	<10	9	7.5
480809E 6483418N	.6	123.3	2.7	52	.1	629.9	52.0	890	3.96	2.9	.5	6.3	.4	12	.2	.3	<.1	55	.50	.055	6	612.2	5.57	52	.059	6	1.78	.012	.04	.1	.05	7.0	<.1	.06	4	2.3	<10	8	7.5
480831E 6483412N	.4	80.6	2.5	43	.1	581.8	53.8	788	3.89	1.7	.3	2.3	.5	9	.1	.3	<.1	47	.43	.040	4	612.6	5.63	44	.062	7	1.42	.011	.04	.1	.04	6.3	<.1	<.05	4	1.5	<10	8	7.5
482415E 6484413N	.3	61.6	1.7	36	<.1	411.8	34.5	520	3.72	1.5	.3	11.0	.4	9	.1	.1	<.1	47	.41	.033	3	464.2	4.40	31	.066	4	1.18	.008	.03	.1	.02	4.7	<.1	<.05	3	.9	<10	4	15.0
480926E 6485964N	.4	46.5	1.5	45	<.1	869.8	50.0	521	4.29	8.1	.4	18.8	.6	15	.1	.4	<.1	54	.46	.035	4	852.1	8.49	670	.061	11	1.35	.017	.03	<.1	.02	6.1	.1	<.05	3	.6	<10	4	15.0
477253E 6486512N	.6	80.0	2.4	41	<.1	1536.4	76.3	735	5.66	1.9	.3	2.7	.9	14	.1	.2	<.1	53	.49	.033	5	621.5	7.81	61	.085	9	1.69	.033	.03	.1	.01	7.6	<.1	<.05	4	.6	<10	7	15.0
476443E 6486555N	.5	60.1	3.4	55	.1	1559.2	65.5	682	5.39	2.4	.4	3.8	1.2	13	.1	.2	.1	57	.35	.057	8	669.3	7.93	65	.106	7	1.84	.033	.04	.1	.03	8.0	.1	<.05	5	.9	10	5	15.0
474715E 6486011N	.8	84.8	9.3	120	.2	288.2	30.3	782	5.10	9.5	.8	1.3	.9	36	.3	.4	.1	99	.78	.102	13	258.5	2.23	132	.170	3	1.82	.019	.13	.2	.03	4.9	.1	<.05	7	.7	<10	5	15.0
474458E 6484624N	.5	43.4	3.9	54	<.1	1060.9	62.0	721	5.12	3.7	.3	1.6	.7	12	.1	.7	<.1	46	.41	.049	6	878.4	7.97	95	.052	12	1.11	.010	.05	.1	.03	6.6	.1	<.05	3	1.2	<10	12	3.0
475739E 6483527N	.4	53.5	3.6	56	<.1	1232.0	71.8	788	5.47	2.9	.3	2.9	.7	12	.1	.3	<.1	48	.42	.049	6	1049.3	9.44	73	.053	11	1.17	.013	.05	.1	.03	6.9	.1	<.05	3	1.2	<10	11	15.0
475737E 6483506N	.4	22.5	2.8	45	<.1	1235.2	54.1	494	3.44	2.5	.3	2.1	.5	11	.1	.2	<.1	30	.32	.048	4	884.2	10.89	54	.054	17	.82	.013	.04	.2	.02	4.3	<.1	.06	3	1.6	<10	5	15.0
474433E 6482406N	.8	30.2	7.4	98	.1	468.5	24.8	839	3.79	7.2	.3	2.1	1.4	52	.2	1.0	.1	49	.73	.077	11	291.1	2.95	149	.116	7	1.87	.015	.07	.4	.03	4.5	.1	<.05	6	.7	<10	7	7.5
RE 474433E 6482406N	.8	30.6	7.5	98	.1	458.4	24.9	813	3.85	7.0	.3	3.1	1.4	49	.2	1.0	.1	46	.67	.076	10	296.1	2.94	141	.101	7	1.78	.014	.06	.4	.03	4.1	.1	<.05	6	.6	<10	11	7.5
474545E 6481905N	1.5	75.9	9.1	112	.3	344.5	30.5	690	3.88	8.3	.8	3.9	.9	106	.6	1.1	.1	44	1.06	.100	9	272.4	3.19	88	.080	11	1.70	.013	.09	.2	.10	4.3	<.1	.06	5	2.9	<10	7	15.0
474558E 6481925N	.8	33.1	5.4	81	.1	662.6	36.0	629	4.33	42.3	.6	2.1	1.0	47	.3	1.7	.1	49	.79	.067	7	549.7	5.90	79	.097	12	1.38	.011	.06	.4	.03	4.7	<.1	<.05	4	1.4	<10	4	15.0
475786E 6480547N	.7	30.9	3.3	54	.1	1081.4	58.5	672	4.93	4.9	.6	2.6	.6	16	.2	.8	<.1	38	.51	.042	4	982.3	10.75	45	.041	23	.85	.010	.04	.1	.02	5.4	<.1	<.05	3	.9	<10	23	1.0
476206E 6480062N	1.1	45.1	8.0	91	.1	301.3	24.6	714	4.03	11.0	.5	1.7	1.8	42	.3	.9	.1	44	.58	.080	8	272.5	3.21	74	.082	5	1.54	.011	.08	.2	.02	3.7	<.1	<.05	5	.6	<10	13	1.0
476192E 6480056N	1.8	69.2	10.2	102	.3	63.4	16.5	779	3.55	10.9	1.4	17.9	1.0	142	.6	1.0	.1	53	1.31	.107	9	62.7	1.05	102	.113	3	2.05	.017	.10	.2	.07	3.7	.1	.08	6	3.8	<10	7	15.0
486073E 6479564N	.8	46.8	3.7	61	.1	1108.4	56.9	790	4.92	4.6	.5	1.8	1.0	9	.2	.3	.1	42	.29	.066	9	572.9	7.60	69	.070	9	1.35	.014	.04	.1	.03	5.6	.1	<.05	5	1.4	10	7	15.0
486092E 6479538N	1.1	44.6	5.5	87	<.1	1028.4	72.7	852	5.20	4.4	.6	2.5	1.5	9	.2	.2	.1	49	.21	.062	12	473.1	6.86	70	.122	5	1.80	.018	.04	.1	.02	5.9	.1	<.05	8	.9	<10	3	15.0
484351E 6482743N	.8	39.4	3.9	62	.1	896.3	49.8	641	4.03	8.8	.8	2.6	1.3	12	.2	.6	.1	43	.35	.052	9	494.3	7.21	85	.069	8	1.37	.013	.04	.2	.02	5.6	.1	<.05	4	.7	<10	<2	15.0
484336E 6482740N	.6	46.2	2.5	37	.1	1122.3	57.6	538	4.81	3.4	.4	2.0	.8	9	.1	.3	<.1	37	.34	.057	5	564.8	8.21	56	.040	13	.92	.013	.07	.1	.04	5.6	<.1	<.05	3	1.6	<10	5	1.0
483040E 6479236N	.8	45.5	2.5	46	<.1	872.0	55.9	649	4.48	3.1	.9	34.3	.5	21	.3	.4	<.1	36	1.86	.057	4	645.0	8.05	70	.042	9	.87	.007	.05	.1	.02	4.3	<.1	<.05	3	1.5	<10	4	15.0
485130E 6482498N	.8	45.7	3.8	51	.1	842.6	47.2	589	4.14	4.2	.6	25.8	1.4	14	.2	.3	.1	40	.36	.048	7	463.1	6.36	62	.048	8	1.12	.011	.05	.1	.02	5.0	.1	<.05	3	.6	<10	2	15.0
482750E 6481714N	.5	61.6	4.3	66	.1	1494.6	52.0	728	4.24	23.5	.4	1.8	1.0	14	.2	.9	.1	43	.42	.060	15	472.5	7.57	113	.071	8	1.76	.018	.07	.1	.04	7.9	.1	<.05	5	.9	<10	<2	15.0
486596E 6480083N	1.2	48.0	5.2	74	.1	1022.3	51.9	856	4.22	4.5	.7	2.0	1.2	11	.2	.3	.1	35	.29	.065	11	477.1	6.61	72	.062	8	1.28	.013	.05	.1	.04	4.8	.1	<.05	5	1.9	<10	2	15.0
486642E 6480071N	3.0	56.0	10.0	114	.1	772.4	32.6	1491	3.51	12.5	2.0	2.0	2.2	23	.6	.7	.2	33	.35	.067	17	233.5	2.79	126	.059	6	1.37	.010	.07	.3	.05	3.5	.1	<.05	5	2.3	<10	2	7.5
482366E 6478824N	.6	48.0	2.5	46	<.1	891.8	47.6	574	4.96	3.3	.6	7.9	.8	12	.2	.3	<.1	40	.46	.052	5	676.6	8.49	60	.044	8	.93	.007	.06	.1	.01	4.7	<.1	<.05	3	.6	<10	5	15.0
482360E 6478785N	.6	48.8	2.8	50	.1	812.2	41.2	562	4.32	3.2	.7	1.2	.9	14	.2	.2	<.1	40	.47	.054	5	585.8	7.73	62	.050	8	.98	.008	.06	.1	.02	4.7	<.1	<.05	3	.8	<10	3	15.0
STANDARD DS5	12.0	137.4	24.0	137	.2	24.2	11.6	748	2.92	17.6	5.8	43.9	2.7	43	5.2	3.8	5.7	58	.71	.093	11	176.9	.65	131	.091	18	1.98	.033	.13	4.7	.16	3.4	1.2	<.05	6	4.9	171	41	15.0

GROUP 1DX - 15.0 GM SAMPLE LEACHED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 300 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
PD & PT ANALYSIS BY ICP-MS.
- SAMPLE TYPE: SILT SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data ✓ FA ____ DATE RECEIVED: AUG 10 2004 DATE REPORT MAILED: Aug 30/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Hard Creek Nickel Corporation PROJECT TUR-S30 File # A404446

1060 - 1090 W. Georgia St, Vancouver BC V6E 3V7

SAMPLE#	Cu* %	Ni* %	Co* %
G-1	.001	<.001	<.001
479495E 6481966N	.005	.015	.001
479480E 6481944N	.002	.014	.003
479457E 6480743N	.008	.017	.002
481094E 6479727N	.003	.012	.002
480809E 6483418N	.005	.016	.002
480831E 6483412N	.003	.013	.002
482415E 6484413N	.002	.009	.001
480926E 6485964N	.002	.018	.001
477253E 6486512N	.002	.032	.003
476443E 6486555N	.002	.033	.002
474715E 6486011N	.005	.012	.001
474458E 6484624N	.001	.027	.003
475739E 6483527N	.001	.025	.002
475737E 6483506N	.001	.035	.001
474433E 6482406N	.001	.017	.001
RE 474433E 6482406N	.001	.015	.001
474545E 6481905N	.004	.011	.001
474558E 6481925N	.001	.021	.001
475786E 6480547N	.002	.047	.003
476206E 6480062N	.001	.009	.001
476192E 6480056N	.003	.001	.001
486073E 6479564N	.002	.033	.003
486092E 6479538N	.002	.036	.003
484351E 6482743N	.001	.021	.001
484336E 6482740N	.002	.026	.001
483040E 6479236N	.001	.023	.002
485130E 6482498N	.001	.022	.001
482750E 6481714N	.002	.062	.002
486596E 6480083N	.002	.037	.002
486642E 6480071N	.002	.035	.001
482366E 6478824N	.001	.015	.001
482360E 6478785N	.001	.020	.001
STANDARD R-2a	.540	.317	.040

CU* NI* & CO* - LEACHED WITH H2O2 + NH4 CITRATE.
- SAMPLE TYPE: SILT SS80 60C
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA ____ DATE RECEIVED: AUG 10 2004 DATE REPORT MAILED: Aug 30/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Hard Creek Nickel Corporation PROJECT SERP-CHRISF-01 File # A404444

1060 - 1090 W. Georgia St, Vancouver BC V6E 3V7

E#	Mo %	Cu %	Pb %	Zn %	Ag gm/mt	Ni %	Co %	Mn %	Fe %	As %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %	Au** ppb	Pt** ppb	Pd** ppb	TOT/S %	Cu* %	Ni* %	Co* %	Sample kg
	<.001	<.001	<.02	<.01	<2	<.001	<.001	<.01	.10	<.01	.02	<.001	<.01	<.01	8.26	.01	.001	.18	.91	10.31	.19	<.01	<2	<2	<2	-	<.001	.001	<.001	-
301	<.001	.010	<.02	.01	<2	.003	.001	.10	6.26	<.01	.04	<.001	<.01	<.01	2.38	.12	.012	2.41	9.63	3.25	1.92	<.01	<2	<2	<2	.49	.009	.001	.001	1.92
302	<.001	<.001	<.02	<.01	<2	.220	.011	.07	6.04	<.01	<.01	<.001	<.01	<.01	.01	<.01	.161	25.51	.53	.03	<.01	<.01	<2	4	3	<.02	<.001	.036	<.001	2.27
303	<.001	<.001	<.02	<.01	<2	.083	.013	.15	9.49	<.01	<.01	<.001	<.01	<.01	4.30	.01	.103	21.04	.57	.04	<.01	<.01	3	33	32	.03	.001	.044	.008	2.80
304	<.001	.001	<.02	.01	<2	.004	.001	.10	4.14	<.01	.05	<.001	<.01	<.01	3.56	.06	.003	1.56	8.85	3.12	1.20	<.01	<2	<2	<2	.09	.001	.001	<.001	2.25
305	<.001	.002	<.02	.01	<2	.003	.002	.18	6.74	<.01	.05	<.001	<.01	<.01	5.24	.07	.003	2.50	9.10	2.80	.57	<.01	<2	<2	<2	.19	.002	.002	.001	1.94
306	<.001	.003	<.02	.01	<2	.014	.003	.13	5.81	<.01	<.01	<.001	<.01	<.01	5.28	<.01	.039	5.73	6.76	3.67	.08	<.01	<2	7	5	.10	.001	<.001	<.001	2.08
STANDARD	.053	.574	1.69	4.43	174	.388	.047	.26	25.68	.25	.15	.031	.14	<.01	3.90	.09	.061	2.79	2.78	.45	.68	.09	491	481	482	5.33	.527	.319	.039	-

Standard is STANDARD R-2a/FA-10R/CSB.

GROUP 7TD - 0.500 GM SAMPLE, 4 ACID (HF-HCLO4-HNO3-HCL) DIGESTION TO 100 ML, ANALYSIS BY ICP-ES.

AU** PT** & PD** GROUP 3B BY FIRE ASSAY & ANALYSIS BY ICP. (30 gm) TOTAL S GROUP 2A BY LECO. CU* NI* & CO* - LEACHED WITH H2O2 + NH4 CITRATE.

- SAMPLE TYPE: ROCK R150 60C

Data d FA ____ DATE RECEIVED: AUG 10 2004 DATE REPORT MAILED: Aug. 31/04

BRITISH COLUMBIA CERTIFIED ASSAYER Clarence Leong

ME ANA TIC. LABORATORIES LTD. 852 E. HASTINGS ST. V COU R BC V6A 1R6 PHONE(604)253-3158 FAX(604 53-1716
(ISO J02 Accredited Co.)

ASSAY CERTIFICATE

Hard Creek Nickel Corporation PROJECT SRP-R1 File # A405241
1060 - 1090 W. Georgia St, Vancouver BC V6E 3V7

SAMPLE#	Mo %	Cu %	Pb %	Zn %	Ag gm/mt	Ni %	Co %	Mn %	Fe %	As %	Sr %	Cd %	Sb %	Bi %	Ca %	P %	Cr %	Mg %	Al %	Na %	K %	W %	TOT/S %	Sample kg
SI	<.001	<.001	<.02	<.01	<2	.001	<.001	<.01	.11	<.01	.02	<.001	<.01	<.01	8.11	.01	.001	.13	.92	9.97	.25	<.01	-	-
B178109	<.001	3.477	<.02	.01	<2	.126	.039	.09	10.31	<.01	<.01	<.001	<.01	<.01	16.45	<.01	.126	8.07	1.66	.06	<.01	<.01	.77	5.83
B178110(ROCK)	<.001	.006	<.02	.01	<2	.002	.001	.10	4.48	<.01	.05	<.001	<.01	<.01	4.68	.05	.001	1.79	9.23	2.48	1.24	<.01	<.02	2.19
B178111	<.001	.328	<.02	.01	<2	.015	.007	.18	10.72	<.01	.03	<.001	<.01	<.01	8.10	<.01	.001	6.97	11.77	.65	.02	<.01	.17	3.96
B178112	<.001	.025	<.02	.01	<2	.002	.006	.14	13.42	<.01	.03	<.001	<.01	<.01	11.29	<.01	.001	4.87	8.99	.32	<.01	<.01	1.66	3.77
A83916	<.001	.389	<.02	.01	<2	.010	.003	.13	10.64	<.01	.03	<.001	<.01	<.01	9.53	<.01	.009	5.14	8.74	.68	<.01	<.01	1.78	3.62
A83917	<.001	1.637	<.02	<.01	<2	.001	.001	.03	5.98	<.01	.03	<.001	<.01	<.01	6.11	<.01	.020	.54	4.52	.03	<.01	<.01	1.77	1.90
A83918(PULP)	<.001	.974	<.02	.02	6	1.267	.040	.11	20.84	<.01	.02	<.001	<.01	<.01	3.62	.05	.027	2.87	5.51	1.47	.87	<.01	9.47	-
STANDARD R-2a/CSB	.052	.572	1.64	4.18	166	.386	.047	.25	25.30	.21	.15	.031	.14	<.01	3.81	.08	.067	2.67	2.75	.52	.63	.09	5.37	-

GROUP 7TD - 0.500 GM SAMPLE, 4 ACID (HF-HCLO4-HNO3-HCL) DIGESTION TO 100 ML, ANALYSIS BY ICP-ES.
TOTAL S GROUP 2A BY LECO.
- SAMPLE TYPE: ROCK R150 60C

Data f FA ____ DATE RECEIVED: SEP 3 2004 DATE REPORT MAILED: Sept.22/04...

BRITISH COLUMBIA CERTIFIED ASSAYER
C. L
Clarence Leong

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Hard Creek Nickel Corporation PROJECT SRP-S1 File # A405242 Page 1
1060 - 1090 W. Georgia St, Vancouver BC V6E 3V7

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Pd ppb	Pt ppb	Sample gm
G-1	1.2	2.1	1.9	45	<.1	4.6	4.2	576	1.89	<.5	1.8	<.5	3.8	73	<.1	<.1	.1	42	.48	.075	7	43.9	.56	256	.115	<1	.85	.068	.46	.3	<.01	2.0	.3	<.05	5	<.5	<10	<2	15.0
479084E 6482509N	.3	384.4	.8	35	<.1	104.0	65.6	807	4.87	.8	<.1	1.4	.1	6	<.1	.1	<.1	60	.39	.021	1	175.5	3.52	8	.037	1	2.92	.004	.01	<.1	.02	7.9	<.1	<.05	4	.6	<10	<2	15.0
479088E 6482007N	.1	74.9	.7	32	<.1	127.6	33.0	580	2.57	<.5	<.1	1.1	.1	5	<.1	<.1	<.1	40	.24	.026	1	342.5	2.93	6	.042	1	1.43	.002	.01	<.1	.02	4.5	<.1	<.05	3	<.5	12	5	15.0
479089E 6481958N	.1	117.1	1.1	34	<.1	852.0	74.7	732	4.60	.5	<.1	2.3	.2	3	<.1	<.1	<.1	32	.19	.015	1	974.8	9.80	6	.023	4	.96	.003	.01	<.1	.01	4.5	<.1	<.05	2	<.5	23	13	15.0
479101E 6482109N	.3	446.0	1.1	39	<.1	167.2	78.4	827	4.13	1.3	.1	3.5	.3	7	.1	.1	<.1	61	.41	.023	2	223.0	3.06	14	.048	1	2.37	.004	.02	<.1	.01	7.9	<.1	<.05	4	.5	<10	3	15.0
479107E 6481937N	.4	117.5	2.2	36	.1	105.3	22.3	482	9.21	.5	.3	2.0	.4	8	<.1	.1	.2	105	.18	.044	1	265.6	3.24	7	.168	1	1.61	.004	.02	<.1	.02	8.6	<.1	.12	8	8.1	<10	<2	15.0
479135E 6482155N	.2	509.3	.7	32	.1	547.1	109.0	917	4.46	.6	.1	36.3	.2	5	.1	<.1	<.1	43	.35	.015	1	441.7	6.79	11	.028	3	2.00	.004	.01	<.1	.02	8.1	<.1	<.05	3	.6	15	8	15.0
479171E 6482193N	.2	180.1	.9	36	<.1	903.5	123.0	1059	5.15	.9	.1	3.8	.2	6	.1	<.1	<.1	38	.33	.017	1	608.4	10.02	14	.022	6	1.73	.004	.01	<.1	.02	7.2	<.1	<.05	3	<.5	12	10	15.0
479215E 6482216N	.3	503.5	1.4	34	<.1	311.0	82.8	842	4.37	.8	.1	2.9	.3	10	.1	.1	<.1	67	.42	.028	1	389.6	4.97	12	.039	2	2.53	.005	.02	<.1	.01	10.9	<.1	<.05	4	.5	11	4	15.0
479267E 6482237N	.2	129.8	1.0	25	<.1	829.6	107.5	886	4.03	1.1	.1	.9	.2	7	.1	<.1	<.1	49	.50	.034	1	787.9	9.07	19	.022	7	1.37	.003	.02	<.1	.02	11.2	<.1	<.05	3	<.5	31	9	15.0
479309E 6482267N	.1	65.7	.8	24	<.1	1257.7	92.9	895	3.29	.9	.1	1.9	.2	3	.1	<.1	<.1	28	.39	.017	1	742.8	12.33	12	.014	6	1.29	.004	.01	<.1	.01	5.4	<.1	<.05	2	<.5	<10	4	15.0
479330E 6482315N	.3	189.4	1.8	34	.1	549.7	101.7	957	3.16	1.3	.1	4.6	.2	8	.1	.1	<.1	43	.50	.059	2	535.1	5.81	39	.015	4	3.19	.004	.03	<.1	.09	8.5	<.1	.08	2	.7	24	6	1.0
479349E 6482354N	.3	168.6	1.6	30	<.1	307.7	66.2	692	3.43	.9	.1	38.1	.3	4	.1	.1	<.1	46	.28	.021	2	475.3	4.92	19	.036	2	1.43	.005	.01	<.1	.01	6.1	<.1	<.05	3	<.5	19	7	7.5
479353E 6482464N	.4	65.9	2.6	47	<.1	1111.3	162.4	1243	5.05	2.8	.3	1.9	.6	8	.1	.1	<.1	53	.18	.043	3	958.8	8.98	40	.043	5	1.21	.006	.03	.1	.03	7.2	<.1	<.05	3	<.5	13	7	15.0
479363E 6482404N	.5	175.4	2.1	35	.1	277.6	57.0	714	3.17	1.4	.2	2.5	.4	6	.1	.1	<.1	44	.24	.029	3	484.0	4.93	26	.054	3	1.30	.006	.02	.1	.03	4.9	<.1	<.05	4	.5	16	5	1.0
479383E 6482511N	.3	61.3	1.4	43	<.1	1765.3	136.3	1258	3.72	1.2	.4	26.7	.5	4	.1	.1	<.1	38	.34	.026	5	1147.7	17.16	24	.020	14	.99	.004	.02	.1	.05	6.8	<.1	<.05	2	<.5	15	3	15.0
479429E 6482544N	.4	71.7	2.0	48	<.1	1651.7	120.6	1124	3.60	1.6	.3	77.0	.7	8	.1	.1	<.1	42	.42	.024	5	1029.3	14.24	39	.034	13	1.06	.007	.02	.1	.05	6.0	<.1	<.05	3	.5	11	4	15.0
RE 479429E 6482544N	.4	71.2	1.9	47	<.1	1642.5	119.0	1138	3.53	1.5	.3	35.2	.6	7	.1	.1	<.1	42	.42	.024	5	1022.1	14.49	38	.032	15	1.03	.006	.02	.1	.06	6.1	<.1	<.05	2	<.5	11	3	15.0
479454E 6482588N	.4	55.5	2.2	41	<.1	1390.5	131.3	1509	3.66	2.3	.5	1.7	.4	9	.1	.3	<.1	47	.27	.055	4	977.2	10.81	59	.035	14	1.31	.007	.03	.1	.05	6.6	<.1	.06	3	.6	<10	<2	15.0
479481E 6482630N	.4	60.0	2.2	46	<.1	723.5	78.1	963	4.53	4.5	.5	1.0	.7	7	.1	.1	<.1	71	.35	.027	4	835.9	8.13	46	.105	9	1.80	.011	.03	.2	.02	5.7	<.1	<.05	5	<.5	<10	<2	15.0
479515E 6482673N	.6	26.4	2.5	50	<.1	257.6	41.6	705	3.97	1.1	.3	.8	.4	7	.2	.1	.1	77	.40	.027	3	473.5	4.82	40	.155	3	1.76	.008	.03	.1	.02	3.4	<.1	<.05	7	<.5	<10	<2	15.0
479557E-1 6482706N	.6	46.3	3.2	70	.1	383.3	47.6	865	4.25	5.9	.4	1.1	1.3	11	.1	.2	.1	92	.36	.034	7	578.6	4.70	72	.148	3	2.10	.011	.04	.1	.01	5.0	<.1	<.05	7	<.5	<10	<2	15.0
479557E-2 6482706N	.6	44.8	3.3	69	.1	375.6	48.4	892	4.26	5.9	.5	1.1	1.3	10	.1	.1	.1	89	.31	.033	7	569.4	4.61	69	.139	3	1.95	.009	.04	.2	.01	4.7	<.1	<.05	7	<.5	<10	<2	15.0
478308E 6483645N	.3	47.3	2.0	48	<.1	957.1	47.6	519	3.80	12.2	.2	1.8	.9	28	.1	.2	<.1	50	.38	.051	6	933.2	8.18	1061	.074	8	1.55	.024	.03	.1	.01	5.7	.1	<.05	4	<.5	<10	<2	7.5
478351E 6483673N	.6	32.1	2.6	54	.1	903.2	66.1	993	4.62	9.3	.3	1.8	.8	20	.1	.4	.1	64	.31	.048	5	985.7	8.59	184	.100	8	1.55	.013	.03	.1	.01	6.1	<.1	<.05	6	<.5	<10	<2	15.0
478380E 6483704N	1.6	25.3	4.9	73	.1	317.0	35.6	859	4.98	6.4	1.0	42.3	2.1	13	.1	.2	.1	71	.24	.060	15	435.1	3.07	132	.268	3	3.23	.021	.04	.1	.03	4.6	.1	<.05	12	.7	12	<2	15.0
478400E 6483753N	.7	33.0	2.9	54	<.1	701.9	87.1	1251	4.32	4.7	.3	1.2	.3	23	.2	.3	.1	65	.43	.111	5	919.0	7.48	300	.055	9	1.62	.012	.03	.2	.05	6.0	.1	.11	5	<.5	<10	<2	15.0
478438E 6483791N	.3	39.2	1.5	44	<.1	934.0	57.8	768	4.21	5.2	.3	4.5	1.0	21	.1	.2	<.1	63	.40	.039	6	934.1	9.64	564	.081	12	1.78	.015	.03	.1	.01	6.2	.1	<.05	4	<.5	<10	<2	15.0
478486E 6483805N	.4	43.4	2.0	54	<.1	882.2	59.9	800	4.54	11.2	.4	1.1	1.1	16	.1	.3	<.1	77	.38	.031	6	902.5	8.76	572	.098	9	1.86	.014	.03	<.1	<.01	6.3	.1	<.05	5	<.5	<10	<2	15.0
478526E 6483838N	.5	37.3	2.9	49	<.1	884.8	72.9	1028	4.53	8.2	.3	1.1	.7	14	.1	.4	.1	61	.27	.057	5	1062.5	8.11	115	.062	10	1.55	.020	.05	<.1	.02	6.4	<.1	<.05	5	<.5	<10	<2	15.0
478556E 6483880N	1.2	32.2	4.8	67	<.1	871.7	72.8	1396	5.23	8.5	.5	.9	1.2	14	.1	.4	.1	74	.28	.081	9	691.3	4.51	120	.199	6	1.75	.021	.05	.1	.04	5.1	<.1	.08	9	<.5	<10	<2	15.0
478599E 6483908N	.6	48.3	3.0	48	.1	1086.7	62.5	945	4.36	7.1	.4	1.6	.7	13	.1	.4	.1	64	.31	.062	5	886.3	8.54	78	.088	10	1.47	.021	.04	.1	.03	7.3	<.1	<.05	5	<.5	<10	<2	15.0
478647E 6483927N	.8	48.6	3.8	55	.1	1043.9	69.1	1158	4.68	5.5	.5	2.8	.8	13	.1	.4	.1	66	.35	.073	6	783.8	7.30	115	.087	12	1.77	.012	.04	.1	.03	6.8	<.1	<.05	6	.5	<10	<2	15.0
478697E 6483941N	.3	34.0	1.7	37	<.1	1403.8	96.5	1073	4.40	3.6	.3	1.5	.8	5	.1	.3	<.1	50	.16	.026	4	1256.9	13.54	87	.027	20	1.14	.006	.02	<.1	.01	8.5	<.1	<.05	3	<.5	10	<2	7.5
478747E 6483954N	.5	61.4	3.3	52	.1	1648.5	66.8	866	4.04	4.5	.4	2.4	.9	14	.2	.5	.1	52	.31	.053	8	771.9	8.33	102	.063	13	1.59	.014	.04	.1	.04	8.2	.1	<.05	5	.7	11	<2	7.5
STANDARD DS5	12.6	141.8	24.4	134	.3	23.9	11.8	772	2.93	18.0	6.2	43.3	2.8	45	5.5	3.9	6.1	60	.72	.091	12	181.5	.67	134	.091	16	1.97	.035	.13	5.3	.16	3.4	1.1	<.05	6	4.8	168	43	15.0

GROUP 10X - 15.00 GM SAMPLE LEACHED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 300 ML, ANALYSED BY ICP-MS.
(>) CONCENTRATION EXCEEDS UPPER LIMITS. SOME MINERALS MAY BE PARTIALLY ATTACKED. REFRACTORY AND GRAPHITIC SAMPLES CAN LIMIT AU SOLUBILITY.
- SAMPLE TYPE: P1 TO P10 SOIL Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data d FA ____ DATE RECEIVED: SEP 3 2004 DATE REPORT MAILED: Oct. 6/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Pd ppb	Pt ppb	Sample gm
478797E 6483943N	.3	37.8	1.6	35	.1	1191.9	68.8	713	4.85	3.6	.4	179.7	.7	7	.1	.4	<.1	53	.28	.016	3	1040.2	11.38	105	.051	17	1.17	.009	.02	.1	.01	6.0	<.1	<.05	3	<.5	<10	3	15.0
478845E 6483926N	.7	38.2	3.6	53	<.1	1076.7	64.9	910	4.34	4.8	.5	1.4	.8	13	.1	.4	.1	63	.34	.068	8	870.1	7.47	112	.089	10	1.72	.015	.05	.1	.02	6.7	<.1	<.05	6	.5	<10	3	15.0
478895E 6483925N	.6	43.8	3.1	50	.1	1289.0	79.2	1076	5.13	4.3	.4	1.4	.6	11	.1	.3	.1	66	.38	.070	5	974.4	9.04	100	.082	15	1.42	.020	.04	.1	.02	7.5	<.1	.06	4	<.5	<10	2	15.0
478943E 6483910N	.5	53.5	3.8	52	.1	1135.7	55.4	1004	4.64	3.4	.4	.6	.5	13	.2	.3	.1	73	.39	.096	4	895.1	7.96	113	.070	12	1.58	.026	.04	.1	.04	8.8	.1	.07	5	.5	<10	2	15.0
478982E 6483878N	.6	39.9	2.7	47	<.1	1059.2	56.4	686	4.05	3.3	.6	6.0	1.2	12	.1	.3	<.1	60	.36	.035	8	782.9	8.98	150	.114	12	1.43	.020	.03	.1	.01	6.2	.1	<.05	4	.5	<10	2	15.0
479029E 6483860N	.5	39.6	2.3	42	<.1	1154.2	60.8	666	3.69	3.3	.5	3.3	.9	11	.1	.3	<.1	51	.31	.032	5	849.1	10.32	164	.072	17	1.14	.011	.03	.1	.01	5.6	<.1	<.05	3	<.5	<10	3	15.0
479077E 6483849N	.6	40.0	2.3	46	<.1	798.1	47.9	590	3.67	3.2	.4	1.6	.9	14	.1	.3	<.1	77	.55	.022	5	630.2	6.95	241	.123	8	1.58	.092	.05	<.1	.01	7.0	.1	<.05	4	<.5	<10	3	15.0
479124E 6483833N	.6	25.6	4.0	67	.1	1144.8	128.9	1500	4.95	4.7	.3	.8	.8	13	.2	.5	.1	64	.27	.045	5	1261.3	8.59	139	.082	12	1.35	.011	.03	.1	.03	6.8	<.1	<.05	5	<.5	<10	3	15.0
479161E 6483796N	.4	31.7	2.3	39	<.1	1500.3	89.7	893	3.99	4.8	.4	1.3	.6	9	.1	.6	.1	51	.27	.043	5	1353.5	12.85	101	.043	20	3.20	.009	.03	.1	.02	8.3	<.1	<.05	3	.5	<10	3	15.0
479199E 6483766N	2.5	11.7	7.4	73	.1	226.7	30.9	539	4.84	4.3	.4	1.0	1.3	12	.2	.5	.2	87	.23	.048	9	532.8	2.28	172	.322	5	.92	.013	.04	.3	.04	3.1	<.1	<.05	14	<.5	<10	<2	15.0
479227E 6483724N	1.0	24.6	3.1	55	.1	820.4	81.2	1265	4.92	2.4	.6	.6	.5	10	.3	.4	.1	69	.25	.068	6	994.2	8.05	677	.084	9	1.98	.009	.03	.1	.02	4.5	<.1	<.05	6	<.5	<10	2	15.0
479236E 6483729N	.4	44.6	2.3	46	<.1	716.1	53.0	634	4.21	2.4	.4	1.5	.9	11	.1	.2	<.1	56	.37	.029	5	762.0	7.62	69	.094	6	1.43	.012	.03	.1	.01	5.8	<.1	<.05	4	<.5	<10	5	15.0
479242E 6483180N	.5	47.8	2.6	53	<.1	960.9	60.0	777	4.47	3.2	.5	1.6	.9	10	.1	.2	.1	57	.33	.036	6	924.5	8.58	94	.092	7	1.56	.012	.04	<.1	.02	6.8	<.1	<.05	5	<.5	<10	5	15.0
479260E 6483223N	.2	51.6	1.4	38	<.1	930.0	53.8	626	4.86	4.9	.3	.5	.6	8	.1	.1	<.1	53	.55	.033	3	1016.2	8.60	38	.055	6	1.39	.009	.03	<.1	.02	8.8	<.1	<.05	3	<.5	<10	9	15.0
479272E 6483697N	.4	42.5	1.4	84	<.1	848.2	49.1	795	4.89	1.3	.5	1.6	1.4	15	.1	.1	<.1	95	.50	.072	10	804.5	9.19	2377	.216	5	2.52	.010	.31	<.1	.01	7.6	.4	<.05	7	<.5	<10	<2	15.0
479277E 6483269N	.3	52.7	2.2	45	.1	1018.3	46.3	538	4.00	9.6	.4	2.7	.7	12	.1	.2	<.1	56	.38	.042	6	1071.9	9.13	79	.061	7	1.45	.014	.04	.1	.02	7.6	<.1	<.05	4	<.5	10	6	15.0
479288E 6483134N	.4	50.2	2.6	51	<.1	770.8	49.0	652	4.12	3.5	.5	1.1	.9	11	.1	.3	.1	59	.35	.045	5	942.3	7.33	74	.097	5	1.69	.012	.04	.1	.01	7.1	<.1	<.05	5	<.5	<10	3	15.0
479299E 6483321N	1.8	22.5	8.6	68	<.1	270.4	27.5	873	4.93	6.1	.6	.9	1.5	16	.1	.2	.2	85	.29	.064	11	289.9	1.49	111	.284	2	1.92	.021	.05	.1	.03	3.1	<.1	<.05	16	<.5	<10	3	15.0
479304E 6483657N	.1	48.9	.9	80	.1	713.2	46.4	614	4.06	3.2	.5	27.3	1.4	7	.1	.4	.1	65	.42	.017	6	741.8	6.90	1739	.114	4	2.39	.020	.10	<.1	.01	6.5	.3	<.05	4	<.5	<10	4	15.0
RE 478797E 6483943N	.3	37.2	1.5	36	<.1	1152.0	65.2	716	4.74	3.3	.4	13.7	.7	7	.1	.4	<.1	50	.29	.017	3	1025.4	11.83	107	.059	19	1.25	.010	.02	.1	.01	6.1	<.1	<.05	3	<.5	<10	4	15.0
479326E 6483363N	.4	31.4	1.8	34	<.1	825.1	69.5	774	4.73	2.1	.3	18.7	.4	7	.1	.2	<.1	55	.36	.034	2	927.6	9.06	247	.066	8	1.46	.008	.03	.1	.01	4.7	<.1	<.05	4	<.5	<10	5	15.0
479337E 6483120N	.7	42.5	3.6	65	<.1	931.3	41.8	708	4.35	3.7	.8	1.7	2.0	14	.1	.4	.1	61	.31	.044	14	795.0	7.13	94	.204	9	2.15	.032	.04	.1	.01	5.6	<.1	<.05	7	<.5	13	3	15.0
479344E 6483625N	.8	24.5	4.1	54	<.1	578.2	35.2	581	4.23	2.4	.5	38.3	.9	12	.1	.4	.1	66	.26	.064	7	704.6	6.63	95	.147	10	1.92	.019	.04	.2	.02	5.2	.1	<.05	7	.6	<10	3	15.0
479350E 6483408N	.3	31.0	1.4	42	<.1	963.8	75.8	801	4.09	2.8	.4	.9	.5	8	.1	.3	<.1	50	.32	.036	3	971.8	9.94	154	.046	12	1.42	.009	.03	.1	.01	6.6	<.1	<.05	3	<.5	<10	19	7.5
479375E 6483455N	.6	28.8	2.9	48	<.1	632.0	91.3	1117	5.31	2.4	.2	1.0	.4	9	.1	.3	.1	67	.36	.049	3	933.6	7.89	102	.082	8	1.47	.009	.04	.1	.03	4.8	<.1	<.05	6	<.5	<10	5	15.0
479386E 6483108N	.2	55.6	.9	33	<.1	908.1	61.7	653	3.69	2.2	.5	1.1	.4	8	.1	.2	<.1	50	.30	.011	2	817.5	10.48	76	.064	9	1.50	.009	.02	<.1	.01	4.9	<.1	<.05	3	<.5	<10	3	15.0
479398E 6483601N	.2	30.2	1.0	27	<.1	1409.3	120.1	1110	2.97	2.0	.2	5.5	.5	6	<.1	.7	<.1	42	.15	.014	3	971.2	15.11	56	.029	28	1.13	.007	.02	.1	.02	8.3	<.1	<.05	2	<.5	<10	4	15.0
479400E 6483500N	.4	39.4	2.3	40	<.1	667.0	50.3	590	3.81	2.6	.4	1.4	.7	13	.1	.3	<.1	61	.33	.016	3	720.3	6.92	74	.091	6	1.73	.010	.04	.1	.01	5.9	<.1	<.05	4	<.5	<10	2	15.0
479404E 6483551N	.5	25.6	2.3	35	<.1	1069.4	76.6	866	4.02	3.0	.5	1.4	.7	9	.1	.5	<.1	54	.26	.025	4	1000.7	9.74	60	.081	14	1.34	.011	.03	.1	.02	6.1	<.1	<.05	4	<.5	<10	3	15.0
479434E 6483091N	.2	50.9	1.4	38	<.1	1261.1	40.6	484	3.45	2.6	.5	1.0	.4	9	.1	.3	<.1	43	.25	.040	3	1146.5	12.38	48	.046	12	1.23	.009	.03	<.1	.02	6.0	<.1	<.05	3	<.5	<10	2	15.0
479478E 6483064N	.2	44.5	10.0	56	<.1	251.1	24.2	604	2.53	5.9	.2	1.1	1.1	15	.1	.2	.1	65	.37	.087	8	254.2	2.36	70	.133	2	1.00	.013	.14	.1	.01	3.9	.2	<.05	6	<.5	<10	<2	15.0
479516E 6483033N	1.3	32.6	7.2	92	<.1	424.4	39.0	1021	4.81	3.8	.8	1.9	2.0	17	.2	.2	.2	65	.26	.066	14	397.8	2.63	104	.194	2	2.29	.024	.04	.1	.03	4.1	<.1	<.05	13	<.5	<10	<2	15.0
479552E 6482996N	.5	53.4	2.2	41	<.1	1063.2	60.9	757	3.99	3.1	.5	92.5	.8	11	.1	.3	<.1	47	.37	.035	5	991.9	9.81	51	.099	12	1.54	.012	.03	.1	.03	5.5	<.1	<.05	4	.5	<10	4	15.0
479593E 6482955N	.5	88.4	3.5	65	<.1	1027.8	79.0	1086	4.25	4.3	.6	7.5	.7	14	.1	.3	.1	60	.37	.090	11	1009.5	7.57	99	.089	9	2.08	.013	.05	.1	.04	7.3	<.1	.08	6	.6	<10	2	15.0
STANDARD DS5	12.2	140.4	24.1	132	.3	24.2	12.6	761	2.96	17.6	6.1	44.7	2.9	46	5.3	3.7	5.8	62	.75	.087	12	182.0	.69	133	.107	18	2.18	.039	.15	4.5	.17	3.4	1.0	<.05	6	4.9	179	42	15.0

Sample type: SOIL 5580 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Pd ppb	Pt ppb	Sample gm
G-1	1.3	2.3	1.9	44	<.1	4.4	4.2	560	1.84	<.5	1.8	<.5	3.7	78	<.1	<.1	.1	39	.48	.080	6	40.9	.56	238	.121	1	.88	.064	.54	.4	<.01	1.8	.3	<.05	5	< .5	<10	<2	15.0
479605E 6482720-5N(PULP)	13.7	164.3	6.8	51	.1	11.8	10.8	437	4.15	5.2	.4	28.2	1.0	48	.2	.2	.5	85	.63	.050	4	19.4	.69	49	.116	1	1.70	.019	.03	.1	.03	4.4	<.1	.50	5	3.6	<10	<2	7.5
479612E 6482727-1N	.5	29.6	2.4	39	.1	1624.3	194.9	1368	3.58	1.2	.3	1.3	.5	14	.1	.2	.1	31	.30	.062	5	1342.4	11.24	69	.030	18	1.03	.007	.03	.2	.05	6.8	<.1	.06	2	.5	<10	3	7.5
479612E 6482727-2N	.4	29.8	1.9	37	.1	1734.8	208.9	1377	3.50	1.2	.3	1.4	.5	14	.1	.1	<.1	28	.33	.060	5	1357.2	11.88	67	.023	16	1.01	.007	.03	.2	.06	6.4	<.1	.06	2	< .5	<10	5	7.5
479623E 6482914N	.2	62.2	.7	28	<.1	647.6	49.6	599	3.17	1.3	.3	1.0	.3	6	.1	.2	<.1	46	.27	.011	2	612.4	7.75	17	.046	6	1.42	.005	.01	.1	.01	4.6	<.1	<.05	3	<.5	<10	3	15.0
479641E 6482768N	1.5	30.3	7.1	72	.1	260.1	36.1	750	3.99	5.4	.4	1.5	.8	10	.1	.2	.2	72	.24	.057	8	408.9	2.84	78	.162	2	1.27	.009	.03	.2	.03	3.1	<.1	<.05	13	<.5	<10	2	15.0
479645E 6482819N	.4	52.2	1.4	34	<.1	829.5	73.7	766	3.76	3.2	.3	1.0	.5	7	.1	.2	<.1	49	.37	.017	2	868.5	7.79	30	.070	11	1.45	.007	.02	.1	.01	4.8	<.1	<.05	3	<.5	<10	3	15.0
479648E 6482871N	.6	56.9	3.5	58	<.1	1043.0	87.2	942	3.78	3.8	.6	2.0	1.5	13	.1	.3	.1	53	.28	.046	12	969.8	8.06	90	.146	12	1.85	.016	.03	.2	.02	6.1	<.1	<.05	6	.6	<10	3	15.0
477267E 6485903N	1.7	20.6	6.2	82	.1	296.7	26.9	1075	5.05	4.7	.8	2.6	1.8	19	.2	.2	.1	79	.30	.063	11	160.3	1.46	90	.378	2	2.02	.026	.04	.2	.04	2.9	<.1	.06	14	.5	<10	<2	15.0
477320E 6485915N	.7	47.9	4.8	66	<.1	1062.7	69.0	1171	5.24	3.6	.5	1.6	.8	21	.2	.2	.1	62	.34	.101	9	899.3	6.20	127	.130	5	1.50	.017	.04	.1	.04	6.9	<.1	.06	5	<.5	<10	3	15.0
477372E 6485911N	.8	45.8	6.2	62	.1	890.2	46.8	783	4.85	3.6	.6	2.1	1.2	17	.2	.3	.1	61	.27	.060	7	462.4	4.64	103	.153	8	1.57	.014	.04	.1	.03	5.9	.1	<.05	6	<.5	<10	3	15.0
477422E 6485901N	.8	50.1	4.5	62	<.1	1523.3	62.5	943	4.98	3.7	.5	3.9	1.6	21	.2	.3	.1	54	.35	.068	11	486.6	5.33	110	.165	7	1.57	.018	.05	.1	.02	6.8	.1	<.05	5	<.5	<10	3	15.0
477471E 6485877N	1.0	34.3	4.9	65	<.1	823.4	54.9	1022	5.23	3.2	.5	2.2	1.2	18	.2	.2	.1	67	.30	.060	9	548.8	4.27	94	.254	3	1.47	.020	.04	.1	.02	4.9	<.1	<.05	7	<.5	<10	3	15.0
477519E 6485856N	1.0	32.4	5.2	73	<.1	902.8	67.7	1135	5.81	3.2	.7	1.9	1.8	12	.2	.2	.1	59	.27	.073	11	766.6	6.01	81	.231	3	1.49	.022	.04	.1	.02	5.3	.1	<.05	7	.5	<10	6	15.0
477566E 6485836N	1.1	37.8	5.8	77	<.1	844.0	62.8	1270	5.55	3.2	.8	1.9	1.9	16	.2	.2	.1	66	.33	.074	12	621.6	4.80	91	.286	4	1.95	.027	.04	.1	.03	5.6	.1	<.05	9	.5	10	3	15.0
RE 477566E 6485836N	1.1	37.5	5.8	78	<.1	834.5	64.0	1293	5.74	3.4	.8	2.2	1.9	16	.2	.2	.1	72	.35	.084	12	641.2	4.93	92	.305	3	1.98	.033	.04	.1	.03	5.6	.1	<.05	9	.5	<10	3	15.0
477609E 6485816N	1.0	31.3	6.3	60	.1	465.9	45.3	922	4.10	3.0	.6	1.0	.4	16	.3	.2	.2	65	.28	.121	6	474.5	3.21	90	.106	5	1.34	.017	.05	.1	.04	4.4	.1	.09	8	<.5	<10	<2	15.0
477653E 6485796N	1.7	21.9	6.8	62	<.1	278.8	26.8	1005	4.72	4.0	.9	1.9	1.2	15	.1	.2	.2	70	.25	.075	10	264.1	1.69	75	.247	2	2.21	.020	.04	.1	.04	3.5	.1	.08	12	.6	<10	2	15.0
477703E 6485772N	1.3	25.4	4.5	76	<.1	359.5	28.7	1074	4.99	2.9	.8	2.1	1.7	19	.2	.2	.1	77	.30	.075	14	153.1	1.67	94	.361	1	2.71	.028	.03	.1	.04	3.6	<.1	.10	11	<.5	<10	<2	15.0
477750E 6485750-5N(PULP)	.5	94.1	6.4	19	<.1	40.8	11.3	210	1.69	1.1	.3	1.7	.3	24	.1	.7	<.1	58	2.90	.033	2	72.2	1.49	23	.116	26	1.84	.018	.03	.3	.01	2.2	<.1	<.05	6	<.5	<10	2	7.5
477751E 6485757N	.4	83.6	2.4	62	<.1	1069.0	54.9	801	5.44	2.0	.2	1.2	.6	14	.1	.1	.1	93	.44	.048	4	531.0	6.51	111	.114	3	3.23	.061	.06	.1	.02	8.5	.1	<.05	8	<.5	<10	2	15.0
477794E 6485731N	.4	53.1	1.8	42	<.1	1897.1	80.3	960	5.49	2.2	.3	1.9	.7	9	.1	.1	<.1	57	.47	.037	5	684.0	10.86	35	.089	20	1.70	.028	.02	.2	.02	9.2	<.1	<.05	4	<.5	<10	2	15.0
477834E 6485698N	.9	59.6	6.6	65	<.1	1480.7	65.4	1164	4.47	6.0	.6	6.3	1.3	15	.2	.5	.1	67	.32	.088	11	445.7	4.78	111	.142	7	2.19	.016	.05	.2	.03	6.9	.1	.06	8	.6	<10	3	15.0
477869E 6485660N	1.0	36.9	5.9	70	<.1	1070.9	48.4	1050	4.83	5.4	.7	2.2	1.3	15	.2	.3	.1	70	.32	.074	10	494.5	4.34	89	.188	6	1.98	.021	.05	.2	.03	5.6	.1	<.05	9	.5	<10	3	15.0
477869E 6484420N	.5	47.0	3.7	66	.1	905.5	54.4	794	4.47	4.7	.4	1.2	.7	12	.1	.3	.1	65	.36	.055	6	570.3	5.43	110	.102	5	1.89	.018	.04	.1	.01	6.0	.1	<.05	6	<.5	<10	2	15.0
477885E 6484324N	.6	44.5	3.1	57	.1	925.8	58.6	917	4.67	4.6	.4	1.6	.5	13	.1	.2	.1	57	.32	.079	7	1059.0	7.84	92	.080	6	1.30	.013	.04	.1	.02	6.9	<.1	<.05	4	<.5	<10	3	15.0
477897E 6484371N	.9	27.0	4.6	83	.1	545.8	93.7	2767	6.08	4.2	.5	7.5	.8	16	.1	.2	.1	81	.39	.067	6	812.6	4.13	183	.134	3	1.59	.012	.03	.1	.03	6.7	.1	<.05	8	<.5	<10	3	15.0
477904E 6484455N	.3	50.1	1.8	44	<.1	1377.3	82.5	960	5.36	6.0	.5	1.2	.3	7	.1	3.1	<.1	63	.26	.064	3	1360.1	12.58	87	.045	18	1.75	.009	.02	.1	.01	8.5	<.1	<.05	5	<.5	<10	3	15.0
477905E 6485621N	.7	39.3	4.2	53	<.1	873.6	41.1	641	3.89	5.0	.5	1.3	1.1	16	.2	.4	.1	59	.31	.062	6	446.5	4.93	82	.109	7	1.60	.014	.05	.1	.03	5.4	<.1	<.05	5	<.5	<10	2	15.0
477929E 6484294N	.5	56.6	3.2	41	.1	799.1	81.3	1183	4.08	2.8	.3	3.2	.4	15	.1	.2	.1	46	.40	.133	4	947.9	5.66	103	.035	8	1.13	.010	.05	.1	.05	6.7	.1	.11	3	<.5	<10	4	7.5
477932E 6485576N	1.8	23.7	6.6	59	<.1	400.8	23.8	805	4.57	7.0	.9	7.7	1.4	10	.2	.5	.2	56	.24	.070	11	169.8	1.45	67	.199	2	2.40	.015	.03	.2	.04	3.1	<.1	.06	13	.6	<10	<2	15.0
477955E 6484481N	.2	55.1	.6	20	<.1	1392.4	125.3	872	4.78	2.8	.2	2.1	.2	5	.2	.9	<.1	46	.31	.056	1	1249.3	15.28	20	.027	35	1.78	.004	.03	<.1	.02	7.0	<.1	<.05	4	<.5	<10	4	15.0
477961E 6485533N	.8	32.0	5.2	63	<.1	655.5	43.3	917	4.90	6.3	.5	7.9	.6	13	.2	.3	.1	78	.30	.089	6	818.6	5.13	70	.134	6	1.64	.015	.04	.1	.02	5.0	.1	.06	8	<.5	<10	2	15.0
477974E 6484276N	.3	63.4	2.2	43	<.1	1313.7	83.5	1032	4.94	5.0	.3	4.6	.6	7	.1	.2	<.1	50	.33	.037	4	1148.8	11.09	75	.058	15	1.13	.011	.03	.1	.02	7.1	<.1	<.05	3	<.5	<10	4	15.0
477987E 6484507N	2.2	11.6	7.4	90	<.1	225.6	47.4	1466	6.70	6.8	.5	1.4	1.9	13	.2	.2	.2	104	.28	.060	9	539.3	2.34	110	.430	2	1.55	.015	.04	.2	.02	2.7	<.1	<.05	16	<.5	<10	<2	15.0
STANDARD DS5	12.4	137.4	23.9	130	.3	24.5	11.5	749	2.84	17.5	6.2	42.1	2.7	46	5.3	3.8	6.0	57	.71	.088	11	178.2	.67	129	.090	18	1.95	.034	.14	4.9	.16	3.3	1.0	<.05	6	4.6	172	43	15.0

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Pd ppb	Pt ppb	Sample gm
477995E 6485490N	2.0	24.2	7.5	73	<.1	342.7	28.9	934	5.40	5.4	1.1	1.7	2.3	12	.2	.3	.2	74	.24	.069	17	287.5	1.73	78	.277	2	2.78	.028	.04	.2	.03	4.6	.1	.08	15	.6	10	<2	15
478028E 6484547N	.8	30.8	3.1	58	<.1	836.1	84.7	1222	5.45	4.5	.5	13.5	.7	13	.3	.3	.1	63	.32	.055	4	937.3	8.01	99	.089	9	1.49	.009	.03	.1	.02	5.3	<.1	<.05	6	<.5	<10	4	15
478030E 6485452N	1.0	43.8	6.8	72	<.1	1031.0	51.5	1195	5.04	4.9	.7	1.5	1.0	13	.2	.3	.2	78	.27	.109	9	488.1	4.29	97	.137	5	2.08	.023	.05	.2	.03	6.6	.1	.06	9	.7	<10	2	15
478035E 6484226N	.5	59.5	3.0	47	.1	1420.6	73.3	1048	4.58	9.1	.3	9.3	.4	11	.1	1.9	.1	59	.44	.072	4	788.9	8.52	77	.054	12	1.32	.011	.03	.1	.04	7.6	<.1	<.05	4	.5	<10	3	15
478057E 6484587N	.9	26.6	3.3	75	<.1	779.7	82.1	1263	5.01	7.5	.5	.9	1.0	11	.2	.3	.1	63	.26	.065	6	878.4	6.59	135	.110	8	1.29	.012	.04	.1	.03	5.2	<.1	<.05	6	<.5	<10	3	15
478059E 6485410N	1.3	25.1	6.6	64	<.1	369.8	30.4	847	5.21	4.3	.7	3.4	1.1	11	.1	.2	.2	84	.25	.070	9	331.9	1.93	69	.257	2	2.24	.015	.04	.1	.03	3.9	.1	.07	12	.6	<10	<2	15
478088E 6484630N	1.2	24.1	5.0	103	<.1	499.8	51.2	1123	5.46	4.6	.4	1.9	.4	11	.2	.3	.1	72	.27	.102	6	762.4	4.28	90	.083	4	1.34	.012	.04	.2	.02	4.4	<.1	.06	8	<.5	<10	2	15
478092E 6484256N	.1	42.2	.8	42	<.1	929.4	50.1	674	4.51	2.2	.1	3.4	.3	9	.1	.4	<.1	102	.89	.027	2	578.8	7.86	104	.103	8	2.22	.110	.09	<.1	<.01	10.3	.1	<.05	5	<.5	<10	3	15
478097E 6485372N	.8	42.3	4.2	56	<.1	1247.1	43.0	684	4.40	4.4	.5	3.0	1.3	13	.2	.4	.1	59	.28	.047	8	482.5	5.26	82	.125	7	1.56	.014	.04	.2	.02	6.0	.1	<.05	6	<.5	<10	3	15
478123E 6484666N	.9	25.4	4.2	67	<.1	723.5	127.8	1912	6.83	3.5	.2	1.2	.7	12	.3	.2	.1	71	.48	.056	4	897.2	6.55	116	.105	9	1.24	.011	.05	.2	.04	6.5	<.1	<.05	7	<.5	<10	4	15
478132E 6485333N	.6	41.8	3.7	53	<.1	1249.7	38.3	471	4.27	4.1	.5	4.6	2.0	18	.1	.7	.1	55	.31	.051	9	394.3	5.15	104	.221	8	1.80	.014	.04	.2	.02	6.0	<.1	<.05	5	<.5	<10	2	15
478144E 6484243N	1.5	26.1	5.5	77	<.1	386.6	40.0	1043	4.83	4.6	.6	1.4	1.5	13	.2	.3	.1	71	.28	.056	11	356.7	3.44	87	.218	2	2.05	.048	.04	.1	.04	4.4	.1	<.05	13	<.5	11	<2	15
478164E 6485291N	.6	44.1	3.5	48	<.1	1061.7	46.6	643	4.27	3.8	.4	2.4	1.3	12	.1	.3	.1	61	.31	.032	7	529.8	5.82	73	.112	8	1.50	.013	.04	.2	.02	6.4	<.1	<.05	5	<.5	<10	3	15
478164E 6484699N	1.3	23.7	5.1	81	<.1	652.9	60.3	1109	5.63	7.7	.4	1.6	1.5	13	.2	.2	.1	77	.29	.059	8	493.0	4.11	77	.250	5	1.52	.018	.05	.2	.02	4.4	<.1	<.05	9	<.5	<10	2	15
478177E 6484204N	2.5	10.9	8.7	73	<.1	120.0	15.1	534	5.09	4.9	.7	1.7	1.8	8	.1	.3	.2	79	.12	.041	12	204.8	.83	61	.340	1	1.94	.019	.04	.2	.03	2.1	<.1	<.05	18	<.5	<10	<2	15
478179E 6483877N	.6	27.6	2.5	54	<.1	1216.5	83.3	1199	4.60	8.0	.8	14.0	.9	9	.1	.5	.1	51	.19	.041	6	1163.9	11.40	129	.081	20	1.33	.012	.03	.1	.02	6.2	<.1	<.05	5	<.5	<10	2	15
478190E 6485248N	.5	36.8	3.1	49	<.1	847.9	37.3	502	4.00	3.5	.4	3.4	1.1	11	.1	.3	.1	60	.28	.036	6	508.0	5.07	61	.081	5	1.55	.015	.03	.1	.01	6.4	<.1	<.05	5	<.5	<10	3	15
478193E 6484747-1N	2.2	13.7	8.6	82	<.1	248.9	31.1	863	5.65	5.4	.7	1.5	2.0	10	.1	.2	.2	81	.17	.059	11	315.3	1.67	69	.323	2	1.75	.015	.05	.2	.03	2.6	<.1	<.05	16	<.5	<10	<2	15
478193E 6484747-2N	2.1	14.4	7.7	86	<.1	277.3	36.4	935	5.78	5.5	.7	1.4	1.9	11	.1	.2	.2	86	.20	.055	10	319.4	1.90	67	.315	2	1.93	.023	.06	.2	.03	2.8	<.1	<.05	15	<.5	<10	2	15
478193E 6484150N	1.9	12.6	4.2	94	<.1	100.0	21.2	903	4.63	5.8	1.1	1.7	3.2	10	.2	.2	.1	52	.32	.077	18	71.3	.91	93	.289	1	<.01	.032	.04	.1	.06	3.3	<.1	.06	14	.5	<10	<2	15
478193E 6483829N	1.6	22.7	6.5	86	<.1	325.3	26.8	902	4.64	5.0	.8	1.4	1.3	15	.1	.2	.1	71	.26	.078	12	352.6	2.29	206	.195	2	2.37	.019	.05	.1	.03	3.9	.1	.09	13	.5	<10	<2	15
RE 478193E 6483829N	1.6	21.7	6.4	82	<.1	311.8	25.3	895	4.32	4.9	.8	1.4	1.2	14	.2	.2	.1	66	.25	.077	12	330.6	2.18	198	.197	1	2.31	.019	.05	.1	.03	3.7	.1	.08	13	.5	<10	<2	15
478198E 6483923N	1.4	32.5	5.3	76	<.1	708.7	51.5	1025	4.79	45.7	.6	1.9	1.7	19	.1	.5	.1	69	.37	.052	12	667.2	4.99	154	.216	6	1.64	.026	.05	.1	.02	4.9	<.1	<.05	10	<.5	<10	<2	15
478201E 6485197N	1.4	29.9	5.0	64	<.1	495.3	39.0	934	5.04	4.0	.6	1.8	1.8	14	.1	.2	.1	76	.30	.052	9	321.2	3.11	96	.285	4	2.23	.026	.04	.1	.03	4.3	<.1	<.05	10	<.5	<10	<2	15
478202E 6483780N	1.9	17.5	7.3	63	<.1	314.3	40.3	772	5.74	6.9	.4	6.5	1.2	13	.2	.2	.1	92	.38	.049	8	553.0	4.57	82	.195	3	1.64	.061	.04	.1	.02	4.1	<.1	<.05	15	<.5	<10	2	15
478203E 6483976N	2.5	14.6	7.7	75	<.1	206.5	22.2	828	5.25	5.7	.8	3.1	1.7	11	.2	.2	.2	76	.20	.059	12	320.3	1.77	87	.282	2	2.42	.016	.04	.1	.04	2.9	<.1	.07	16	<.5	<10	<2	15
478210E 6485147N	.6	27.9	3.1	48	<.1	619.5	39.4	479	3.49	3.0	.3	2.0	.9	11	.1	.3	.1	57	.27	.033	3	351.9	4.59	71	.065	7	1.39	.013	.03	.2	.02	4.6	<.1	<.05	4	<.5	<10	<2	15
478213E 6485096N	.7	47.2	3.8	62	<.1	815.5	43.4	829	4.97	3.6	.5	1.2	1.2	13	.1	.3	.1	84	.36	.047	8	502.2	4.61	70	.169	4	2.35	.021	.03	.1	.02	6.5	<.1	<.05	8	<.5	<10	2	15
478217E 6483730N	.5	60.7	2.8	53	<.1	895.8	71.7	953	4.38	39.2	.4	2.8	1.0	12	.1	.3	.1	52	.29	.044	6	992.8	7.88	171	.071	7	1.50	.014	.04	.1	.02	6.6	<.1	<.05	5	<.5	<10	3	15
478219E 6485042N	.9	54.9	4.8	67	<.1	814.1	47.8	906	4.73	4.2	.7	1.3	1.4	14	.1	.3	.1	83	.32	.055	12	363.3	3.69	103	.201	3	2.04	.025	.04	.1	.02	7.2	.1	<.05	9	<.5	<10	3	15
478219E 6484791N	.7	36.8	3.3	57	<.1	674.2	51.2	674	4.29	5.1	.3	1.7	1.1	10	.2	.3	.1	58	.27	.032	4	575.2	5.27	89	.074	6	1.41	.010	.03	.1	.02	4.8	<.1	<.05	5	<.5	<10	2	15
478221E 6484021N	1.0	17.8	3.6	85	<.1	782.9	99.3	1888	5.92	13.0	.3	1.2	.9	10	.2	.4	.1	68	.17	.051	5	1230.0	9.28	78	.094	12	1.45	.012	.03	.1	.01	4.7	<.1	<.05	8	<.5	<10	4	15
478226E 6484120N	.7	42.9	2.9	49	<.1	1004.0	67.0	891	5.46	8.4	.4	2.4	.8	6	.1	.6	.1	72	.47	.027	4	864.4	8.80	41	.094	11	1.81	.015	.03	.1	.02	6.9	<.1	<.05	7	<.5	<10	3	15
478229E 6484842N	.7	34.6	3.4	54	<.1	877.8	42.4	662	4.34	4.1	.5	1.3	1.1	12	.2	.3	.1	60	.30	.045	6	503.3	5.18	80	.105	7	1.50	.014	.04	.1	.02	5.2	<.1	<.05	6	<.5	<10	4	15
STANDARD DS5	12.4	136.4	23.7	137	.2	23.9	11.5	740	2.83	17.1	5.7	45.0	2.8	47	5.2	3.8	5.9	58	.74	.092	11	177.3	.70	130	.090	18	1.97	.034	.15	4.7	.17	3.4	1.0	<.05	6	4.6	178	45	15

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Pd ppb	Pt ppb	Sample gm
478230E 6484069N	2.7	13.4	10.2	63	<.1	295.1	36.9	893	5.80	3.7	.4	1.5	1.6	11	.1	1.3	.2	99	.19	.040	10	524.2	3.85	71	.339	5	1.36	.012	.04	.1	.02	2.5	<.1	<.05	23	<.5	<10	3	15.0
478233E 6484894N	.8	40.8	3.4	63	.1	903.1	45.1	734	4.82	5.1	.5	2.6	.6	14	.2	.4	.1	69	.36	.095	7	705.2	6.30	82	.105	6	1.59	.013	.04	.1	.02	5.8	<.1	<.05	6	<.5	<10	3	15.0
478234E 6483679N	.4	119.2	1.9	61	<.1	640.3	51.3	649	4.47	62.0	.2	3.4	.5	11	.1	.2	<.1	87	.49	.037	4	452.1	5.59	196	.184	3	2.49	.012	.04	.1	.01	5.8	<.1	<.05	7	<.5	<10	<2	15.0
478236E 6484995N	.5	31.6	2.4	44	<.1	800.1	38.9	432	3.80	3.1	.4	1.9	.8	11	.1	.2	<.1	53	.38	.023	4	481.1	6.31	60	.086	8	1.28	.015	.03	.1	.01	5.0	<.1	<.05	4	<.5	<10	<2	15.0
478242E 6484943N	1.1	26.3	3.9	60	<.1	573.8	50.2	1041	4.70	3.3	.5	2.4	1.2	13	.2	.3	.1	76	.35	.051	6	370.4	4.11	75	.247	4	1.60	.022	.04	.1	.02	4.4	<.1	<.05	8	<.5	<10	2	15.0
478266E 6483642N	.9	68.6	3.4	82	<.1	662.8	47.5	809	4.93	25.6	.6	2.3	1.7	20	.1	.2	.1	73	.43	.048	11	550.9	5.93	2516	.186	5	2.60	.037	.05	.1	.01	6.1	.1	<.05	9	<.5	<10	2	15.0
475574E 6485487N	.8	281.1	5.4	65	.1	2948.8	156.9	1153	6.55	4.0	.6	5.8	3.2	16	.2	.3	.2	79	.30	.054	20	689.6	5.11	130	.240	5	3.40	.024	.06	.1	.05	15.2	.1	<.05	10	<.5	12	3	15.0
475578E 6485539N	.8	93.0	5.1	55	<.1	1020.5	90.9	1052	4.82	2.8	.4	2.3	1.0	17	.1	.2	.1	55	.33	.069	7	424.5	3.98	130	.136	5	1.86	.013	.05	.1	.04	5.9	.1	<.05	6	<.5	<10	2	15.0
475580E 6485590N	.8	77.9	5.6	64	.1	848.4	114.8	1619	4.66	2.6	.4	2.3	.7	24	.2	.2	.1	62	.67	.103	8	328.1	3.26	92	.187	6	1.73	.017	.05	.1	.05	6.1	<.1	.14	7	<.5	<10	2	15.0
475583E 6485439N	.7	56.4	3.7	59	<.1	1021.4	207.0	1698	5.38	1.9	.3	3.4	.5	18	.2	.2	.1	52	.43	.077	4	725.7	6.59	96	.093	11	1.64	.020	.05	.1	.04	6.5	.1	.09	5	<.5	<10	2	15.0
475593E 6485386N	.3	161.6	1.3	38	.1	1106.4	57.0	561	3.63	1.1	.2	1.8	.6	13	.1	.1	<.1	30	.33	.031	3	490.8	6.97	39	.059	2	3.75	.032	.02	<.1	.02	5.6	.1	<.05	5	<.5	<10	3	15.0
475596E 6484889N	.7	57.3	4.4	67	.1	966.0	48.3	770	3.98	10.0	.8	1.7	.9	22	.5	.2	.1	64	1.09	.048	10	605.8	4.46	354	.076	6	1.69	.010	.05	.1	.04	6.8	.1	<.05	5	<.5	<10	2	15.0
475597E 6485643N	1.0	49.4	5.6	83	<.1	961.9	67.7	1457	5.90	3.0	.5	1.0	1.1	19	.2	.3	.1	78	.39	.081	9	337.8	3.90	125	.247	4	2.04	.024	.04	.1	.03	5.9	.1	.08	8	<.5	<10	<2	15.0
475611E 6485336N	.7	24.5	3.7	62	<.1	956.0	39.4	724	5.13	2.2	.3	1.0	1.3	20	.1	.1	.1	73	.80	.026	6	280.7	3.21	86	.267	3	2.47	.096	.09	.1	.01	5.7	.1	<.05	7	<.5	<10	<2	15.0
475617E 6485695N	1.0	34.9	5.3	79	<.1	823.9	50.2	1013	5.43	3.5	.6	5.2	1.4	15	.2	.2	.1	71	.29	.071	8	384.8	4.07	112	.215	5	2.08	.016	.04	.1	.02	5.2	.1	<.05	8	<.5	<10	<2	15.0
RE 475617E 6485695N	1.1	37.5	5.7	84	<.1	876.4	53.0	1138	5.78	3.6	.6	1.9	1.4	16	.2	.2	.1	75	.30	.069	9	424.5	4.17	116	.224	5	2.10	.020	.04	.1	.02	5.4	.1	<.05	8	<.5	<10	2	15.0
475621E 6485957N	.6	32.9	3.4	41	.1	1035.4	132.1	2333	3.11	2.5	.4	1.7	.3	28	.3	.2	.1	30	.72	.130	4	398.6	4.41	179	.031	7	.90	.013	.04	.1	.11	3.4	<.1	.17	3	<.5	<10	2	7.5
475622E 6484934N	1.4	51.6	3.3	101	<.1	1330.1	66.2	687	6.43	59.8	.3	.9	.6	9	.2	.4	.1	69	.20	.065	4	686.7	3.06	111	.064	4	1.64	.006	.07	.2	.04	5.1	.1	<.05	7	<.5	<10	2	15.0
475626E 6485286N	.5	147.8	3.0	50	.1	2737.5	153.6	1158	5.45	2.7	.4	14.5	1.5	9	.1	.4	.1	57	.21	.046	7	830.2	10.22	112	.083	10	1.90	.014	.03	.1	.04	10.4	.1	<.05	5	.5	17	5	15.0
475628E 6485894N	.6	81.8	4.1	76	.1	2496.6	91.8	1039	4.79	3.5	.6	3.6	1.4	16	.3	.2	.1	54	.41	.107	13	398.0	6.80	112	.101	8	1.87	.021	.07	.1	.06	8.3	.1	<.05	5	.6	<10	3	15.0
475629E 6485841N	.5	45.0	4.5	38	<.1	2374.3	159.4	1406	4.32	18.3	.2	1.8	.4	11	.2	.6	.1	53	.52	.080	3	496.7	9.54	68	.043	11	1.19	.016	.05	.1	.06	7.5	.1	.09	4	.5	<10	4	15.0
475635E 6485235N	.7	86.6	4.2	60	.1	873.9	48.6	708	4.53	3.5	.3	5.1	1.1	15	.2	.4	.1	71	.56	.052	8	618.1	4.87	131	.155	4	2.13	.021	.05	.1	.04	9.3	.1	<.05	7	<.5	<10	2	15.0
475637E 6486016N	.7	33.5	4.2	54	<.1	894.0	50.7	692	4.64	4.1	.4	1.9	1.3	14	.1	.2	.1	55	.26	.032	6	537.4	5.32	407	.086	5	1.38	.013	.05	.1	.03	5.9	.1	<.05	4	<.5	<10	2	15.0
475643E 6485744N	1.0	39.6	6.2	72	<.1	822.4	32.9	739	4.80	4.5	.7	1.8	1.4	13	.2	.3	.1	62	.24	.069	10	362.8	3.53	92	.153	3	2.06	.020	.05	.1	.03	5.0	.1	.06	7	.5	<10	<2	15.0
475646E 6484987N	.1	40.4	.6	43	<.1	635.9	41.8	571	3.76	2.6	.1	1.3	.4	11	<.1	.1	<.1	96	.35	.044	2	851.4	5.18	621	.108	2	2.36	.023	.18	<.1	.01	7.7	.2	<.05	6	<.5	<10	3	15.0
475650E 6485185N	.2	73.4	1.0	50	<.1	992.7	52.3	623	4.65	.8	.2	2.0	.8	14	.1	.1	<.1	71	.41	.030	4	839.7	8.27	312	.099	3	2.55	.036	.14	<.1	.02	8.5	.2	<.05	5	<.5	<10	2	15.0
475652E 6485797N	.5	40.0	4.2	53	<.1	1435.0	67.8	967	4.52	4.7	.3	5.5	.9	12	.2	.3	.1	61	.40	.057	5	758.1	7.15	415	.064	6	1.58	.030	.06	.1	.04	8.2	.1	<.05	4	<.5	<10	3	7.5
475652E 6485132N	.1	36.7	.9	32	<.1	1479.7	131.4	703	3.96	1.8	<.1	<.5	.1	5	<.1	.1	<.1	64	.14	.011	1	1762.7	10.84	169	.027	10	1.68	.008	.05	<.1	<.01	4.0	.1	<.05	6	<.5	<10	4	1.0
475653E 6486061N	.7	38.5	4.4	62	<.1	843.6	68.3	989	4.17	3.3	.4	1.9	.7	18	.2	.2	.1	47	.42	.077	7	402.9	4.93	121	.064	6	1.35	.019	.05	.1	.06	5.1	.1	.08	4	<.5	<10	3	15.0
475664E 6485036N	.3	29.9	.7	40	<.1	689.4	42.7	468	3.15	13.9	.2	1.2	.5	11	.1	.1	<.1	67	.36	.020	2	702.2	5.26	264	.058	2	1.95	.011	.13	<.1	.01	5.3	.2	<.05	6	<.5	<10	2	7.5
475674E 6485086N	.2	42.5	.7	28	<.1	754.5	62.9	496	3.03	.6	<.1	.7	.1	6	<.1	.1	<.1	53	.17	.015	<1	1195.5	5.30	117	.056	3	1.58	.005	.18	<.1	.01	2.7	.1	<.05	4	<.5	<10	<2	1.0
475692E 6486097N	.8	42.3	4.5	57	<.1	987.9	64.9	1007	5.59	3.4	.7	2.0	1.6	8	.1	.2	.1	51	.30	.044	11	808.8	6.44	85	.102	5	1.22	.023	.04	.1	.01	5.8	<.1	<.05	5	<.5	10	5	15.0
475723E 6486137N	.3	36.9	1.9	42	<.1	1353.2	96.3	1169	4.87	1.7	.2	1.4	.4	7	.1	.1	<.1	40	.29	.039	3	1021.9	10.84	72	.036	10	.84	.009	.03	.1	.04	5.5	<.1	<.05	3	<.5	<10	4	1.0
475725E 6486100N(PULP)	.6	90.8	6.1	18	<.1	43.0	11.9	210	1.67	1.4	.3	1.3	.3	21	<.1	.7	<.1	55	2.73	.031	2	68.2	1.48	20	.099	24	1.72	.019	.03	.2	.01	2.1	<.1	<.05	5	<.5	<10	3	1.0
STANDARD DS5	12.7	139.5	24.1	138	.3	24.3	11.9	761	2.99	17.9	5.8	43.1	2.8	45	5.3	3.7	6.0	58	.76	.089	12	177.1	.71	133	.101	19	2.13	.035	.15	4.7	.17	3.5	1.1	<.05	6	4.8	172	44	15.0

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Pd ppb	Pt ppb	Sample gm
475746E 6486185N	.6	45.1	3.4	51	<.1	1097.7	73.4	854	4.65	3.8	.3	3.0	.9	12	.1	.2	.1	61	.41	.049	5	489.3	5.67	108	.091	4	1.71	.044	.05	.1	.04	7.2	.1	<.05	4	5	<10	2	15.0
475777E 6486228N	.6	34.3	3.0	50	<.1	1214.0	83.6	838	5.11	3.3	.3	1.4	.8	10	.1	.2	.1	51	.29	.043	5	585.9	7.11	78	.086	7	1.27	.015	.04	1	.03	6.0	<.1	<.05	4	<.5	<10	2	15.0
475818E 6486250N	.5	30.3	3.4	48	<.1	1298.4	127.4	1548	4.87	2.9	.3	1.8	.5	11	.2	.2	.1	42	.39	.072	3	855.8	6.77	123	.039	8	.99	.012	.04	.1	.05	6.0	<.1	.06	3	<.5	<10	3	7.5
475922E 6486281N	.7	34.8	3.8	56	.1	1098.1	60.8	879	5.94	3.4	.4	1.5	1.3	12	.1	.2	.1	53	.34	.048	8	611.2	5.33	145	.136	5	1.35	.018	.04	.1	.02	5.3	<.1	<.05	5	<.5	<10	3	15.0
475971E 6486269N	.5	39.0	3.1	55	<.1	973.1	66.5	886	4.39	2.0	.3	.9	.3	12	.2	.1	.1	45	.36	.086	4	851.6	7.52	89	.068	8	1.02	.013	.04	.1	.06	4.7	<.1	.09	4	<.5	<10	3	1.0
475870E 6486279N	.7	46.1	5.7	67	<.1	1405.9	105.1	1524	5.36	3.9	.4	1.9	.9	14	.2	.2	.1	64	.33	.099	10	548.9	5.92	166	.105	6	1.66	.015	.05	.1	.03	7.0	.1	.06	5	.5	<10	3	15.0
476019E 6486257N	.7	59.0	5.6	62	.1	1270.2	90.6	1381	5.87	2.9	.5	3.5	1.3	13	.2	.2	.1	66	.41	.075	10	626.5	6.04	105	.255	7	1.72	.035	.04	.1	.04	7.2	<.1	<.05	6	.6	<10	4	15.0
4760B6E 6486241N	1.1	61.6	5.9	60	.1	1651.9	88.2	1152	5.62	4.3	.7	2.4	2.1	15	.2	.2	.1	51	.33	.065	15	404.5	4.81	118	.148	6	1.69	.025	.05	.1	.04	6.2	.1	<.05	6	<.5	<10	3	15.0
476137E 6486222N	.8	39.4	4.8	59	<.1	1227.4	89.9	1217	5.69	3.5	.5	1.6	1.1	13	.2	.2	.1	56	.34	.076	7	496.2	5.02	114	.121	5	1.55	.015	.05	.1	.06	6.9	.1	<.05	5	<.5	<10	3	15.0
4761B2E 6486194N	1.2	33.2	5.6	75	<.1	634.7	91.4	1628	5.59	3.4	.5	1.1	.6	19	.3	.2	.1	64	.46	.119	8	627.3	4.40	131	.143	5	1.52	.024	.05	.1	.06	5.5	<.1	.10	8	<.5	<10	2	15.0
476224E 6486161N	.7	32.1	3.8	56	<.1	830.5	57.0	704	5.22	3.3	.4	3.1	.9	11	.2	.2	.1	58	.28	.053	3	434.5	4.63	83	.112	3	1.38	.009	.04	.1	.03	5.3	<.1	<.05	4	<.5	<10	2	15.0
476255E 6486125N	.9	56.1	6.3	65	<.1	1360.9	123.1	1564	5.58	5.1	.6	1.0	1.0	19	.3	.3	.1	64	.40	.126	9	535.9	4.78	141	.142	5	1.93	.016	.06	.1	.07	8.2	.1	.09	6	.5	<10	3	15.0
476284E 6486084N	.7	46.1	4.0	59	.1	1433.2	83.6	987	5.98	3.9	.5	1.4	1.4	13	.2	.2	.1	54	.32	.054	10	574.2	6.78	92	.140	5	1.58	.016	.04	.1	.02	6.9	<.1	<.05	5	.5	<10	4	15.0
476316E 6486046N	.8	53.2	6.1	73	<.1	1578.2	100.6	1332	5.27	4.6	.6	2.0	1.3	18	.2	.2	.1	64	.39	.103	13	528.8	5.28	145	.165	4	2.20	.024	.05	.1	.04	8.1	.1	.07	6	.5	<10	3	15.0
476361E 6486040N	.7	45.2	5.3	71	<.1	1427.9	95.6	1212	5.65	4.4	.4	1.4	1.0	13	.2	.3	.1	58	.33	.098	8	691.1	5.99	125	.108	4	1.75	.015	.05	.1	.05	7.0	.3	.07	5	.7	<10	3	15.0
476413E 6486035N	.8	44.9	4.7	65	.1	1249.3	83.0	1238	6.57	4.1	.5	2.3	1.3	11	.2	.2	.1	61	.29	.089	8	707.6	6.13	84	.199	4	1.63	.026	.04	.1	.03	7.0	.1	<.05	5	.5	<10	3	15.0
476459E 6486036N	.8	56.1	4.1	57	.1	1594.6	183.0	1800	6.06	3.6	.4	1.3	.6	10	.3	.2	.1	50	.37	.092	5	585.1	7.52	102	.086	8	1.25	.014	.05	.1	.11	6.7	<.1	.08	4	.5	<10	5	1.0
476508E 6486016N	.8	46.5	4.3	56	.1	1272.0	125.2	1652	5.91	3.2	.4	170.4	.8	15	.2	.3	.1	56	.38	.080	7	908.6	7.12	129	.133	6	1.53	.016	.04	.1	.05	7.6	<.1	<.05	5	.6	<10	4	15.0
476559E 6486003-1N	.7	48.9	4.2	51	.1	1379.9	118.4	1459	5.36	3.6	.4	.8	.7	12	.2	.2	.1	48	.33	.081	7	847.4	7.55	96	.102	6	1.30	.014	.05	<.1	.06	6.7	<.1	.07	4	.5	<10	2	1.0
476559E 6486003-2N	.7	40.8	3.9	49	.1	1154.9	100.1	1285	5.41	3.0	.4	2.2	.9	11	.2	.2	.1	50	.32	.070	7	803.4	7.09	92	.125	5	1.30	.015	.05	<.1	.04	6.8	<.1	<.05	4	<.5	<10	4	7.5
476597E 6485969N	.6	44.6	3.7	54	<.1	1345.6	75.1	812	5.65	2.9	.4	2.5	1.2	11	.2	.2	.1	56	.35	.053	7	560.0	7.48	70	.127	7	1.47	.028	.04	.1	.01	6.4	<.1	<.05	4	5	<10	3	15.0
476625E 6485996N	.7	65.6	4.8	58	.1	1499.1	90.2	1067	4.98	3.7	.5	2.1	1.2	13	.2	.2	.1	59	.37	.088	9	522.9	6.08	97	.142	7	1.89	.032	.05	.1	.04	7.7	.1	<.05	5	.6	<10	3	7.5
RE 476597E 6485969N	.6	43.6	3.7	53	<.1	1292.9	72.0	790	5.55	2.9	.4	1.9	1.2	11	.2	.2	.1	54	.38	.052	7	552.5	7.56	69	.127	7	1.55	.030	.04	.1	.02	6.6	<.1	<.05	4	<.5	<10	4	15.0
476662E 6486039N	1.1	31.0	5.0	65	<.1	793.8	65.6	1237	5.48	2.9	.5	1.3	1.3	18	.2	.2	.1	69	.41	.074	9	434.3	3.81	112	.300	2	2.02	.032	.04	.1	.02	4.9	<.1	<.05	8	<.5	<10	2	15.0
476692E 6486075N	.7	43.3	3.3	55	<.1	1037.6	49.4	675	4.95	3.0	.4	2.6	1.2	13	.2	.2	.1	59	.35	.044	6	419.5	4.90	80	.151	3	1.79	.036	.04	.1	.02	5.7	<.1	<.05	6	<.5	<10	2	15.0
476730E 6486095N	.6	48.8	4.0	46	<.1	1666.7	69.9	733	6.22	3.1	.4	2.0	1.3	8	.1	.3	.1	52	.23	.038	7	488.6	4.67	75	.115	4	1.48	.011	.04	.1	.02	6.1	<.1	<.05	4	.5	<10	2	15.0
476780E 6486112N	.7	37.0	3.7	50	.1	1141.6	70.8	835	5.01	3.2	.4	3.1	.9	12	.2	.3	.1	51	.37	.050	5	401.6	5.37	86	.092	7	1.46	.021	.04	.1	.03	5.7	<.1	<.05	5	<.5	<10	2	15.0
476835E 6486105N	.6	41.5	4.0	47	<.1	1037.0	58.2	739	4.86	3.6	.3	1.5	1.1	10	.2	.3	.1	63	.36	.044	4	477.8	5.60	90	.127	5	1.79	.041	.05	.1	.01	5.9	<.1	<.05	5	<.5	<10	2	15.0
476890E 6486085N	1.2	33.3	6.6	65	<.1	816.9	75.4	1398	5.69	3.2	.5	1.7	1.1	12	.2	.2	.2	63	.25	.071	9	720.8	4.84	98	.179	3	1.47	.017	.04	.1	.03	4.8	<.1	<.05	9	<.5	<10	4	15.0
476938E 6486059N	1.3	31.6	6.7	67	<.1	678.1	52.5	1126	6.16	4.8	.7	1.9	2.1	15	.2	.3	.2	69	.34	.070	12	351.0	2.18	99	.391	2	2.39	.033	.04	.1	.03	4.4	<.1	<.05	11	<.5	<10	<2	15.0
4769B3E 6486041N	1.0	35.6	5.8	66	<.1	972.1	51.0	818	5.21	4.5	.5	2.4	1.5	14	.1	.3	.1	65	.26	.054	9	342.4	3.49	112	.247	3	1.91	.020	.05	.1	.03	5.1	<.1	<.05	7	<.5	<10	2	15.0
477021E 6486005N	1.0	52.3	7.5	62	.1	1247.0	87.3	1416	4.78	4.5	.5	2.3	.8	28	.2	.3	.2	68	.41	.132	11	465.6	3.50	226	.122	3	2.07	.015	.05	.1	.07	6.1	.1	.13	7	<.5	<10	3	1.0
477061E 6485970N	1.3	33.0	7.6	70	<.1	925.9	68.2	1389	5.90	4.7	.7	2.2	1.7	11	.2	.3	.2	59	.25	.068	14	728.8	3.94	104	.205	2	1.73	.027	.05	.2	.02	5.1	.1	<.05	10	<.5	<10	4	15.0
477089E 6485923N	.8	66.4	5.4	65	<.1	1466.6	117.7	1349	5.46	4.6	.5	19.9	1.0	13	.2	.3	.1	62	.33	.103	9	445.1	5.44	108	.114	6	1.95	.026	.05	.1	.06	8.1	.1	.06	6	.7	<10	2	15.0
STANDARD DS5	12.5	139.2	24.4	136	.3	24.2	11.8	725	3.00	17.9	5.6	44.0	2.6	37	5.3	3.8	5.7	58	.77	.089	10	188.2	.66	135	.091	17	2.03	.033	.15	4.7	.16	3.4	1.0	<.05	7	4.6	176	43	15.0

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Pd ppb	Pt ppb	Sample gm
477121E 6485881N	1.6	28.9	6.3	79	<.1	593.8	63.2	1591	6.63	3.9	.6	1.5	1.1	12	.2	.3	.2	81	.24	.066	9	696.7	3.46	89	.262	2	1.84	.015	.04	.1	.02	4.7	<.1	<.05	11	.5	<10	3	15.0
477172E 6485886N	.8	43.4	3.9	51	<.1	1221.8	51.7	603	5.34	3.8	.4	3.3	1.4	16	.1	.3	.1	56	.29	.037	5	365.1	5.21	104	.184	6	1.79	.013	.04	.1	.02	5.8	<.1	<.05	5	<.5	<10	2	15.0
475488E 6484856N	.6	37.1	3.2	41	<.1	1017.3	65.6	706	4.88	5.4	.9	1.4	1.2	9	.2	.3	.1	53	.24	.032	4	935.4	8.59	104	.081	6	1.24	.006	.04	.1	.02	5.9	<.1	<.05	3	<.5	<10	3	15.0
475509E 6484810N	.6	27.8	2.4	33	<.1	1026.6	65.3	594	4.45	5.1	.6	1.8	1.0	7	.1	.2	<.1	43	.19	.020	4	870.1	9.70	73	.062	8	1.13	.006	.02	.1	.01	5.0	<.1	<.05	3	<.5	<10	3	15.0
475517E 6484893N	.6	42.1	3.6	49	<.1	1311.9	92.0	863	4.79	8.3	.4	1.3	.9	10	.1	.4	.1	60	.18	.043	4	817.3	8.04	109	.075	12	1.40	.008	.03	.1	.02	7.1	.1	<.05	5	<.5	<10	2	15.0
475528E 6484763N	1.2	24.6	4.7	56	.1	792.8	52.2	752	5.08	5.6	.5	2.1	1.3	14	.2	.3	.1	68	.26	.044	5	676.7	6.38	136	.150	5	1.94	.011	.04	.1	.02	4.7	<.1	<.05	7	<.5	<10	2	15.0
475568E 6484731N	1.5	26.0	8.2	79	.1	572.4	50.2	1401	5.75	6.0	.9	1.1	2.0	18	.2	.2	.2	81	.23	.059	13	466.3	2.99	188	.304	2	2.13	.014	.07	.2	.02	5.2	.1	<.05	13	<.5	<10	2	15.0
475611E 6484706N	.6	30.8	4.1	55	.1	1272.7	205.5	2282	5.47	9.3	.4	10.9	.5	13	.2	.3	.1	53	.27	.158	4	1258.6	9.37	140	.052	8	1.23	.009	.04	.1	.03	8.0	.1	.08	4	.5	<10	3	15.0
475652E 6484668N	1.0	35.2	4.7	57	<.1	836.0	38.7	601	4.63	6.1	.7	1.0	1.1	14	.2	.3	.1	64	.28	.064	12	729.9	5.78	185	.125	5	1.75	.010	.05	.1	.02	6.2	.1	<.05	7	.5	<10	3	15.0
475681E 6484626N	.7	45.0	3.4	54	.1	1012.4	44.8	501	4.80	13.3	.4	1.7	.8	16	.1	.2	.1	60	.30	.062	5	887.5	6.14	450	.106	3	2.13	.021	.04	.1	.02	7.1	.1	<.05	6	<.5	<10	3	15.0
475702E 6484581N	.8	21.5	4.8	59	<.1	1304.0	59.8	788	5.03	6.0	.3	1.0	1.5	17	.1	.2	.1	51	.37	.038	7	937.7	6.19	230	.204	5	1.59	.032	.05	.1	.02	5.7	<.1	<.05	4	<.5	<10	3	15.0
475724E 6484054N	1.1	28.4	3.9	77	<.1	663.0	59.3	1017	5.44	2.7	.8	1.2	.7	13	.2	.2	.1	76	.52	.074	6	824.3	6.39	87	.154	4	1.86	.018	.04	.1	.02	5.4	<.1	<.05	8	<.5	<10	3	15.0
RE 475652E 6484668N	.9	35.9	4.7	58	.1	861.4	39.7	619	4.85	5.8	.7	3.3	1.1	14	.2	.3	.1	64	.29	.065	12	766.1	6.03	190	.127	5	1.78	.011	.05	.1	.03	6.2	.1	<.05	7	<.5	<10	2	15.0
475733E 6484103N	.6	25.2	3.0	48	<.1	1724.5	82.2	958	5.01	2.6	.3	1.6	1.1	12	.1	.2	.1	41	.25	.038	7	978.7	10.21	58	.068	8	1.03	.011	.03	.1	.01	6.4	<.1	<.05	3	.5	<10	4	15.0
475739E 6484004N	1.0	21.8	4.9	70	<.1	953.8	72.5	966	5.42	4.3	1.3	1.8	1.2	11	.2	.2	.1	66	.31	.063	6	901.0	7.17	66	.138	9	1.60	.013	.05	.2	.03	5.2	<.1	<.05	7	<.5	<10	3	15.0
475742E 6484153N	.3	15.9	1.4	36	<.1	2065.3	91.5	849	3.51	1.2	.1	1.3	.3	6	.1	.1	<.1	22	.15	.025	2	1109.6	15.27	22	.024	11	.45	.005	.02	.1	.01	5.2	<.1	<.05	2	.5	<10	6	15.0
475746E 6484556N	1.1	16.8	5.6	83	<.1	854.8	67.4	1192	6.27	3.7	.4	1.4	1.9	14	.2	.2	.1	65	.30	.048	9	931.2	4.85	116	.257	5	1.64	.020	.04	.2	.02	4.6	<.1	<.05	7	<.5	<10	2	15.0
475755E 6483955N	.4	19.0	1.8	33	<.1	1197.8	78.5	762	5.23	2.7	1.1	.7	.5	8	.2	.2	<.1	51	.25	.036	2	1301.7	11.36	41	.041	11	1.12	.008	.03	.2	.02	5.8	<.1	<.05	3	<.5	<10	3	15.0
475763E 6484208N	.3	18.0	1.9	52	<.1	1919.3	72.7	697	4.67	1.4	.2	1.7	.7	7	.1	.1	<.1	34	.18	.035	5	1169.7	14.80	33	.069	8	.75	.009	.02	.1	.01	5.9	<.1	<.05	3	.5	<10	6	15.0
475771E 6484511N	.6	33.4	3.0	64	.1	1324.6	112.5	1594	5.74	3.2	.3	1.1	.6	16	.1	.2	.1	54	.46	.088	5	972.9	7.91	125	.096	7	1.48	.033	.05	.2	.03	6.7	.1	.07	5	<.5	<10	4	15.0
475786E 6484284N	.6	23.5	4.3	70	.1	1444.0	67.3	913	5.53	3.0	.4	1.7	1.1	11	.2	.1	.1	43	.24	.076	7	1223.8	10.58	80	.095	8	1.19	.014	.04	.2	.02	6.1	.1	<.05	4	.5	<10	3	15.0
475793E 6483920N	.6	20.2	2.9	44	<.1	1027.4	54.0	644	4.10	2.5	.7	2.0	1.2	13	.1	.3	.1	46	.29	.032	7	801.5	8.43	71	.086	10	1.22	.012	.04	.2	.02	5.5	<.1	<.05	4	<.5	<10	3	15.0
475802E 6484304N	.6	22.9	3.7	70	<.1	1327.7	74.7	1057	5.63	3.0	.3	1.3	.8	12	.1	.2	.1	50	.30	.069	5	1247.6	9.61	86	.106	8	1.14	.011	.03	.2	.02	6.8	<.1	<.05	4	.5	<10	4	15.0
475816E 6483875N	1.2	16.4	5.0	89	<.1	720.5	48.6	874	5.42	3.5	.6	1.7	1.3	18	.2	.2	.1	67	.40	.072	7	740.3	5.53	81	.306	6	1.62	.018	.04	.2	.03	4.1	<.1	<.05	8	<.5	<10	2	15.0
475817E 6484489N	.3	28.5	1.0	26	<.1	1744.1	83.8	726	3.66	2.1	.1	1.9	.2	8	.1	.1	.1	25	.33	.063	2	1113.5	12.99	39	.014	11	.57	.005	.02	.1	.02	5.2	<.1	<.05	2	.5	<10	4	1.0
475819E 6484352N	1.1	15.6	4.9	78	<.1	1028.1	72.8	1246	5.66	3.3	.5	2.2	2.4	14	.1	.1	.1	58	.32	.055	11	771.4	5.13	88	.341	5	1.76	.032	.04	.1	.02	4.4	<.1	<.05	7	<.5	<10	3	15.0
475847E 6483835N	.7	31.1	3.8	56	.1	1232.4	76.0	944	4.93	3.5	.6	1.7	.7	18	.1	.3	.1	46	.42	.078	6	1166.3	9.44	91	.068	7	1.34	.011	.04	.2	.03	6.3	<.1	<.05	4	<.5	<10	4	15.0
475854E 6484455N	.8	35.3	5.0	63	.1	890.3	41.3	600	4.15	3.9	.6	1.3	.9	18	.2	.3	.1	58	.43	.083	12	711.4	4.63	157	.097	4	1.79	.012	.05	.1	.04	6.8	.1	<.05	6	<.5	<10	3	7.5
475877E 6483793N	.4	41.8	2.4	44	<.1	1255.1	86.3	999	4.49	2.2	.3	.8	.5	9	.1	.3	<.1	43	.32	.069	2	1180.1	9.63	185	.035	10	1.28	.012	.06	.1	.02	7.9	.1	<.05	3	<.5	<10	3	15.0
475908E 6483752N	.6	28.1	3.4	51	<.1	1297.3	88.2	1151	4.55	3.3	.3	1.3	.9	16	.1	.3	.1	49	.43	.038	4	910.7	9.86	64	.070	8	1.15	.009	.06	.2	.02	5.8	<.1	<.05	4	<.5	<10	4	15.0
475941E 6483715N	.4	22.9	3.2	35	<.1	1103.4	43.7	497	3.54	7.3	.3	1.4	.5	22	.1	.5	.1	37	.68	.071	4	1149.5	7.55	84	.050	9	.95	.010	.03	.2	.03	4.5	<.1	.08	3	.9	<10	5	7.5
475977E 6483682N	.6	23.4	5.1	41	<.1	918.4	70.8	1201	4.90	5.0	.4	2.0	.5	19	.1	.2	.1	49	.61	.132	7	1170.0	5.88	125	.059	6	1.19	.010	.04	.5	.03	5.1	<.1	.10	5	<.5	<10	2	15.0
476004E 6483633N	.8	19.9	6.0	67	<.1	870.9	44.3	770	5.45	4.8	.5	1.1	1.8	14	.2	.2	.1	58	.36	.058	11	959.8	5.92	91	.225	5	1.58	.018	.04	.3	.02	5.3	.1	<.05	6	.5	<10	3	15.0
476023E 6483585N	1.2	13.4	7.8	70	<.1	726.2	45.9	932	5.20	6.3	.6	3.4	3.1	15	.2	.2	.2	53	.36	.059	11	640.5	3.65	108	.314	4	2.61	.040	.05	.2	.02	3.6	<.1	<.05	8	.5	11	<2	15.0
STANDARD DS5	12.3	138.4	24.6	127	.3	23.0	11.8	727	3.03	17.8	5.5	40.1	2.6	44	5.3	3.8	5.8	58	.73	.089	11	177.9	.64	137	.094	16	1.93	.033	.14	4.8	.17	3.3	1.1	<.05	6	4.5	182	43	15.0

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Pd ppb	Pt ppb	Sample gm
476048E 6483497N	1.7	20.2	7.0	65	<.1	541.4	27.5	872	5.15	5.9	.6	2.7	.9	22	.2	.3	.2	66	.43	.090	11	464.7	1.92	109	.258	3	1.65	.014	.04	.3	.03	3.1	<.1	.10	12	.5	<10	3	15.0
476054E 6483447N	.9	20.8	5.7	70	<.1	767.5	40.3	851	4.93	4.3	.7	1.8	1.4	17	.1	.2	.1	59	.28	.053	11	508.2	4.75	114	.191	3	1.82	.013	.04	.2	.02	4.3	<.1	<.05	9	<.5	<10	4	15.0
476056E 6483546N	.7	35.2	4.2	69	<.1	1335.0	67.8	947	4.62	4.6	.4	2.1	.7	15	.2	.3	.1	41	.36	.091	7	1111.5	8.29	263	.060	6	1.33	.013	.05	.2	.02	5.1	<.1	<.05	5	.5	<10	2	15.0
476066E 6483397N	.6	27.1	3.5	51	<.1	896.8	53.7	579	4.23	3.4	.5	1.5	1.2	12	.1	.3	.1	45	.24	.033	5	732.2	6.68	79	.059	6	1.22	.008	.04	.1	.02	6.6	.1	<.05	3	<.5	<10	4	15.0
476084E 6483348N	.6	30.8	3.4	55	<.1	878.0	49.6	647	4.51	3.2	.4	2.5	1.3	12	.1	.3	.1	45	.28	.032	7	737.1	6.49	103	.105	6	1.27	.012	.04	.1	.01	5.8	<.1	<.05	4	<.5	<10	4	15.0
476116E 6483310N	.4	47.1	3.1	46	.1	1293.5	45.9	459	3.62	5.0	.3	3.6	.5	23	.1	.4	.1	33	.62	.124	9	928.2	6.93	91	.032	11	1.07	.010	.03	.1	.03	3.9	<.1	.13	3	.7	<10	5	7.5
476116E 6483173N	1.8	13.6	8.0	100	<.1	299.9	18.8	852	5.03	7.0	1.0	2.5	2.4	18	.2	.2	.2	68	.26	.077	19	174.1	1.06	177	.315	1	2.72	.019	.05	.3	.03	3.2	.1	.07	16	<.5	<10	<2	15.0
476125E 6483124N	.6	21.6	3.6	47	<.1	636.3	35.3	444	3.72	3.2	1.1	1.1	1.3	14	.1	.2	.1	46	.31	.039	6	567.7	5.89	87	.081	5	1.19	.009	.03	.1	.01	4.4	<.1	<.05	4	<.5	<10	2	15.0
476131E 6483030N	.7	25.0	3.5	50	<.1	769.8	37.9	482	3.97	3.2	.6	2.8	1.6	15	.1	.2	.1	48	.36	.041	8	587.7	6.22	82	.092	5	1.27	.010	.03	.1	.02	4.7	<.1	<.05	5	<.5	<10	3	15.0
476144E 6483078N	2.0	21.9	6.9	97	<.1	496.4	31.5	960	5.45	4.8	1.1	4.0	1.8	21	.2	.2	.1	74	.35	.087	14	366.9	2.45	168	.277	2	2.44	.021	.05	.1	.03	4.2	.1	.07	13	<.5	<10	<2	7.5
476146E 6483214N	.8	23.1	4.2	81	<.1	1214.2	65.1	829	5.70	3.8	.5	1.5	.8	11	.2	.2	.1	49	.39	.064	6	1324.1	10.16	59	.077	10	1.28	.010	.04	.2	.02	5.6	<.1	<.05	6	.5	<10	5	15.0
476150E 6483283N	.4	35.5	2.4	41	<.1	979.0	55.8	575	4.14	2.6	.3	3.4	.9	9	.1	.2	<.1	40	.32	.022	3	800.6	8.44	46	.050	7	.91	.007	.03	.1	.01	5.8	<.1	<.05	3	<.5	<10	4	15.0
475481E 6482492N	.8	18.6	4.4	53	<.1	960.9	41.5	684	4.39	4.2	1.0	.8	1.5	22	.1	.2	.1	46	.39	.046	11	582.2	7.23	84	.146	6	1.51	.017	.03	.3	.02	4.1	<.1	<.05	6	.5	<10	3	15.0
475756E 6482342N	.7	22.0	4.4	59	<.1	732.8	47.9	759	4.00	13.4	.8	3.0	1.1	20	.1	2.0	.1	48	.33	.049	7	677.3	6.50	93	.128	5	1.55	.014	.05	.1	.03	4.0	<.1	<.05	6	.5	<10	2	15.0
475765E 6482393N	1.1	26.9	4.7	68	<.1	933.5	44.9	839	4.52	6.8	.8	5.8	1.4	17	.1	.9	.1	57	.30	.071	13	613.9	5.48	109	.182	6	1.91	.015	.04	.2	.02	4.6	<.1	<.05	7	<.5	<10	2	15.0
475768E 6482289N	.7	23.6	3.9	57	<.1	860.9	59.9	1039	4.04	8.6	.7	2.4	.7	19	.2	2.2	.1	46	.33	.078	6	779.6	7.12	92	.094	9	1.52	.011	.04	.1	.04	3.8	<.1	.08	6	.5	<10	3	15.0
475778E 6482541N	.7	13.2	3.7	53	<.1	1090.5	33.7	473	3.80	2.5	.7	1.8	1.6	22	.1	.1	.1	41	.37	.039	11	467.4	7.36	88	.172	10	1.64	.018	.03	.2	.02	3.7	<.1	<.05	6	<.5	<10	3	15.0
475780E 6482591N	.6	17.9	3.9	57	<.1	963.5	42.5	543	3.49	2.1	.7	1.2	.8	26	.1	.2	.1	39	.44	.049	6	578.1	8.52	75	.104	11	1.17	.013	.04	.2	.02	4.0	<.1	<.05	4	.6	<10	2	15.0
RE 475780E 6482591N	.6	17.7	3.8	57	<.1	955.9	42.1	550	3.45	2.1	.7	1.4	.8	26	.1	.2	.1	39	.42	.052	6	560.2	8.17	74	.105	11	1.12	.013	.04	.3	.02	3.8	<.1	.06	4	.5	<10	4	15.0
475784E 6482441N	.6	27.9	3.8	64	<.1	976.0	40.2	556	4.24	5.1	.5	1.9	1.1	19	.1	.3	.1	50	.36	.053	9	785.6	7.75	87	.117	7	1.32	.013	.03	.1	.01	5.5	<.1	<.05	5	<.5	<10	2	15.0
475787E 6482642N	.6	16.8	3.6	55	<.1	969.8	60.2	690	4.13	2.4	1.8	.8	1.1	13	.2	.2	.1	46	.29	.032	4	704.5	9.41	66	.114	8	1.09	.009	.03	.3	.03	4.2	<.1	<.05	5	<.5	<10	2	15.0
475792E 6482244N	.7	24.0	4.7	69	<.1	1031.4	65.4	896	4.88	16.6	.6	12.4	1.5	13	.2	2.2	.1	53	.26	.041	8	882.6	8.32	78	.154	5	1.75	.016	.04	.1	.02	3.9	<.1	<.05	9	<.5	<10	<2	15.0
475796E 6482690N	.7	34.7	3.4	60	<.1	1253.8	44.7	649	4.04	1.6	.6	5.3	1.5	20	.1	.1	.1	40	.44	.045	12	643.8	9.28	83	.160	15	1.56	.019	.03	.1	.02	4.3	<.1	<.05	5	1.0	11	7	15.0
475816E 6482199N	1.1	20.9	5.1	108	<.1	496.0	55.1	1219	4.04	3.1	1.2	1.9	.4	23	.3	.3	.1	57	.54	.145	6	644.3	5.03	121	.119	8	1.34	.010	.05	.4	.06	3.4	.1	.12	6	<.5	<10	<2	15.0
475821E 6482736N	.5	30.4	2.8	48	<.1	1164.6	53.2	682	3.91	2.1	1.2	2.2	1.0	13	.1	.1	.1	42	.34	.031	6	687.8	9.75	62	.087	8	1.08	.009	.02	.1	.01	5.1	<.1	<.05	4	<.5	<10	4	15.0
475833E 6482152N	.6	20.7	2.9	41	<.1	898.8	65.1	718	3.98	2.6	1.7	4.0	.4	15	.2	.3	.1	44	.47	.069	3	1029.4	9.39	73	.049	9	1.22	.007	.03	.2	.02	4.7	<.1	<.05	3	<.5	<10	2	15.0
475857E 6482772N	.4	29.3	3.0	56	<.1	1309.9	45.8	517	3.80	2.1	.6	3.6	1.2	19	.1	.2	.1	37	.35	.042	8	713.6	9.86	64	.091	10	1.16	.012	.03	.2	.02	4.3	<.1	<.05	4	.6	<10	4	15.0
475857E 6482105N	.6	24.1	2.7	47	<.1	1268.3	68.8	843	4.01	2.6	3.6	.9	.9	11	.2	.2	<.1	44	.47	.045	5	1007.4	10.44	64	.070	11	1.22	.008	.04	.2	.03	5.4	<.1	<.05	3	<.5	<10	3	15.0
475883E 6482060N	.6	25.7	3.2	48	<.1	1002.1	60.8	721	4.10	3.8	1.0	1.5	.8	13	.1	.2	.1	46	.35	.045	4	936.5	8.90	70	.052	9	1.26	.009	.04	.2	.02	5.3	<.1	<.05	3	<.5	<10	<2	15.0
475903E 6482799N	.7	23.1	3.5	65	<.1	975.2	43.3	616	4.27	2.9	.6	2.1	1.1	15	.1	.2	.1	50	.27	.045	7	713.8	7.35	91	.134	7	1.29	.011	.03	.1	.01	4.8	<.1	<.05	5	<.5	<10	4	15.0
475905E 6482014N	.6	29.7	2.8	48	<.1	1445.2	65.2	712	4.23	3.0	1.7	2.7	.7	14	.2	.2	<.1	41	.45	.050	5	1011.4	11.85	56	.056	12	1.12	.008	.03	.2	.03	5.4	<.1	<.05	3	.6	<10	4	15.0
475929E 6481969N	.6	15.8	3.1	49	<.1	1027.0	65.6	671	4.35	3.1	1.2	2.3	.8	10	.1	.1	.1	43	.36	.034	4	778.4	10.40	46	.091	9	1.17	.009	.03	.2	.02	4.4	<.1	<.05	4	<.5	<10	<2	15.0
475946E 6482828N	.9	22.9	3.5	62	<.1	932.6	44.6	674	4.56	2.7	1.8	1.7	1.3	12	.1	.2	.1	51	.26	.035	8	690.9	8.41	66	.155	8	1.52	.010	.03	.1	.01	4.6	<.1	<.05	6	<.5	13	3	15.0
475951E 6481922N	.6	36.5	3.3	50	<.1	1017.8	49.2	635	3.17	3.3	.7	4.0	.4	26	.1	.3	.1	36	.47	.093	8	651.0	7.11	96	.060	10	1.08	.010	.03	.2	.03	3.5	<.1	.10	4	.7	<10	4	15.0
STANDARD DS5	12.7	140.7	23.7	137	.2	23.1	11.9	740	2.99	18.0	5.9	42.9	2.7	44	5.6	3.8	5.9	60	.75	.094	11	183.5	.66	131	.097	17	2.05	.032	.13	4.7	.18	3.4	1.1	<.05	6	4.8	185	46	15.0

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Pd ppb	Pt ppb	Sample gm
475969E 6481873N	1.2	16.5	4.6	74	<.1	790.9	48.7	806	5.07	3.3	2.0	6.0	2.0	16	.1	.1	.1	66	.27	.036	8	567.1	5.42	65	.325	5	1.61	.017	.03	.2	.02	3.1	<.1	<.05	8	<.5	10	2	15.0
475985E 6482862N	1.0	27.0	3.9	62	.1	1154.6	57.8	810	4.52	2.9	1.9	2.0	1.9	10	.1	.1	.1	54	.23	.036	11	691.3	8.57	57	.163	9	1.64	.013	.03	.2	.02	5.0	<.1	<.05	7	<.5	<10	3	15.0
475987E 6481824N	.5	25.1	2.3	41	<.1	1345.2	68.2	720	3.77	2.4	1.3	1.5	.7	11	.1	.1	< 1	38	.29	.029	4	902.8	10.59	57	.033	10	.94	.007	.03	.2	.03	4.5	<.1	<.05	3	<.5	<10	3	15.0
476008E 6481777N	.5	25.3	3.0	47	<.1	1243.8	57.3	581	4.05	2.5	1.6	1.8	.9	11	.1	.2	.1	42	.30	.035	6	925.3	10.41	59	.058	9	1.09	.008	.03	.2	.02	4.7	<.1	<.05	4	<.5	<10	4	15.0
476028E 6482890N	.3	25.8	2.2	55	<.1	1411.5	54.7	543	4.11	2.7	.3	11.8	1.1	9	.1	.1	<.1	37	.30	.024	6	931.2	11.70	61	.077	12	.96	.009	.02	.1	.01	4.7	<.1	<.05	3	<.5	<10	4	15.0
476038E 6481736N	1.3	17.9	5.5	91	.1	545.0	61.6	1464	4.05	3.4	1.5	1.1	.5	32	.3	.2	.1	51	.49	.111	7	514.3	4.54	132	.100	10	1.39	.014	.05	.5	.06	2.8	<.1	.14	7	<.5	<10	2	15.0
476064E 6481690N	.7	22.5	3.2	68	.1	963.1	75.8	1045	3.91	2.5	.7	1.7	.4	16	.2	.2	.1	43	.36	.096	3	804.3	9.03	76	.052	9	1.06	.009	.04	.3	.04	3.4	<.1	.09	4	<.5	<10	3	15.0
476073E 6482914N	.2	22.0	1.3	37	<.1	1696.3	57.8	458	3.49	1.3	.2	1.9	.3	6	.1	.1	<.1	27	.27	.025	3	998.2	13.73	29	.029	12	.61	.007	.02	.1	.01	4.3	<.1	<.05	2	<.5	<10	4	15.0
476093E 6481648N	.6	26.4	2.8	55	.1	1191.5	85.5	1034	4.00	2.6	1.4	1.8	.4	11	.2	.1	.1	38	.33	.122	6	1012.5	10.24	73	.029	9	1.02	.008	.03	.3	.02	3.7	<.1	.08	3	<.5	<10	4	15.0
476110E 6482951N	.4	25.8	2.4	46	<.1	1195.9	47.8	502	3.74	3.4	.5	1.5	.8	10	.1	.2	<.1	38	.29	.035	5	926.5	9.81	48	.055	9	.94	.008	.03	.2	.02	4.6	<.1	<.05	3	.5	<10	2	15.0
476133E 6481599N	.4	22.1	2.7	49	<.1	1542.4	73.9	772	3.88	1.6	.4	1.5	.6	9	.1	.1	<.1	38	.30	.040	4	1015.2	13.18	61	.045	12	.92	.008	.03	.2	.02	5.3	<.1	<.05	3	<.5	<10	5	15.0
476140E 6481635N	.2	19.8	.9	33	<.1	1927.7	120.4	834	2.54	.9	.2	4.8	.3	3	<.1	<.1	<.1	20	.25	.008	1	822.5	15.88	17	.010	12	.39	.003	.01	.1	.03	4.2	<.1	<.05	1	<.5	12	6	15.0
476152E 6481552N	.5	19.1	2.4	39	<.1	1529.8	87.2	841	3.94	1.8	.8	1.1	.7	9	.1	.1	<.1	38	.26	.029	4	1036.0	12.61	49	.052	12	.93	.007	.02	.2	.02	5.1	<.1	<.05	3	<.5	<10	4	15.0
476154E 6482978N	1.0	27.6	4.7	61	.1	757.0	38.4	716	4.14	4.8	.9	2.7	1.0	18	.2	.3	.1	55	.39	.067	8	632.5	4.83	110	.132	6	1.65	.015	.05	.2	.03	4.0	.1	.07	7	.6	<10	<2	15.0
476185E 6481513N	.4	17.7	2.4	55	<.1	1533.9	105.1	1075	4.82	1.9	1.2	2.9	.7	8	.2	.1	<.1	43	.28	.034	4	1265.0	12.93	58	.055	13	1.06	.008	.03	.2	.03	5.8	<.1	<.05	3	<.5	<10	4	15.0
476220E 6481476N	1.0	17.0	5.7	76	<.1	739.8	62.0	994	4.49	3.2	1.0	1.6	1.0	18	.2	.1	.1	53	.32	.053	6	747.0	7.36	94	.131	7	1.39	.012	.04	.4	.02	3.7	<.1	<.05	7	<.5	<10	2	15.0
476255E 6481437N	.7	22.1	3.3	48	<.1	1210.3	60.7	715	4.44	2.8	1.3	.8	1.1	9	.1	.1	.1	48	.29	.028	9	966.8	9.64	58	.085	8	1.26	.008	.03	.2	.02	4.8	<.1	<.05	5	<.5	<10	3	15.0
476280E 6481390-5N(PULP)	12.9	156.8	6.2	52	.1	12.0	11.0	397	4.08	5.0	.4	25.7	1.0	41	.2	.2	.5	87	.64	.053	4	19.0	.65	49	.109	<1	1.65	.016	.03	.1	.02	4.2	<.1	.55	5	3.2	<10	<2	7.5
476284E 6481394N	.4	22.9	2.4	39	<.1	1366.8	85.7	855	4.15	1.9	1.5	1.2	.8	7	.1	.1	<.1	38	.33	.019	4	1056.2	12.99	38	.037	11	.88	.006	.03	.1	.02	5.3	<.1	<.05	3	<.5	<10	3	7.5
476347E 6481380N	.4	26.7	2.7	50	<.1	1770.5	125.9	1206	3.98	1.3	.2	2.0	.6	6	.1	.1	<.1	30	.35	.027	4	957.4	14.24	38	.038	12	.65	.007	.02	.2	.02	4.6	<.1	<.05	2	.5	<10	5	7.5
476375E 6481337N	.6	23.7	3.7	67	<.1	1463.7	80.3	1040	4.15	1.8	.3	1.9	.7	14	.1	.1	.1	43	.40	.076	7	960.6	11.04	76	.090	12	1.22	.014	.04	.4	.04	4.9	<.1	.10	4	.6	<10	3	15.0
476385E 6481287N	.4	13.7	2.3	65	<.1	2014.6	176.4	1421	4.00	1.1	.2	2.4	.5	9	.1	.1	<.1	31	.24	.044	3	1009.2	13.35	60	.054	22	.77	.009	.03	.4	.04	4.5	<.1	.07	2	.5	<10	4	15.0
476411E 6481242N	.4	24.6	2.1	51	<.1	2177.7	109.7	1122	4.04	1.0	.2	1.7	.4	8	.1	.1	<.1	27	.21	.048	4	1129.9	15.63	43	.035	23	.66	.007	.02	.4	.02	4.3	<.1	.06	2	.6	<10	6	15.0
476441E 6481200N	.3	13.6	1.9	47	<.1	2139.3	148.5	1356	3.74	.9	.1	1.6	.3	7	.1	<.1	<.1	30	.30	.046	2	1341.2	15.29	44	.019	23	.60	.005	.02	.4	.04	6.0	<.1	.06	2	.5	<10	6	15.0
RE 476508E 6481125N	.3	13.8	.9	41	<.1	2117.2	109.0	899	2.85	.7	.2	5.3	.6	4	.1	<.1	<.1	22	.15	.015	4	928.3	16.23	21	.031	20	.46	.005	.01	.2	.02	3.9	<.1	<.05	1	<.5	11	3	15.0
476475E 6481164N	.4	17.4	3.2	60	<.1	2247.8	169.4	1726	3.34	1.0	.2	11.3	.5	5	.1	.1	.1	26	.20	.034	4	873.2	15.79	36	.037	31	.59	.006	.02	.4	.10	4.1	<.1	<.05	2	.6	<10	8	1.0
476508E 6481125N	.2	13.8	.9	39	<.1	2167.3	108.9	916	2.88	.6	.2	6.1	.5	4	.1	<.1	<.1	23	.16	.015	4	934.4	16.53	21	.032	24	.46	.005	.01	.2	.02	4.0	<.1	<.05	2	<.5	12	3	15.0
476540E 6481085N	.3	12.6	1.3	43	<.1	2401.3	147.4	1214	3.39	.8	.1	2.3	.3	5	.1	<.1	<.1	26	.18	.041	2	1415.3	17.20	37	.024	26	.54	.006	.01	.3	.03	5.3	<.1	<.05	2	.5	<10	8	15.0
476571E 6481052N	.5	18.0	2.9	104	.1	997.7	96.2	1016	4.26	1.3	.2	1.8	.5	13	.1	.1	.1	31	.27	.053	5	1151.2	12.23	43	.060	21	1.02	.009	.04	.4	.03	4.3	<.1	.08	3	.5	<10	4	15.0
476625E 6481039N	.3	18.6	1.1	34	<.1	2156.3	113.1	917	2.69	.5	.1	5.6	.4	4	.1	<.1	<.1	25	.09	.015	2	1097.8	17.44	22	.023	16	.56	.005	.02	.1	.03	5.1	<.1	<.05	2	<.5	13	4	15.0
476669E 6481067N	.2	17.5	.9	29	<.1	2070.5	105.8	911	2.35	.5	.1	1.6	.1	2	<.1	<.1	<.1	18	.26	.012	1	885.8	17.25	9	.004	14	.40	.004	.01	.1	.04	3.3	<.1	<.05	1	<.5	13	5	7.5
476772E 6480978N	.6	32.9	3.6	58	<.1	1016.7	54.1	727	4.25	3.2	.7	1.2	1.0	11	.1	.2	.1	46	.32	.052	6	851.3	9.37	78	.077	9	1.29	.010	.04	.1	.02	5.1	<.1	<.05	4	<.5	<10	5	15.0
476773E 6480925N	.9	26.9	5.7	81	<.1	851.2	53.3	942	4.72	3.3	.7	1.1	1.0	13	.2	.2	.1	53	.29	.089	7	923.8	7.48	112	.093	7	1.58	.011	.05	.2	.03	5.0	.1	.09	7	.5	<10	5	15.0
476790E 6481025N	.7	24.5	3.8	61	<.1	1745.3	90.6	1039	3.98	1.9	.4	3.5	1.5	13	.1	.2	.1	35	.25	.039	12	769.6	10.57	94	.093	8	1.28	.013	.04	.3	.02	4.4	.1	<.05	4	.6	<10	3	15.0
STANDARD DS5	12.4	145.9	24.1	140	.3	23.0	11.8	738	3.02	17.9	6.1	40.3	2.9	44	5.7	3.6	5.8	60	.73	.092	11	192.8	.67	136	.097	16	1.97	.032	.13	4.6	.18	3.3	1.1	<.05	6	4.7	185	49	15.0

Sample type: SOIL 5SB0 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data A FA

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Pd	Pt	Sample
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppb	gm
476792E 6480858N	.4	35.0	2.0	112	<.1	330.4	34.7	609	6.94	1.2	.2	1.3	.8	15	.1	.1	<.1	130	1.08	.027	4	98.7	2.36	96	.301	2	3.23	.066	.69	.1	<.01	6.6	.2	<.05	10	<.5	<10	<2	15.0
476794E 6481086N	.2	19.5	1.3	41	<.1	2036.2	114.7	1029	3.39	1.0	.2	1.3	.3	3	.1	<.1	<.1	29	.30	.014	2	1135.1	16.62	21	.014	11	.62	.004	.01	.1	.06	5.2	<.1	<.05	2	<.5	10	4	15.0
476918E 6480815N	.9	19.4	5.6	97	<.1	981.7	111.0	1644	5.31	1.9	.5	2.6	1.0	16	.2	.2	.1	58	.31	.086	9	1067.3	9.07	115	.107	12	1.61	.013	.04	.6	.03	6.9	<.1	.06	7	<.5	<10	4	15.0
476853E 6480776N	1.0	18.0	5.5	63	.1	733.0	79.1	984	4.46	3.2	.7	1.3	1.0	24	.2	.3	.1	49	.44	.052	5	804.8	7.32	95	.111	12	1.49	.015	.05	.3	.06	4.5	<.1	<.05	6	<.5	<10	2	15.0
476922E 6480706N	.6	19.1	3.5	56	<.1	934.5	40.8	634	3.71	2.0	.9	1.3	.6	17	.1	.3	.1	47	.35	.081	8	729.1	7.33	128	.083	11	1.30	.013	.03	.3	.02	4.7	<.1	.08	5	<.5	<10	2	15.0
476943E 6480659N	.5	18.4	2.2	44	<.1	1073.5	61.1	589	4.57	2.0	1.3	1.4	.5	8	.1	.2	<.1	47	.29	.038	3	1204.6	11.56	43	.048	15	1.01	.006	.02	.1	.01	5.5	<.1	<.05	3	<.5	<10	3	15.0
476981E 6480625N	.3	22.2	2.0	41	<.1	1507.9	58.8	511	3.57	1.3	.4	3.1	.8	8	.1	.1	<.1	35	.29	.028	4	882.2	12.74	48	.045	17	.85	.007	.02	.2	.01	5.5	<.1	<.05	3	<.5	<10	4	15.0
477013E 6480587N	.3	20.5	1.8	41	<.1	1525.3	58.4	519	3.83	1.2	.6	6.9	.9	7	.1	.1	<.1	36	.27	.019	6	900.7	12.77	48	.054	15	.87	.008	.02	.4	.01	5.5	<.1	<.05	3	<.5	<10	4	15.0
477042E 6480547N	.3	22.0	2.6	55	.1	1439.3	47.7	456	3.54	1.3	.5	1.2	.9	12	.1	.1	.1	36	.31	.033	7	955.8	11.03	69	.066	13	1.07	.012	.03	.2	.01	5.2	<.1	<.05	4	.5	<10	3	15.0
477074E 6480509N	.2	22.9	2.3	44	<.1	1245.9	46.6	415	3.22	1.4	.4	4.5	.9	12	.1	.1	<.1	37	.34	.036	5	848.6	10.56	66	.060	15	1.00	.010	.03	.2	.02	4.9	<.1	<.05	3	<.5	<10	2	15.0
477105E-1 6480468N	.3	22.6	2.3	49	.1	1461.5	43.1	363	3.13	1.3	.4	3.5	.6	10	.1	.1	<.1	32	.29	.032	6	1002.2	11.74	57	.051	18	1.01	.009	.03	.3	.02	5.3	<.1	<.05	3	.6	<10	2	15.0
477105E-2 6480468N	.3	21.5	2.2	47	.1	1418.2	41.3	360	3.12	1.2	.5	3.0	.7	9	.1	.1	<.1	31	.27	.030	6	991.5	11.74	52	.041	18	.96	.008	.03	.2	.02	5.3	<.1	<.05	3	6	<10	3	7.5
477135E 6480426N	.3	22.8	2.5	50	.1	1292.3	44.6	368	3.38	1.5	.4	3.7	.8	10	.1	.1	<.1	34	.31	.034	5	918.9	11.15	59	.055	14	1.00	.009	.03	.3	.02	5.5	<.1	<.05	3	5	<10	3	15.0
RE 477135E 6480426N	.3	22.6	2.5	50	.1	1284.2	44.8	367	3.26	1.4	.4	3.1	.8	11	.1	.1	<.1	36	.33	.035	5	913.0	11.53	61	.062	17	1.05	.010	.04	.3	.02	5.5	<.1	<.05	3	.6	<10	2	15.0
477169E 6480388N	.3	23.3	2.5	51	.1	1255.0	42.3	394	3.47	1.6	.4	1.9	.7	12	.1	.1	<.1	40	.35	.038	5	871.4	10.26	71	.061	15	1.12	.011	.04	.3	.02	5.6	<.1	<.05	3	6	<10	3	15.0
477201E 6480344N	.3	20.9	2.4	47	<.1	1178.0	43.4	476	3.75	1.7	.6	1.7	.8	11	.1	.1	<.1	40	.29	.033	6	914.3	10.47	72	.063	14	1.04	.010	.03	.3	.02	5.2	<.1	<.05	3	<.5	<10	3	15.0
477229E 6480301N	.4	20.8	2.3	49	.1	1263.7	39.7	392	3.64	1.6	.6	2.6	.8	11	.1	.2	<.1	39	.30	.034	6	1049.3	10.94	70	.063	14	1.07	.009	.03	.2	.02	5.5	<.1	<.05	4	<.5	<10	3	15.0
477257E 6480260N	.5	20.0	2.9	48	<.1	1006.5	62.8	666	4.03	2.5	.6	1.5	.9	11	.1	.2	.1	45	.27	.034	5	929.4	9.12	75	.064	11	1.11	.009	.03	.2	.01	5.3	<.1	<.05	3	<.5	<10	4	15.0
477288E 6480219N	.7	17.5	3.4	56	.1	797.8	36.7	590	4.34	2.3	.7	.8	.3	13	.1	.3	.1	56	.41	.145	6	1243.1	8.24	73	.056	12	1.24	.008	.04	.4	.02	5.2	<.1	.11	5	<.5	<10	3	15.0
477320E 6480181N	.6	16.7	4.3	73	<.1	784.5	44.7	762	3.95	2.4	.5	1.2	.9	14	.1	.3	.1	47	.34	.068	8	711.4	7.13	84	.089	12	1.31	.012	.05	.3	.03	4.5	<.1	.06	6	<.5	<10	3	15.0
477359E 6480147N	.5	17.0	3.1	53	<.1	981.7	62.4	683	3.74	2.1	.5	1.2	1.0	10	.1	.2	.1	43	.27	.041	6	877.0	9.49	63	.074	15	1.14	.010	.03	.4	.02	4.8	<.1	<.05	4	<.5	<10	3	15.0
477395E 6480109N	.9	14.7	4.9	65	.1	524.3	37.1	551	3.60	1.8	.4	2.5	.5	14	.2	.2	.1	54	.34	.083	6	715.1	6.49	75	.114	12	1.20	.011	.04	.3	.03	3.9	<.1	.07	7	<.5	<10	3	15.0
477440E 6480081N	.7	13.8	3.4	57	.1	538.0	56.2	537	3.08	1.3	.5	2.8	.2	10	.2	.2	.1	38	.24	.093	3	724.2	6.28	66	.036	11	.85	.008	.04	.3	.03	3.3	<.1	.07	4	<.5	<10	4	7.5
477482E 6480052N	.5	15.5	3.4	49	<.1	659.4	31.1	384	3.19	1.7	.4	1.2	.5	14	.1	.2	.1	42	.23	.074	5	616.3	6.67	92	.057	9	1.27	.011	.04	.2	.03	4.0	<.1	<.05	4	<.5	<10	2	15.0
477522E 6480021N	.4	18.4	2.7	45	<.1	1089.0	58.0	571	4.02	1.7	.4	2.3	.8	8	.1	.4	.1	40	.22	.028	4	1079.5	11.24	53	.067	22	1.09	.008	.02	.2	.02	4.5	<.1	<.05	4	<.5	<10	3	15.0
477561E 6480987N	.4	26.5	2.8	54	.1	1062.8	38.2	473	3.53	1.9	.4	3.2	.5	13	.1	.2	.1	41	.33	.085	7	969.0	9.25	91	.040	13	1.13	.011	.03	.2	.02	5.1	<.1	.06	4	<.5	<10	4	15.0
STANDARD DS5	12.7	145.8	24.3	136	.3	24.4	12.4	744	3.02	17.7	6.1	42.0	3.0	46	5.6	3.8	5.9	63	.77	.093	13	177.8	.67	135	.100	18	2.04	.035	.14	4.8	.17	3.5	1.1	<.05	7	4.8	174	43	15.0

Sample type: SOIL SS80 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

3/16

Data ✓ FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Hard Creek Nickel Corporation PROJECT SRP-S1 File # A405242 Page 11
1060 - 1090 W. Georgia St, Vancouver BC V6E 3V7

SAMPLE#	Cu* %	Ni* %	Co* %
479107E 6481937N	.003	.001	<.001
479309E 6482267N N.S.	-	-	-
479383E 6482511N	.002	.036	.009
479557E-1 6482706N	.003	.003	.002
478400E 6483753N	.003	.025	.005
478599E 6483908N	.002	.018	.002
478845E 6483926N	.002	.027	.002
479077E 6483849N	.001	.009	.002
479236E 6483129N	<.001	.007	.002
479288E 6483134N	.001	.011	.002
479344E 6483625N	<.001	.010	.001
479400E 6483500N	<.001	.007	.002
479552E 6482996N	.001	.020	.003
479623E 6482914N	.001	.009	.002
477320E 6485915N	.002	.040	.002
477566E 6485836N	.001	.018	.003
477751E 6485757N	.001	.012	.001
477885E 6484324N	.001	.030	.002
477932E 6485576N	<.001	.016	.001
RE 477932E 6485576N	<.001	.015	.001
477995E 6485490N	<.001	.008	.001
478059E 6485410N	<.001	.015	.002
478132E 6485333N	<.001	.010	<.001
478179E 6483877N	<.001	.027	.005
478193E 6483829N	<.001	.012	.001
478210E 6485147N	<.001	.005	.001
478221E 6484021N	<.001	.012	.006
478234E 6483679N	.003	.011	.001
475578E 6485539N	.002	.018	.005
475597E 6485643N	<.001	.019	.003
475626E 6485286N	.002	.046	.008
475643E 6485744N	<.001	.013	.001
475653E 6486061N	<.001	.031	.004
475725E 6486100N(PULP)	.010	.001	<.001
475971E 6486269N	<.001	.032	.002
STANDARD R-2a	.540	.323	.039

REVISED COPY

J.S = Not enough sample for analysis

CU* NI* & CO* - LEACHED WITH H2O2 + NH4 CITRATE.
- SAMPLE TYPE: P1 TO P10 SOIL
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data___ FA ____ DATE RECEIVED: SEP 3 2004 DATE REPORT MAILED: Oct 8/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

SAMPLE#	Cu* %	Ni* %	Co* %
476182E 6486194N	.004	.024	.005
476361E 6486040N	.004	.040	.005
476559E 6486003-2N	.003	.035	.006
476730E 6486095N	.003	.033	.003
476983E 6486041N	.002	.014	.002
477172E 6485886N	.001	.010	.001
475568E 6484731N	.001	.011	.002
475724E 6484054N	.001	.009	.002
475755E 6483955N	<.001	.012	.003
475802E 6484304N	<.001	.034	.002
475854E 6484455N	<.001	.021	.001
476004E 6483633N	<.001	.018	.001
476066E 6483397N	<.001	.010	.002
476131E 6483030N	<.001	.006	.001
475756E 6482342N	<.001	.012	.001
RE 475756E 6482342N	<.001	.011	.001
475784E 6482441N	<.001	.012	.001
475821E 6482736N	<.001	.017	.001
475903E 6482799N	<.001	.017	.001
475969E 6481873N	<.001	.011	.002
476038E 6481736N	<.001	.023	.004
476133E 6481599N	<.001	.025	.003
476220E 6481476N	<.001	.010	.003
476375E 6481337N	<.001	.040	.004
476508E 6481125N	<.001	.051	.008
476772E 6480978N	<.001	.018	.002
476818E 6480815N	<.001	.024	.007
477013E 6480587N	<.001	.012	.001
477135E 6480426N	<.001	.012	.001
477288E 6480219N	<.001	.022	<.001
477482E 6480052N	<.001	.010	.001
STANDARD R-2a	.532	.319	.039

Sample type: SOIL PULP. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

Data___ FA ___

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

ASSAY CERTIFICATE

Hard Creek Nickel Corporation PROJECT SRP-S1 File # A405243 Page 2
1060 - 1090 W. Georgia St, Vancouver BC V6E 3V7

SAMPLE#	Cu* %	Ni* %	Co* %
476805E 6481075N	<.001	.032	.004
STANDARD R-2a	.534	.320	.039

CU* NI* & CO* - LEACHED WITH H2O2 + NH4 CITRATE.
- SAMPLE TYPE: P1 SILT P2 SILT

Data ✓ FA ____ DATE RECEIVED: SEP 3 2004 DATE REPORT MAILED: Sept 25/04

BRITISH COLUMBIA CERTIFIED ASSAYER
Clarence Leong

Appendix B

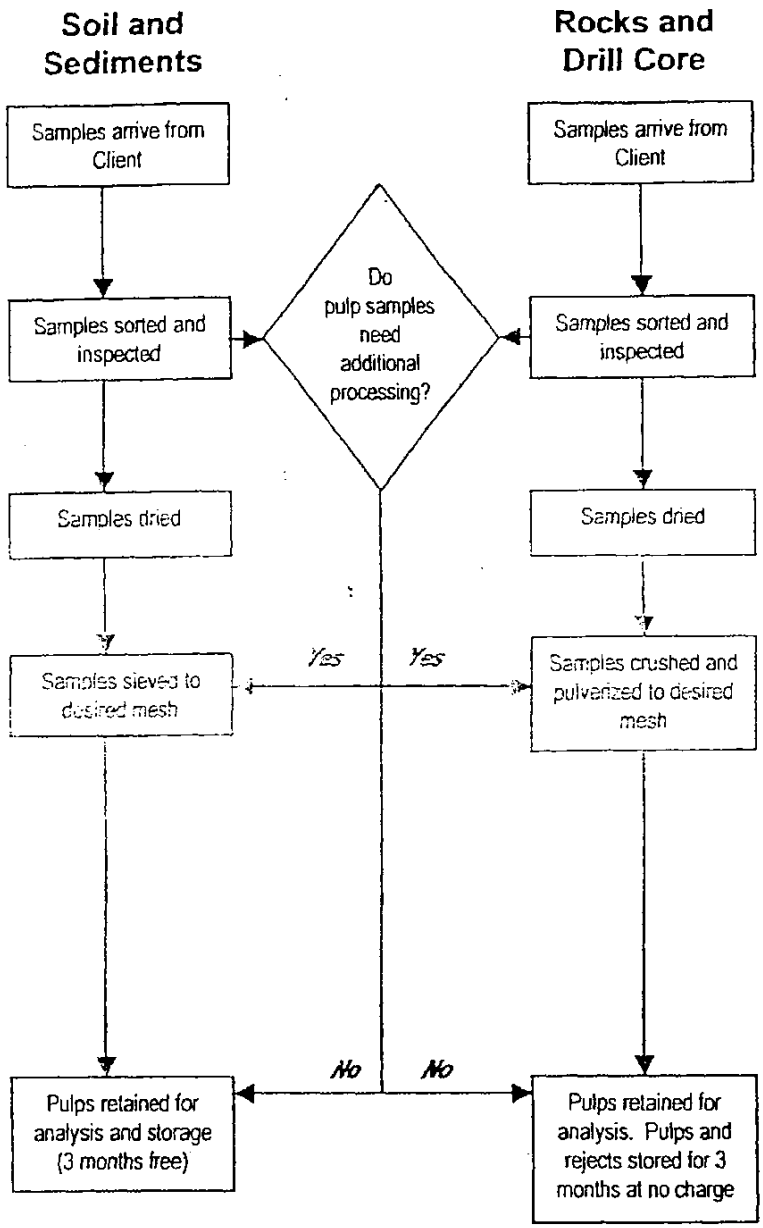
Analytical Methods and Procedures

Samples were analysed by Acme Laboratories Ltd., Vancouver British Columbia. Soil and silt samples were hung to dry for several days before shipping. At Acme, the samples were dried at 60°C and sieved to -80 mesh. Acme performed analytical package 1DX on 15 g sample splits. These splits were leached in hot aqua regia and analysed by ICP-MS, including Pt and Pd. Details of the methods and procedures may be found in this appendix.

ACME
ANALYTICAL LABORATORIES LTD.

852 East Hastings Street • Vancouver, British Columbia • CANADA • V6A 1R6
phone: (604) 253-3158 • Fax: (604) 253-1716 • Toll free: 1-800-990-ACME (2263) • e-mail: info@acmelab.com

General Sample Preparation Methods



Comments

Receiving: Samples arrive via courier, post or by client drop-off; shipment inspected for completeness.

Sorting and Inspection: Samples sorted and inspected for quality of use (quantity and condition). Rock and Drill Core samples inspected for mineralisation (colour and % sulphides, metal oxides or carbonates). Pulp samples inspected for homogeneity and fineness. Coarse pulps are screened or pulverized after getting client's approval.

Drying: Wet or damp samples are dried at 60°C (40°C if specified by the client).

Sieving: Soil and sediment sieved to -80 mesh ASTM (-177 microns) unless client specifies otherwise. Sieve cleaned by brush and compressed air between samples. Reference material G-1 (pulp made of granite blank) is carried as first sample in sequence (sieve:weigh:digest:analyse) to monitor background noise.

Crushing and Pulverizing: Rock and Drill Core crushed to 70% passing 10 mesh (2 mm), homogenized, riffle split (250 g subsample) and pulverized to 95% passing 150 mesh (100 microns). Crusher and pulverizer cleaned by brush and compressed air between routine samples. Silica wash scours equipment after high-grade samples, between changes in rock colour and at end of each file. Silica is crushed and pulverized as first sample in sequence and carried through to analysis to monitor background noise.

Compositing: Equal weights of crushed, pulverized or sieved material from 2 or more samples are combined and pulverized for 60+ seconds to produce a homogeneous mixture.

Storage: Pulp samples (up to 100g for soils or sediments and up to 250 g for rock and drill core) are archived for 3 months at no cost. Soil and sediment rejects are discarded immediately. Rock and drill core rejects are stored for 3 months at no charge. Client may request additional storage, return or disposal of pulps and rejects after initial free-storage period.

ACME
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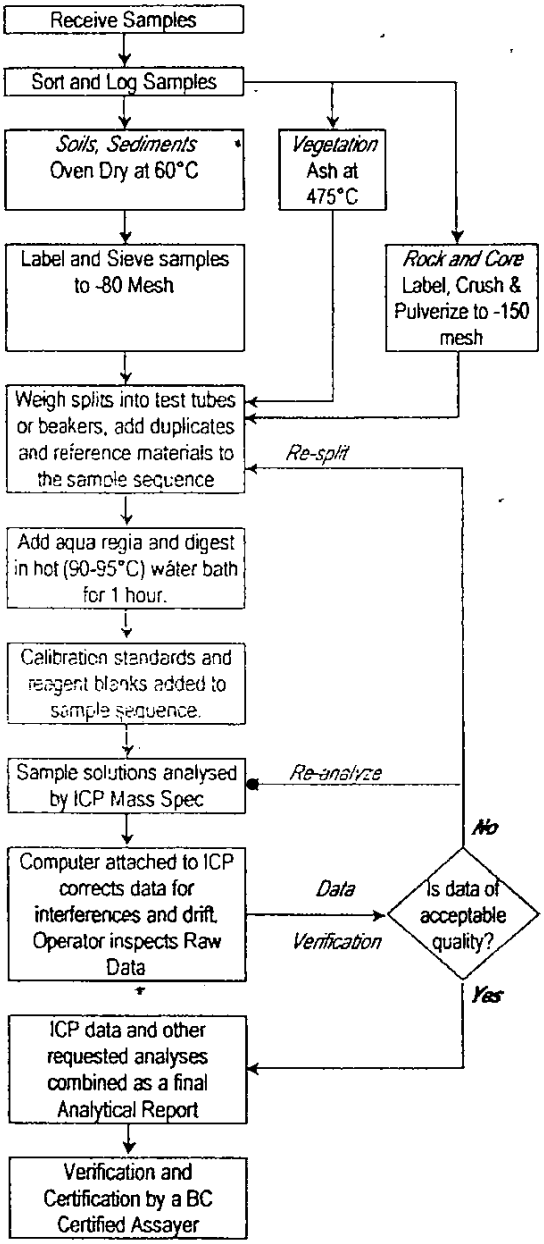
ISO 9002 ACME VANCOUVER 1996

852 East Hastings Street • Vancouver, British Columbia • CANADA • V6A 1R6
Telephone: (604) 253-3158 • Fax: (604) 253-1716 • Toll free: 1-800-990-ACME (2263) • e-mail: info@acmelab.com

METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE GROUP 1F-MS – ULTRATRACE BY ICP-MS • AQUA REGIA

Analytical Process



Comments

Sample Collection

Samples may consist of soil, sediment, plant or rock. A minimum field sample weight of 200 gm is recommended.

Sample Preparation

Soil and sediment are dried (60°C) and sieved to -80 mesh (-177 µm). Vegetation is dried (60°C) and pulverized or ashed (475°C). Moss-mats are dried (60°C), pounded and sieved to yield -80 mesh sediment. Rock and drill core is jaw crushed to 70% passing 10 mesh (2 mm), a 250 g aliquot is riffle split and pulverized to 95% passing 150 mesh (100 µm) in a mild-steel ring-and-puck mill. Depending on the option package, aliquots of 1 to 30 g are weighed. QA/QC protocol includes inserting a pulp duplicate to measure analytical precision, a coarse (10 mesh) rejects duplicate to measure method precision (trench and drill core samples only) and an aliquot of in-house reference material STD DS3 to measure accuracy in each analytical batch of 34 samples.

Sample Digestion

A 6 mL/g aliquot of Aqua Regia (2:2:2 ACS grade HCl, ACS grade HNO_3, demineralised H_2O) is added to each sample. Samples are digested for one hour in a hot water bath (90-95°C) then diluted (20:1 mL/g final ratio). QA/QC protocol requires simultaneous digestion of two regent blanks randomly inserted in each batch.

Sample Analysis

Analysis is by an Elan 6000 ICP Mass Spec for the determination of 37 elements comprising: Au, Ag, Al, As, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, Hg, Ga, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, S, Sb, Sc, Se, Sr, Te, Th, Ti, Tl, U, V, W and Zn. Extended element packages containing incompatible elements (Hf, Nb, etc.), REEs and PGEs are available. Larger samples (15 to 30 g) are recommended for precise analysis of elements subject to the nugget effect (eg. Au).

Data Evaluation

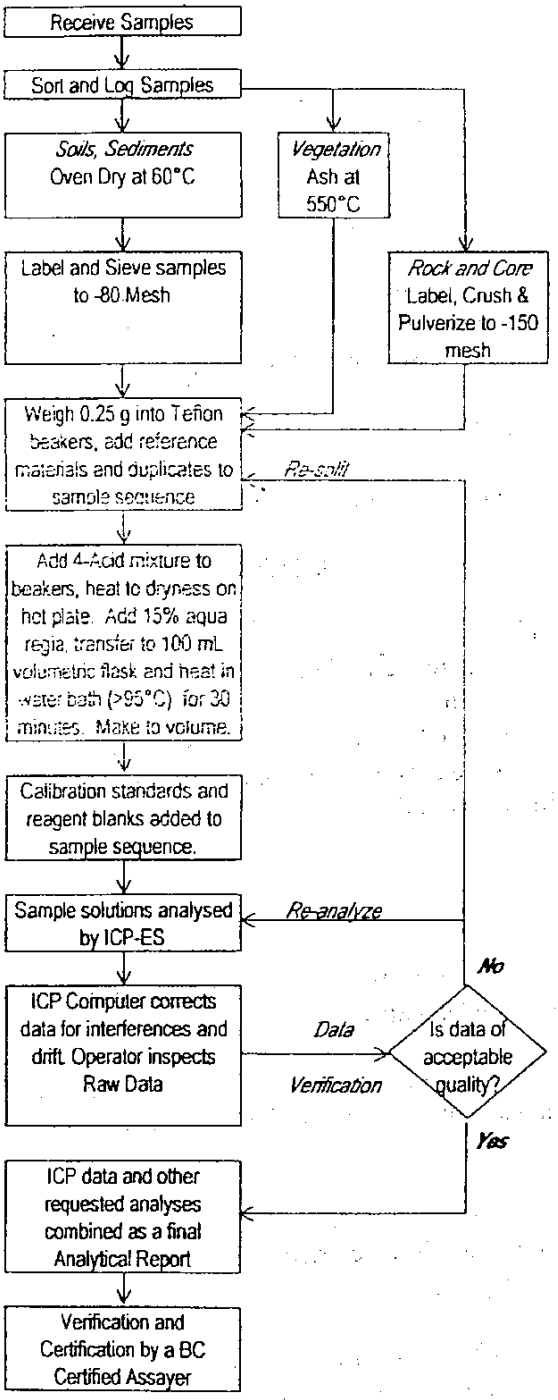
Raw data are reviewed by the instrument operator and by the laboratory information management system. The data is subsequently reviewed and adjusted by the Data Verification Technician. Finally all documents and data undergo a final verification by a British Columbia Certified Assayer who then signs the Analytical Report before it is released to the client. Chief Assayer is Clarence Leong, other certified assayers are Dean Toye and Jacky Wang.

ACME
ANALYTICAL LABORATORIES LTD.

852 East Hastings Street • Vancouver, British Columbia • CANADA • V6A 1R6
Telephone: (604) 253-3158 • Fax: (604) 253-1716 • Toll free: 1-800-990-ACME (2263) • e-mail: info@acmelab.com

METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE GROUP 7TD – MULTI-ELEMENT ASSAY BY ICP-ES • TOTAL DIGESTION

Analytical Process



Comments

Sample Preparation

Assaying is warranted for representative well-mineralized samples (eg. Cu > 1%). Samples are dried at 60°C. Soil, sediment and moss mats (after pounding) are sieved to -80 mesh (-177 µm). Vegetation is dried (60°C) and pulverized or ashed (475°C). Rock and drill core is jaw crushed to 70% passing 10 mesh (2 mm), a 250 g aliquot is riffle split and pulverized to 95% passing 150 mesh (100 µm) in a mild-steel ring-and-puck mill. Aliquots of 0.250 ± 0.002 g are weighed into Teflon beakers. Acme's QA/QC protocol requires two pulp duplicates to monitor analytical precision and an aliquot of in-house reference material STD R-1 to monitor accuracy in each batch of 34 samples. Trench and drill core programs will also include a pulp made from a 2nd crushed fraction split (rejects duplicate) to measure method precision.

Sample Digestion

A 18:10:3:6 mixture of H_2O-HF-$HClO_4$-HNO_3 (ACS grade) is added, the sample is heated to fuming on a hot plate and taken to dryness. The residue is taken up in dilute (15%) aqua regia (HCl:HNO_3:H_2O), transferred to a 100 mL volumetric flask and heated for 30 minutes in a boiling water (>95°C) bath. After cooling for 3 hrs, solutions are made up to volume (100 mL) with dilute (5%) HCl. Very high-grade samples may require a 1 g to 250 mL or 0.25 g to 250 mL sample/solution ratio for accurate determination. Acme's QA/QC protocol requires simultaneous digestion of two regent blanks inserted in each batch.

Sample Analysis

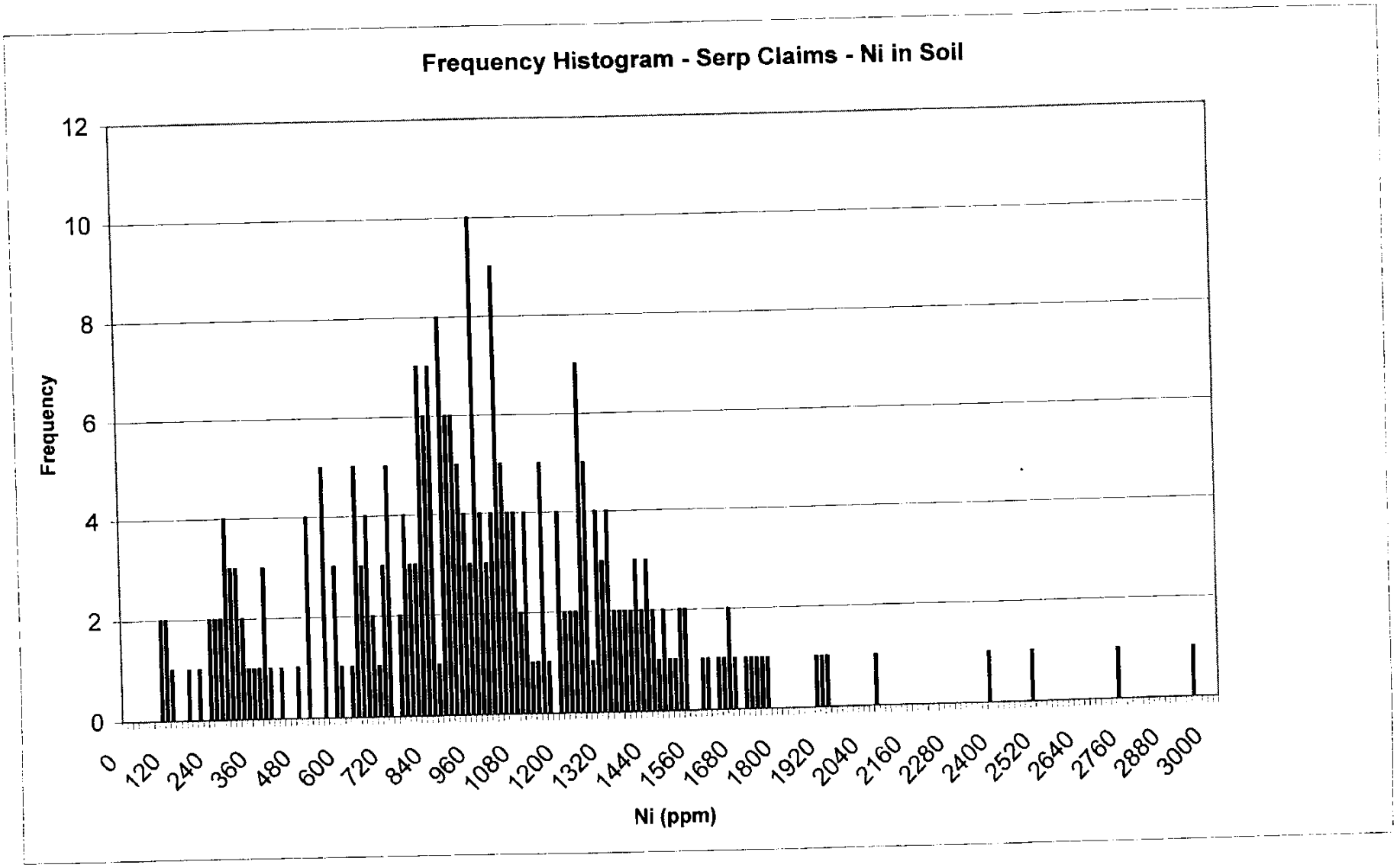
Sample solutions are aspirated into a Jarrel Ash Atomcomp model 800 or 975 ICP emission spectrograph to determine 21 elements: Ag, Al, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, W, Zn.

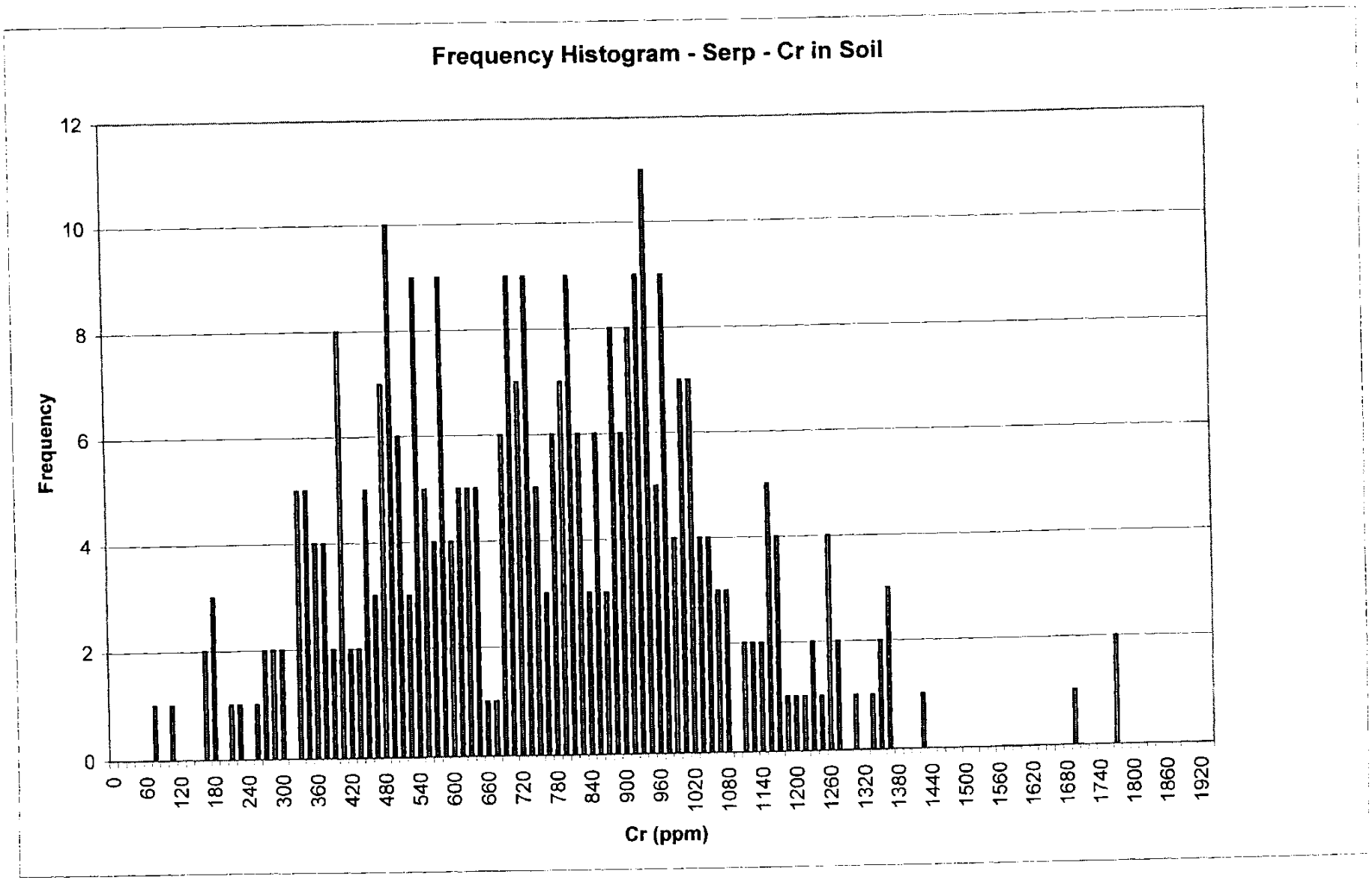
Data Evaluation

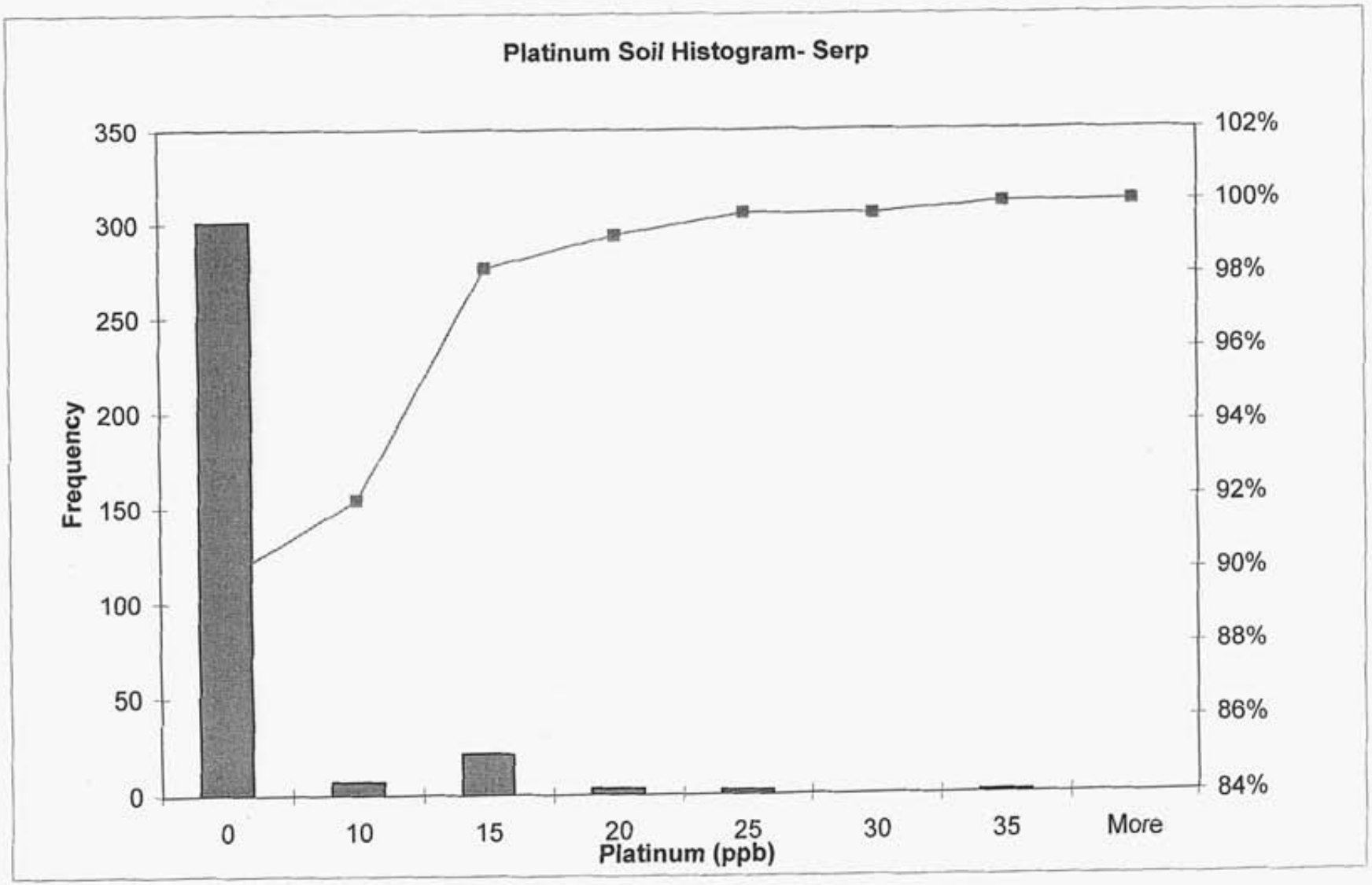
Raw and final data from the ICP-ES undergoes a final verification by a British Columbia Certified Assayer who then signs the Analytical Report before it is released to the client. Chief Assayer is Clarence Leong, other certified assayers are Dean Toye and Jacky Wang.

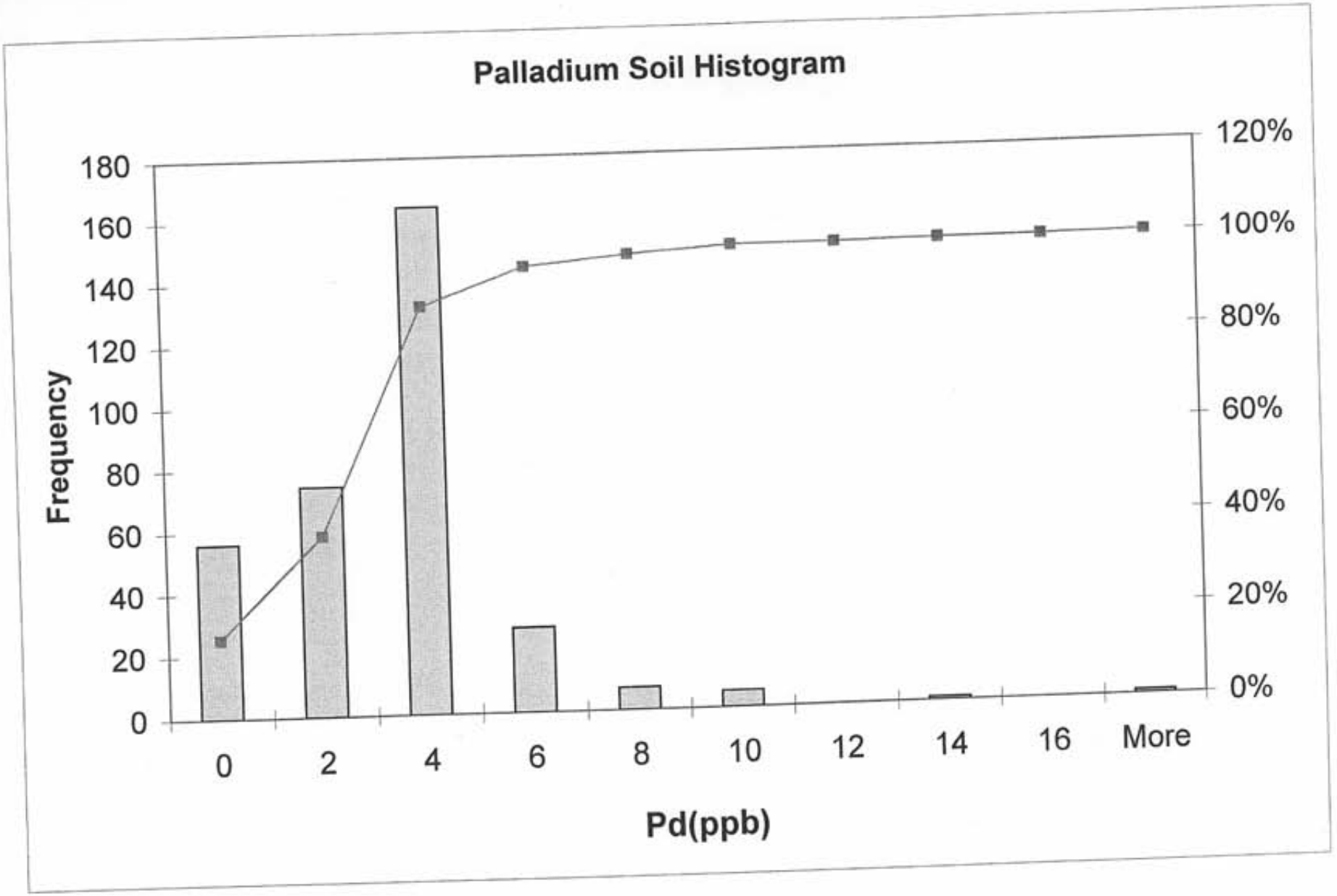
Appendix C

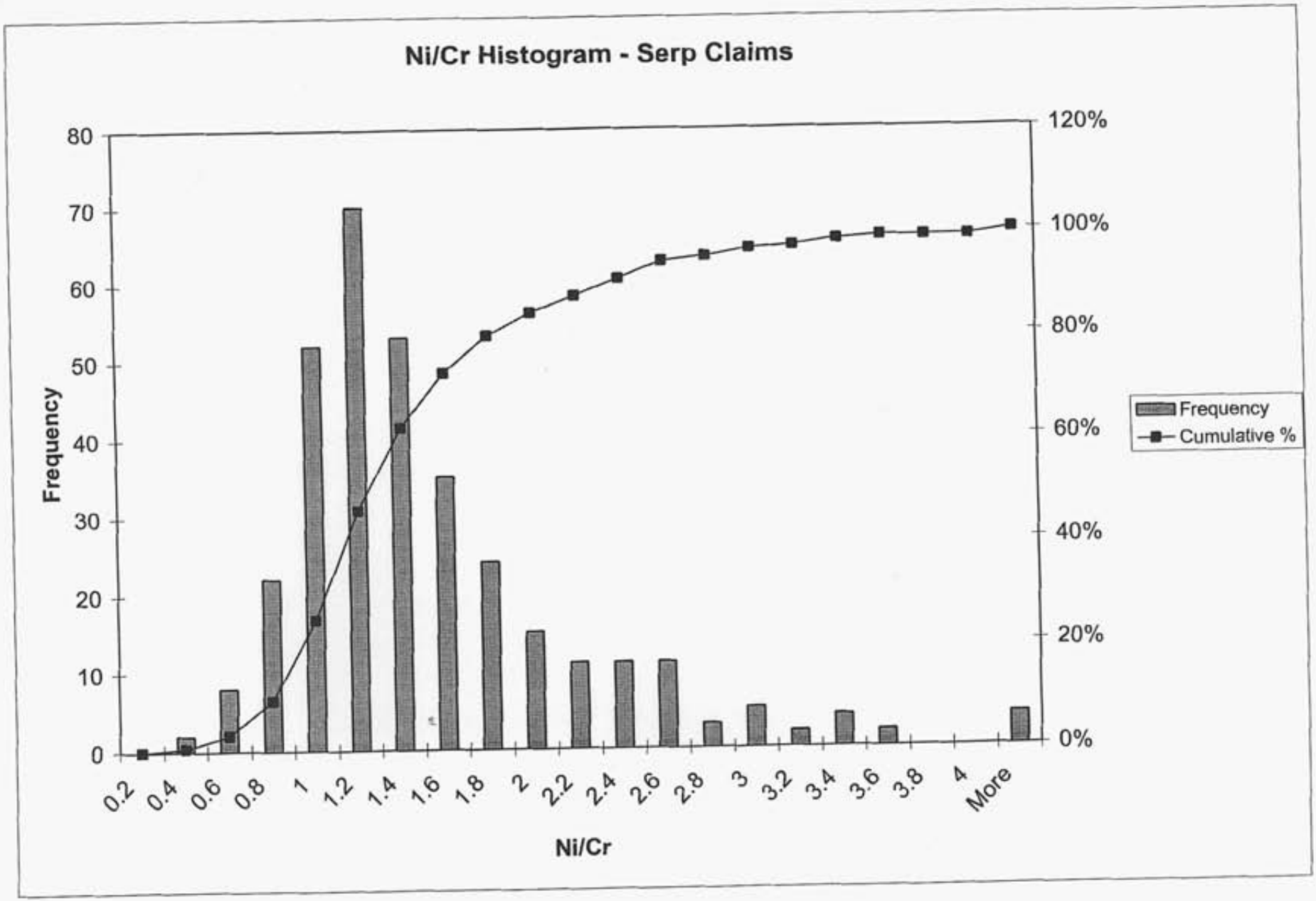
Frequency Histograms


Frequency Histogram - Serp Claims - Ni in Soil
Frequency
0
2
4
6
8
10
12
0
120
240
360
480
600
720
840
960
1080
1200
1320
1440
1560
1680
1800
1920
2040
2160
2280
2400
2520
2640
2760
2880
3000
Ni (ppm)


Frequency Histogram - Serp - Cr in Soil
Frequency
0
2
4
6
8
10
12
0
60
120
180
240
300
360
420
480
540
600
660
720
780
840
900
960
1020
1080
1140
1200
1260
1320
1380
1440
1500
1560
1620
1680
1740
1800
1860
1920
Cr (ppm)


Platinum Soil Histogram- Serp
Frequency
350
300
250
200
150
100
50
0
102%
100%
98%
96%
94%
92%
90%
88%
86%
84%
0
10
15
20
25
30
35
More
Platinum (ppb)


Palladium Soil Histogram
Frequency
180
160
140
120
100
80
60
40
20
0
120%
100%
80%
60%
40%
20%
0%
0
2
4
6
8
10
12
14
16
More
Pd(ppb)


Ni/Cr Histogram - Serp Claims
Frequency
Ni/Cr
Frequency
Cumulative %
0
10
20
30
40
50
60
70
80
0%
20%
40%
60%
80%
100%
120%
0.2
0.4
0.6
0.8
1
1.2
1.4
1.6
1.8
2
2.2
2.4
2.6
2.8
3
3.2
3.4
3.6
3.8
4
More

Appendix D

Sample Descriptions

Rock Sample Descriptions

Sample	Type	Easting	Northing	Location	Description
83916	Float Composite	478620	6481719	NE Serp 10	beige, grey & black serpentinized pyroxenite? Quartzite? Up to 20% semi-massive pyrite. Duplicate taken.
83917	Float Composite	478620	6481719	NE Serp 10	White, quartz with minor epidote veins, heavy malachite and azurite coating, common interstitial pyrite & chalcopyrite with darker metalic rim (chalcocite?) around xls. Up to 10 % sulfides
178109	outcrop	478477	6481472	NE Serp claim 10	Green - turquoise malachite coated, quartz and serpentine with common mm scale veins & semi-massive chalcocite (7-9%) & minor chalcopyrite (<1%).
178111	outcrop	478617	6481648	NE Serp claim 10	white, light grey & black xln altered quartz diorite with minor - medium malachite coating. Minor chalcopyrite and chalcocite (2-3%).
178112	outcrop	478627	6481658	NE Serp claim 10	grey - green xln serpentinized gabbro? 10% net textured & semi massive pyrrotite.
178202	float	475749	6484705	Serp 4	Grab. Fractured sheared black serpentinite with limonite
178203	float	475914	6484726	Serp 4	Grab. Fractured green serpentinite with limonite
178204	float	475696	6484733	Serp 4	Grab. Fractured black serpentinite with rusty staining, other unidentified coatings
178205	float	475588	6484812	Serp 4	Grab. Black serpentinite, iron stained surface. Traces of pyrrhotite, unevenly disseminated clots and blebs

HARD CREEK NICKEL CORPORATION
TURNAGAIN PROJECT
SOIL SAMPLES

SERP

Date: Aug 19 / 2009 Sampled by: J. Kirba Sampling Line: 1600m contour

Sample No.	Easting GPS	Northing GPS	Elevation	Depth	Colour-Description	Horizon	Comments: slope: steep, mod, flat, outcrop/rock sampling
	479107	6481937	1626	0	red Fe-ox	A	steep outcrop
	479089	6481958	1605	0	beige	A	steep talus
	479088	6482007	1601	0	grey-brown	A	"
	479084	6482059	1612	0	beige	A	"
	479101	6482104	1600	0	"	A	"
	479135	6482155	1601	0	"	A	"
	479171	6482193	1600	0	"	A	"
	479215	6482216	1600	0	"	A	"
	479267	6482237	1600	0	"	A	"
10	479304	6482267	1603	0	grey-beige	A	"
	479330	6482315	1600	0	"	A	"
	479349	6482354	1605	0	"	A	"
	479363	6482404	1608	0	"	A	steep talus, mod vegetation
	479353	6482464	1609	0	"	A	"
	479393	6482511	1609	0	grey-green	A	steep, scattered outcrop
	479429	6482514	1600	0	"	A	"
	479454	6482588	1600	0	"	A	steep talus
	479491	6482630	1600	0	beige-grey	A	steep, mod, talus
	479515	6482673	1605	0	beige	A-B	steep- mod
20	479557	6482706	1603	0	"	A	steep
Dup	479557	6482706		0	"	A	steep
	479462	6482377	1495	SILT	grey	SILT	flat, creek

SERP B

HARD CREEK NICKEL CORPORATION
TURNAGAIN PROJECT
SOIL SAMPLES

Date: Aug 20 /22-24 Sampled by: J. Klassen Sampling Line: 1600m contour

Sample No.	Easting GPS	Northing GPS	Elevation	Depth	Colour-Description	Horizon	Comments: slope: steep, mod, flat, outcrop/rock sampling
	478308	6483645	1600	20cm	Brown, Rocky	C	flat
	478335	6483673	1600	15cm	Brown, little rocks	C	Slope
	478380	6483704	1600	15cm	~~Brown~~ Reddish brown,	B	Slope
	478400	6483753	1600	10cm	Brown Rocky	C	slope
	478438	6483791	1600	10cm	Brown, rocky	C	Slope
	478486	6483805	160	10cm	Brown, rocky	C	slope
	478526	6483838	1600	5cm	Brown, little rocks	C	Slope
	478556	6483880	1600	10cm	Brown, little rocks	C	Slope
	478599	6483908	1600	10cm	Brown, rocky	C	slope
	478647	6483927	1600	10cm	Light brown, rocky	C	slope
	478697	6483941	1600	10cm	Grayish brown, little rocks	C	slope
	478747	6483954	1600	20cm	Brown, little rocks	C	Slope
	478797	6483943	1600	10cm	Brown, Sandy	C	slope
	478845	6483926	1600	10cm	Brown, rocky	C	slope
	478895	6483925	1600	15cm	Brown, rocky	C	slope
	478943	6483910	1600	10cm	Brown, little rocks	C	Slope
	478987	6483878	1600	10cm	Brown, little rocks	C	steep
	~~478986~~	~~6484029~~	~~1600~~				
	479029	6483860	1600	5cm	Brown, little rocks	C	Slope
	479077	6483849	1600	5cm	Light brown, rocky	C	Slope
	479124	6483833	1600	20cm	Brown, rocky	C	Slope
	479161	6483796	1600	10cm	Brown little rocks	C	Slope

CANADIAN METALS EXPLORATION LTD. 2

TURNAGAIN PROJECT

SOIL SAMPLES

Date: Sampled by: J. Klassen Sampling Line: 1600m contour

Sample No.	Easting GPS	Northing GPS	Grid Coord.	Elevation	Depth	Colour-Description	Horizon	Comments: slope: steep, mod. flat, outcrop/rock sampling
	475793	6483920		1600	10cm	light brown	C	Slope
	475755	6483955			5cm	Brown, rocky	C	Slope
	475736	6484004			5cm	Reddish brown	B	Slope
	475724	6484054			10cm	Reddish brown	B	Slope
	475733	6484103			5cm	Brown, white	C	Slope
	475742	6484153			10cm	Brown	C	Slope
	475763	6484208			10cm	Brown	C	Slope
	475806	6484254			5cm	Brown, rocky	C	Slope
	475802	6484304			5cm	brown rocky	C	Slope
70	475819	6484352			8cm	brown, rocky	C	Slope
m 3313 area	475854	6484455			10cm	brown, rocky	C	Slope
	475817	6484469			10cm	brown, gravely	C	Slope
	475771	6484511			10cm	brown, rocky	C	Slope
	475746	6484556			5 cm	brown, little rocks	C	Slope
	475702	6484581			10cm	brown, rocky	C	Slope
	475681	6484626			10cm	brown, rocky	C	Slope
	475652	6484668			10cm	brown, little rocks	C	Slope
	475611	6484706			10cm	brown gravely	C	Slope
	475578	6484731			5cm	Brown, rocky	C	Slope
	475528	6484767			5cm	Brown, rocky	C	Slope
41	475488	6484836		1610	10cm	Brown, rocky	C	Slope

HARD CREEK NICKEL CORPORATION
TURNAGAIN PROJECT
SOIL SAMPLES

Date: _____ Sampled by: J. Klassen Sampling Line: 1600 m contour

Sample No.	Easting GPS	Northing GPS	Elevation	Depth	Colour-Description	Horizon	Comments: slope: steep, mod, flat, outcrop/rock sampling
	479516	6483033	1600	5cm	Brown, few rocks	C	slope
	479552	6482996	1600	15cm	Brown rocky	C	slope
	479593	6482955	1600	10cm	Brown, rocky	C	slope
	479623	6482914	1600	10cm	light brown, rocky	C	slope
	479648	6482871	1600	5cm	Brown rocky	C	slope
	479695	6482819	1600	10cm	Brown, rocky	C	slope
	479641	6482768	1600	15cm	light brown, small rocks	C	slope
50	479612	6482727	1600	20cm	Brown shale rock	C	steep
	479612	6482727	1600	7.0cm	↓	C	steep
Standard	479605	6482720	1600	—	Standard RD-80	—	—
			1600				
			1600				
	479723	6483030	1600	10cm	gravel		creek
			1600				
			1600				
			1600				
			1600				
			1600				
			1600				
			1600				
			1600				
			1600				

HARD CREEK NICKEL CORPORATION
TURNAGAIN PROJECT
SOIL SAMPLES

Serp Claim 1600m Elevation Line (C) 1/3

Date: Aug 19, 2004 Sampled by: _____ Sampling Line: 1600m C Line

Sample No.	Easting GPS	Northing GPS	Elevation	Depth	Colour-Description	Horizon	Comments: slope: steep, mod, flat, outcrop/rock sampling
1	478266	6483642	1600	15	red brown, sandy, rocks sa	B	mod, in stream overflow path
2	478234	6483679	1600	5	red brown, clayey + green brown, sandy	B+C	mod-flat, rocks angular
3	478217	6483730	1600	5	green-brown, coarse sand, rocks ang	C	mod
4	478202	6483780	1605	15	red-brown, clayey, rocks sa	B	steep, soil rooted
5	478193	6483829	1599	5	dark red-brown clayey, rocks sa-sr	B	steep, soil rooted
6	478179	6483877	1600	10	red-brown, sandy, rocks sa	B	steep, in seasonal runoff path
7	478198	6483923	1597	10	red-brown, clayey, rocks ang.	B	mod-steep, soil rooted
8	478203	6483976	1602	5	red-brown, clayey, no rocks	B	mod., soil rooted
9	478221	6484021	1600	10	red-brown, clayey, lots of rocks	B	mod, rocks ang., no vegetation
10	478230	6484069	1600	10	beige-white (leached) + brown	leached+C	mod soil clayey, rocks sa
11	478226	6484120	1602	10	red-brown, clayey + green-brown, sandy	B+C	mod-flat, rocks sa
12	478193	6484150	1601	5	red-brown, clayey, no rocks	B	mod
13	478177	6484204	1600	10	red-brown, clayey, no rocks	B	mod-flat
14	478144	6484243	1600	0	red-brown, clayey, no rocks	B	mod
15	478092	6484256	1601	0	green-brown, clayey, rocks sa	C	steep
16	478035	6484255	1598	10	brown, very rocky, rocks ang	C	steep, talus slope
17	477974	6484276	1595	0	brown, very rocky, rocks ang.	C	steep, talus slope, round rocks also present
18	477929	6484294	1601	10	brown, very rocky, rocks sa	C	steep, small rock chips in soil
19	477885	6484324	1607	10	brown, very rocky, rocks sa	C	mod, nil much soil, soil sandy
20	477897	6484371	1599	5	red-brown, clayey, no rocks	B	mod, rooted.
21	477869	6484420	1596	10	red-brown, clayey, few ang. rocks	B	mod, next to creek

509359E
6484394N

HARD CREEK NICKEL CORPORATION
TURNAGAIN PROJECT
SOIL SAMPLES

SERP Claim 1600m Elevation C 2/3

Date: Aug 19, 2004 Sampled by: Thuhn Sampling Line: 1600m Line C

Sample No.	Easting GPS	Northing GPS	Elevation	Depth	Colour-Description	Horizon	Comments: slope: steep, mod, flat, outcrop/rock sampling
22	477904	6484455	1598	5	brown, rocky, rocks ang	B	mod
23	477955	6484481	1598	5	light brown, rocks ang, clayey	C	mod-steep
24	477987	6484507	1596	10	red-brown, clayey, no rocks	B	mod-steep
25	478028	6484547	1600	10	red-brown, clayey, rocks a-sr	B	steep
26	478057	6484587	1599	15	brown, rooted, clayey, rocks ang	C	steep-mod
27	478068	6484630	1600	20	red brown, clayey, no rocks	B	steep
28	478123	6484666	1601	10	brown, clayey, very rocky	C	steep, rocks ang.
29	478164	6484699	1600	10	red-brown, clayey, no rocks in soil	B	steep, rocks above B soil horizon
30	478193	6484747-1	1600	10	red-brown, clayey, few rocks	B	mod-steep -DUPLICATE
31	478193	6484747-2	1600	10	red-brown, clayey, few rocks	B	mod-steep -DUPLICATE
32	478219	6484799	1598	15	green-brown + rock chips, rocks sa	C	mod, soil sandy
33	478229	6484842	1599	10	red-brown, clayey, rocks sa	B	mod-steep
34	478233	6484894	1604	10	red-brown, clayey, rocks sa	B	mod-steep
35	478242	6484943	1600	15	yellow-brown, clayey, few rocks	C?	steep rocks sa
36	478236	6484995	1593	20	green-brown, very rocky, rocks a-sa	C	mod-steep
37	478219	6485042	1600	5	red-brown, clayey, few rocks, rocks sa	B	mod-steep
38	478213	6485096	1600	10	brown, rocks a-sa, clayey	C	mod
39	478210	6485147	1601	15	brown, clayey, rocks sa	C	steep-mod
40	478201	6485197	1599	15	red-brown, clayey, rocks sa	B	steep-mod
41	478190	6485248	1600	0	red-brown, sandy, rocks sa	B	steep, edge of slump feature
42	478164	6485291	1600	15	brown, sandy, rocks a-sa	C	steep

HARD CREEK NICKEL CORPORATION
TURNAGAIN PROJECT
SOIL SAMPLES

Serp Claim 1600m Elevation (C) 3/3

Date: Aug 19, 2004 Sampled by: Tkuhn Sampling Line: 1600m line (C)

Sample No.	Easting GPS	Northing GPS	Elevation	Depth	Colour-Description	Horizon	Comments: slope: steep, mod, flat, outcrop/rock sampling
43	478132	6485333	1600	15	red-brown, clayey, lots of small rocks	B	steep, rocks sa
44	478097	6485372	1601	15	green-brown, clayey, very rocky	C	steep, rocks ang.
45	478059	6485410	1603	25	red-brown, clayey, very rocky	B	steep, rocks sa-sr
46	478030	6485452	1601	0	brown, rock chips, rocks sa-a	C	steep, talus slope
47	477995	6485490	1600	0	red-brown, clayey, no rocks	B	steep, talus slope
48	477961	6485533	1606	15	brown, clayey, rocks sa	C	steep
49	477932	6485576	1600	15	red-brown, clayey, few rocks - ang.	B	steep
50	477905	6485621	1599	15	red-brown, clayey, very rocky	B	steep, rocks a - sa
51	477869	6485660	1600	25	brown, clayey, very rocky, rocks a-sa	C	steep, little soil available
52	477834	6485698	1602	15	red-brown, rocks sa, clayey	B	steep
53	477794	6485731	1601	5	brown, very rocky, rocks ang.	C	steep, talus slope
54	477751	6485757	1595	0	brown, fine sand, rocks ang.	C	steep
55	477750	6485150-5	—	—	— Standard —		— Standard —
56	477703	6485772	1597	15	dark red-brown, clayey, rocks sa-sr	B	steep
57	477653	6485796	1600	20	red brown, clayey, very rocky	B	steep, talus slope, rocks ang.
58	477609	6485816	1603	15	dark red-brown, clayey, rocks ang	B	steep, talus slope
59	477566	6485836	1600	0	brown, clayey, rocks ang	B?	steep, talus slope
60	477519	6485856	1600	0	brown, clayey, rocks ang.	B?	steep, talus slope
61	477471	6485877	1606	0	brown, clayey, rocks ang.	B?	steep, talus slope
62	477422	6485901	1605	0	brown + rock chips	talus	steep, talus slope
63	477372	6485911	1600	0	red-brown clayey, rocks ang	B	steep talus slope
64	477320	6485919	1604	10	brown, clayey, rocks ang. rx chips	B?	steep talus slope
65	477267	6485903	1600	10	red-brown clayey, no rx	B	steep edge of talus slope

SEEP E

CANADIAN METALS EXPLORATION LTD.
TURNAGAIN PROJECT
SOIL SAMPLES

1

Date: Aug 22/2004 Sampled by: J. Klassen Sampling Line: 1600m contour

Sample No.	Easting GPS	Northing GPS	Grid Coord.	Elevation	Depth	Colour-Description	Horizon	Comments: slope: steep, mod. flat, outcrop/rock sampling
	476131	6483030	—	1500	5cm	Brown, lt/Heavy	C	flat
	476144	6483076	—	1600	10cm	Dk. Brown	C	
→	476159	6483124	—	1600	10cm	[illegible]		
	476176	6483170	—	1600	10cm	Brown	C	slope
	476186	6483214	—	1600	5cm	Brown, lt/Heavy	C	top
SECT.	476188	6483241	—			[illegible]		rock
	476159	2	—		5cm	Brown/rocky	C	slope
	476116	6483310	—		10cm	Brown	C	slope
	476048	6483349	—		5cm	Brown, lt/Heavy	C	slope
	476026	6483347	—		5cm	Brown, lt/Heavy	C	slope
10	476024	6483447	—		10cm	Brownish gray	C	slope
	476048	6483457	—		10cm	Reddish brown	B	slope
	476056	6483544	—		5cm	Brown rocky	C	slope
	476027	6483585	—		5cm	Brown	C	slope
→	476064	6483633	—		10cm	Reddish brown	C	slope
	475977	6483682	—		15cm	brown, rocky	C	slope
	475941	6483719	—		10cm	brown	C	slope
	475908	6483752	—		10cm	light brown, rocky	C	slope
	475877	6483793	—		10cm	Brown, rocky	C	slope
	475847	6483835	—		10cm	Brown, rocky	C	slope
20	475814	6483875	—		5cm	reddish brown	B	slope

HARD CREEK NICKEL CORPORATION
TURNAGAIN PROJECT
SOIL SAMPLES

Date: _____ Sampled by: J. Klassen Sampling Line: 1600m contour

Sample No.	Easting GPS	Northing GPS	Elevation	Depth	Colour-Description	Horizon	Comments: slope; steep, mod, flat, outcrop/rock sampling
	479144	6483766	1600	15cm	Brown, few rocks	C	slope
	479227	6483724	1600	12cm	Brown/red, rocky	C	slope
	479272	6483697	1600	15cm	Brown rocky	C	flat
	479304	6483657	1600	5cm	light brown, lithe rocks	C	slope
	479344	6483625	1600	8cm	Brown, rocky	C	slope, outcrop rock
	479398	6483601	1600	12cm	light brown, rocky	C	slope
	479404	6483551	1600	10cm	Brown, rocky	C	slope
	479400	6483525	1600	12cm	Brown rocky	C	slope
	479375	6483455	1600	10cm	Brown rocky	C	slope
	479350	6483408	1600	15cm	Brown, rocky	C	slope
	479326	6483363	1600	10cm	light brown, rocky	C	steep
	479299	6483321	1600	15cm	Brown	C	slope
	479277	6483269	1600	10cm	Brown rocky	C	slope
	479260	6483223	1600	15cm	Brown, rocky	C	slope
	479241	6483181	1600	5cm	Brown rocky	C	slope
	479214	6483129	1600	5cm	Brown, gravelly	C	steep
Silt Sample	479237	6483130	1600	—	Gravely	—	creek
	479288	6483134	1600	5cm	Brown rocky	C	slope
	479337	6483120	1600	5cm	Brown little rocks	C	slope
UP	479388	6483108	1600	5cm	Gray rocky	C	slope
	479434	6483091	1600	5cm	Brown rocky	C	slope
	479478	~~6483064~~	1600	5cm	light brown	C	slope

6483064

CANADIAN METALS EXPLORATION LTD.
TURNAGAIN PROJECT
SOIL SAMPLES

3

Date:________ Sampled by: J. Klassen Sampling Line: 1600m contour

Sample No.	Easting GPS	Northing GPS	Grid Coord.	Elevation	Depth	Colour-Description	Horizon	Comments: slope: steep, mod. flat, outcrop/rock sampling
	475517	6484693	/	1600		Brown gravel	C	slope
	475	648	/					
	475	648						
45	475	648						
50			/					
			/					
				16				

SERP F

HARD CREEK NICKEL CORPORATION
TURNAGAIN PROJECT
SOIL SAMPLES

Date: Aug 22 / 2004 Sampled by: J. Kyba Sampling Line: 1600 m contour E.

Sample No.	Easting GPS	Northing GPS	Elevation	Depth	Colour-Description	Horizon	Comments: slope: steep, mod, flat, outcrop/rock sampling
	476154	6482978	1598	B	Rich brown	B	flat. mod.
	476110	6482751	1599	5	grey-brown	B	"
	476073	6482914	1598	2	"	A-B	"
	476028	6482890	1599	2	"	A-B	flat. mod. boulders
	475985	6482867	1600	2	"	A-B	"
	475946	6482878	1602	2	brown	A-B	"
	475903	6482799	1600	2	"	A-B	"
	475857	6482772	1600	5	brown	B	mod - flat
	475821	6482736	1602	5	"	B	"
	475796	6482780	1600	8	"	B	mod.
	475787	6482692	1600	5	"	B	"
	475780	6482591	1600	5	"	B	"
	475773	6482541	1600	5	"	B	"
	475781	6482492	1600	2	grey-brown	A-B	mod. boulders
	475734	6482441	1600	2	"	A-B	mod-steep. boulders
	475765	6482393	1602	5	brown	B	"
	475756	6482342	1600	2	"	A-B	steep
	475763	6482289	1600	8	"	B	"
	475792	6482244	1602	2	"	A	"
	475816	6482199	1604	5	dk brown	B	"
	475838	6482152	1602	5	light brown-beige	B	"
	475857	6482105	1600	2	"	A	"

HARD CREEK NICKEL CORPORATION
TURNAGAIN PROJECT
SOIL SAMPLES

2

Date: Aug 22/2004 Sampled by: _____ Sampling Line: 1600m soil

Sample No.	Easting GPS	Northing GPS	Elevation	Depth	Colour-Description	Horizon	Comments: slope: steep, mod, flat, outcrop/rock sampling
	475333	6482080	1600	2	grey-brown	A-B	steep.
	475905	6432014	1600	2	"	A-B	"
	475929	6481969	1600	2	light brown beige	A	"
	475951	6481922	1603	10	brown	B	mod - step.
	475969	6481873	1602	5	"	A-B	"
	475987	6481824	1602	2	grey-brown	A	mod. step
	476008	6481777	1600	2	"	A	"
	476038	6481736	1600	10	brown	B	"
	476064	6481690	1603	15	"	B	"
	476093	6481648	1600	10	"	B	"
	476140	6481635	1603	0	grey-green	A	steep, talus, some outcrop
	476173	6481631	1603	SILT	grey-beige	SILT	dry, wet bed
	476133	6481599	1600	0	grey-green	A	steep, talus, wet seepage
	476152	6481552	1603	2	"	A	mod. step.
	476185	6481513	1602	0	"	A	step.
	476220	6481476	1600	10	brown	B	"
	476255	6481437	1602	2	"	A-B	"
	476284	6481394	1600	0	green-grey	A	steep, talus
	476347	6481380	1600	0	"	A	steep, dry, wet bed
	476375	6481337	1603	2	"	A	mod-step, talus
	476395	6481287	1608	2	"	A	"
	476411	6481242	1605	2	grey-beige	A	"

Standard inserted 476280E 6481390-5

HARD CREEK NICKEL CORPORATION
TURNAGAIN PROJECT
SOIL SAMPLES

3

Date: Aug 22 / 2007 Sampled by: _____ Sampling Line: 1600m contour

Sample No.	Easting GPS	Northing GPS	Elevation	Depth	Colour-Description	Horizon	Comments: slope: steep, mod, flat, outcrop/rock sampling
	476441	6481200	1605	0	grey - beige	A	steep, talus outcrop
	476475	6481164	1610	0	"	A	"
	476508	6481125	1607	0	"	A	"
	476540	6481035	1604	2	grey - beige	A	mod. flat, talus outcrop
	476571	6481052	1605	2	"	A	"
	476625	6481039	1610	0	"	A	steep, talus, outcrop
	476669	6481067	1605	0	"	A	steep, talus
	476774	6481036	1603	0	"	A	steep, mod, talus, outcrop
	476805	6481075	1606	SILT	brown - grey	SILT	mod, stream runs over conglomerate bedrock
	476790	6481025	1609	0	grey - beige	A	steep, mod, talus, outcrop
	476772	6480978	1612	8	brown	B	steep, boulders
	476773	6480925	1600	2	"	A-B	"
	476793	6480881	1600	SILT	grey - beige	SILT	Dry creek bed, medium bedrock
	476792	6480858	1603	2	beige	A	mod. outcrop
	476843	6480815	1603	2	grey - beige	A	mod. outcrop
	476853	6480776	1605	10	brown - beige	B	mod
	476895	6480793	1605	SILT	grey - green	SILT	mod, boulders
	476922	6480706	1605	10	brown	B	mod
	476943	6480659	1600	5	light brown - beige	B	"
	476981	6480625	1603	5	grey - beige	A-B	"
	477013	6480587	1605	2	"	A	"
	477042	6480547	1605	2	"	A	"

HARD CREEK NICKEL CORPORATION
TURNAGAIN PROJECT
SOIL SAMPLES

4

Date: Aug 22/2004 Sampled by: _____ Sampling Line: Main contact

Sample No.	Easting GPS	Northing GPS	Elevation	Depth	Colour-Description	Horizon	Comments: slope: steep, mod, flat, outcrop/rock sampling
	477074	6480509	1604	2	light brown beige	A	mod - flat
	477105	6480468	1602	2	"	A	"
	477135	6480426	1604	2	"	A	"
	477169	6480388	1602	2	grey - beige	A	Mod
	477201	6480344	1603	2	light brown - beige	A	"
	477229	6480301	1602	2	"	A	"
	477257	6480260	1603	2	grey-beige	A	Mod
	477288	6480219	1600	5	brown	B	Mod - steep
	477320	6480181	1600	5	"	A-B	"
	477359	6480147	1601	10	"	B	steep
	477395	6480109	1600	10	"	B	Mod - steep
	477440	6480081	1600	10	grey beige	B	"
	477482	6480052	1600	5	brown	A-B	"
	477522	6480021	1600	10	light beige - brown	B	"
	477561	6479987	1603	10	"	B	"

Appendix E

Serp Claims Statement of Costs

Work Period 31 July – 25 August 2004

Salaries:

Chris Baldys 1 day at $310/day (+GST)	331.70
Bruce Northcote 1 day at $350/day (+GST)	374.50
Jeff Kyba 4 days at $170	680.00
Tyler Kuhn 3 days at $170	510.00
Jessie Klassen 2 days at $250/day (+GST)	535.00
Room and Board at Turnagain Camp 11 an days at $100/day	$1100
Helicopter (Pacific Western)	
31 July Flight Ticket 27905; 55% of $4123.57	2267.96
19 August 27971	2129.89
22 August 27977	1848.27
25 August 27987 25% of $1548.40	387.10
Analytical (Acme Analytical Laboratories)	
9 September Invoice A404446; 65% of $1050.16	682.60
9 September A404447	320.87
9 September A404444	332.36
23 September A405241	185.96

7 October A 405242

6904.03

Supplies (sample bags, shovels) $400

Report preparation $950

Total $19,940.24

Appendix F

Statement of Qualifications

I, Bruce Northcote of 21727 Ridgeway Crescent, Maple Ridge, BC, hereby certify that:

1. I am a consulting geologist, presently contracted by Hard Creek Nickel Corporation for geological services

2. I have worked in my profession as a geologist since 1996

3. I have been registered as a Geoscientist in Training with the Association of Professional Engineers and Geoscientists since 1997

4, I hold a B.Sc. (hons) in Geological Sciences from the University of British Columbia, awarded in 1991.

5. I hold a M.Sc. in Geology from Queen's University, awarded in 1997

6. This report is based on my examination of data collected in 2004 while employed as a consulting geologist for Hard Creek Nickel and observing and/or performing a portion of the work reported herein.

Bruce Northcote

May 10/05
Date

SERP 1
409770
4NX5E

SERP 2
409771
4NX5W
(245422)

SERP 2
409771
4NX5W

SERP 3
409772
5NX4E

245421
245424

245422
245425

245423

SERP 4
409773
4SX5E

SERP 5
409774
4SX5W
(245425)

SERP 5
409774
4SX5W

SERP 6
409775
5NX4E
(245426)

SERP 4
409773
4SX5E
(245424)

SERP 5
409774
4SX5W
(245425)

SERP 5
409774
(245425) 4SX5W

SERP 6
409775
5NX4E

SERP 7
409776
4NX5W

SERP 8
409777
4NX5E

SERP 8
409777
4NX5E
(245428)

245426

245151

SERP 11
409780
5SX4E

245428
245427

245429

245430

SERP 9
409778
4SX5W

SERP 10
409779
4SX5E

SERP 10
Reed Showing
409779
4SX5E
(245430)

BC 88062

6487000
6486000
6485000
6484000
6483000
6482000
6481000
6480000

474000
475000
476000
477000
478000
479000
480000
481000

Legend

- Soil Sample Location with Ni Value (PPM)
- Silt Sample Location with Ni Value (PPM)

N

Hard Creek Nickel Corp.

Figure 3

Soil and Silt Sample Locations
and
Ni Values (PPM)

Date: 11/3/2005
Author: BKN
Office: Vancouver
Drawing:
Scale: 1:10000
Projection: UTM Zone 9 (NAD 83)

0 125 250 500
metres