B-MAX
(Brothers Minerals and Exploration)

MAGNETAWAN PROJECT

Results of the 1998 Exploration Program for Ni-Cu-Co Sulphide Deposits on Mining Claims SO 1077361 and SO 1077362 in Lount Township, Ontario

N.T.S. 31-E/13

Carried Out Under the Ontario Prospectors Assistance Program
OPAP File Number OP98-011

By G. Vandevalk
December 1998

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Results of the 1998 Exploration Program for Ni-Cu-Co Sulphide Deposits on Mining Claims SO 1077361 and SO 1077362 in Lount Township, Ontario

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SUMMARY

During the summer of 1997, the author and two associates (his brothers), hereinafter referred to as B-MAX (Brothers Minerals and Exploration), conducted a program of stream sediment sampling and prospecting to follow-up on Geological Survey of Canada Ni-Cu-Co lake sediment geochemical anomalies north of the Town of Magnetawan. Several of the area's documented Cu-Ni prospects were visited and sampled. By November 1997, the results of this program were sufficiently encouraging to warrant the staking of a 12-unit claim block, by Henry Vandevalk (SO1077361), over an area interpreted to be underlain by metagabbroic rocks, between Lake Of Many Islands and Spring Lake in Lount Township. Both of these lakes yielded GSC sediment samples that contained anomalous levels of nickel and cobalt. Streams that drained the area that was staked yielded sediment samples that contained anomalous levels of nickel, cobalt and chromium. Prospecting in the area that was staked confirmed the presence of mafic and ultramafic rocks including metagabbro and pyroxenite, both with disseminated sulphides. Samples of these rocks yielded interesting nickel, copper and cobalt analyses. B-MAX believed these results indicated that the area had potential to host economic concentrations of magmatic sulphides and that staking and follow up exploration was warranted to further investigate this potential.

In April 1998, William Vandevalk staked an additional, single claim unit (SO1077362) over a nearby pit exposed showing of semi-massive pyrrhotite in peridotite.

A proposal was submitted to the Ministry of Northern Development and Mines, under OPAP, to carry out a program of soil geochemical sampling, prospecting and ground magnetic surveys, directed toward the discovery of nickel–copper–cobalt, magmatic sulphide deposits on the property. The submission resulted in the awarding of a $10,000 grant to the applicant (OP98-011). The Summer 1998 program was successful in identifying several areas with highly anomalous Ni + Cr + Co in soil, associated with strong ground magnetic anomalies. Follow-up prospecting in this area confirmed the presence of disseminated sulphide and magnetite bearing, ultramafic and metagabbroic rocks, that have the potential to host magmatic sulphides. The area covered by the Summer 1998 surveys undoubtedly contains the source(s) of the GSC Nickel anomaly in Spring Lake sediments.

This report documents the results of the 1998 Exploration Program carried out by B-MAX, on mining claims SO 1077361 and SO 1077362.

LOCATION AND ACCESS

The Properties lie approximately 14 kilometres north of the town of Magnetawan, (Figure 1). Figure 2 shows the locations of **Mining Claims SO1077361 (the North Block)** and **SO1077362 (the South Claim)**. The North Block lies on the north ½ of Concession 5, Concession 6 & the south ½ of Concession 7 – Lots 27, 28 & 29, and the South Claim lies on the south ½ of Lot 27, Concession 3, as shown on the Lount Township Claim Map number M.184. Lount Township is in the Parry Sound District of the Sudbury Mining Division. The properties lie within the N.T.S. 31 E/13 division (Golden Valley Sheet), and the southwest corner of Mining Claim SO1077361 occurs at approximately 45° 47' 05" north latitude and 79° 41' 03" west longitude. The U.T.M. coordinates of this corner are 602,295mE and 5,070,750mN.

The South Claim property can be accessed by travelling approximately 8.5 kilometres north on the Nipissing Road off of Highway 124 (at its junction with Highway 510), which will bring you to the Youthdale Camp Road (Figure 1). The Youthdale Road cuts across the property at approximately 3 kilometers distance, west from the Nipissing Road (Figure 2). **The North Block** property can be accessed by further heading west for approximately 1 kilometre on the Youthdale Road where a gate, which marks the beginning of the Youthdale private lands, will be encountered (Figure 2). The author requested and was granted permission from the owner, to travel a further 0.7km beyond the gate to a trail which heads north to the staked claim block. This trail can be traveled by highway vehicle for only a short distance, to a clearing and sandpit just off the Youthdale property. An ATV was used to travel the remainder of the trails across the property. A public boat launch ramp provides access to Spring Lake, from which the northern portion of the North Block Property can be accessed if desired.

REGIONAL GEOLOGY

The properties lie within the Parry Sound Mafic Domain (PSMD) of the Central Gneiss Belt (CGB) in the Grenville Geologic Province (Figure 3). Easton (1992) describes the geology of the Grenville Province and the CGB, including the PSMD.

Figure 4 shows existing Ontario Geological Survey detailed mapping coverage in the vicinity of the properties. Areas to the west and southwest were covered by fairly recent, 1 inch = ¼ mile scale OGS mapping (Bright E.G., 1987 and McRoberts, T., & Tremblay, M.L., 1988). Lount Township was mapped by J. Satterly in 1953 (Map No. 1955-4) primarily to investigate magnetite and garnet occurrences that were found along the Rosseau to Nipissing pioneer road, and to assess the iron potential of the area. Although the lithological classifications are not as detailed as the recent OGS mapping to the west, Satterly's map provides the only detailed coverage in Lount Township and it locates some of the definite metagabbro bodies, Cu-Ni occurrences and old workings on occurrences.

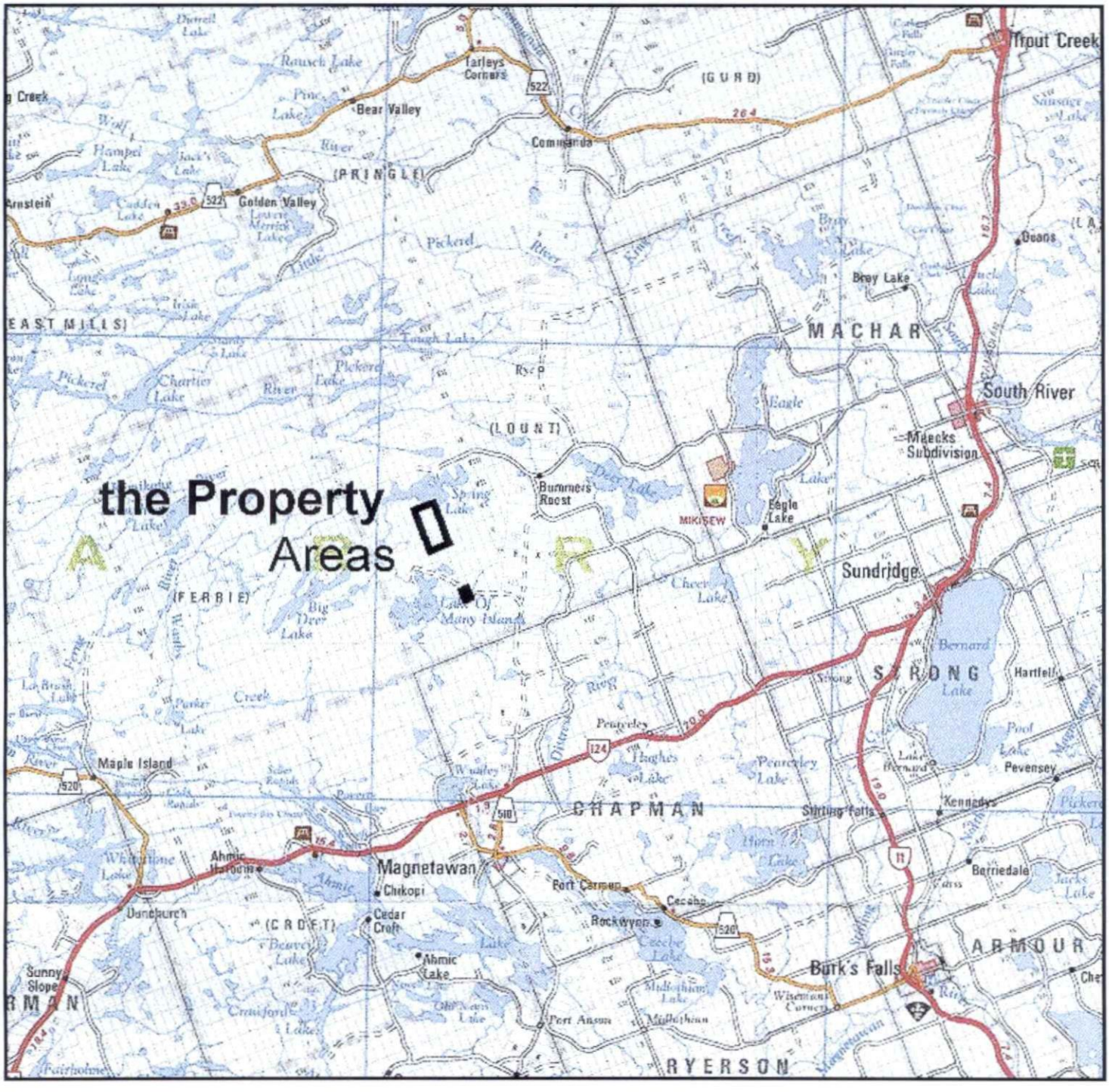


Figure 1
PROPERTY LOCATIONS
Scale - 1:250,000

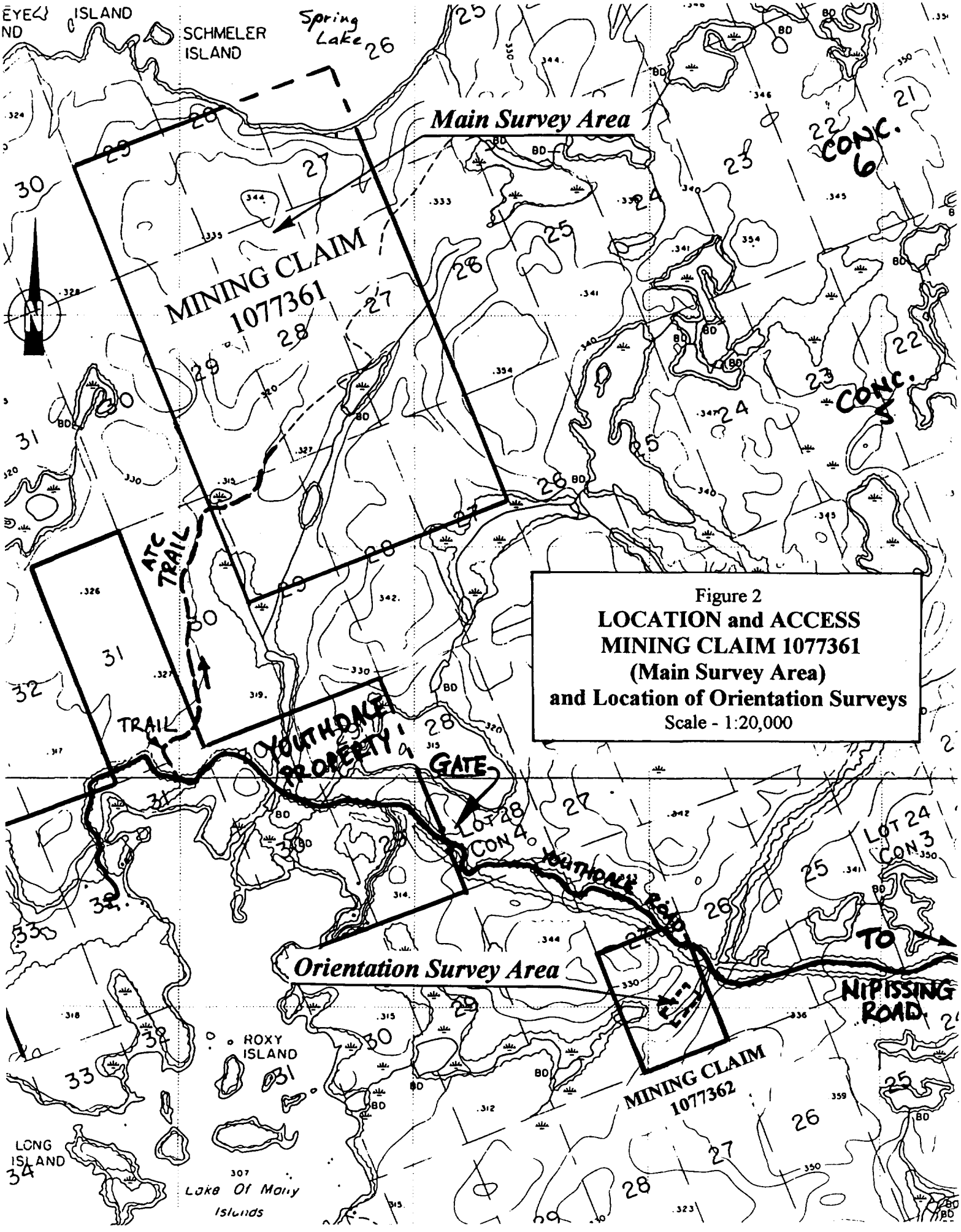
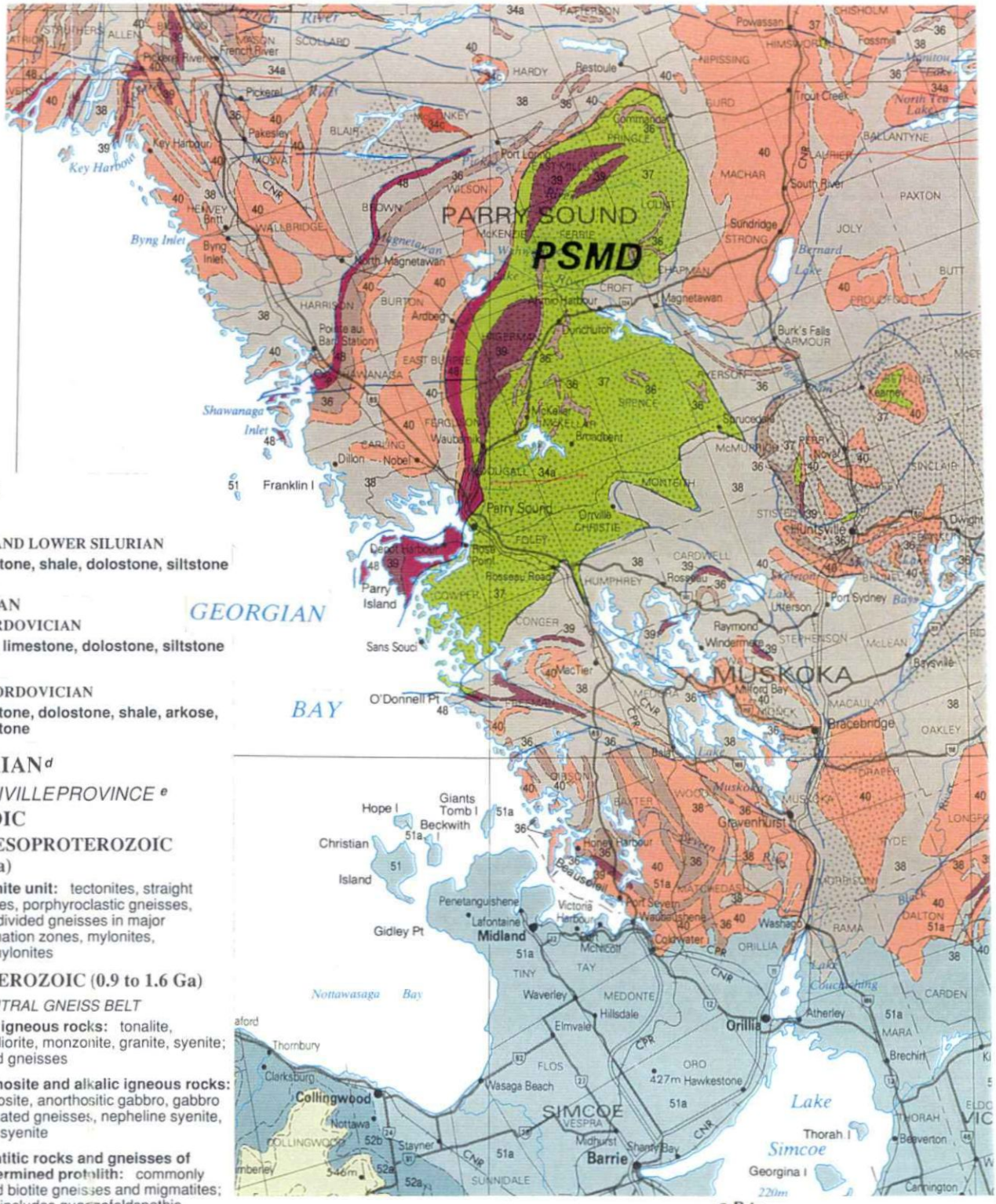


Figure 2
LOCATION and ACCESS
MINING CLAIM 1077361
(Main Survey Area)
and Location of Orientation Surveys
Scale - 1:20,000



PALEOZOIC

SILURIAN

MIDDLE AND LOWER SILURIAN

53 **Sandstone, shale, dolostone, siltstone**

ORDOVICIAN

UPPER ORDOVICIAN

52 **Shale, limestone, dolostone, siltstone**

MIDDLE ORDOVICIAN

51 **Limestone, dolostone, shale, arkose, sandstone**

PRECAMBRIAN[d]

GRENVILLE PROVINCE[e]

PROTEROZOIC

NEO– TO MESOPROTEROZOIC (0.57 to 1.6 Ga)

48 **Tectonite unit:** tectonites, straight gneisses, porphyroclastic gneisses, unsubdivided gneisses in major deformation zones, mylonites, protomylonites

MESOPROTEROZOIC (0.9 to 1.6 Ga)

CENTRAL GNEISS BELT

40 **Felsic igneous rocks:** tonalite, granodiorite, monzonite, granite, syenite; derived gneisses

39 **Anorthosite and alkalic igneous rocks:** anorthosite, anorthositic gabbro, gabbro and related gneisses, nepheline syenite, alkalic syenite

38 **Migmatitic rocks and gneisses of undetermined protolith:** commonly layered biotite gneisses and migmatites; locally includes quartzofeldspathic gneisses, orthogneisses, paragneisses

37 **Mafic rocks:** amphibolite, gabbro, diorite mafic gneisses

36 **Gneisses of metasedimentary origin:** quartzofeldspathic gneisses, pelitic to semi-pelitic gneisses, calc-silicate gneisses, minor quartzite, minor marble and marble breccia

Ministry of Northern Development and Mines

Ontario

MAP 2544

Scale 1:1 000 000

Kilometres 20 0 20 40 60 80 100 Kilometres

Miles 10 0 10 20 30 40 50 Miles

published 1991

Figure 3

1900 Series

Map No.	Topic	Scale	Date	Description
1955–4	PRECAM	1:31 680	1955	Lount Tp.

2000 Series

Map No.	Topic	Scale	Date	Description
2540	PRECAM	1:20 000	1990	Whitestone L. area

P Series

Map No.	Topic	Scale	Date	Description
P.3123	PRECAM	1:15 840	1988	Ferrie R. area

Ontario Geological Survey

INDEX TO MAPS

BEDROCK GEOLOGY 1891–1991

Scale 1:1 000 000

25 0 25 50

kilometres

Figure 4

PREVIOUS WORK and LOCAL MINERAL OCCURRENCES

References to the mineral occurrences in the vicinity of the properties are found in MNDM assessment files and in Satterly, 1955 (with Map No. 1955-4). An examination of government assessment records was carried out using the ERLIS facilities at the OGS's public information office located in the MacDonald Block, Queens Park, Toronto. This examination was sufficient to ascertain that only a very minimal amount of exploration has been conducted in the project area, most of which was not recently done. There is no record of any work having ever been carried out on or immediately adjacent to the North Block Property (Claim Block SO 1077361).

An airborne magnetometer survey was flown in the 1950's by an iron ore company, along the Rosseau-Nipissing road allowance in Lount Township, presumably to follow-up on the iron potential discussed by Satterly, 1955. Some drilling was done on magnetite occurrences as a follow-up to that survey. Other unrecorded work in the form of pit or shaft blasting and some drilling are indicated in Satterly's report and shown on Map 1955-4. Satterly believed that the majority of old pits were blasted in error on a locally abundant massive red garnet rock, which was mistaken for magnetite.

Ground geophysics, geochemical surveys, geological surveys, and some diamond drilling were reported for several lots (claims) in southwestern Lount Township, covering the documented Cu-Ni occurrences and limestone prospects. All of the drilling reported in the area encountered varying concentrations of sulphide mineralization (in some cases massive, over narrow intervals) including py, po, cpy and, in some cases, pentlandite, in a variety of rock types including gabbro. The local occurrences described by Satterly are uneconomic, but are of interest in that they indicate that sulphides, sometimes containing nickel and copper, occur in, or in proximity to gabbroic rocks, locally in the project area. Satterly stated that the Cu-Ni occurrences fall into two groups; (1) as disseminations within mafic gneisses, and (2) as a garnet skarn at the contact between limestone and mafic gneisses.

The S.½ of Lot 27, Conc. III, Lount Township is the location of several pits blasted into a nickel and copper showing consisting of massive to semi-massive po and py. Occurring in amphibolite at the edge of a hybrid granite gneiss unit, its location is shown on Satterly's map (1955-4) by only a pit symbol. Subsequently, in 1992, P. McLean (OPAP File # OP92-245) carried out geological and geophysical work on this showing, which he interpreted to be a nickeliferous, peridotite "plug". McLean observed pentlandite in the showing and obtained a grab sample that assayed 0.12% Ni. He concluded that the showing was small and of "academic interest only". In April 1998, this showing was staked (SO 1077362 – the South Claim) by William Vandevalk (Figure 2) after a visit in March during which 5 rock samples, that yielded analyses of up to 0.21% Ni and 0.10% Cu, were obtained from the rubble dump (Vandevalk, November 1998).

ORIENTATION SOIL GEOCHEMICAL AND MAGNETOMETER SURVEYS

The previously mentioned, ultramafic-hosted Ni-Cu showing on the South Claim (SO 1077362) was chosen as the site for orientation soil geochemical and magnetometer surveys (Figure 2). These surveys were designed to provide a basis for comparison of the results for the main exploration program on the North Block (SO 1077361).

A small grid, with line spacing of 50 metres, was established on the South Claim, over the site of the pit exposures of the known showing (Figure 5). Line 0 was established directly adjacent to the main pit, at right angles to the strike of a prominent ridge, inferred to represent the strike of the local lithologies. A baseline and 4 additional lines were established in relation to Line 0 (Figure 6a).

Twenty-one B-Horizon soil samples were collected at 25 metre (or less) intervals along the grid lines. Twenty magnetometer readings were taken at the same stations as the soil sampling. Procedures for both orientation surveys were the same as those for the main survey area and are explained in the following sections of text relating to those surveys. The results of the orientation surveys are shown in Table 1 and on Figures 6a and 6b.

ESTABLISHING THE MAIN SURVEY GRID

A baseline was established along the western boundary of the North Block (at 339° azimuth). Distances were measured using a "hip-chain" (string) distance meter. The line was generously flagged with fluorescent orange flagging tape and 50 metre stations were marked with blue flagging tape. Gridlines, spaced 100 metres apart, were established by compass at 69° azimuth, east of the baseline and marked in the same manner as the baseline. This process was complicated by the presence of highly magnetic bedrock units, which caused severe compass deviations over short distances. Compass readings were frequently unreliable and lines had to be established by sight where bush conditions allowed. In areas of dense bush, uniform line spacing was impossible to maintain.

Another minor complicating factor was a vibrant moose and deer population that mistook our flagging tape for something that might taste good. Apparently, blue flagging tape looks more appetizing to moose or deer, as it was preferred over fluorescent orange. While carrying out the subsequent surveys, our chewed up flagging for a number of stations was found on the ground, a short distance from the original station locations.

Forest composition and topographic observations were recorded during grid establishment. General areas of outcrop exposure, and specific outcrops were also noted. These observations were plotted at a scale of 1:5,000 and incorporated into a detailed property base map (Figure 7). A total of 17.7 line kilometres of grid were established as control for the soil geochemical and magnetometer surveys. An additional 0.9 line kilometer of grid, at 50 metre spacing between previously established lines, was required for follow-up sampling. Results of the soil geochemical and magnetometer surveys were plotted on simplified versions of the base map.

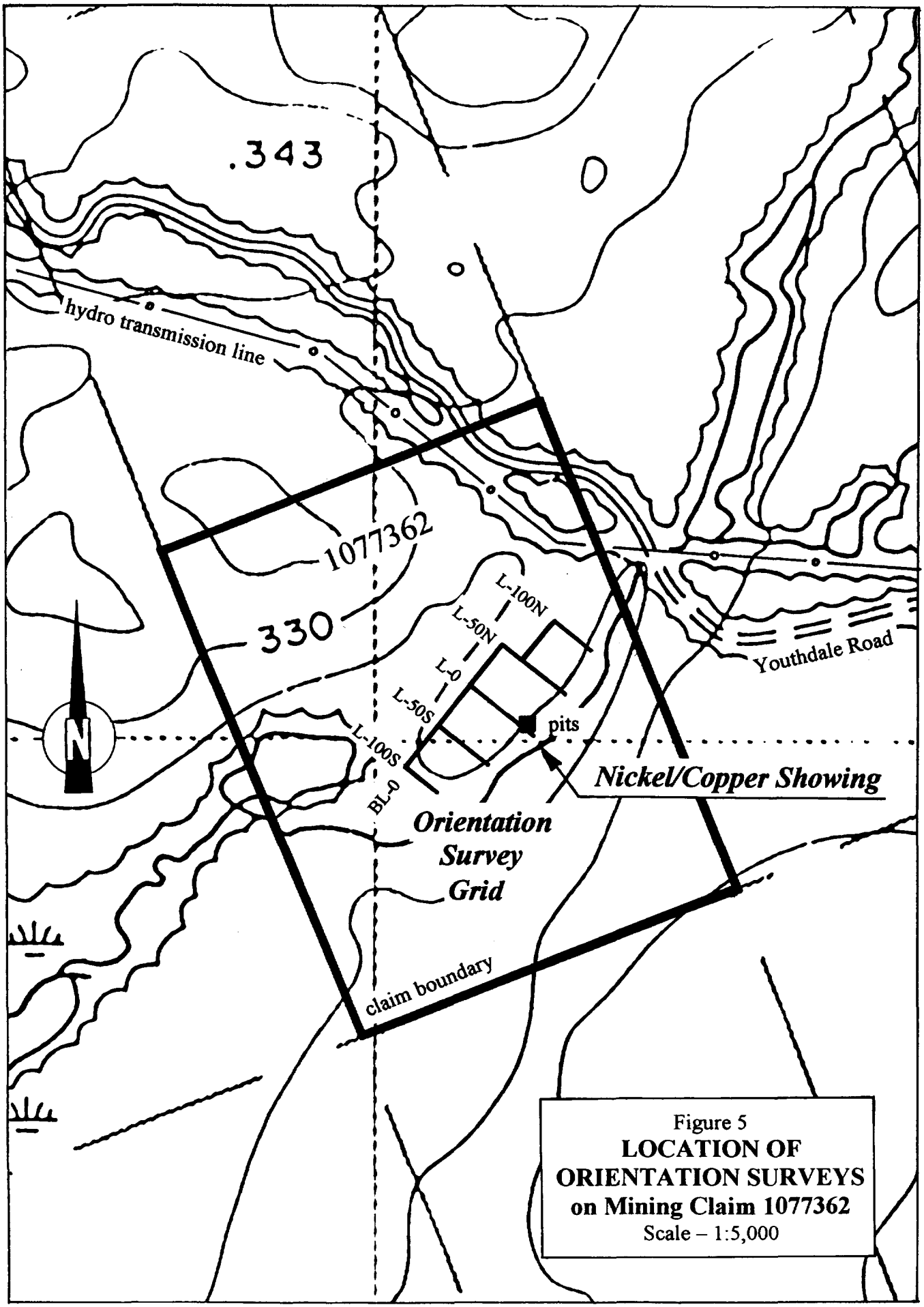
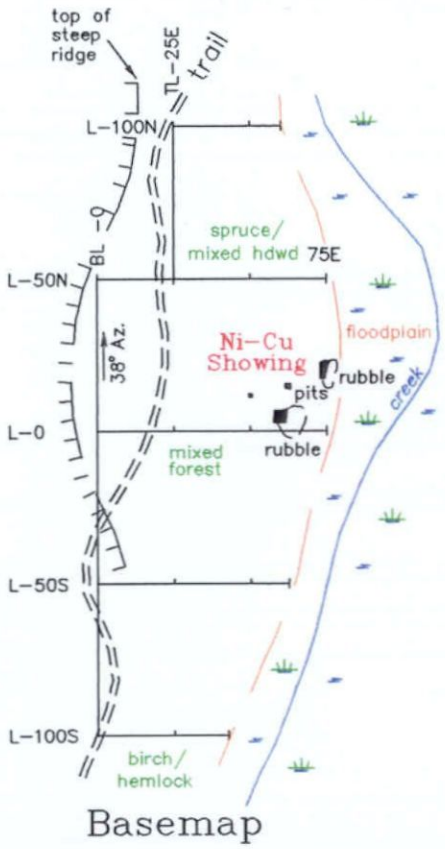
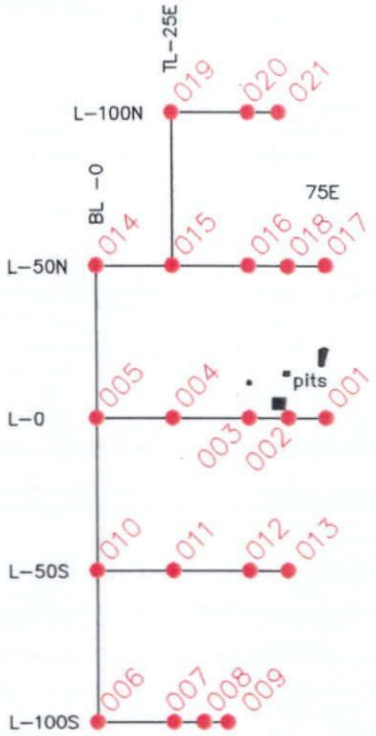


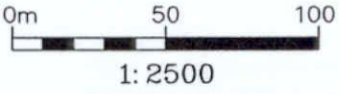
Figure 5
LOCATION OF ORIENTATION SURVEYS on Mining Claim 1077362
Scale – 1:5,000

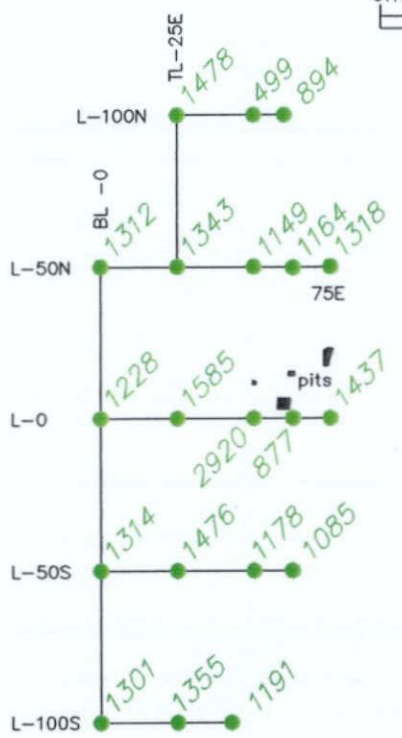


Basemap



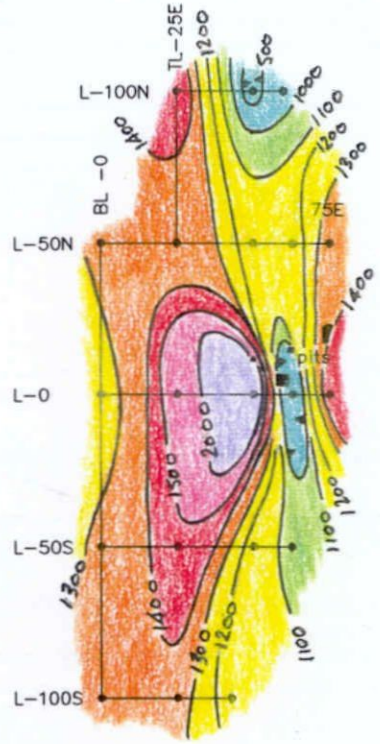
B Horizon Soil Sample Locations





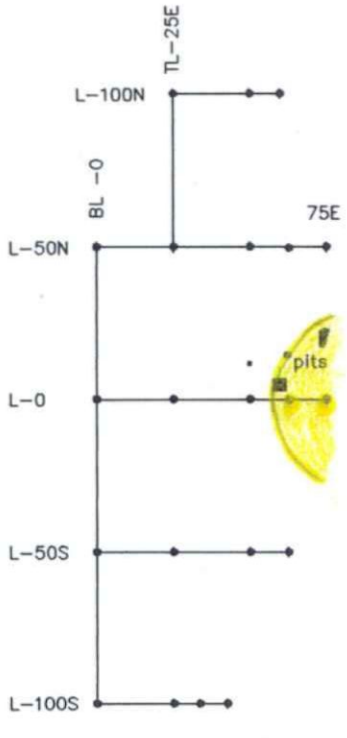
Magnetometer Readings

Base Value = 56,000 nT

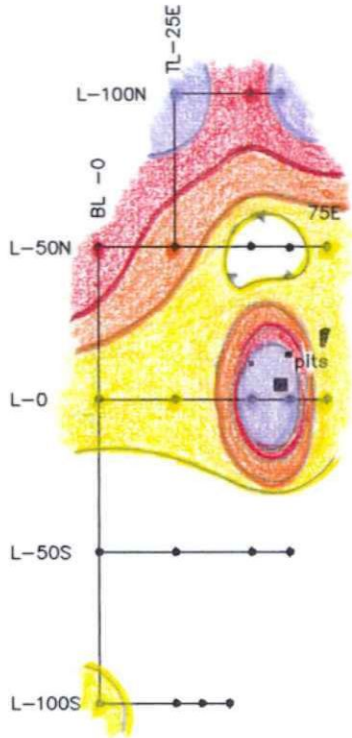


Magnetometer Contoured Readings

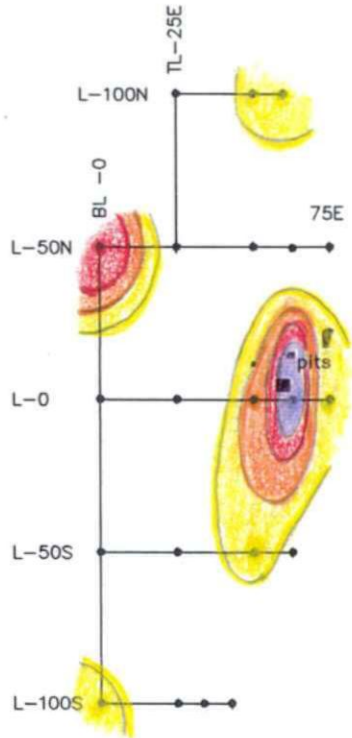
Figure 6a
ORIENTATION SURVEYS



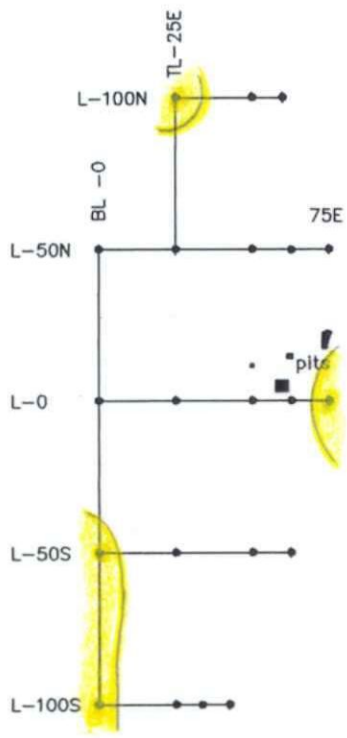
Nickel in Soil



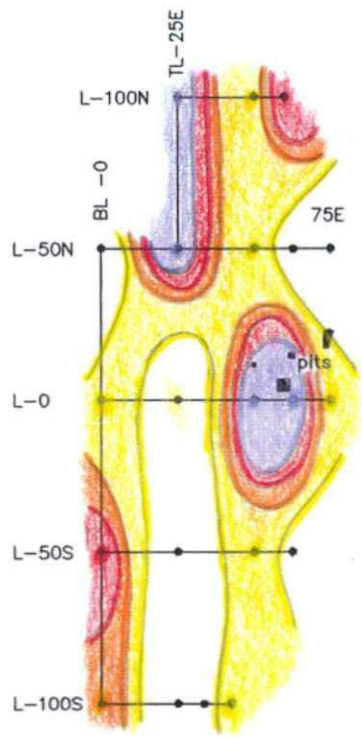
Copper in Soil



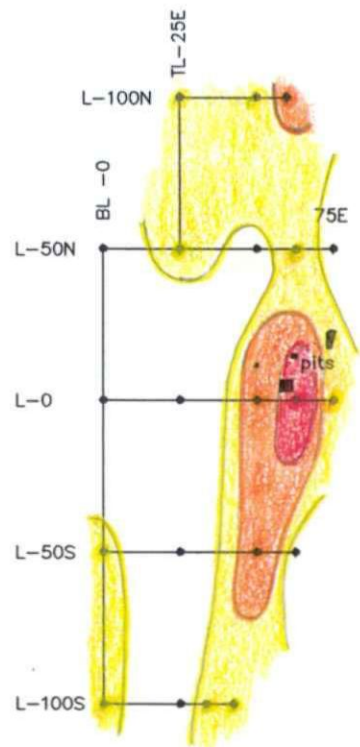
Cobalt in Soil



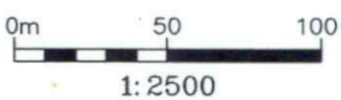
Chromium in Soil



Iron in Soil

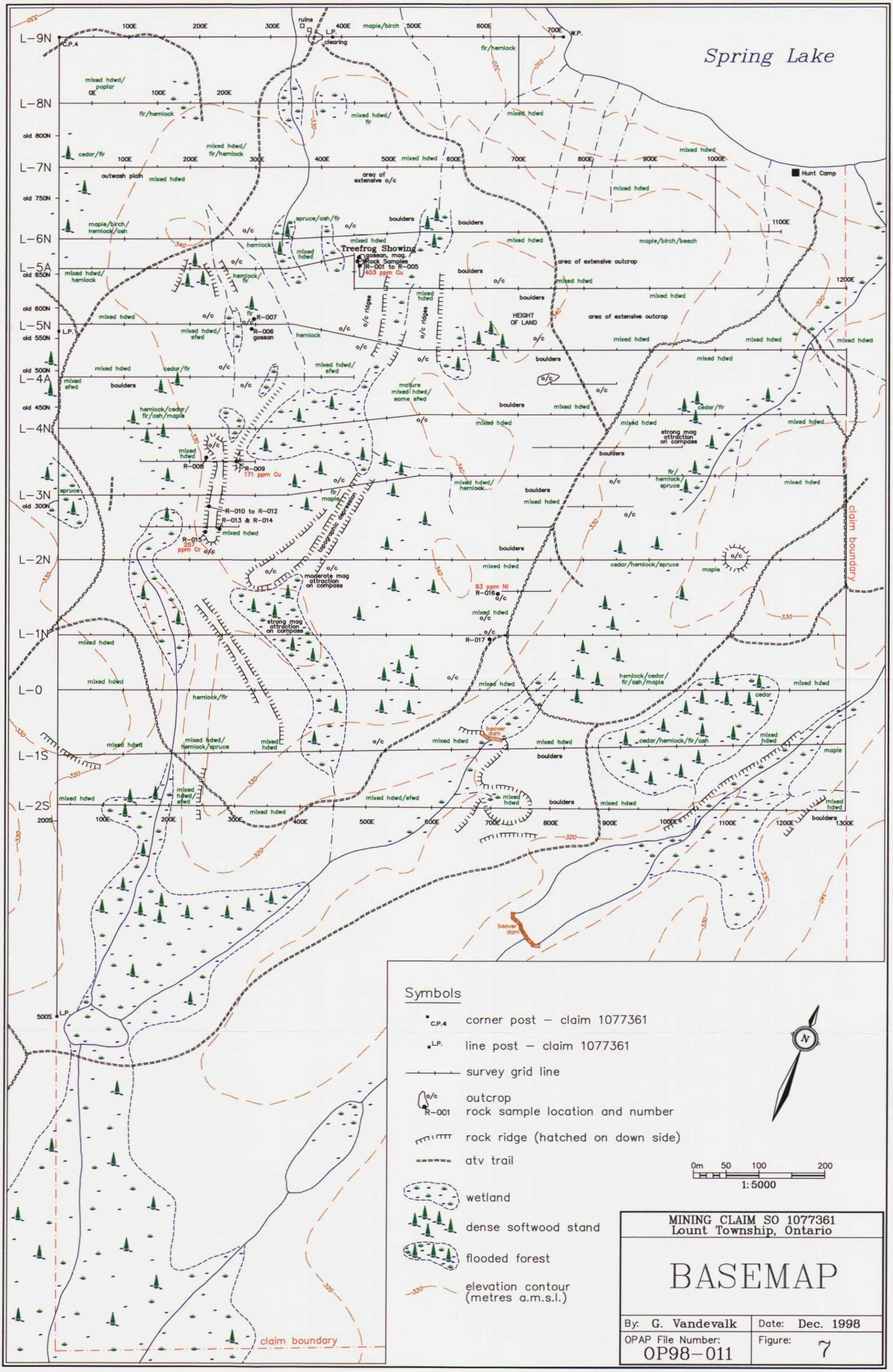


Manganese in Soil



See Figures 8b to 8g for explanation of soil geochemical thresholds for each element.

Figure 6b
ORIENTATION SURVEYS



MINING CLAIM SO 1077361
Lount Township, Ontario

BASEMAP

By: G. Vandevalk	Date: Dec. 1998
OPAP File Number: OP98-011	Figure: 7

SOIL GEOCHEMICAL SURVEY

The Summer 1998 soil geochemical survey commenced in August and was continued throughout the remainder of the summer and early autumn during weekend field trips to the property. B-horizon soil samples were collected following the field procedures outlined in *Levinson, 1974 (Introduction to Exploration Geochemistry, p. 11-14 and p. 227-231).* A grub hoe was used to expose the B soil horizon by removing organic material, the A soil horizon, small tree roots and leached soil zones where present. Once the B-horizon was exposed, a painted steel garden trowel was used to scoop the samples into standard, kraft-paper soil bags. Organic matter (twigs and small roots) and pebbles were manually removed from the samples prior to their placement into the bags. In addition to the 21 orientation survey samples, 299 B-horizon soil samples were collected during the initial phase of the program. Based on encouraging initial results, a further 57 follow-up B-horizon soil samples were collected in two areas. Sample locations are shown on Figure 8a, at a scale of 1:5,000.

The samples were delivered to XRAL Laboratories in Toronto after each sample collection field trip. They were sieved to –80 mesh and analyzed, using the ICP scan method, for 31 elements, including Ni, Cu, Co, Cr, Mn and Fe. Complete analytical results for all soil samples collected during the 1998 program are provided in Appendix I. Table 1 is a summary, by sample number, of geochemical data used to interpret the results of the soil-sampling program.

Initial results were plotted at a scale of 1:5,000 as they were received in batches. Statistical analysis of the initial 299 samples (Appendix II) resulted in the determination of threshold levels that would reasonably represent the distribution of Ni, Cu, Co and Cr base metals in the B-horizon soils of the survey area. Estimation of background base metal values proved difficult, as the statistical medians (determined from both the grouped data and from the cumulative percent frequency plots) were too low, resulting in poorly defined base metal trends. The sample mean from grouped data was, in general, too close to the 70th percentile to be an accurate estimation of background. The background ranges for base metals were therefore left undefined in favour of an "elevated background" category that resulted in more discreetly defined base metal trends. The 90th, 95th and 98th percentiles were determined from the cumulative percent frequency plots to respectively represent "possibly anomalous", "anomalous" and "highly anomalous" ranges of base metal concentrations in B-horizon soils. The results for nickel, copper, cobalt and chromium are shown in Table 1 (by sample number) and on Figures 8b to 8e.

It is well documented that manganese and iron may act as base metal scavenging elements and that their concentrated presence in soil can result in spurious anomalies. The interpretation of the results of any geochemical survey must consider this as a potentially complicating factor. Figures 8f and 8g show the survey results for Mn and Fe in B-horizon soils. For comparative purposes, the raw nickel and copper data were filtered for Mn and Fe using the formula: Ni / (0.01 x Mn + Fe) for nickel, and: Cu / (0.01 x Mn + Fe) for copper. The results for Mn/Fe filtered Ni and Cu are shown in Table 1 and on Figures 8h and 8i.

TABLE 1

Analytical Results for B Horizon Soil Samples

Thresholds

70th %-ile	163-485	3.42-4.16	123-272	31.8-60.1	15-24	60-93	27-46	5.3-10.1
90th %-ile	486-973	4.17-4.66	273-346	60.2-80.4	25-28	94-108	47-55	10.2-14.4
95th %-ile	974-1613	4.67-5.32	347-397	80.5-122.0	29-41	109-129	56-63	14.5-20.1
98th %-ile	>1613	>5.32	>397	>122.0	>41	> 129	>63	>20.1

Sample Ident	Mn	Fe	Ni	Cu	Co	Cr	Nickel	Copper
Analysis Unit	ppm	%	ppm	ppm	ppm	ppm	.01Mn+Fe	.01Mn+Fe
SO98-301	512	3.00	16	14.4	8	24	2	1.8
SO98-302	705	0.89	11	10.6	7	22	1	1.3
SO98-303	122	2.24	37	10.0	8	39	11	2.9
SO98-304	95	1.79	135	54.7	13	45	49	20.0
SO98-305	643	3.82	277	113.0	34	103	27	11.0
SO98-306	145	3.66	191	40.7	16	118	37	8.0
SO98-307	384	2.33	247	22.2	24	92	40	3.6
SO98-308	201	3.43	104	37.2	14	83	19	6.8
SO98-309	511	3.76	344	40.5	28	133	39	4.6
SO98-310	161	2.77	114	31.6	12	60	26	7.2
SO98-311	87	4.37	83	34.5	10	64	16	6.6
SO98-312	105	3.26	122	24.9	11	68	28	5.8
SO98-313	96	3.74	102	26.0	13	58	22	5.5
SO98-314	1570	2.26	375	82.8	97	63	21	4.6
SO98-315	168	2.38	103	36.0	12	49	25	8.9
SO98-316	3130	3.23	295	95.4	42	106	9	2.8
SO98-317	2020	2.99	412	47.2	30	105	18	2.0
SO98-318	174	1.67	178	22.6	9	64	52	6.6
SO98-319	28	0.68	24	3.8	3	50	25	4.0
SO98-320	76	2.70	46	10.1	7	33	13	2.9
SO98-321	297	1.11	11	8.9	8	21	3	2.2
SO98-322	87	2.95	22	5.2	4	28	6	1.4
SO98-323	175	1.83	32	6.1	5	30	9	1.7
SO98-324	715	1.21	22	7.7	4	19	3	0.9
SO98-325	184	2.84	25	5.0	4	28	5	1.1
SO98-326	1100	3.44	62	67.9	19	23	4	4.7
SO98-327	272	1.93	15	5.5	3	27	3	1.2
SO98-328	116	1.71	16	5.3	3	31	6	1.8
SO98-329	1120	3.23	58	64.0	17	23	4	4.4
SO98-330	108	1.02	42	9.4	4	23	20	4.5
SO98-331	106	2.31	15	5.5	3	32	4	1.6
SO98-332	72	2.61	63	19.3	7	51	19	5.8
SO98-333	15	0.57	10	1.4	2	11	14	1.9
SO98-334	49	2.84	27	4.1	4	39	8	1.2
SO98-335	135	4.06	65	8.6	8	57	12	1.6
SO98-336	636	3.71	42	34.3	12	25	4	3.4
SO98-337	179	3.37	26	28.5	8	26	5	5.5
SO98-338	877	2.80	336	126.0	37	52	29	10.9
SO98-339	32	3.05	16	17.8	6	41	5	5.3
SO98-340	273	4.14	19	71.8	19	4	3	10.5
SO98-341	178	3.18	227	51.4	20	78	46	10.4
SO98-342	61	4.85	69	14.8	9	57	13	2.7
SO98-343	30	3.81	13	13.4	3	38	3	3.3
SO98-344	136	3.84	188	26.0	18	102	36	5.0
SO98-345	114	1.47	62	7.1	7	43	24	2.7
SO98-346	43	2.33	49	3.4	6	30	18	1.2

TABLE 1

Analytical Results for B Horizon Soil Samples

Sample Ident	Mn	Fe	Ni	Cu	Co	Cr	Nickel	Copper
Analysis Unit	ppm	%	ppm	ppm	ppm	ppm	.01Mn+Fe	.01Mn+Fe
SO98-347	94	2.53	90	10.8	10	60	26	3.1
SO98-348	82	2.57	64	9.9	8	58	19	2.9
SO98-349	117	3.44	73	23.4	11	48	16	5.1
SO98-350	401	3.14	61	31.7	10	54	9	4.4
SO98-351	395	3.42	415	34.9	37	116	56	4.7
SO98-352	193	2.55	78	15.0	9	47	17	3.3
SO98-353	385	4.20	437	24.5	44	103	54	3.0
SO98-354	117	2.53	194	5.1	14	50	52	1.4
SO98-355	88	1.11	54	3.4	4	35	27	1.7
SO98-356	128	2.41	79	6.4	9	44	21	1.7
SO98-357	96	2.39	138	12.7	15	65	41	3.8
SO98-358	123	2.08	132	5.0	12	46	40	1.5
SO98-359	305	3.34	394	45.3	35	136	62	7.1
SO98-360	93	2.26	147	4.6	12	47	46	1.4
SO98-361	179	2.41	221	12.3	20	66	53	2.9
SO98-362	181	3.05	213	26.5	20	67	44	5.5
SO98-363	207	2.71	229	41.3	18	64	48	8.6
SO98-364	119	3.01	181	14.8	20	66	43	3.5
SO98-365	127	4.00	367	28.5	27	102	70	5.4
SO98-366	62	4.81	28	52.7	12	22	5	9.7
SO98-367	43	4.23	16	16.0	5	22	3	3.4
SO98-368	90	3.54	185	96.1	21	75	42	21.6
SO98-369	79	3.48	93	23.4	8	52	22	5.5
SO98-370	211	1.84	56	20.1	11	35	14	5.1
SO98-371	29	1.31	26	3.8	3	24	16	2.4
SO98-372	141	2.60	56	5.6	7	40	14	1.4
SO98-373	242	2.87	173	11.8	23	59	33	2.2
SO98-374	43	2.16	63	7.3	7	36	24	2.8
SO98-375	56	0.87	72	4.9	7	32	50	3.4
SO98-376	145	2.75	92	44.2	12	48	22	10.5
SO98-377	117	2.10	128	51.3	18	32	39	15.7
SO98-378	57	4.33	44	33.8	9	51	9	6.9
SO98-379	206	3.10	355	30.3	32	125	69	5.9
SO98-380	107	2.85	56	10.2	9	49	14	2.6
SO98-381	221	3.79	82	115.0	23	46	14	19.2
SO98-382	1010	4.24	653	126.0	45	144	46	8.8
SO98-383	210	2.93	232	32.3	18	77	46	6.4
SO98-384	133	3.00	288	29.4	24	78	67	6.8
SO98-385	274	3.77	196	57.6	26	82	30	8.8
SO98-386	229	4.30	398	39.5	26	136	60	6.0
SO98-387	392	4.22	136	50.5	23	112	17	6.2
SO98-388	245	2.06	153	30.5	14	66	34	6.8
SO98-389	209	2.76	246	9.6	20	83	51	2.0
SO98-390	203	1.69	212	18.5	11	88	57	5.0
SO98-391	147	1.95	77	10.2	8	36	23	3.0
SO98-392	1090	3.27	279	41.7	30	131	20	2.9
SO98-393	84	2.63	32	6.1	4	29	9	1.8
SO98-394	262	2.01	112	10.4	13	58	24	2.2
SO98-395	724	4.03	561	46.3	48	154	50	4.1
SO98-396	523	3.06	39	43.2	15	42	5	5.2
SO98-397	308	3.03	72	55.2	21	32	12	9.0
SO98-398	128	1.70	115	10.1	11	32	39	3.4

TABLE 1

Analytical Results for B Horizon Soil Samples

Sample Ident	Mn	Fe	Ni	Cu	Co	Cr	Nickel	Copper
Analysis Unit	ppm	%	ppm	ppm	ppm	ppm	.01Mn+Fe	.01Mn+Fe
SO98-399	146	2.05	139	13.7	14	57	40	3.9
SO98-400	195	3.37	123	20.1	14	64	23	3.8
SO98-401	120	2.94	48	52.8	15	30	12	12.8
SO98-402	596	2.93	90	129.0	25	13	10	14.5
SO98-403	39	2.83	10	17.5	4	19	3	5.4
SO98-404	756	6.20	62	132.0	29	54	5	9.6
SO98-405	57	4.42	38	8.9	9	41	8	1.8
SO98-406	144	3.15	40	15.7	10	29	9	3.4
SO98-407	89	3.84	149	19.9	18	100	32	4.2
SO98-408	89	4.12	68	26.2	16	82	14	5.2
SO98-409	91	3.84	142	24.8	9	49	30	5.2
SO98-410	22	1.36	16	22.0	7	17	10	13.9
SO98-411	43	4.52	29	26.7	7	111	6	5.4
SO98-412	100	2.42	130	140.0	32	61	38	40.9
SO98-413	125	1.36	91	28.5	9	33	35	10.9
SO98-414	744	2.81	166	43.9	46	91	16	4.3
SO98-415	1230	2.51	43	25.3	31	61	3	1.7
SO98-416	87	2.16	197	49.4	17	49	65	16.3
SO98-417	268	2.92	213	52.8	24	56	38	9.4
SO98-418	123	2.36	224	19.5	26	68	62	5.4
SO98-419	139	1.50	121	8.3	11	32	42	2.9
SO98-420	57	1.62	40	3.5	5	22	18	1.6
SO98-421	52	2.68	77	15.7	7	49	24	4.9
SO98-422	90	1.77	68	6.4	7	41	25	2.4
SO98-423	97	2.71	192	26.1	16	92	52	7.1
SO98-424	234	3.02	366	57.6	23	93	68	10.7
SO98-425	146	2.81	98	10.3	15	56	23	2.4
SO98-426	197	5.59	393	150.0	22	116	52	19.8
SO98-427	84	5.07	72	33.8	17	82	12	5.7
SO98-428	116	2.33	122	45.5	23	61	35	13.0
SO98-429	37	4.06	7	21.6	7	6	2	4.9
SO98-430	1090	6.19	16	18.3	36	25	1	1.1
SO98-431	43	3.33	28	34.1	8	42	7	9.1
SO98-432	42	3.14	45	71.6	10	38	13	20.1
SO98-433	183	1.88	118	58.5	26	70	32	15.8
SO98-434	78	3.47	81	23.8	13	84	19	5.6
SO98-435	137	4.80	27	59.2	10	65	4	9.6
SO98-436	225	4.68	43	58.6	13	45	6	8.5
SO98-437	610	3.98	273	50.8	30	109	27	5.0
SO98-438	368	2.98	386	40.9	23	134	58	6.1
SO98-439	104	2.83	112	10.5	10	65	29	2.7
SO98-440	800	3.41	729	66.9	43	182	64	5.9
SO98-441	725	2.17	335	27.3	20	96	36	2.9
SO98-442	130	4.26	164	6.0	12	80	29	1.1
SO98-443	63	2.01	67	3.6	8	33	25	1.4
SO98-444	56	1.11	15	14.8	4	18	9	8.9
SO98-445	160	2.14	136	13.4	12	53	36	3.6
SO98-446	57	2.46	39	6.4	5	30	13	2.1
SO98-447	260	3.61	107	41.9	15	71	17	6.7
SO98-448	296	2.33	28	9.3	4	51	5	1.8
SO98-449	82	3.60	14	7.1	3	44	3	1.6
SO98-450	116	3.27	23	11.7	5	69	5	2.6

TABLE 1

Analytical Results for B Horizon Soil Samples

Sample Ident	Mn	Fe	Ni	Cu	Co	Cr	Nickel	Copper
Analysis Unit	ppm	%	ppm	ppm	ppm	ppm	.01Mn+Fe	.01Mn+Fe
SO98-451	44	2.98	9	3.0	2	31	3	0.9
SO98-452	69	2.84	32	21.0	6	43	9	5.9
SO98-453	36	2.94	14	4.4	0	44	4	1.3
SO98-454	92	4.33	49	7.1	9	77	9	1.4
SO98-455	58	3.64	13	11.5	3	64	3	2.7
SO98-456	30	2.09	13	3.5	1	18	5	1.5
SO98-457	166	4.33	118	7.3	11	71	20	1.2
SO98-458	108	3.85	41	13.6	7	49	8	2.8
SO98-459	150	3.08	27	30.3	13	18	6	6.6
SO98-460	16	0.54	9	14.6	1	17	13	20.9
SO98-461	79	4.18	126	36.9	14	77	25	7.4
SO98-462	147	4.10	283	44.2	25	93	51	7.9
SO98-463	97	4.16	94	31.7	14	59	18	6.2
SO98-464	166	4.41	77	27.8	15	61	13	4.6
SO98-465	191	4.14	161	29.3	14	81	27	4.8
SO98-466	128	4.06	135	15.5	16	74	25	2.9
SO98-467	499	3.29	71	47.9	31	76	9	5.8
SO98-468	156	3.12	89	24.4	13	61	19	5.2
SO98-469	203	3.03	20	10.3	8	29	4	2.0
SO98-470	99	1.30	12	10.9	4	22	5	4.8
SO98-471	52	2.56	60	3.4	6	38	19	1.1
SO98-472	85	2.94	89	16.9	10	51	23	4.5
SO98-473	137	2.22	28	19.5	9	42	8	5.4
SO98-474	85	4.15	60	47.9	20	67	12	9.6
SO98-475	117	3.13	167	24.0	18	67	39	5.6
SO98-476	51	2.25	43	74.9	9	20	16	27.1
SO98-477	40	3.38	56	40.1	15	61	15	10.6
SO98-478	72	1.56	47	48.5	9	28	21	21.3
SO98-479	81	2.66	152	8.4	26	427	44	2.4
SO98-480	95	3.96	12	30.1	7	14	2	6.1
SO98-481	70	1.34	31	28.5	7	35	15	14.0
SO98-482	380	3.86	301	93.8	19	67	39	12.2
SO98-483	137	3.71	148	24.6	12	72	29	4.8
SO98-484	167	3.49	105	10.2	11	59	20	2.0
SO98-485	1090	5.91	959	159.0	72	345	57	9.5
SO98-486	324	4.57	235	22.3	27	112	30	2.9
SO98-487	220	2.87	319	39.3	22	89	63	7.8
SO98-488	1310	3.03	391	34.5	31	107	24	2.1
SO98-489	242	2.99	319	11.4	22	105	59	2.1
SO98-490	247	2.76	340	14.7	30	109	65	2.8
SO98-491	382	4.26	288	9.7	27	129	36	1.2
SO98-492	261	1.82	128	11.5	14	63	29	2.6
SO98-493	62	1.74	66	3.9	5	24	28	1.7
SO98-494	146	3.90	200	7.8	16	91	37	1.5
SO98-495	209	3.76	397	42.1	28	167	68	7.2
SO98-496	269	3.81	332	14.3	27	109	51	2.2
SO98-497	110	1.29	85	5.6	4	39	36	2.3
SO98-498	102	2.82	87	4.9	8	47	23	1.3
SO98-499	138	3.39	217	25.6	16	88	45	5.4
SO98-500	430	3.19	170	35.6	16	75	23	4.8
SO98-501	503	4.23	150	40.1	19	96	16	4.3
SO98-502	283	4.02	98	18.2	15	97	14	2.7

TABLE 1

Analytical Results for B Horizon Soil Samples

Sample Ident	Mn	Fe	Ni	Cu	Co	Cr	Nickel	Copper
Analysis Unit	ppm	%	ppm	ppm	ppm	ppm	.01Mn+Fe	.01Mn+Fe
SO98-503	205	2.46	135	17.4	13	42	30	3.9
SO98-504	658	1.43	7	9.7	11	11	1	1.2
SO98-505	149	3.03	67	75.3	19	17	15	16.7
SO98-506	59	3.48	17	14.3	6	17	4	3.5
SO98-507	86	4.24	39	15.3	5	53	8	3.0
SO98-508	49	3.29	5	19.7	7	5	1	5.2
SO98-509	31	3.19	11	9.4	5	32	3	2.7
SO98-510	100	4.23	33	32.1	12	42	6	6.1
SO98-511	3230	3.57	409	173.0	51	124	11	4.8
SO98-512	32	1.07	7	13.2	3	6	5	9.5
SO98-513	189	3.21	11	15.2	3	19	2	3.0
SO98-514	1720	4.04	248	74.9	21	61	12	3.5
SO98-515	149	4.13	124	31.1	13	69	22	5.5
SO98-516	180	3.33	118	41.9	15	41	23	8.2
SO98-517	286	2.02	109	6.0	8	35	22	1.2
SO98-518	38	2.12	17	2.7	2	21	7	1.1
SO98-519	31	0.88	22	3.3	2	22	18	2.8
SO98-520	78	2.40	108	6.0	6	45	34	1.9
SO98-521	109	2.21	107	21.6	12	31	32	6.5
SO98-522	79	1.72	137	71.7	13	31	55	28.6
SO98-523	46	2.38	10	28.8	2	18	4	10.1
SO98-524	34	3.99	68	23.8	13	65	16	5.5
SO98-525	242	4.44	112	16.6	14	55	16	2.4
SO98-526	70	2.95	87	25.8	23	28	24	7.1
SO98-527	106	3.95	111	71.8	20	69	22	14.3
SO98-528	103	3.49	19	57.8	11	9	4	12.8
SO98-529	88	4.91	68	58.7	22	53	12	10.1
SO98-530	112	3.16	72	20.3	7	55	17	4.7
SO98-531	1050	4.79	61	57.6	26	31	4	3.8
SO98-532	44	3.88	7	19.3	3	28	2	4.5
SO98-533	61	2.31	15	24.9	4	18	5	8.5
SO98-534	67	1.98	12	22.1	3	15	5	8.3
SO98-535	70	2.41	55	93.5	17	6	18	30.1
SO98-536	200	3.19	216	50.1	23	88	42	9.7
SO98-537	351	3.51	116	33.7	16	67	17	4.8
SO98-538	406	2.20	93	60.4	17	43	15	9.6
SO98-539	313	3.85	249	35.8	23	91	36	5.1
SO98-540	156	3.97	146	16.6	14	66	26	3.0
SO98-541	417	3.90	297	13.0	28	106	37	1.6
SO98-542	253	5.66	66	59.9	16	82	8	7.3
SO98-543	107	5.17	22	15.4	5	54	4	2.5
SO98-544	266	3.17	24	19.0	6	33	4	3.3
SO98-545	379	3.13	180	26.7	17	77	26	3.9
SO98-546	90	2.49	27	7.3	2	37	8	2.2
SO98-547	113	3.45	28	22.4	5	42	6	4.9
SO98-548	282	3.48	63	22.4	10	77	10	3.6
SO98-549	566	3.13	205	49.8	20	72	23	5.7
SO98-550	153	3.71	90	43.0	17	35	17	8.2
SO98-551	97	3.99	87	53.1	7	60	18	10.7
SO98-552	108	1.82	22	9.2	6	20	8	3.2
SO98-553	339	2.72	353	64.1	18	93	58	10.5
SO98-554	87	2.53	18	10.5	2	23	5	3.1

TABLE 1

Analytical Results for B Horizon Soil Samples

Sample Ident	Mn	Fe	Ni	Cu	Co	Cr	Nickel	Copper
Analysis Unit	ppm	%	ppm	ppm	ppm	ppm	.01Mn+Fe	.01Mn+Fe
SO98-555	2930	2.33	182	65.0	18	71	6	2.1
SO98-556	62	4.27	13	8.7	1	40	3	1.8
SO98-557	66	3.06	12	7.5	1	34	3	2.0
SO98-558	61	1.28	11	6.2	1	16	6	3.3
SO98-559	59	2.83	17	10.2	3	48	5	3.0
SO98-560	42	3.02	6	3.0	1	26	2	0.9
SO98-561	65	2.76	24	7.2	2	40	7	2.1
SO98-562	68	1.81	76	16.1	7	41	31	6.5
SO98-563	74	2.82	9	15.8	3	23	3	4.4
SO98-564	160	3.43	58	42.3	11	72	12	8.4
SO98-565	70	4.82	10	30.3	3	31	2	5.5
SO98-566	30	2.50	7	6.4	1	32	3	2.3
SO98-567	323	4.21	40	32.6	16	56	5	4.4
SO98-568	88	1.65	30	11.1	4	40	12	4.4
SO98-569	108	1.97	26	6.6	2	58	9	2.2
SO98-570	32	1.73	7	3.2	1	28	3	1.6
SO98-571	136	2.88	13	6.3	2	42	3	1.5
SO98-572	65	3.03	12	3.8	2	33	3	1.0
SO98-573	92	2.40	47	21.6	4	42	14	6.5
SO98-574	295	3.27	38	19.2	8	63	6	3.1
SO98-575	219	2.11	190	87.9	12	66	44	20.4
SO98-576	66	1.52	38	16.8	3	29	17	7.7
SO98-577	120	1.73	84	24.5	6	44	29	8.4
SO98-578	114	2.60	153	34.4	7	47	41	9.2
SO98-579	1920	4.58	185	66.2	26	102	8	2.8
SO98-580	486	2.79	123	21.1	13	60	16	2.8
SO98-581	354	2.89	236	38.0	21	59	37	5.9
SO98-582	220	3.72	222	63.5	19	82	38	10.7
SO98-583	532	3.27	308	35.9	30	109	36	4.2
SO98-584	116	3.49	134	20.2	10	62	29	4.3
SO98-585	128	2.78	39	63.7	12	23	10	15.7
SO98-586	438	3.74	233	43.7	29	88	29	5.4
SO98-587	474	4.67	17	27.1	14	25	2	2.9
SO98-588	55	0.63	38	1.7	2	25	32	1.4
SO98-589	59	1.27	43	6.5	4	19	23	3.5
SO98-590	164	5.05	43	53.5	11	45	6	8.0
SO98-591	172	3.03	224	12.8	17	93	47	2.7
SO98-592	247	3.62	197	39.5	18	95	32	6.5
SO98-593	41	5.48	14	35.3	2	39	2	6.0
SO98-594	71	5.77	51	52.4	6	54	8	8.1
SO98-595	42	3.74	15	17.1	5	16	4	4.1
SO98-596	43	4.22	11	28.5	4	18	2	6.1
SO98-597	56	3.33	34	27.7	6	23	9	7.1
SO98-598	41	3.05	9	4.4	1	40	3	1.3
SO98-599	109	2.66	15	8.9	2	42	4	2.4

TABLE 1

Analytical Results for B Horizon Soil Samples

Sample Ident	Mn	Fe	Ni	Cu	Co	Cr	Nickel	Copper
Analysis Unit	ppm	%	ppm	ppm	ppm	ppm	.01Mn+Fe	.01Mn+Fe
Follow-up Soil Survey								
SO98-600	191	5.10	261	52.3	21	147	37	7.5
SO98-601	139	3.42	185	41.6	18	49	38	8.6
SO98-602	608	3.78	274	27.8	31	128	28	2.8
SO98-603	516	3.50	204	51.9	25	83	24	6.0
SO98-604	290	3.87	25	14.1	7	25	4	2.1
SO98-605	191	3.40	56	12.3	10	51	11	2.3
SO98-606	2650	4.79	260	82.0	26	63	8	2.6
SO98-607	191	3.16	80	14.2	9	63	16	2.8
SO98-608	148	1.62	153	15.9	15	59	49	5.1
SO98-609	1340	5.51	513	40.0	61	272	27	2.1
SO98-610	2530	4.57	890	79.2	68	251	30	2.7
SO98-611	537	2.81	504	84.1	32	148	62	10.3
SO98-612	250	1.70	226	31.3	13	73	54	7.5
SO98-613	136	1.77	210	21.6	15	82	67	6.9
SO98-614	58	2.43	42	5.0	5	33	14	1.7
SO98-615	1500	3.30	676	96.8	24	149	37	5.3
SO98-616	757	4.59	532	50.8	39	218	44	4.2
SO98-617	493	3.52	351	45.7	24	114	42	5.4
SO98-618	242	2.57	214	91.1	23	35	43	18.3
SO98-619	535	2.82	206	29.2	20	74	25	3.6
SO98-620	2160	3.50	245	34.0	33	108	10	1.4
SO98-621	274	4.01	202	24.2	23	120	30	3.6
SO98-622	525	3.62	288	28.3	33	147	32	3.2
SO98-623	1200	5.96	734	62.1	84	337	41	3.5
SO98-624	178	3.81	103	11.7	14	94	18	2.1
SO98-625	143	4.26	119	18.0	11	104	21	3.2
SO98-626	54	4.26	32	8.5	5	43	7	1.8
SO98-627	23	1.00	11	3.7	3	12	9	3.0
SO98-628	1450	3.02	260	25.6	37	111	15	1.5
SO98-629	415	3.14	370	41.5	26	114	51	5.7
SO98-630	1150	3.07	358	50.6	24	113	25	3.5
SO98-631	289	3.55	46	8.1	10	52	7	1.3
SO98-632	419	3.19	64	28.1	12	41	9	3.8
SO98-633	312	4.09	235	159.0	20	67	33	22.1
SO98-634	385	3.52	213	30.7	22	100	29	4.2
SO98-635	248	4.76	95	33.3	14	67	13	4.6
SO98-636	364	3.02	18	24.8	6	33	3	3.7
SO98-637	1790	2.94	362	45.7	23	111	17	2.2
SO98-638	574	3.27	168	25.2	21	88	19	2.8
SO98-639	92	3.53	66	25.0	8	52	15	5.6
SO98-640	90	3.05	231	23.8	16	88	58	6.0
SO98-641	78	3.96	125	21.6	13	55	26	4.6
SO98-642	186	2.63	52	16.3	10	40	12	3.6
SO98-643	100	4.47	64	73.3	18	46	12	13.4
SO98-644	649	6.31	193	75.0	35	46	15	5.9
SO98-645	35	3.18	40	3.4	4	37	11	1.0
SO98-646	78	2.66	100	26.3	11	62	29	7.6
SO98-647	80	2.02	169	11.7	12	72	60	4.1
SO98-648	399	3.18	104	54.2	26	26	15	7.6
SO98-649	40	4.39	41	14.5	9	57	9	3.0
SO98-650	63	3.93	10	17.2	5	15	2	3.8

TABLE 1

Analytical Results for B Horizon Soil Samples

Sample Ident	Mn	Fe	Ni	Cu	Co	Cr	Nickel	Copper
Analysis Unit	ppm	%	ppm	ppm	ppm	ppm	.01Mn+Fe	.01Mn+Fe
SO98-651	42	3.51	18	37.4	6	20	5	9.5
SO98-652	252	4.72	236	94.3	23	117	33	13.0
SO98-653	128	3.59	144	9.0	16	72	30	1.8
SO98-654	114	3.13	260	14.6	19	104	61	3.4
SO98-655	71	4.11	38	24.2	7	48	8	5.0
SO98-656	70	3.31	18	8.8	6	40	4	2.2
Orientation Soil Survey								
SO98-001	350	3.90	148	58.1	22	79	20	7.9
SO98-002	1080	9.73	253	236.0	58	15	12	11.5
SO98-003	519	8.49	113	195.0	26	12	8	14.3
SO98-004	114	2.83	32	33.4	11	24	8	8.4
SO98-005	120	3.43	30	50.2	11	35	6	10.8
SO98-006	246	4.54	45	44.7	17	86	6	6.4
SO98-007	80	1.61	8	6.2	2	14	3	2.6
SO98-008	171	2.99	24	22.6	8	29	5	4.8
SO98-009	176	3.93	23	19.1	8	30	4	3.4
SO98-010	199	4.88	41	30.7	14	77	6	4.5
SO98-011	122	1.99	18	11.9	6	22	6	3.7
SO98-012	761	3.45	30	9.8	16	46	3	0.9
SO98-013	130	2.07	19	14.0	7	27	6	4.2
SO98-014	107	1.94	59	112.0	31	20	20	37.2
SO98-015	407	5.79	15	77.1	11	38	2	7.8
SO98-016	105	3.59	13	12.1	6	43	3	2.6
SO98-017	130	1.97	40	41.4	9	23	12	12.7
SO98-018	432	1.94	11	13.4	5	23	2	2.1
SO98-019	231	8.11	14	175.0	8	88	1	16.8
SO98-020	215	3.88	52	115.0	18	29	9	19.1
SO98-021	490	5.26	44	150.0	20	47	4	14.8

Spring Lake

Hunt Camp

beaver dam

claim boundary

Symbols

- B horizon soil sample location and number (e.g. 436)
- survey grid line
- atv trail

N

0m 50 100 200

1: 5000

MINING CLAIM SO 1077361
Lount Township, Ontario

SOIL GEOCHEMICAL SURVEY
Sample Locations

By: G. Vandevalk	Date: Dec. 1998
OPAP File Number: OP98–011	Figure: 8a

Spring Lake

Hunt Camp

Area A

Area B

Area C

L-9N
L-8N
L-7N
L-6N
L-5A
L-5N
L-4A
L-4N
L-3N
L-2N
L-1N
L-0
L-1S
L-2S

0E 100E 200E 300E 400E 500E 600E 700E 800E 900E 1000E 1100E 1200E 1300E

500S

beaver dam

N

195 Az.
208 Az.
150 Az.

Ice Directions
in Lount Twp.
(after Satterly, 1955)

claim boundary

Nickel
in B horizon soils

ppm	Thresholds
123–272	elevated background (≧ 70th %-ile)
273–346	possibly anomalous (≧ 90th %-ile)
347–397	anomalous (≧ 95th %-ile)
> 397	highly anomalous (≧ 98th %-ile)
959	MAXIMUM VALUE

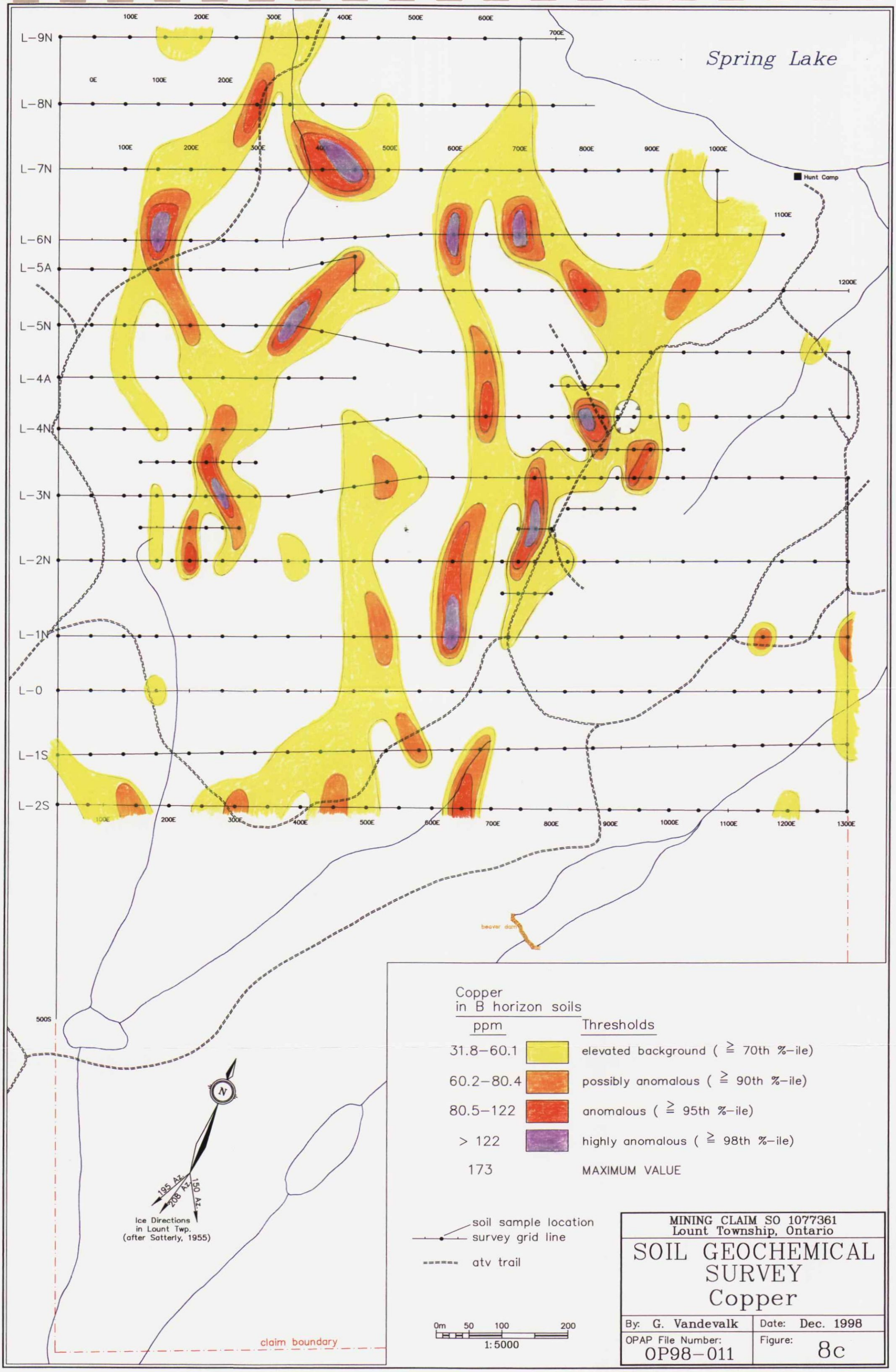
soil sample location
survey grid line
atv trail

0m 50 100 200
1:5000

MINING CLAIM SO 1077361
Lount Township, Ontario

SOIL GEOCHEMICAL SURVEY
Nickel

By: G. Vandevalk	Date: Dec. 1998
OPAP File Number: OP98-011	Figure: 8b


Spring Lake
Hunt Camp
L-9N
L-8N
L-7N
L-6N
L-5A
L-5N
L-4A
L-4N
L-3N
L-2N
L-1N
L-0
L-1S
L-2S
100E
200E
300E
400E
500E
600E
700E
800E
900E
1000E
1100E
1200E
1300E
500S
beaver dam
N
195 Az.
208 Az.
150 Az.
Ice Directions
in Lount Twp.
(after Satterly, 1955)
claim boundary
Copper
in B horizon soils
ppm
Thresholds
31.8–60.1
elevated background (≧ 70th %-ile)
60.2–80.4
possibly anomalous (≧ 90th %-ile)
80.5–122
anomalous (≧ 95th %-ile)
> 122
highly anomalous (≧ 98th %-ile)
173
MAXIMUM VALUE
soil sample location
survey grid line
atv trail
0m 50 100 200
1:5000
MINING CLAIM SO 1077361
Lount Township, Ontario
SOIL GEOCHEMICAL SURVEY
Copper
By: G. Vandevalk
Date: Dec. 1998
OPAP File Number:
OP98-011
Figure:
8c

Spring Lake

Hunt Camp

beaver dam

L-9N
L-8N
L-7N
L-6N
L-5A
L-5N
L-4A
L-4N
L-3N
L-2N
L-1N
L-0
L-1S
L-2S

0E 100E 200E 300E 400E 500E 600E 700E 800E 900E 1000E 1100E 1200E 1300E

500S

N

195 Az.
208 Az.
150 Az.

Ice Directions
in Lount Twp.
(after Satterly, 1955)

claim boundary

Cobalt
in B horizon soils

ppm	Thresholds
15–24	elevated background (≧ 70th %–ile)
25–28	possibly anomalous (≧ 90th %–ile)
29–41	anomalous (≧ 95th %–ile)
> 41	highly anomalous (≧ 98th %–ile)
97	MAXIMUM VALUE

soil sample location
survey grid line
atv trail

0m 50 100 200
1:5000

MINING CLAIM SO 1077361
Lount Township, Ontario

SOIL GEOCHEMICAL SURVEY
Cobalt

By: G. Vandevalk	Date: Dec. 1998
OPAP File Number: OP98–011	Figure: 8d

Spring Lake

Hunt Camp

beaver dam

claim boundary

Ice Directions
in Lount Twp.
(after Satterly, 1955)

195 Az.
208 Az.
150 Az.

Chromium
in B horizon soils

ppm	Thresholds
60–93	elevated background (≧ 70th %–ile)
94–108	possibly anomalous (≧ 90th %–ile)
109–129	anomalous (≧ 95th %–ile)
> 129	highly anomalous (≧ 98th %–ile)
427	MAXIMUM VALUE

soil sample location
survey grid line
atv trail

0m 50 100 200
1:5000

MINING CLAIM SO 1077361
Lount Township, Ontario

SOIL GEOCHEMICAL SURVEY
Chromium

By: G. Vandevalk	Date: Dec. 1998
OPAP File Number: OP98–011	Figure: 8e

Spring Lake

Hunt Camp

L-9N
L-8N
L-7N
L-6N
L-5A
L-5N
L-4A
L-4N
L-3N
L-2N
L-1N
L-0
L-1S
L-2S

0E 100E 200E 300E 400E 500E 600E 700E 800E 900E 1000E 1100E 1200E 1300E

500S

beaver dam

Ice Directions
in Lount Twp.
(after Satterly, 1955)

195 Az.
208 Az.
150 Az.

N

claim boundary

Manganese
in B horizon soils

ppm	Thresholds
163–485	elevated background (≧ 70th %-ile)
486–973	possibly anomalous (≧ 90th %-ile)
974–1613	anomalous (≧ 95th %-ile)
> 1613	highly anomalous (≧ 98th %-ile)
3230	MAXIMUM VALUE

soil sample location
survey grid line
atv trail

0m 50 100 200
1:5000

MINING CLAIM SO 1077361
Lount Township, Ontario

SOIL GEOCHEMICAL SURVEY
Manganese

By: G. Vandevalk	Date: Dec. 1998
OPAP File Number: OP98-011	Figure: 8f

Spring Lake

Hunt Camp

beaver dam

Ice Directions
in Lount Twp.
(after Satterly, 1955)

195 Az.
208 Az.
150 Az.

claim boundary

Iron
in B horizon soils

%	Thresholds
3.42–4.16	elevated background (≧ 70th %–ile)
4.17–4.66	possibly anomalous (≧ 90th %–ile)
4.67–5.32	anomalous (≧ 95th %–ile)
> 5.32	highly anomalous (≧ 98th %–ile)
6.20	MAXIMUM VALUE

soil sample location
survey grid line
atv trail

0m 50 100 200
1:5000

MINING CLAIM SO 1077361
Lount Township, Ontario

SOIL GEOCHEMICAL SURVEY
Iron

By: G. Vandevalk	Date: Dec. 1998
OPAP File Number: OP98–011	Figure: 8g

Spring Lake

Hunt Camp

Area C

Area B

Area A

beaver dam

L-9N L-8N L-7N L-6N L-5A L-5N L-4A L-4N L-3N L-2N L-1N L-0 L-1S L-2S

100E 200E 300E 400E 500E 600E 700E 800E 900E 1000E 1100E 1200E 1300E

500S

N

195 Az.
208 Az.
150 Az.

Ice Directions
in Lount Twp.
(after Satterly, 1955)

claim boundary

Ni/(0.01mn+Fe)
in B horizon soils

	Thresholds
27–46	elevated background (≧ 70th %-ile)
47–55	possibly anomalous (≧ 90th %-ile)
56–63	anomalous (≧ 95th %-ile)
> 63	highly anomalous (≧ 98th %-ile)
70	MAXIMUM VALUE

soil sample location
survey grid line
atv trail

0m 50 100 200
1:5000

MINING CLAIM SO 1077361
Lount Township, Ontario

SOIL GEOCHEMICAL SURVEY
Ni/(0.01Mn+Fe)

By: G. Vandevalk	Date: Dec. 1998
OPAP File Number: OP98-011	Figure: 8h

Spring Lake

Hunt Camp

beaver dam

claim boundary

Ice Directions
in Lount Twp.
(after Satterly, 1955)

195 Az.
208 Az.
150 Az.

Cu/(0.01mn+Fe)
in B horizon soils

	Thresholds
5.3–10.1	elevated background (≧ 70th %–ile)
10.2–14.4	possibly anomalous (≧ 90th %–ile)
14.5–20.1	anomalous (≧ 95th %–ile)
> 20.1	highly anomalous (≧ 98th %–ile)
40.9	MAXIMUM VALUE

soil sample location
survey grid line
atv trail

0m 50 100 200
1:5000

MINING CLAIM SO 1077361
Lount Township, Ontario

SOIL GEOCHEMICAL SURVEY
Cu/(0.01Mn+Fe)

By: G. Vandevalk	Date: Dec. 1998
OPAP File Number: OP98–011	Figure: 8i

MAGNETOMETER SURVEY

A total of 17.7 line kilometres of magnetometer survey were carried out over the entire main survey grid, using a **GeoMetrics G 816 Magnetometer**. On August 22, an initial attempt to begin the survey was thwarted by what was presumed to be an intense magnetic storm, which caused wildly fluctuating readings at every station. Readings varied by greater than 1000nT at some stations, necessitating a deferral of the survey. The survey was recommenced several weeks later, following the successful completion of the orientation magnetometer survey, and was completed over 2½ days.

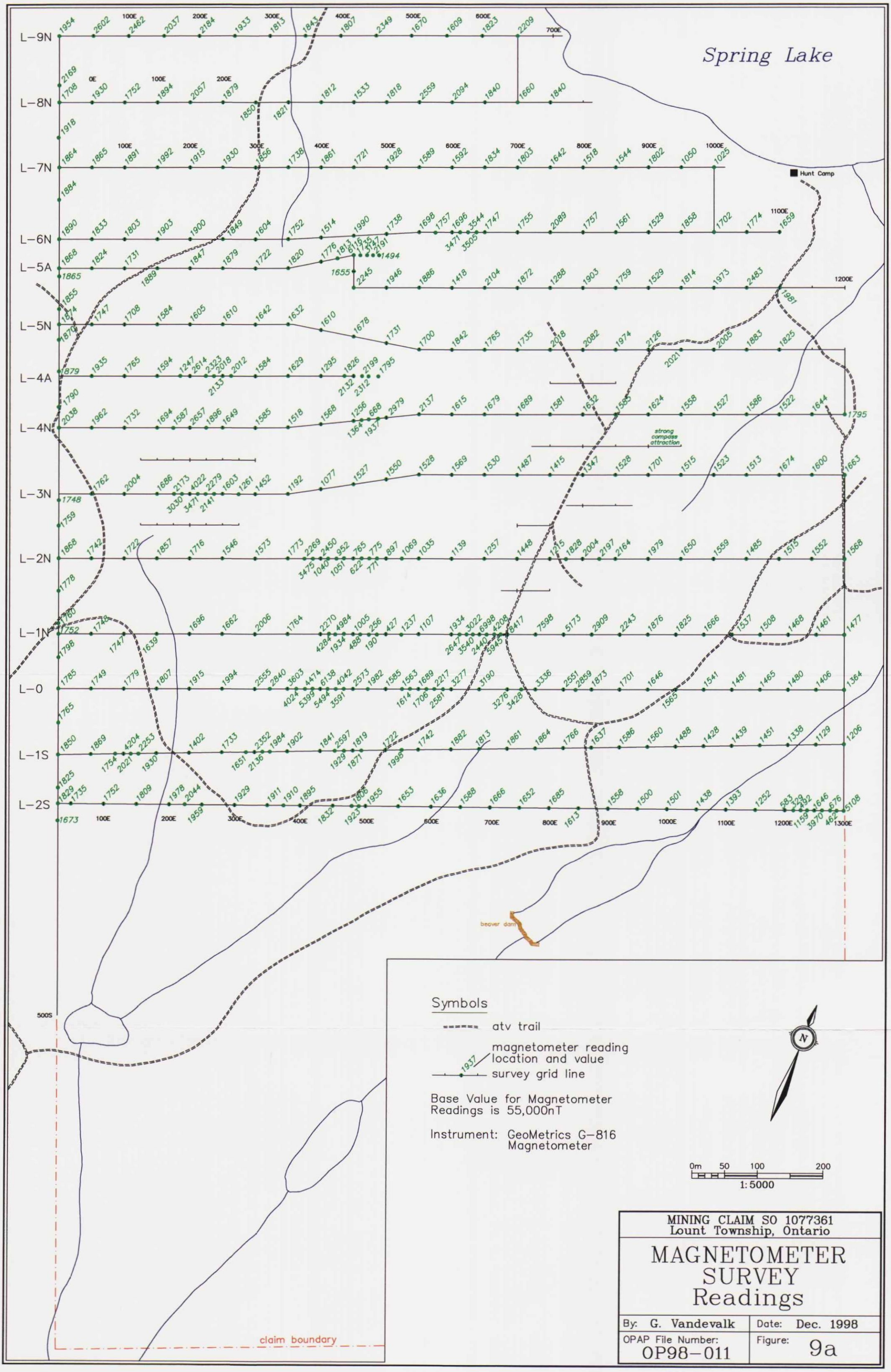
Base values for the survey were established at each 50-metre station along the base line by surveying it twice, correcting each reading for the diurnal magnetic drift, then averaging the corrected readings at each station. The resulting base values were subsequently used to correct the readings over the remainder of the grid, for both diurnal and day-to-day magnetic drift. Readings were taken at each 50-metre station along the lines until significant changes in values were observed between two adjacent stations. Those portions of the lines, over which large changes in readings occurred, were re-surveyed at 25 or 12.5-metre spacing so that sufficient detailing of magnetic anomalies could be obtained. The normal 50-metre reading intervals were resumed after the apparent effects of the magnetic anomalies were passed through.

A base value of 55,000 nT was subtracted from each reading to simplify the plotting of the corrected values. The corrected values for each station are shown on Figure 9a, plotted to a scale of 1:5,000. Figure 9b shows the contoured corrected values of the total magnetic field for the entire survey area.

PROSPECTING

It was initially proposed to carryout reconnaissance prospecting in the course of establishing the grid and conducting the other surveys. This tuned out to be impractical, as each separate task required considerable concentration and detailed field book entries. Consequently, prospecting was carried out in conjunction with the follow-up soil sampling and confined mainly to those areas. A significant exception to this was the discovery of a new showing of very gossanous, magnetite bearing, fine to medium-grained metagabbro with disseminated sulphides. The **Treefrog Showing** is associated with a small, but very strong magnetic anomaly, which caused a severe compass deviation. It was encountered along Line-5A at 450mE while correcting the errant line (Figures 7 and 9b). Five rock samples (MA 98-R-001 to 005) were collected from the Treefrog Showing and were sent to XRAL Labs in Toronto for preparation and analysis for Au, Pt and Pd by FA30/1 method and for 31 trace elements by ICP70 method. The only encouraging analytical result obtained from a rock sample at the Treefrog Showing was 403 ppm Cu. Analysis of the samples also returned up to 11.0% Fe.

In other areas, prospecting confirmed the presence of medium to coarse-grained metagabbroic rocks with minor disseminated sulphides. Black, pyroxene and olivine bearing, medium to very coarse-grained ultramafic rocks were found to occur commonly in the area. The ultramafic rocks (pyroxenite) are variably magnetic owing to the presence of magnetite that is sometimes



MINING CLAIM SO 1077361
Lount Township, Ontario

MAGNETOMETER SURVEY Readings

By: G. Vandevalk	Date: Dec. 1998
OPAP File Number: OP98-011	Figure: 9a

Spring Lake

Hunt Camp

claim boundary

Symbols

atv trail

magnetometer reading location

survey grid line

Base Value for Contours of Total Magnetic Field is 55,000nT

Instrument: GeoMetrics G-816 Magnetometer

Contour Intervals

1,000nT

500nT

100nT

50nT

0m 50 100 200

1: 5000

2.19526

MINING CLAIM SO 1077361
Lount Township, Ontario

MAGNETOMETER SURVEY
Contours-Total Field

By: G. Vandevalk	Date: Dec. 1998
OPAP File Number: OP98-011	Figure: 9b

interspersed throughout, or occurs as small seams within the rock. The magnetometer survey probably maps the ultramafic horizons fairly accurately (Figure 9b).

An additional 12 rock samples were collected (for a total of 17) and were also sent for analysis. The locations of all rock samples collected and significant geochemical analyses are shown on Figure 7. Complete analytical results for all rock samples (MA 98-R-001 to 017) are provided in Appendix III.

DISCUSSION OF RESULTS

Two deposit models were considered as possible targets for the Summer 1998 Exploration Program over mining claim 1077361:

1. Mafic (metagabbro or mafic gneiss) hosted Ni, Cu, Co magmatic sulphides
2. Ultramafic hosted Ni, Cu, Co (Cr, Pt, Pd) magmatic sulphides

Both types could possibly have been intruded as dykes, either crosscutting or parallel to stratigraphy, or intruded as larger bodies or masses.

Comparison of Orientation Survey Results with Main Survey Results

The orientation surveys were conducted over a known, sub-economic (?) showing of a "Type 2" deposit, intruded into the surrounding mafic gneisses as a small (?) "plug" (McClean, 1992).

Magnetometer Surveys

The orientation magnetometer survey over the South Claim Ni-Cu Showing demonstrated that potential targets in the main survey area could have a very strong, sharply increasing magnetic response, followed by a strong negative dipole effect (Figure 6a). The magnetic signature of the South Claim Showing is very localized. Several similar magnetic anomalies of varying size were found to occur in the main survey area (Figure 9b). Two extensive, very high magnitude anomalies (up to 7000nT over background), centered at Line 0 - Station 400E and Line 1N - Station 700E, are separated by a broad, very low magnitude negative anomaly. The combined anomalies cover an area of approximately 600 metres by 300 metres and together, represent an intriguing anomaly that may require closer scrutiny. Rock sample MA 98-R-016 which returned an analysis of 93 ppm Ni, was taken from an outcrop of rusty, medium-grained pyroxenite, occurring along the northern flank of the eastern lobe of this anomaly (Figure 7).

Soil Geochemical Surveys

The orientation soil geochemical survey over the South Claim Ni-Cu Showing (Figure 6b) demonstrated that the presence of anomalous levels of Cu, Co and Fe, but not necessarily Ni, might indicate potential targets in the main survey area. Only moderately elevated background levels of Ni were found to occur in B-horizon soils, immediately down slope of the South Claim showing. This is interesting in that grab samples of rock, obtained from the rubble dump around the pit exposures of the showing, had a Ni to Cu content ratio of roughly 2 to 1, possibly indicating that the Cu minerals of that showing are more geochemically mobile than its Ni minerals. The presence of highly anomalous concentrations of Ni in soils (up to 959 ppm) in

several areas of the main survey area is therefore considered to be very encouraging (Figure 8b). Conversely, the highest level of Cu concentration in soils obtained from the main survey area (173 ppm) was only about ¾ of that in the soil over the South Claim Showing (236 ppm). Overall Cu concentrations in soils in the main survey area were also considerably lower than the orientation survey area (Figure 8c).

The presence of high Mn and very high Fe levels in soil, proximal to the known mineralization in the orientation survey area, significantly complicates the issue of base metal scavenging resulting in spuriously enhanced anomalies. Rock samples from the South Claim Showing returned analyses of up to 10.4% Fe and 883 ppm Mn, while rock samples from the Treefrog Showing, in the main survey area, returned analyses of up to 11% Fe and 1580 ppm Mn. This indicates that high levels of Fe (magnetite) are associated with the known base metal mineralization and that elevated levels of Mn may be associated with mineralization in the project area. At the South Claim Showing, the levels of Mn and Fe in soil are in line with what could be expected based on the Mn and Fe levels in the broken rock of the rubble pile, yet there appears to be no unusual or corresponding enhancement in base metal values. It is therefore assumed that the coincidence of high Mn and/or Fe with base metal soil geochemical anomalies cannot be the sole determining factor in ruling out base metal anomalies as spurious. It is further suggested that high Fe in soils may be a positive indicator that a coincident base metal soil anomaly has a mineralized bedrock source.

Main Survey Area

Soil Geochemical Trends

Figures 8b to 8g and Table 1 illustrate the following observations about the overall soil geochemical trends of the main survey area:

- a very strong correlation exists between Ni, Cr and, to a lesser extent, Co
- Ni, Cr and, to a lesser extent, Co are present in discernible trends
- distribution of higher levels of Cu, Mn and Fe is sporadic and discernible trends are less apparent
- the Ni, Cr and Co trends occur down-slope of, and encircle the highest topographic elevations (Figure 7)
- the strongest Ni, Cr and Co trend (Area A – Figure 8b) strikes sub-parallel to an apparent topographic linear (Figure 7) and possible fault

Treefrog Showing

The magnetic anomaly associated with the Treefrog Showing, while very strong, is very localized but may to be part of a longer trend (Figures 7 and 9b). Elevated background Fe and possibly anomalous Cu in soils surround the Treefrog Showing. Only modest values of Cu (up to 403 ppm) and no significant Ni, Cr or Co were returned in analyses of rock samples from this showing. The Treefrog showing appears to have limited size and economic potential.

Area A

Area A (Figures 8b, d, e & g) represents the most intriguing soil geochemical anomaly

encountered in the Summer 1998 exploration program. The Ni, Cr, Co & Fe anomaly is pronounced by a very large and continuous, anomalous core that extends across 175 metres at its widest point along Line-3N, and along more than 300 metres of strike length. The highest Ni value of the soil geochemical survey was returned from sample number SO98-485 (959 ppm), located within the anomalous core. An anomalous trend adjacent to, and northeast of the core anomaly, may represent a possible down-drainage geochemical plume, and further extends the overall dimensions of the anomalous area dramatically. Area A lies within the strong NNW oriented geochemical trend, previously described in the **Geochemical Trends** discussion. Figure 8f illustrates an apparently strong Mn correlation with the trend of the Area A anomaly. The core of the anomaly becomes discontinuous and significantly diminished in strength after subjection to Mn/Fe filtering (Figure 8h), however, the adjacent anomalous "plume" emerges from the filtering as a sharply defined, highly anomalous trend.

The core of the anomaly trends along a magnetic "trough" adjacent to the northern flank of the eastern lobe of the extensive magnetic anomaly described previously in the **Magnetometer Surveys** discussion (Figure 9b). During the course of follow-up soil sampling, a strong compass attraction was observed at Line 3+50N – 925mE (Figure 9a), which coincides with the "plume" area of the anomaly. This feature was not detected by the original magnetometer survey.

The association of Ni and Cr in the soil geochemical trends is very strong in the Area A anomaly, which indicates that the source of the anomaly may possibly be in ultramafic rocks. It was therefore deemed prudent to check 11 soil samples that yielded the highest Ni and Cr for possible platinum and palladium association. No significant Pt or Pd was detected (Appendix I).

Problematic for the interpretation of the significance of the Area A anomaly is the fact that it occurs partly in glacial till which incorporates rounded cobbles and variably sized boulders. Some boulders as large as several metres in diameter lie on the surface. Three possible interpretations are considered for the existence of the anomaly:

1. The anomaly may be a false anomaly resulting from Mn/Fe scavenging of background base metal values from the underlying mafic intrusive rocks. The porous till cover would allow for the free movement of groundwater through it, where an active geochemical system may be in place.
2. The anomaly may have a genuine Ni and Cr (+Co) mineralized bedrock source that may also have high Fe and Mn. Depending on the thickness of the till cover, the same rationale for the geochemical mechanism as in the first interpretation, would apply in this case.
3. The source of the anomaly may be a dispersion train of mineralized boulders from an up ice mineralized bedrock source. Figures 8b to i show the interpreted ice directions for Lount Township (from Satterly, 1955). The area immediately "up ice", to the north of the anomaly has a relatively thin soil cover over scattered exposures of bedrock, and has a sizeable, moderately strong magnetic signature (Figure 9b). Despite the presence of rounded boulders within the till, which suggests a longer distance of till transport, the shape and strongly defined nature of the anomaly would suggest a nearby source under this interpretation for the existence of the anomaly.

At this stage in the exploration of the property, it is impossible to rule out, or favour, any of the different interpretations that might explain the presence of the Area A anomaly.

Area B

Area B (Figure 8b) was chosen for follow-up sampling based on initially encouraging soil geochemical results and their direct correlation with a strong, linear, 300 metre long magnetic anomaly (Figure 9b). When only the raw data is considered, follow-up soil sampling resulted in the anomaly becoming discontinuous and thus, downgraded. The results of Mn/Fe filtering of the Ni data, however, significantly re-enhances the anomaly (Figure 8h). The results of prospecting in this area were only modest. A sample of pyroxenite from Area B (MA 98-R-015) returned an analysis of 257 ppm Cr and a sample of medium grained metagabbro with disseminated sulphides (MA 98-R-009) returned 171 ppm Cu (Figure 7).

Area C

The Area C soil geochemical anomaly (Figure 8b, d & e) is marked by several anomalous and highly anomalous Ni, Cr & Co trends which are enveloped by a broad area of elevated background values. The soil at the southern edge of the area forms a relatively thin cover over widespread outcroppings of metagabbroic rocks, and gradually thickens down-slope to Spring Lake. The source of the anomalous values in soil appears to be the topographically high area with thin soil cover, between Lines 6N and 7N, from 400mE to 700mE. The anomalous trends may define down-slope "metal rich" plumes that might be sourced by buried mineralization near the top of the slope. Mn and Fe concentrations in soil are not high in Area C (Figures 8f & g), and the Ni data survives Mn/Fe filtering completely intact (Figure 8h), giving validity to the genuineness of the anomalies. There is considerable fluctuation in magnetic relief in this area (Figure 9b) suggesting a complex bedrock makeup. Limited prospecting in this area failed to encounter any visually obvious bedrock source for the Ni, Cr & Co soil geochemical anomalies. The close proximity of Area C to Spring Lake diminishes its attractiveness as a follow-up target because of environmental considerations. Nonetheless, the discovery of a mineralized zone in Area C would significantly enhance the attractiveness and potential for discovery in other, less environmentally sensitive areas of the project area.

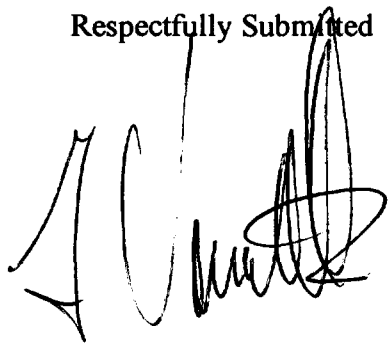
CONCLUSION AND RECOMMENDATIONS

The Summer 1998 exploration program over Mining Claim 1077361 (The North Block) was designed to test for the possible existence of significant Ni, Cu, Co (+Cr +Pt +Pd) magmatic sulphide deposits. The results indicate that this potential has not been eliminated and that support for such potential has been strengthened.

The program was successful in identifying several strong Ni + Cr + Co soil geochemical anomalies and several strong, potentially large magnetic bodies. The association of the Area A soil geochemical anomaly with the very large and strong magnetic anomaly to the south is particularly intriguing and requires greater scrutiny. Although prospecting failed to uncover any apparent mineralized sources for the soil geochemical anomalies, it can be concluded that the area covered by the Summer 1998 surveys probably contains the source(s) of the GSC Nickel anomaly in Spring Lake sediments. Follow-up prospecting in this area confirmed the presence of ultramafic and metagabbroic rocks that have the potential to host magmatic sulphides.

The results to date warrant the continuation of investigations directed toward the discovery of a buried massive sulphide body or mineralized horizon within the property. Specifically, a ground EM survey should be carried out over the entire survey area to test for conductive bedrock horizons that may be associated with the known soil geochemical and magnetic anomalies. Additional prospecting, geological mapping and rock geochemical sampling should be conducted in conjunction with the EM survey. The up-ice ridge, north of the Area A anomaly should be prospected and mapped in greater detail. Several overburden pits should be excavated in the Area A soil geochemical anomaly, to determine the thickness and nature of the cover and to check for favourable gabbroic or ultramafic bedrock. A more detailed follow-up magnetometer survey should be carried out over the Area A anomaly and adjacent areas. The Treefrog Showing should be blasted to obtain fresh samples for analysis.

Respectfully Submitted



G. Vandevalk
December, 1998

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Appendix I

Analytical Results for All B-Horizon Soil Samples Collected During the Summer 1998 Program

XRAL Laboratories
A Division of SGS Canada Inc.

1885 Leslie Street
Don Mills, Ontario
Canada M3B 3J4
Telephone (416) 445-5755
Fax (416) 445-4152

CERTIFICATE OF ANALYSIS

Work Order: 051993

To: **B-MAX Ltd.**
Attn: **Gord Vandevalk**
Brothers Minerals and Exploration
R.R.#3 Milton
HALTON HILLS
ONTARIO, CANADA L9T 2X7

Date : 02/09/98

Copy 1 to :

Copy 2 to :

P.O. No. :
Project No. : MA98
No. of Samples : 51 SOIL & S. SEDIMENTS
Date Submitted : 25/08/98
Report Comprises : Cover Sheet plus
Pages 1 to 4

Distribution of unused material:
Pulps: Pulps dumped after 90 days of reporting.
Rejects: Rejects dumped after 30 days of reporting.

Certified By :

Dr. Hugh de Souza, General Manager
XRAL Laboratories

ISO 9002 REGISTERED

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result
*INF	= Composition of this sample makes detection impossible by this method		

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

XRAL Laboratories
A Division of SGS Canada Inc.

Work Order: 051993 **Date:** 02/09/98 **FINAL**

Element.	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01	1	1	0.5
Units.	ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
SO98-301	<0.5	0.02	0.43	1.89	0.08	0.04	0.13	1.3	0.18	64	24	512	3.00	8	16	14.4
SO98-302	<0.5	0.02	0.13	0.39	0.04	0.06	0.10	0.7	0.12	31	22	705	0.89	7	11	10.6
SO98-303	<0.5	0.02	0.27	1.24	0.04	0.02	0.05	0.9	0.07	40	39	122	2.24	8	37	10.0
SO98-304	<0.5	0.02	0.65	1.44	0.07	0.02	0.18	1.0	0.05	24	45	95	1.79	13	135	54.7
SO98-305	<0.5	0.02	1.04	2.10	0.12	0.03	0.64	2.9	0.10	63	103	643	3.82	34	277	113
SO98-306	<0.5	0.02	0.64	1.58	0.03	0.03	0.15	1.3	0.13	57	118	145	3.66	16	191	40.7
SO98-307	<0.5	0.02	0.70	1.13	0.03	0.03	0.18	1.9	0.08	41	92	384	2.33	24	247	22.2
SO98-308	<0.5	0.02	0.46	1.62	0.07	0.03	0.25	1.2	0.14	61	83	201	3.43	14	104	37.2
SO98-309	<0.5	0.02	0.97	1.97	0.07	0.05	0.34	2.8	0.14	61	133	511	3.76	28	344	40.5
SO98-310	<0.5	0.02	0.39	0.91	0.06	0.04	0.12	1.4	0.09	62	60	161	2.77	12	114	31.6
SO98-311	<0.5	0.02	0.41	2.18	0.09	0.03	0.09	2.0	0.13	90	64	87	4.37	10	83	34.5
SO98-312	<0.5	0.02	0.51	1.30	0.04	0.03	0.15	2.2	0.13	75	68	105	3.26	11	122	24.9
SO98-313	<0.5	0.02	0.47	1.29	0.03	0.02	0.26	1.6	0.15	111	58	96	3.74	13	102	26.0
SO98-314	<0.5	0.02	0.35	2.26	0.09	0.04	0.51	3.4	0.04	39	63	1570	2.26	97	375	82.8
SO98-315	<0.5	0.02	0.59	1.52	0.05	0.03	0.39	1.8	0.10	54	49	168	2.38	12	103	36.0
SO98-316	<0.5	0.02	0.61	1.71	0.07	0.04	0.35	5.2	0.06	64	106	3130	3.23	42	295	95.4
SO98-317	<0.5	0.02	0.81	1.49	0.06	0.05	0.61	6.0	0.05	54	105	2020	2.99	30	412	47.2
SO98-318	<0.5	0.02	0.60	0.65	0.03	0.02	0.30	2.2	0.05	28	64	174	1.67	9	178	22.6
SO98-319	<0.5	0.02	0.17	0.32	0.03	0.04	0.51	<0.5	0.07	18	50	28	0.68	3	24	3.8
SO98-320	<0.5	0.02	0.21	1.24	0.03	0.03	0.09	1.9	0.12	48	33	76	2.70	7	46	10.1
SO98-321	<0.5	0.02	0.09	0.79	0.05	0.02	0.05	0.7	0.03	29	21	297	1.11	8	11	8.9
SO98-322	<0.5	0.02	0.13	1.62	0.05	0.03	0.16	1.3	0.08	42	28	87	2.95	4	22	5.2
SO98-323	<0.5	0.02	0.20	1.29	0.04	0.03	0.14	0.9	0.06	29	30	175	1.83	5	32	6.1
SO98-324	<0.5	0.02	0.15	0.83	0.05	0.02	0.10	0.8	0.05	25	19	715	1.21	4	22	7.7
SO98-325	<0.5	0.02	0.11	1.41	0.05	0.03	0.28	1.0	0.08	42	28	184	2.84	4	25	5.0
SO98-326	1.0	0.03	0.26	3.78	0.14	0.03	0.46	1.7	0.05	33	23	1100	3.44	19	62	67.9
SO98-327	<0.5	0.02	0.16	1.57	0.05	0.03	0.06	1.1	0.06	30	27	272	1.93	3	15	5.5
SO98-328	<0.5	0.02	0.16	0.96	0.03	0.03	0.11	1.0	0.08	29	31	116	1.71	3	16	5.3
SO98-329	0.9	0.03	0.25	3.57	0.14	0.03	0.46	1.7	0.05	32	23	1120	3.23	17	58	64.0
SO98-330	<0.5	0.02	0.23	0.73	0.05	0.03	0.21	0.9	0.05	18	23	108	1.02	4	42	9.4

Work Order: 051993 **Date:** 02/09/98 **FINAL**

Element.	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01	1	1	0.5
Units.	ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
SO98-331	<0.5	0.02	0.12	0.95	0.04	0.03	0.08	0.9	0.09	38	32	106	2.31	3	15	5.5
SO98-332	<0.5	0.02	0.33	1.66	0.04	0.03	0.08	1.7	0.09	40	51	72	2.61	7	63	19.3
SO98-333	<0.5	0.02	0.02	0.16	<0.01	<0.01	0.02	<0.5	0.07	36	11	15	0.57	2	10	1.4
SO98-334	<0.5	0.02	0.12	0.69	0.02	0.03	0.13	0.7	0.17	72	39	49	2.84	4	27	4.1
SO98-335	<0.5	0.02	0.28	1.39	0.04	0.05	0.18	1.6	0.17	86	57	135	4.06	8	65	8.6
SO98-336	<0.5	0.02	0.24	1.74	0.06	0.03	0.53	1.3	0.16	54	25	636	3.71	12	42	34.3
SO98-337	<0.5	0.02	0.20	1.32	0.06	0.03	0.21	1.2	0.10	69	26	179	3.37	8	26	28.5
SO98-338	0.5	0.02	0.37	3.25	0.21	0.04	0.90	3.8	0.06	50	52	877	2.80	37	336	126
SO98-339	<0.5	0.02	0.08	0.61	0.08	0.02	0.07	1.6	0.19	109	41	32	3.05	6	16	17.8
SO98-340	<0.5	0.05	0.53	1.13	0.12	0.07	0.58	2.0	0.20	139	4	273	4.14	19	19	71.8
SO98-341	<0.5	0.03	1.27	1.68	0.14	0.03	0.78	2.6	0.12	61	78	178	3.18	20	227	51.4
SO98-342	<0.5	0.02	0.43	1.77	0.02	0.01	0.05	3.0	0.25	149	57	61	4.85	9	69	14.8
SO98-343	<0.5	0.02	0.08	0.67	0.04	0.02	0.03	0.6	0.19	139	38	30	3.81	3	13	13.4
SO98-344	<0.5	0.02	0.81	1.35	0.05	0.02	0.16	1.5	0.13	84	102	136	3.84	18	188	26.0
SO98-345	<0.5	0.02	0.33	0.74	0.02	0.02	0.16	1.1	0.07	28	43	114	1.47	7	62	7.1
SO98-346	<0.5	0.02	0.14	0.85	0.02	0.02	0.06	0.8	0.12	41	30	43	2.33	6	49	3.4
SO98-347	<0.5	0.02	0.45	1.25	0.04	0.02	0.08	1.3	0.12	41	60	94	2.53	10	90	10.8
SO98-348	<0.5	0.02	0.28	1.16	0.04	0.02	0.06	1.0	0.11	52	58	82	2.57	8	64	9.9
SO98-349	<0.5	0.02	0.45	1.95	0.06	0.04	0.11	2.2	0.12	76	48	117	3.44	11	73	23.4
SO98-350	<0.5	0.02	0.35	2.08	0.08	0.03	0.11	1.8	0.11	68	54	401	3.14	10	61	31.7
SS98-063	<0.5	0.02	0.21	0.82	0.16	0.03	0.39	1.9	0.04	23	14	814	1.08	13	16	11.2
*Dup SO98-301	<0.5	0.02	0.43	1.90	0.09	0.04	0.15	1.3	0.19	64	23	502	2.97	9	16	14.2
*Dup SO98-313	<0.5	0.02	0.48	1.32	0.03	0.02	0.28	1.7	0.16	111	58	99	3.72	12	100	25.3
*Dup SO98-325	<0.5	0.02	0.12	1.46	0.05	0.03	0.30	1.0	0.09	43	29	181	2.90	4	25	4.8
*Dup SO98-337	<0.5	0.02	0.21	1.38	0.06	0.03	0.23	1.2	0.11	71	28	185	3.44	10	27	28.9
*Dup SO98-349	<0.5	0.02	0.45	1.98	0.07	0.04	0.12	2.2	0.12	77	49	120	3.52	11	74	23.6

Work Order: 051993 **Date:** 02/09/98 **FINAL**

Element.	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb	Bi
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	2	5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
SO98-301	81.8	<3	5.4	3.4	1.6	<1	0.2	<1	<10	<5	66	3.9	<10	4	<5
SO98-302	17.6	<3	4.3	2.8	1.2	<1	<0.2	<1	<10	<5	63	5.0	<10	5	<5
SO98-303	52.0	<3	3.6	2.3	1.5	<1	0.3	<1	<10	<5	36	4.0	<10	6	<5
SO98-304	64.7	<3	6.5	4.7	1.7	<1	0.4	<1	<10	<5	22	5.7	<10	3	<5
SO98-305	178	<3	38.5	9.5	3.6	<1	0.3	<1	<10	<5	111	10.7	<10	9	<5
SO98-306	119	<3	10.6	2.6	2.8	<1	0.3	<1	<10	<5	33	5.6	<10	12	<5
SO98-307	144	<3	12.5	3.2	2.2	<1	0.4	<1	<10	<5	39	7.1	<10	11	<5
SO98-308	79.7	<3	18.5	2.7	3.8	<1	0.3	<1	<10	<5	46	6.7	<10	13	<5
SO98-309	150	<3	22.5	7.1	2.8	<1	0.3	<1	<10	<5	70	10.8	<10	11	<5
SO98-310	62.3	<3	8.3	2.1	2.2	<1	0.3	<1	<10	<5	49	7.1	<10	17	<5
SO98-311	102	<3	6.6	3.1	2.8	<1	0.5	<1	<10	<5	43	7.7	<10	37	<5
SO98-312	82.3	<3	15.4	5.4	2.2	<1	0.3	<1	<10	<5	50	8.4	<10	13	<5
SO98-313	78.2	<3	22.6	2.7	2.7	<1	0.4	<1	<10	<5	37	5.8	<10	14	<5
SO98-314	129	<3	47.1	11.3	1.7	<1	0.4	<1	<10	<5	95	17.9	<10	9	<5
SO98-315	75.4	<3	30.0	6.1	2.6	<1	<0.2	<1	<10	<5	45	9.1	<10	9	<5
SO98-316	158	<3	25.8	16.0	2.0	<1	0.4	<1	<10	<5	93	30.7	<10	26	<5
SO98-317	187	<3	47.6	20.9	2.0	<1	0.7	<1	<10	<5	107	31.4	<10	16	<5
SO98-318	47.0	<3	20.5	7.7	1.8	<1	0.3	<1	<10	<5	31	14.0	<10	6	<5
SO98-319	23.8	3	54.9	1.1	1.4	<1	<0.2	<1	<10	<5	55	2.4	<10	8	<5
SO98-320	48.4	<3	7.9	11.4	2.2	<1	0.4	<1	<10	<5	38	17.8	<10	7	<5
SO98-321	26.4	<3	4.2	2.4	0.8	<1	0.2	<1	<10	<5	31	7.3	<10	10	<5
SO98-322	52.6	<3	14.2	3.7	2.0	<1	0.3	<1	<10	<5	54	8.0	<10	10	<5
SO98-323	39.2	<3	12.0	3.3	1.4	<1	0.2	<1	<10	<5	74	6.2	<10	6	<5
SO98-324	47.1	<3	6.6	3.1	1.5	<1	<0.2	<1	<10	<5	55	7.0	<10	6	<5
SO98-325	54.9	<3	28.1	3.3	2.2	<1	<0.2	<1	<10	<5	96	7.3	<10	10	<5
SO98-326	113	<3	45.8	10.3	2.8	<1	<0.2	<1	<10	<5	94	8.8	<10	9	<5
SO98-327	51.4	<3	3.6	3.2	2.1	<1	<0.2	<1	<10	<5	30	6.9	<10	8	<5
SO98-328	34.9	<3	8.9	2.7	2.0	<1	0.3	<1	<10	<5	29	8.6	<10	5	<5
SO98-329	109	<3	44.8	10.0	3.1	<1	<0.2	<1	<10	<5	91	8.5	<10	11	<5
SO98-330	26.9	<3	10.7	5.2	1.6	<1	<0.2	<1	<10	<5	38	7.8	<10	3	<5

Element.	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb	Bi
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	2	5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
SO98-331	54.5	<3	6.7	2.0	2.3	<1	0.3	<1	<10	<5	40	8.1	<10	11	<5
SO98-332	39.3	<3	5.3	3.4	3.8	<1	0.4	<1	<10	<5	29	7.6	<10	8	<5
SO98-333	6.8	<3	3.3	1.4	1.7	<1	<0.2	<1	<10	<5	7	11.3	<10	6	<5
SO98-334	44.5	<3	11.4	1.4	2.8	<1	<0.2	<1	<10	<5	32	7.0	<10	10	<5
SO98-335	103	<3	13.8	3.6	4.3	<1	<0.2	<1	<10	<5	47	8.4	<10	10	<5
SO98-336	71.3	<3	40.4	4.9	8.6	<1	0.3	<1	<10	<5	83	8.4	<10	16	<5
SO98-337	50.1	<3	17.2	3.8	3.3	<1	<0.2	<1	<10	<5	34	8.5	<10	8	<5
SO98-338	266	<3	73.4	25.1	3.3	<1	<0.2	<1	<10	<5	109	28.2	<10	11	<5
SO98-339	26.0	<3	7.7	1.5	3.8	<1	<0.2	<1	<10	<5	25	4.5	<10	9	<5
SO98-340	52.3	<3	40.5	2.9	4.1	<1	0.2	<1	<10	<5	103	5.8	<10	8	<5
SO98-341	171	<3	47.5	7.0	2.2	<1	0.3	<1	<10	<5	54	14.9	<10	22	<5
SO98-342	52.4	<3	5.1	4.2	4.4	<1	<0.2	<1	<10	<5	27	10.2	<10	12	<5
SO98-343	29.1	<3	4.9	1.1	2.4	2	<0.2	<1	<10	<5	18	5.4	<10	9	<5
SO98-344	95.1	<3	8.8	2.8	3.1	<1	0.5	<1	<10	<5	29	5.7	<10	13	<5
SO98-345	39.9	<3	12.2	2.8	1.8	<1	<0.2	<1	<10	<5	29	5.8	<10	6	<5
SO98-346	24.5	<3	5.8	3.5	2.2	<1	<0.2	<1	<10	<5	32	5.5	<10	6	<5
SO98-347	50.3	<3	4.4	4.1	2.0	<1	<0.2	<1	<10	<5	26	5.7	<10	5	<5
SO98-348	42.5	<3	3.4	2.9	2.4	<1	0.3	<1	<10	<5	27	5.6	<10	12	<5
SO98-349	91.6	<3	6.2	4.3	2.5	<1	0.3	<1	<10	<5	58	8.6	<10	8	<5
SO98-350	61.6	<3	6.7	4.5	3.0	<1	<0.2	<1	<10	<5	72	11.7	<10	11	<5
SS98-063	46.3	<3	8.5	11.4	1.2	<1	<0.2	<1	<10	<5	46	14.6	<10	5	<5
*Dup SO98-301	81.5	<3	5.6	4.0	1.9	<1	0.4	<1	<10	<5	65	4.9	<10	5	<5
*Dup SO98-313	79.5	<3	23.2	3.0	2.7	<1	0.5	<1	<10	<5	36	6.3	<10	14	<5
*Dup SO98-325	57.3	<3	29.0	3.6	2.6	<1	0.2	<1	<10	<5	98	7.5	<10	9	<5
*Dup SO98-337	52.9	<3	17.9	3.9	3.6	<1	<0.2	<1	<10	<5	35	9.3	<10	8	<5
*Dup SO98-349	93.3	<3	6.6	4.6	2.9	<1	<0.2	<1	<10	<5	59	8.4	<10	9	<5

XRAL Laboratories
A Division of SGS Canada Inc.

1885 Leslie Street
Don Mills, Ontario
Canada M3B 3J4
Telephone (416) 445-5755
Fax (416) 445-4152

CERTIFICATE OF ANALYSIS

Work Order: 052191

To: **B-MAX Ltd.**
Attn: **Gord Vandevalk**
Brothers Minerals and Exploration
R.R.#3 Milton
HALTON HILLS
ONTARIO, CANADA L9T 2X7

Date : 18/09/98

Copy 1 to :

Copy 2 to :

P.O. No.	:	
Project No.	:	MA98
No. of Samples	:	120 SOIL
Date Submitted	:	10/09/98
Report Comprises	:	Cover Sheet plus Pages 1 to 10

Distribution of unused material:
Pulps: Pulps dumped after 90 days of reporting.
Rejects: Rejects dumped after 30 days of reporting.

Certified By :

Dr. Hugh de Souza, General Manager
XRAL Laboratories

ISO 9002 REGISTERED

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result
*INF	= Composition of this sample makes detection impossible by this method		

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

XRAL Laboratories
A Division of SGS Canada Inc.

Work Order: 052191 **Date:** 18/09/98 **FINAL**

Element.	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01	1	1	0.5
Units.	ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
SO98-351	<0.5	0.04	1.67	1.95	0.07	0.06	0.57	3.7	0.07	46	116	395	3.42	37	415	34.9
SO98-352	<0.5	0.01	0.28	1.06	0.04	0.03	0.18	1.1	0.08	40	47	193	2.55	9	78	15.0
SO98-353	<0.5	0.02	1.91	1.84	0.09	0.05	0.43	2.4	0.09	57	103	385	4.20	44	437	24.5
SO98-354	<0.5	0.01	0.43	1.01	0.05	0.02	0.29	1.1	0.08	33	50	117	2.53	14	194	5.1
SO98-355	<0.5	0.01	0.48	0.53	0.12	0.02	0.37	1.1	0.05	19	35	88	1.11	4	54	3.4
SO98-356	<0.5	0.01	0.41	0.88	0.04	0.03	0.18	1.2	0.11	59	44	128	2.41	9	79	6.4
SO98-357	<0.5	0.01	0.53	1.12	0.02	0.02	0.19	1.3	0.09	45	65	96	2.39	15	138	12.7
SO98-358	<0.5	0.01	0.35	0.87	0.02	0.02	0.16	1.0	0.09	35	46	123	2.08	12	132	5.0
SO98-359	<0.5	0.01	1.46	1.39	0.08	0.06	0.48	2.9	0.10	49	136	305	3.34	35	394	45.3
SO98-360	<0.5	0.01	0.36	1.00	0.03	0.02	0.20	0.9	0.08	33	47	93	2.26	12	147	4.6
SO98-361	<0.5	0.01	0.84	1.18	0.05	0.03	0.52	1.6	0.06	40	66	179	2.41	20	221	12.3
SO98-362	<0.5	0.01	0.85	1.42	0.06	0.03	0.29	2.4	0.10	48	67	181	3.05	20	213	26.5
SO98-363	<0.5	0.01	0.72	1.38	0.04	0.03	0.54	1.5	0.09	39	64	207	2.71	18	229	41.3
SO98-364	<0.5	0.01	0.79	1.55	0.06	0.03	0.36	1.8	0.11	55	66	119	3.01	20	181	14.8
SO98-365	<0.5	0.02	1.14	2.40	0.06	0.03	0.59	3.1	0.13	70	102	127	4.00	27	367	28.5
SO98-366	<0.5	0.02	0.20	2.27	0.08	0.03	0.22	2.5	0.13	100	22	62	4.81	12	28	52.7
SO98-367	<0.5	0.02	0.12	2.80	0.08	0.03	0.19	2.3	0.09	77	22	43	4.23	5	16	16.0
SO98-368	<0.5	0.02	0.70	1.98	0.07	0.03	0.20	2.7	0.12	74	75	90	3.54	21	185	96.1
SO98-369	<0.5	0.01	0.33	1.48	0.04	0.04	0.18	1.7	0.12	62	52	79	3.48	8	93	23.4
SO98-370	<0.5	0.02	0.45	1.16	0.09	0.04	0.52	1.9	0.07	43	35	211	1.84	11	56	20.1
SO98-371	<0.5	0.01	0.11	0.70	0.01	0.01	0.15	0.8	0.06	24	24	29	1.31	3	26	3.8
SO98-372	<0.5	0.01	0.17	1.04	0.03	0.02	0.14	1.0	0.07	42	40	141	2.60	7	56	5.6
SO98-373	<0.5	0.01	0.93	1.70	0.05	0.06	0.33	1.7	0.08	44	59	242	2.87	23	173	11.8
SO98-374	<0.5	<0.01	0.35	1.30	0.04	0.02	0.12	1.2	0.08	37	36	43	2.16	7	63	7.3
SO98-375	<0.5	0.01	0.44	0.67	0.05	0.02	0.17	0.9	0.04	13	32	56	0.87	7	72	4.9
SO98-376	<0.5	0.02	0.48	1.36	0.08	0.04	0.21	1.4	0.09	47	48	145	2.75	12	92	44.2
SO98-377	<0.5	0.02	0.35	1.64	0.09	0.03	0.49	2.2	0.05	31	32	117	2.10	18	128	51.3
SO98-378	<0.5	0.01	0.38	1.66	0.08	0.03	0.17	1.9	0.14	97	51	57	4.33	9	44	33.8
SO98-379	<0.5	0.02	1.62	1.76	0.06	0.03	0.22	2.3	0.10	46	125	206	3.10	32	355	30.3
SO98-380	<0.5	0.02	0.35	1.11	0.03	0.03	0.12	1.4	0.13	67	49	107	2.85	9	56	10.2

Work Order: 052191 **Date:** 18/09/98 **FINAL**

Element.	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01	1	1	0.5
Units.	ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
SO98-381	<0.5	0.02	0.52	1.63	0.05	0.06	0.52	2.2	0.16	67	46	221	3.79	23	82	115
SO98-382	<0.5	0.02	2.66	2.12	0.12	0.14	1.04	9.7	0.17	66	144	1010	4.24	45	653	126
SO98-383	<0.5	0.02	0.88	1.66	0.11	0.04	0.58	3.6	0.10	54	77	210	2.93	18	232	32.3
SO98-384	<0.5	0.01	0.83	1.63	0.06	0.03	0.49	2.1	0.08	48	78	133	3.00	24	288	29.4
SO98-385	<0.5	0.01	0.85	2.05	0.08	0.04	0.32	2.9	0.17	72	82	274	3.77	26	196	57.6
SO98-386	<0.5	0.01	1.05	1.87	0.08	0.03	0.21	2.2	0.10	66	136	229	4.30	26	398	39.5
SO98-387	<0.5	0.01	0.80	1.80	0.09	0.09	0.31	2.0	0.18	79	112	392	4.22	23	136	50.5
SO98-388	<0.5	0.01	0.47	1.02	0.05	0.03	0.31	2.2	0.06	31	66	245	2.06	14	153	30.5
SO98-389	<0.5	0.01	0.69	1.27	0.07	0.04	0.28	1.7	0.08	39	83	209	2.76	20	246	9.6
SO98-390	<0.5	0.02	0.72	0.84	0.07	0.09	0.43	3.6	0.06	26	88	203	1.69	11	212	18.5
SO98-391	<0.5	0.01	0.26	0.76	0.03	0.03	0.27	1.0	0.07	31	36	147	1.95	8	77	10.2
SO98-392	<0.5	0.02	1.49	1.70	0.08	0.04	0.39	4.8	0.10	68	131	1090	3.27	30	279	41.7
SO98-393	<0.5	0.01	0.18	0.92	0.03	0.03	0.18	1.0	0.10	43	29	84	2.63	4	32	6.1
SO98-394	<0.5	0.01	0.49	0.88	0.03	0.04	0.20	1.4	0.06	32	58	262	2.01	13	112	10.4
SO98-395	<0.5	0.02	2.25	1.50	0.11	0.07	0.57	3.0	0.06	46	154	724	4.03	48	561	46.3
SO98-396	<0.5	0.03	0.58	1.31	0.16	0.07	0.55	1.9	0.09	62	42	523	3.06	15	39	43.2
SO98-397	<0.5	0.02	0.51	1.25	0.13	0.04	0.39	1.5	0.12	58	32	308	3.03	21	72	55.2
SO98-398	<0.5	<0.01	0.38	0.86	0.07	0.02	0.21	1.0	0.05	27	32	128	1.70	11	115	10.1
SO98-399	<0.5	<0.01	0.37	1.12	0.04	0.02	0.12	1.2	0.07	32	57	146	2.05	14	139	13.7
SO98-400	<0.5	0.01	0.49	1.44	0.05	0.03	0.41	1.4	0.10	59	64	195	3.37	14	123	20.1
SO98-401	<0.5	0.02	0.61	2.48	0.27	0.13	0.66	1.7	0.11	52	30	120	2.94	15	48	52.8
SO98-402	<0.5	0.02	0.57	1.44	0.10	0.04	0.79	2.1	0.11	61	13	596	2.93	25	90	129
SO98-403	<0.5	0.01	0.11	2.08	0.07	0.02	0.09	2.1	0.06	54	19	39	2.83	4	10	17.5
SO98-404	0.8	0.01	0.42	3.92	0.08	0.02	1.51	13.0	0.16	101	54	756	6.20	29	62	132
SO98-405	<0.5	0.01	0.24	1.67	0.04	0.02	0.25	2.5	0.18	139	41	57	4.42	9	38	8.9
SO98-406	<0.5	0.01	0.19	1.41	0.05	0.03	0.18	1.2	0.06	45	29	144	3.15	10	40	15.7
SO98-407	<0.5	0.01	0.82	1.78	0.05	0.04	0.22	1.5	0.18	78	100	89	3.84	18	149	19.9
SO98-408	<0.5	0.02	0.80	2.18	0.05	0.08	0.48	2.5	0.26	82	82	89	4.12	16	68	26.2
SO98-409	<0.5	<0.01	0.40	1.53	0.04	0.03	0.14	1.8	0.16	83	49	91	3.84	9	142	24.8
SO98-410	<0.5	0.02	0.07	0.43	0.02	0.03	0.07	0.9	0.16	121	17	22	1.36	7	16	22.0

Element.	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01	1	1	0.5
Units.	ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
SO98-411	<0.5	0.02	0.10	0.68	0.07	0.02	0.10	1.1	0.23	158	111	43	4.52	7	29	26.7
SO98-412	<0.5	0.05	0.84	1.53	0.34	0.04	1.10	1.5	0.09	39	61	100	2.42	32	130	140
SO98-413	<0.5	0.01	0.28	1.02	0.03	0.03	0.36	2.3	0.04	22	33	125	1.36	9	91	28.5
SO98-414	<0.5	0.01	0.91	1.98	0.09	0.09	0.26	3.2	0.10	68	91	744	2.81	46	166	43.9
SO98-415	<0.5	0.02	0.24	1.03	0.08	0.05	0.36	1.9	0.11	78	61	1230	2.51	31	43	25.3
SO98-416	<0.5	0.02	0.60	1.36	0.06	0.02	0.28	1.6	0.08	33	49	87	2.16	17	197	49.4
SO98-417	<0.5	0.02	0.49	2.63	0.12	0.03	0.26	2.3	0.06	46	56	268	2.92	24	213	52.8
SO98-418	<0.5	0.01	0.80	1.46	0.07	0.03	0.43	1.8	0.05	30	68	123	2.36	26	224	19.5
SO98-419	<0.5	0.01	0.41	1.05	0.06	0.02	0.24	1.0	0.05	21	32	139	1.50	11	121	8.3
SO98-420	<0.5	0.01	0.25	1.04	0.08	0.02	0.20	1.1	0.05	24	22	57	1.62	5	40	3.5
SO98-421	<0.5	<0.01	0.39	1.40	0.04	0.02	0.07	1.8	0.09	53	49	52	2.68	7	77	15.7
SO98-422	<0.5	<0.01	0.28	0.80	0.03	0.02	0.07	0.8	0.08	36	41	90	1.77	7	68	6.4
SO98-423	<0.5	0.01	0.97	2.09	0.05	0.02	0.10	1.9	0.08	40	92	97	2.71	16	192	26.1
SO98-424	<0.5	0.02	1.32	1.70	0.09	0.06	0.65	3.8	0.13	50	93	234	3.02	23	366	57.6
SO98-425	<0.5	0.01	0.37	1.67	0.04	0.04	0.35	1.6	0.12	50	56	146	2.81	15	98	10.3
SO98-426	<0.5	0.01	1.21	2.49	0.06	0.07	0.24	3.0	0.20	122	116	197	5.59	22	393	150
SO98-427	<0.5	0.01	0.80	2.65	0.08	0.04	0.40	2.0	0.29	112	82	84	5.07	17	72	33.8
SO98-428	<0.5	0.04	0.90	1.18	0.03	0.11	0.37	1.6	0.24	49	61	116	2.33	23	122	45.5
SO98-429	<0.5	0.03	0.28	1.54	0.36	0.03	0.29	1.7	0.11	95	6	37	4.06	7	7	21.6
SO98-430	<0.5	0.01	0.18	1.72	0.26	0.07	0.09	1.3	0.10	97	25	1090	6.19	36	16	18.3
SO98-431	<0.5	0.02	0.21	3.10	0.13	0.02	0.20	3.6	0.09	62	42	43	3.33	8	28	34.1
SO98-432	<0.5	0.02	0.23	2.62	0.10	0.03	0.23	3.5	0.10	55	38	42	3.14	10	45	71.6
SO98-433	<0.5	0.01	0.34	1.70	0.19	0.04	0.20	2.5	0.06	51	70	183	1.88	26	118	58.5
SO98-434	<0.5	0.01	0.44	1.95	0.05	0.02	0.09	2.6	0.14	77	84	78	3.47	13	81	23.8
SO98-435	<0.5	0.02	0.16	1.38	0.11	0.03	0.49	3.0	0.12	97	65	137	4.80	10	27	59.2
SO98-436	<0.5	0.01	0.41	1.80	0.10	0.04	0.41	2.5	0.09	118	45	225	4.68	13	43	58.6
SO98-437	<0.5	0.02	1.02	2.45	0.08	0.06	0.45	3.8	0.11	69	109	610	3.98	30	273	50.8
SO98-438	<0.5	0.02	1.24	1.43	0.05	0.05	0.41	3.3	0.11	56	134	368	2.98	23	386	40.9
SO98-439	<0.5	0.02	0.32	0.72	0.03	0.03	0.16	1.3	0.13	69	65	104	2.83	10	112	10.5
SO98-440	<0.5	0.02	2.49	1.10	0.05	0.09	0.27	6.4	0.08	50	182	800	3.41	43	729	66.9

Element.	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01	1	1	0.5
Units.	ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
SO98-441	<0.5	0.02	1.14	0.77	0.04	0.05	0.57	3.2	0.04	29	96	725	2.17	20	335	27.3
SO98-442	<0.5	0.01	0.38	1.51	0.02	0.02	0.07	1.4	0.17	83	80	130	4.26	12	164	6.0
SO98-443	<0.5	<0.01	0.16	1.08	0.03	0.02	0.06	0.9	0.08	37	33	63	2.01	8	67	3.6
SO98-444	<0.5	<0.01	0.08	0.70	0.02	0.02	0.04	0.7	0.05	27	18	56	1.11	4	15	14.8
SO98-445	<0.5	0.01	0.64	1.11	0.10	0.03	0.22	1.5	0.07	31	53	160	2.14	12	136	13.4
SO98-446	<0.5	0.01	0.18	1.11	0.05	0.03	0.14	1.5	0.11	46	30	57	2.46	5	39	6.4
SO98-447	<0.5	0.01	0.48	3.10	0.07	0.08	0.20	3.0	0.13	50	71	260	3.61	15	107	41.9
SO98-448	<0.5	0.01	0.26	2.72	0.07	0.04	0.08	2.0	0.08	33	51	296	2.33	4	28	9.3
SO98-449	<0.5	0.01	0.20	1.70	0.04	0.04	0.09	1.6	0.14	49	44	82	3.60	3	14	7.1
SO98-450	<0.5	0.01	0.38	1.60	0.04	0.08	1.00	2.1	0.17	75	69	116	3.27	5	23	11.7
SO98-451	<0.5	0.01	0.12	1.78	0.04	0.03	0.09	1.7	0.11	36	31	44	2.98	2	9	3.0
SO98-452	<0.5	0.01	0.36	1.91	0.03	0.03	0.09	1.7	0.15	52	43	69	2.84	6	32	21.0
SO98-453	<0.5	<0.01	0.09	1.51	0.03	0.03	0.04	1.0	0.13	46	44	36	2.94	<1	14	4.4
SO98-454	<0.5	0.01	0.33	2.37	0.04	0.04	0.05	2.0	0.18	72	77	92	4.33	9	49	7.1
SO98-455	<0.5	<0.01	0.20	1.33	0.04	0.04	0.04	1.1	0.16	88	64	58	3.64	3	13	11.5
SO98-456	<0.5	<0.01	0.06	0.52	0.02	0.02	0.06	0.9	0.12	111	18	30	2.09	1	13	3.5
SO98-457	<0.5	<0.01	0.39	1.42	0.04	0.03	0.12	1.5	0.14	84	71	166	4.33	11	118	7.3
SO98-458	<0.5	0.01	0.23	1.32	0.05	0.05	0.14	1.5	0.13	76	49	108	3.85	7	41	13.6
SO98-459	<0.5	0.03	0.90	1.64	0.21	0.11	0.62	1.1	0.15	54	18	150	3.08	13	27	30.3
SO98-460	<0.5	0.01	0.04	0.46	0.04	0.03	0.07	1.1	0.07	25	17	16	0.54	1	9	14.6
SO98-461	<0.5	0.02	0.64	1.81	0.07	0.04	0.21	2.4	0.15	127	77	79	4.18	14	126	36.9
SO98-462	<0.5	0.02	1.43	1.89	0.05	0.02	0.21	2.3	0.11	62	93	147	4.10	25	283	44.2
SO98-463	<0.5	0.02	0.74	1.56	0.03	0.02	0.30	2.4	0.16	128	59	97	4.16	14	94	31.7
SO98-464	<0.5	0.01	0.51	1.59	0.04	0.04	0.19	2.5	0.14	116	61	166	4.41	15	77	27.8
SO98-465	<0.5	0.01	0.62	2.04	0.07	0.04	0.22	2.5	0.10	63	81	191	4.14	14	161	29.3
SO98-466	<0.5	0.01	0.55	1.72	0.06	0.03	0.25	1.6	0.11	63	74	128	4.06	16	135	15.5
SO98-467	<0.5	0.01	1.05	2.08	0.13	0.44	0.31	2.0	0.17	62	76	499	3.29	31	71	47.9
SO98-468	<0.5	0.01	0.40	1.96	0.06	0.05	0.10	2.6	0.08	46	61	156	3.12	13	89	24.4
SO98-469	<0.5	0.01	0.55	1.32	0.20	0.21	0.34	1.1	0.15	60	29	203	3.03	8	20	10.3
SO98-470	<0.5	0.01	0.25	0.89	0.07	0.05	0.08	0.9	0.12	38	22	99	1.30	4	12	10.9

Element.	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01	1	1	0.5
Units.	ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
*Dup SO98-351	<0.5	0.04	1.68	1.97	0.07	0.06	0.56	3.7	0.07	45	115	393	3.35	37	400	34.8
*Dup SO98-363	<0.5	0.01	0.72	1.39	0.05	0.03	0.54	1.5	0.09	38	61	202	2.65	19	220	41.3
*Dup SO98-375	<0.5	0.01	0.42	0.63	0.04	0.02	0.15	0.8	0.03	12	30	50	0.80	7	65	4.6
*Dup SO98-387	<0.5	0.01	0.81	1.80	0.09	0.09	0.31	1.9	0.17	78	112	391	4.13	22	132	50.1
*Dup SO98-399	<0.5	0.01	0.36	1.10	0.04	0.02	0.11	1.2	0.07	31	55	137	1.97	14	132	13.3
*Dup SO98-411	<0.5	0.02	0.10	0.68	0.07	0.02	0.09	1.2	0.24	157	111	42	4.48	7	28	27.4
*Dup SO98-423	<0.5	0.01	0.96	2.06	0.05	0.02	0.10	1.7	0.08	40	90	95	2.65	16	191	25.7
*Dup SO98-435	<0.5	0.02	0.16	1.35	0.11	0.03	0.47	2.9	0.13	94	63	137	4.64	9	26	56.9
*Dup SO98-447	<0.5	0.01	0.49	3.15	0.07	0.08	0.20	3.0	0.13	51	72	264	3.65	16	108	42.6
*Dup SO98-459	<0.5	0.03	0.89	1.62	0.21	0.11	0.59	1.0	0.17	53	17	147	3.03	12	26	29.9

Work Order: 052191 **Date:** 18/09/98 **FINAL**

Element.	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb	Bi
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	2	5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
SO98-351	108	<3	45.3	10.7	1.7	<1	0.4	<1	<10	<5	57	18.2	<10	13	<5
SO98-352	62.6	<3	13.1	3.4	1.4	<1	<0.2	<1	<10	<5	40	6.4	<10	7	<5
SO98-353	93.8	<3	26.1	6.1	1.3	<1	0.2	<1	<10	<5	67	8.6	<10	14	<5
SO98-354	32.8	<3	17.5	4.9	1.7	<1	<0.2	<1	<10	<5	21	3.9	<10	6	<5
SO98-355	37.0	<3	12.1	7.1	1.0	<1	<0.2	<1	<10	<5	13	8.9	<10	<2	<5
SO98-356	67.9	<3	11.2	2.6	1.9	<1	0.5	<1	<10	<5	34	5.6	<10	9	<5
SO98-357	48.0	<3	9.4	3.6	1.5	<1	0.3	<1	<10	<5	30	5.6	<10	8	<5
SO98-358	53.2	<3	9.6	3.5	1.7	<1	0.3	<1	<10	<5	24	5.1	<10	5	<5
SO98-359	84.7	<3	29.5	10.2	2.2	<1	0.2	<1	<10	<5	58	16.0	<10	7	<5
SO98-360	40.8	<3	14.0	3.6	1.7	<1	0.4	<1	<10	<5	24	3.4	<10	6	<5
SO98-361	52.4	<3	36.8	4.6	1.5	<1	0.2	<1	<10	<5	48	6.6	<10	11	<5
SO98-362	61.1	<3	16.3	5.0	1.7	<1	<0.2	<1	<10	<5	33	8.1	<10	9	<5
SO98-363	77.7	<3	35.1	3.8	2.2	<1	0.2	<1	<10	<5	48	6.0	<10	7	<5
SO98-364	119	<3	24.5	4.6	2.7	<1	0.4	<1	<10	<5	51	5.4	<10	9	<5
SO98-365	158	<3	50.8	6.4	2.2	<1	0.4	<1	<10	<5	67	9.9	<10	15	<5
SO98-366	40.1	<3	20.1	3.2	3.0	<1	<0.2	<1	<10	<5	38	4.4	<10	8	<5
SO98-367	47.9	<3	21.5	3.0	3.0	<1	0.2	<1	<10	<5	36	4.7	<10	5	<5
SO98-368	66.5	<3	13.6	4.8	2.4	<1	<0.2	<1	<10	<5	32	7.1	<10	14	<5
SO98-369	62.6	<3	14.6	4.2	2.2	<1	0.3	<1	<10	<5	39	7.0	<10	11	<5
SO98-370	57.2	<3	32.0	5.2	1.2	<1	0.4	<1	<10	<5	47	8.2	<10	4	<5
SO98-371	10.2	<3	11.8	2.9	1.2	<1	0.4	<1	<10	<5	15	4.0	<10	5	<5
SO98-372	35.8	<3	13.0	3.2	1.4	<1	<0.2	<1	<10	<5	33	5.4	<10	10	<5
SO98-373	76.6	<3	23.2	5.3	2.0	<1	<0.2	<1	<10	<5	77	8.0	<10	6	<5
SO98-374	24.5	<3	5.4	3.8	1.9	<1	0.4	<1	<10	<5	25	4.2	<10	3	<5
SO98-375	12.3	<3	6.2	3.6	1.1	<1	<0.2	<1	<10	<5	15	3.9	<10	<2	<5
SO98-376	63.1	<3	10.7	3.3	2.2	<1	0.6	<1	<10	<5	29	6.4	<10	11	<5
SO98-377	57.7	<3	37.8	7.5	1.4	<1	0.4	<1	<10	<5	50	8.4	<10	5	<5
SO98-378	56.8	<3	11.1	3.5	2.6	<1	0.5	<1	<10	<5	34	6.6	<10	12	<5
SO98-379	81.1	<3	10.4	4.2	1.6	<1	<0.2	<1	<10	<5	36	8.5	<10	11	<5
SO98-380	76.6	<3	7.5	2.9	2.0	<1	0.3	<1	<10	<5	37	5.5	<10	8	<5

Element.	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb	Bi
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	2	5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
SO98-381	114	<3	41.6	5.2	3.3	<1	0.5	<1	<10	<5	62	7.8	<10	8	<5
SO98-382	196	<3	69.6	63.2	5.0	<1	<0.2	<1	<10	<5	99	53.4	<10	11	<5
SO98-383	127	<3	32.2	8.4	1.5	<1	<0.2	<1	<10	<5	90	9.1	<10	5	<5
SO98-384	51.3	<3	34.2	6.2	1.7	<1	<0.2	<1	<10	<5	51	7.3	<10	6	<5
SO98-385	81.2	<3	21.8	6.8	4.5	<1	0.3	<1	<10	<5	51	10.3	<10	6	<5
SO98-386	104	<3	14.4	4.5	2.0	<1	0.2	<1	<10	<5	35	7.1	<10	10	<5
SO98-387	168	<3	24.7	3.6	2.2	<1	<0.2	<1	<10	<5	118	7.2	<10	7	<5
SO98-388	76.0	<3	20.9	10.0	1.2	<1	<0.2	<1	<10	<5	38	10.7	<10	6	<5
SO98-389	46.5	<3	18.8	6.3	2.4	<1	<0.2	<1	<10	<5	40	7.8	<10	5	<5
SO98-390	36.8	<3	22.7	12.8	2.0	<1	<0.2	<1	<10	<5	54	27.3	<10	4	<5
SO98-391	69.4	<3	17.8	2.7	1.4	<1	0.2	<1	<10	<5	39	5.5	<10	5	<5
SO98-392	107	<3	23.6	7.1	3.9	<1	0.2	<1	<10	<5	77	11.3	<10	13	<5
SO98-393	69.9	<3	13.4	3.3	1.8	<1	<0.2	<1	<10	<5	47	7.0	<10	6	<5
SO98-394	49.2	<3	14.3	3.2	1.1	<1	<0.2	<1	<10	<5	35	5.5	<10	5	<5
SO98-395	116	<3	37.1	6.7	2.3	<1	0.2	<1	<10	<5	75	10.9	<10	11	<5
SO98-396	73.3	<3	27.9	2.7	1.6	<1	<0.2	<1	<10	<5	109	5.0	<10	5	<5
SO98-397	66.8	<3	19.1	3.4	2.0	<1	<0.2	<1	<10	<5	48	6.3	<10	4	<5
SO98-398	53.7	<3	10.3	5.1	1.1	<1	<0.2	<1	<10	<5	33	6.1	<10	5	<5
SO98-399	74.3	<3	8.1	4.6	1.1	<1	0.2	<1	<10	<5	27	6.3	<10	5	<5
SO98-400	88.0	<3	41.2	3.3	1.6	<1	<0.2	<1	<10	<5	54	5.2	<10	9	<5
SO98-401	54.6	<3	28.4	3.7	1.4	<1	<0.2	<1	<10	<5	113	6.7	<10	<2	<5
SO98-402	54.7	<3	58.4	3.5	1.5	<1	<0.2	<1	<10	<5	72	5.1	<10	6	<5
SO98-403	28.3	<3	8.2	2.9	2.5	<1	<0.2	<1	<10	<5	26	6.0	<10	8	<5
SO98-404	84.0	7	113	114	39.8	1	<0.2	<1	<10	<5	69	68.8	<10	25	<5
SO98-405	34.8	<3	21.1	3.5	2.7	<1	<0.2	<1	<10	<5	37	5.6	<10	10	<5
SO98-406	78.9	<3	15.8	3.9	1.6	<1	0.2	<1	<10	<5	54	7.5	<10	9	<5
SO98-407	115	<3	14.6	3.2	1.9	<1	<0.2	<1	<10	<5	43	5.5	<10	6	<5
SO98-408	77.3	<3	31.0	3.8	7.2	1	<0.2	<1	<10	<5	74	4.2	<10	4	<5
SO98-409	56.8	<3	9.9	4.0	2.6	<1	<0.2	<1	<10	<5	32	6.3	<10	14	<5
SO98-410	12.3	<3	7.5	1.2	1.9	<1	<0.2	<1	<10	<5	22	4.7	<10	9	<5

Element.	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb	Bi
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	2	5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
SO98-411	25.0	<3	6.9	1.0	2.9	<1	<0.2	<1	<10	<5	21	2.1	<10	10	<5
SO98-412	40.0	<3	60.8	5.5	1.5	<1	<0.2	<1	<10	<5	31	14.2	<10	4	<5
SO98-413	113	<3	24.4	15.8	1.1	<1	<0.2	<1	<10	<5	41	18.1	<10	4	<5
SO98-414	122	<3	15.3	6.4	1.0	<1	0.2	<1	<10	<5	65	8.9	<10	5	<5
SO98-415	68.1	<3	36.1	3.0	1.8	<1	<0.2	<1	<10	<5	81	6.2	<10	13	<5
SO98-416	51.4	<3	15.5	5.4	1.5	<1	<0.2	<1	<10	<5	28	6.7	<10	5	<5
SO98-417	83.2	<3	17.0	8.6	1.8	<1	<0.2	<1	<10	<5	42	11.5	<10	7	<5
SO98-418	55.5	<3	31.3	8.7	0.7	<1	<0.2	<1	<10	<5	46	9.2	<10	4	<5
SO98-419	57.7	<3	12.1	4.9	0.6	<1	<0.2	<1	<10	<5	35	6.7	<10	3	<5
SO98-420	26.7	<3	7.1	7.0	1.4	<1	<0.2	<1	<10	<5	24	6.2	<10	4	<5
SO98-421	32.9	<3	4.8	3.2	2.2	<1	<0.2	<1	<10	<5	27	5.0	<10	8	<5
SO98-422	35.1	<3	3.1	2.1	1.4	<1	<0.2	<1	<10	<5	18	3.0	<10	5	<5
SO98-423	50.1	<3	4.1	3.9	2.2	<1	<0.2	<1	<10	<5	23	4.3	<10	6	<5
SO98-424	125	<3	35.1	8.8	1.9	<1	0.2	<1	<10	<5	81	13.3	<10	3	<5
SO98-425	119	<3	21.2	4.5	2.1	<1	0.2	<1	<10	<5	52	6.0	<10	7	<5
SO98-426	203	<3	20.7	4.7	2.8	1	0.2	<1	<10	<5	82	9.3	<10	51	<5
SO98-427	139	<3	29.4	4.6	3.0	<1	0.3	<1	<10	<5	92	8.4	<10	8	<5
SO98-428	44.9	<3	17.6	2.4	7.1	<1	<0.2	<1	<10	<5	53	2.8	<10	<2	<5
SO98-429	18.2	<3	13.7	3.2	3.5	<1	<0.2	<1	<10	<5	42	6.9	<10	7	<5
SO98-430	42.4	<3	9.2	3.5	2.6	2	0.3	<1	<10	<5	41	6.9	<10	17	<5
SO98-431	31.6	<3	13.9	3.7	4.9	<1	<0.2	<1	<10	<5	37	4.9	<10	8	<5
SO98-432	34.4	<3	14.7	4.2	3.6	<1	<0.2	<1	<10	<5	47	8.5	<10	3	<5
SO98-433	65.8	<3	11.1	3.4	1.3	<1	0.4	<1	<10	<5	79	7.0	<10	13	<5
SO98-434	49.2	<3	5.4	6.1	2.2	<1	<0.2	<1	<10	<5	34	5.4	<10	9	<5
SO98-435	52.4	<3	44.1	2.5	3.3	<1	0.3	<1	<10	<5	63	4.6	<10	7	<5
SO98-436	98.3	<3	30.6	4.5	2.4	<1	0.2	<1	<10	<5	65	7.0	<10	11	<5
SO98-437	204	<3	30.6	22.3	2.5	<1	0.2	<1	<10	<5	85	19.9	<10	10	<5
SO98-438	153	<3	24.7	10.1	1.9	<1	<0.2	<1	<10	<5	72	17.4	<10	12	<5
SO98-439	48.2	<3	11.7	2.6	1.9	<1	<0.2	<1	<10	<5	34	6.1	<10	11	<5
SO98-440	120	<3	12.5	21.8	2.0	<1	<0.2	<1	<10	<5	65	32.0	<10	10	<5

Element.	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb	Bi
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	2	5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
SO98-441	91.2	<3	37.6	11.4	1.3	<1	0.3	<1	<10	<5	74	26.2	<10	18	<5
SO98-442	57.4	<3	6.9	2.7	3.5	<1	<0.2	<1	<10	<5	36	4.7	<10	11	<5
SO98-443	29.5	<3	3.9	3.1	2.1	<1	<0.2	<1	<10	<5	23	4.0	<10	7	<5
SO98-444	18.5	<3	3.9	3.2	<0.5	<1	<0.2	<1	<10	<5	20	7.4	<10	4	<5
SO98-445	52.0	<3	6.9	5.9	1.7	<1	<0.2	<1	<10	<5	21	7.4	<10	<2	<5
SO98-446	29.6	<3	10.2	7.6	2.3	<1	<0.2	<1	<10	<5	36	11.3	<10	6	<5
SO98-447	80.3	<3	12.0	7.3	6.2	<1	<0.2	<1	<10	<5	80	12.0	<10	12	<5
SO98-448	66.9	<3	5.1	3.6	3.0	<1	<0.2	<1	<10	<5	51	7.6	<10	6	<5
SO98-449	70.2	<3	6.3	3.7	2.8	<1	<0.2	<1	<10	<5	41	6.1	<10	10	<5
SO98-450	35.4	<3	75.4	4.9	3.3	<1	<0.2	<1	<10	<5	56	8.7	<10	8	<5
SO98-451	32.9	<3	6.1	2.9	2.8	<1	<0.2	<1	<10	<5	27	5.6	<10	10	<5
SO98-452	34.5	<3	4.9	4.3	2.6	<1	<0.2	<1	<10	<5	31	8.1	<10	7	<5
SO98-453	21.8	<3	4.1	2.2	2.8	<1	0.3	<1	<10	<5	31	5.2	<10	10	<5
SO98-454	67.6	<3	4.3	2.6	4.5	<1	0.4	<1	<10	<5	32	6.4	<10	8	<5
SO98-455	18.4	<3	4.7	1.8	3.6	<1	<0.2	<1	<10	<5	26	6.8	<10	19	<5
SO98-456	16.5	<3	7.4	1.4	1.2	<1	<0.2	<1	<10	<5	25	5.6	<10	6	<5
SO98-457	69.2	<3	8.8	3.0	2.9	<1	0.2	<1	<10	<5	36	5.3	<10	10	<5
SO98-458	80.0	<3	12.1	3.8	2.6	<1	0.3	<1	<10	<5	70	7.2	<10	12	<5
SO98-459	59.4	<3	29.5	3.1	0.8	<1	<0.2	<1	<10	<5	140	6.0	<10	<2	<5
SO98-460	17.5	<3	9.1	1.9	1.2	<1	<0.2	<1	<10	<5	36	6.3	<10	17	<5
SO98-461	111	<3	9.8	2.7	2.9	<1	0.2	<1	<10	<5	38	4.8	<10	42	<5
SO98-462	130	<3	16.1	3.9	3.0	<1	0.3	<1	<10	<5	40	4.8	<10	9	<5
SO98-463	88.2	<3	13.7	3.1	2.1	<1	0.3	<1	<10	<5	33	4.1	<10	7	<5
SO98-464	116	<3	11.4	4.1	3.4	<1	0.3	<1	<10	<5	49	7.7	<10	14	<5
SO98-465	133	<3	15.1	4.8	2.8	<1	0.3	<1	<10	<5	63	8.5	<10	8	<5
SO98-466	145	<3	16.6	3.5	2.7	<1	0.3	<1	<10	<5	64	5.3	<10	9	<5
SO98-467	73.9	<3	9.8	8.1	1.5	<1	<0.2	<1	<10	<5	238	11.3	<10	8	<5
SO98-468	113	<3	6.7	7.4	1.8	<1	0.2	<1	<10	<5	56	12.1	<10	8	<5
SO98-469	41.0	<3	11.9	4.1	1.1	<1	<0.2	<1	<10	<5	130	6.0	<10	6	<5
SO98-470	30.4	<3	3.6	2.3	0.9	<1	<0.2	<1	<10	<5	47	4.7	<10	10	<5

Element.	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb	Bi
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	2	5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
*Dup SO98-351	107	<3	45.3	10.8	1.6	<1	<0.2	<1	<10	<5	57	17.9	<10	9	<5
*Dup SO98-363	77.2	<3	35.2	3.8	1.5	<1	<0.2	<1	<10	<5	47	6.0	<10	6	<5
*Dup SO98-375	11.0	<3	5.4	3.1	0.8	<1	<0.2	<1	<10	<5	14	3.6	<10	<2	<5
*Dup SO98-387	169	<3	24.7	3.7	1.5	<1	<0.2	<1	<10	<5	118	6.7	<10	8	<5
*Dup SO98-399	73.1	<3	8.2	4.6	1.5	<1	<0.2	<1	<10	<5	26	7.3	<10	5	<5
*Dup SO98-411	25.2	<3	6.8	1.0	3.3	<1	<0.2	<1	<10	<5	22	1.9	<10	9	<5
*Dup SO98-423	49.1	<3	4.0	3.6	1.8	<1	<0.2	<1	<10	<5	23	4.1	<10	6	<5
*Dup SO98-435	50.4	<3	43.2	2.4	3.3	<1	0.2	<1	<10	<5	62	4.2	<10	7	<5
*Dup SO98-447	81.1	<3	11.8	7.5	7.0	<1	<0.2	<1	<10	<5	80	12.5	<10	11	<5
*Dup SO98-459	58.4	<3	28.0	2.9	0.8	<1	<0.2	<1	<10	<5	138	5.6	<10	2	<5

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CERTIFICATE OF ANALYSIS

Work Order: 052353

To: **B-MAX Ltd.**
Attn: **Gord Vandevalk**
Brothers Minerals and Exploration
R.R.#3 Milton
HALTON HILLS
ONTARIO, CANADA L9T 2X7

Date : 29/09/98

Copy 1 to :

Copy 2 to :

P.O. No. :
Project No. : MA98
No. of Samples : 92 SOILS
Date Submitted : 21/09/98
Report Comprises : Cover Sheet plus
Pages 1 to 8

Distribution of unused material:
Pulps: Pulps dumped after 90 days of reporting.
Rejects: Rejects dumped after 30 days of reporting.

Certified By :

Dr. Hugh de Souza, General Manager
XRAL Laboratories

ISO 9002 REGISTERED

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result
*INF	= Composition of this sample makes detection impossible by this method		

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

XRAL Laboratories
A Division of SGS Canada Inc.

Work Order: 052353 **Date:** 29/09/98 **FINAL**

Element.	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01	1	1	0.5
Units.	ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
SO98-471	0.6	0.02	0.21	1.82	0.04	0.01	0.05	1.6	0.10	42	38	52	2.56	6	60	3.4
SO98-472	<0.5	0.02	0.54	1.72	0.08	0.02	0.14	1.9	0.10	47	51	85	2.94	10	89	16.9
SO98-473	<0.5	0.03	0.89	1.35	0.27	0.38	0.64	1.0	0.18	46	42	137	2.22	9	28	19.5
SO98-474	<0.5	0.02	0.98	1.92	0.13	0.03	0.43	1.4	0.21	79	67	85	4.15	20	60	47.9
SO98-475	<0.5	0.02	0.63	1.57	0.04	0.03	0.21	2.2	0.13	66	67	117	3.13	18	167	24.0
SO98-476	<0.5	0.03	0.22	2.84	0.06	0.03	0.15	2.8	0.10	46	20	51	2.25	9	43	74.9
SO98-477	<0.5	0.04	0.48	0.86	0.02	0.02	0.24	1.7	0.41	132	61	40	3.38	15	56	40.1
SO98-478	<0.5	0.06	0.53	0.78	0.34	0.03	1.01	1.8	0.05	32	28	72	1.56	9	47	48.5
SO98-479	<0.5	0.03	0.77	0.66	0.03	0.01	0.14	0.7	0.06	31	427	81	2.66	26	152	8.4
SO98-480	<0.5	0.03	0.45	1.76	0.25	0.05	0.34	1.5	0.15	62	14	95	3.96	7	12	30.1
SO98-481	<0.5	0.02	0.31	1.24	0.12	0.03	0.23	2.0	0.09	35	35	70	1.34	7	31	28.5
SO98-482	1.1	0.02	0.60	3.50	0.14	0.02	0.81	10.5	0.10	78	67	380	3.86	19	301	93.8
SO98-483	0.6	0.02	0.41	1.53	0.04	0.03	0.24	1.5	0.11	61	72	137	3.71	12	148	24.6
SO98-484	0.6	0.02	0.41	1.54	0.05	0.04	0.55	1.4	0.10	56	59	167	3.49	11	105	10.2
SO98-485	0.7	0.03	3.37	2.21	0.13	0.17	0.87	12.6	0.10	76	345	1090	5.91	72	959	159
SO98-486	0.9	0.02	1.00	2.04	0.06	0.05	0.30	2.3	0.12	74	112	324	4.57	27	235	22.3
SO98-487	<0.5	0.03	1.10	1.52	0.05	0.04	0.39	2.7	0.08	47	89	220	2.87	22	319	39.3
SO98-488	<0.5	0.02	0.64	0.98	0.04	0.04	0.47	3.6	0.04	46	107	1310	3.03	31	391	34.5
SO98-489	<0.5	0.03	0.86	1.15	0.03	0.03	0.54	2.4	0.08	41	105	242	2.99	22	319	11.4
SO98-490	<0.5	0.03	1.51	1.25	0.03	0.04	0.23	2.4	0.06	41	109	247	2.76	30	340	14.7
SO98-491	0.6	0.02	0.67	1.58	0.03	0.03	0.10	1.7	0.11	69	129	382	4.26	27	288	9.7
SO98-492	<0.5	0.02	0.76	0.76	0.07	0.03	0.29	2.9	0.05	29	63	261	1.82	14	128	11.5
SO98-493	<0.5	0.02	0.14	0.73	0.04	0.03	0.14	1.0	0.10	38	24	62	1.74	5	66	3.9
SO98-494	0.8	0.02	0.96	2.48	0.05	0.03	0.15	2.3	0.12	55	91	146	3.90	16	200	7.8
SO98-495	0.6	0.03	2.34	1.91	0.08	0.05	1.28	4.6	0.05	51	167	209	3.76	28	397	42.1
SO98-496	0.6	0.02	1.17	1.81	0.07	0.04	0.61	1.8	0.10	53	109	269	3.81	27	332	14.3
SO98-497	<0.5	0.02	0.46	0.62	0.05	0.02	0.23	1.0	0.06	29	39	110	1.29	4	85	5.6
SO98-498	<0.5	0.02	0.26	0.77	0.03	0.03	0.13	1.1	0.13	56	47	102	2.82	8	87	4.9
SO98-499	0.5	0.02	0.94	1.43	0.05	0.04	0.19	2.2	0.12	67	88	138	3.39	16	217	25.6
SO98-500	0.5	0.02	0.44	1.24	0.05	0.05	0.44	3.7	0.09	56	75	430	3.19	16	170	35.6

Work Order: 052353 **Date:** 29/09/98 **FINAL**

Element.	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01	1	1	0.5
Units.	ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
SO98-501	0.5	0.02	0.66	1.65	0.05	0.06	0.21	2.0	0.16	92	96	503	4.23	19	150	40.1
SO98-502	0.5	0.02	0.46	1.49	0.07	0.04	0.19	1.6	0.12	88	97	283	4.02	15	98	18.2
SO98-503	<0.5	0.02	0.37	1.45	0.04	0.03	0.09	1.2	0.09	40	42	205	2.46	13	135	17.4
SO98-504	<0.5	0.02	0.09	0.72	0.07	0.04	0.25	<0.5	0.02	24	11	658	1.43	11	7	9.7
SO98-505	0.6	0.03	0.42	1.97	0.12	0.03	0.43	1.5	0.13	45	17	149	3.03	19	67	75.3
SO98-506	0.7	0.02	0.12	2.35	0.06	0.02	0.38	1.4	0.18	68	17	59	3.48	6	17	14.3
SO98-507	<0.5	0.02	0.23	1.21	0.05	0.03	0.17	1.2	0.18	84	53	86	4.24	5	39	15.3
SO98-508	<0.5	0.03	0.22	2.76	0.20	0.02	0.38	1.8	0.06	64	5	49	3.29	7	5	19.7
SO98-509	<0.5	0.03	0.16	1.55	0.05	0.02	0.12	2.1	0.11	69	32	31	3.19	5	11	9.4
SO98-510	0.5	0.03	0.61	1.91	0.16	0.03	0.51	1.4	0.17	62	42	100	4.23	12	33	32.1
SO98-511	0.8	0.02	0.73	2.72	0.10	0.03	0.79	12.1	0.06	69	124	3230	3.57	51	409	173
SO98-512	<0.5	0.02	0.04	0.55	0.03	0.03	0.12	0.9	0.10	56	6	32	1.07	3	7	13.2
SO98-513	<0.5	0.02	0.09	1.41	0.06	0.02	0.13	1.1	0.10	58	19	189	3.21	3	11	15.2
SO98-514	0.7	0.02	0.52	1.97	0.08	0.03	0.45	8.0	0.21	63	61	1720	4.04	21	248	74.9
SO98-515	0.6	0.02	0.62	1.86	0.06	0.04	0.40	1.7	0.17	85	69	149	4.13	13	124	31.1
SO98-516	0.6	0.02	0.51	2.14	0.11	0.03	0.87	1.8	0.10	54	41	180	3.33	15	118	41.9
SO98-517	<0.5	0.02	0.30	1.06	0.05	0.02	0.11	0.9	0.06	29	35	286	2.02	8	109	6.0
SO98-518	<0.5	0.02	0.10	0.88	0.02	0.01	0.04	0.6	0.07	30	21	38	2.12	2	17	2.7
SO98-519	<0.5	0.02	0.13	0.83	0.03	0.02	0.06	1.0	0.06	21	22	31	0.88	2	22	3.3
SO98-520	<0.5	0.02	0.41	0.99	0.07	0.02	0.19	1.3	0.12	49	45	78	2.40	6	108	6.0
SO98-521	0.5	0.02	0.37	1.66	0.06	0.03	0.29	1.8	0.08	32	31	109	2.21	12	107	21.6
SO98-522	<0.5	0.02	0.43	1.36	0.09	0.03	0.28	1.7	0.08	33	31	79	1.72	13	137	71.7
SO98-523	<0.5	0.02	0.14	2.33	0.09	0.02	0.09	2.1	0.09	52	18	46	2.38	2	10	28.8
SO98-524	<0.5	0.03	0.33	2.78	0.06	0.02	0.10	3.6	0.15	92	65	34	3.99	13	68	23.8
SO98-525	<0.5	0.02	0.71	1.56	0.03	0.03	0.22	2.0	0.19	115	55	242	4.44	14	112	16.6
SO98-526	0.6	0.04	0.39	2.72	0.08	0.03	0.38	2.4	0.16	47	28	70	2.95	23	87	25.8
SO98-527	<0.5	0.02	0.33	1.35	0.03	0.03	0.25	1.4	0.13	68	69	106	3.95	20	111	71.8
SO98-528	<0.5	0.04	0.46	1.93	0.63	0.07	1.28	1.8	0.10	66	9	103	3.49	11	19	57.8
SO98-529	0.6	0.02	0.39	2.09	0.07	0.04	0.18	2.3	0.19	125	53	88	4.91	22	68	58.7
SO98-530	<0.5	0.02	0.23	1.11	0.04	0.03	0.16	1.5	0.13	69	55	112	3.16	7	72	20.3

Element.	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01	1	1	0.5
Units.	ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
SO98-531	1.2	0.07	0.64	2.58	0.13	0.03	1.68	3.6	0.12	56	31	1050	4.79	26	61	57.6
SO98-532	<0.5	0.03	0.10	3.11	0.29	0.03	0.42	1.3	0.05	67	28	44	3.88	3	7	19.3
SO98-533	<0.5	0.02	0.21	2.61	0.13	0.02	0.09	1.5	0.04	39	18	61	2.31	4	15	24.9
SO98-534	<0.5	0.02	0.18	2.19	0.09	0.03	0.11	1.4	0.05	44	15	67	1.98	3	12	22.1
SO98-535	<0.5	0.04	0.62	1.85	0.10	0.11	0.31	1.9	0.10	66	6	70	2.41	17	55	93.5
SO98-536	0.5	0.02	0.65	1.74	0.07	0.03	0.19	2.3	0.11	58	88	200	3.19	23	216	50.1
SO98-537	0.6	0.03	0.92	1.58	0.11	0.08	0.36	2.4	0.13	71	67	351	3.51	16	116	33.7
SO98-538	<0.5	0.03	0.65	1.83	0.21	0.08	0.52	1.1	0.08	33	43	406	2.20	17	93	60.4
SO98-539	0.5	0.02	0.97	1.65	0.13	0.05	0.32	2.2	0.12	73	91	313	3.85	23	249	35.8
SO98-540	<0.5	0.02	0.61	1.33	0.08	0.03	0.28	1.7	0.13	63	66	156	3.97	14	146	16.6
SO98-541	0.6	0.02	1.21	1.83	0.06	0.04	0.24	1.8	0.09	56	106	417	3.90	28	297	13.0
SO98-001	<0.5	0.02	0.51	1.04	0.04	0.04	0.12	1.3	0.10	41	79	350	3.90	22	148	58.1
SO98-002	0.9	0.02	0.16	0.83	0.13	0.04	0.34	2.2	0.10	104	15	1080	9.73	58	253	236
SO98-003	1.0	0.02	0.08	0.98	0.09	0.02	0.15	0.5	0.11	69	12	519	8.49	26	113	195
SO98-004	0.5	0.02	0.41	1.61	0.07	0.06	0.17	1.8	0.10	46	24	114	2.83	11	32	33.4
SO98-005	<0.5	0.02	0.48	1.49	0.09	0.04	0.20	1.6	0.14	51	35	120	3.43	11	30	50.2
SO98-006	0.8	0.02	1.20	2.58	0.11	0.05	0.48	3.3	0.29	88	86	246	4.54	17	45	44.7
SO98-007	<0.5	0.02	0.15	0.90	0.05	0.03	0.17	1.1	0.07	26	14	80	1.61	2	8	6.2
SO98-008	0.5	0.02	0.53	1.39	0.05	0.11	0.20	2.3	0.18	61	29	171	2.99	8	24	22.6
SO98-009	0.6	0.02	0.49	1.53	0.04	0.08	0.18	2.3	0.19	68	30	176	3.93	8	23	19.1
SO98-010	<0.5	0.04	2.07	2.73	0.30	0.65	0.70	2.1	0.27	103	77	199	4.88	14	41	30.7
SO98-011	<0.5	0.02	0.28	1.66	0.11	0.03	0.17	1.4	0.07	31	22	122	1.99	6	18	11.9
SO98-012	<0.5	0.02	0.85	2.05	0.20	0.23	0.37	0.8	0.16	55	46	761	3.45	16	30	9.8
SO98-013	<0.5	0.02	0.55	1.60	0.09	0.07	0.27	1.4	0.10	33	27	130	2.07	7	19	14.0
SO98-014	<0.5	0.02	0.35	1.51	0.07	0.04	0.17	1.9	0.08	30	20	107	1.94	31	59	112
SO98-015	0.6	0.02	1.20	2.52	0.18	0.44	0.42	2.0	0.22	96	38	407	5.79	11	15	77.1
SO98-016	<0.5	0.02	0.42	1.38	0.26	0.06	0.25	1.5	0.11	64	43	105	3.59	6	13	12.1
SO98-017	0.5	0.02	0.35	1.41	0.10	0.04	0.28	1.6	0.08	30	23	130	1.97	9	40	41.4
SO98-018	<0.5	0.02	0.23	0.98	0.07	0.06	0.19	1.1	0.09	40	23	432	1.94	5	11	13.4
SO98-019	0.8	0.02	1.52	3.96	0.15	0.66	0.08	10.9	0.29	160	88	231	8.11	8	14	175

Element.	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01	1	1	0.5
Units.	ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
SO98-020	0.6	0.03	0.71	2.30	0.14	0.30	0.26	2.2	0.15	45	29	215	3.88	18	52	115
SO98-021	0.7	0.02	0.83	2.09	0.11	0.34	0.21	3.9	0.23	87	47	490	5.26	20	44	150
*Dup SO98-471	0.6	0.02	0.21	1.76	0.03	0.01	0.05	1.5	0.10	40	35	51	2.47	6	59	4.1
*Dup SO98-483	0.5	0.02	0.39	1.46	0.03	0.03	0.23	1.4	0.11	57	70	128	3.54	13	140	24.4
*Dup SO98-495	0.5	0.02	2.21	1.83	0.09	0.05	1.24	4.4	0.05	49	161	198	3.61	28	381	40.2
*Dup SO98-507	<0.5	0.02	0.23	1.21	0.05	0.03	0.17	1.1	0.18	84	53	86	4.29	6	40	16.6
*Dup SO98-519	<0.5	0.02	0.12	0.80	0.03	0.01	0.05	1.0	0.06	20	22	28	0.86	2	22	4.3
*Dup SO98-531	1.2	0.06	0.62	2.50	0.12	0.03	1.62	3.4	0.13	55	30	1040	4.70	25	59	58.1
*Dup SO98-002	0.9	0.02	0.16	0.81	0.13	0.03	0.34	2.1	0.11	102	15	1090	9.63	58	250	233
*Dup SO98-014	<0.5	0.02	0.34	1.50	0.07	0.04	0.16	1.8	0.08	29	19	104	1.91	29	59	109

Element.	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb	Bi
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	2	5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
SO98-471	46.6	<3	3.8	4.5	2.9	<1	<0.2	4	<10	<5	29	5.1	<10	5	<5
SO98-472	49.6	<3	5.8	4.5	2.4	<1	<0.2	4	<10	<5	30	5.7	<10	7	<5
SO98-473	33.8	<3	15.7	5.5	1.2	<1	<0.2	4	<10	<5	195	5.7	<10	2	<5
SO98-474	63.0	<3	20.8	5.3	1.7	<1	<0.2	6	<10	<5	50	7.7	<10	4	<5
SO98-475	99.4	<3	13.2	3.9	2.5	<1	<0.2	5	<10	<5	60	6.2	<10	8	<5
SO98-476	39.1	<3	11.0	2.8	3.2	<1	<0.2	3	<10	<5	29	4.7	<10	10	<5
SO98-477	18.4	<3	13.0	2.8	2.8	<1	<0.2	5	<10	<5	21	2.2	<10	4	<5
SO98-478	27.6	<3	37.7	3.6	1.2	<1	<0.2	2	<10	<5	46	11.6	<10	2	<5
SO98-479	29.1	<3	10.9	0.5	1.7	<1	<0.2	4	<10	<5	20	1.3	<10	3	<5
SO98-480	57.5	<3	19.6	2.9	2.2	<1	<0.2	6	<10	<5	95	4.4	<10	9	<5
SO98-481	29.5	<3	14.9	3.0	2.2	<1	<0.2	2	<10	<5	42	8.6	<10	6	<5
SO98-482	162	<3	66.1	62.1	5.9	<1	<0.2	6	<10	<5	100	63.9	<10	17	<5
SO98-483	147	<3	18.4	3.8	2.5	<1	<0.2	6	<10	<5	63	7.6	<10	14	<5
SO98-484	113	<3	44.3	3.6	2.3	<1	<0.2	5	<10	<5	78	6.0	<10	9	<5
SO98-485	338	<3	54.6	53.1	4.1	<1	0.6	9	<10	<5	110	50.4	<10	26	<5
SO98-486	133	<3	21.3	4.6	2.4	<1	<0.2	7	<10	<5	54	6.6	<10	12	<5
SO98-487	113	<3	25.6	6.9	1.7	<1	<0.2	4	<10	<5	54	10.7	<10	20	<5
SO98-488	96.7	<3	34.7	12.6	1.6	<1	0.2	5	<10	<5	55	17.6	<10	7	<5
SO98-489	76.3	<3	45.6	5.3	2.1	<1	<0.2	4	<10	<5	73	10.8	<10	8	<5
SO98-490	82.4	<3	17.0	5.1	1.4	<1	<0.2	4	<10	<5	55	10.9	<10	7	<5
SO98-491	122	<3	8.3	3.1	2.4	<1	<0.2	6	<10	<5	42	6.5	<10	8	<5
SO98-492	37.4	<3	12.5	9.8	1.7	<1	<0.2	3	<10	<5	45	13.5	<10	5	<5
SO98-493	18.0	<3	8.3	5.1	1.5	<1	<0.2	2	<10	<5	21	7.9	<10	6	<5
SO98-494	137	<3	11.0	4.1	3.2	<1	<0.2	6	<10	<5	57	5.3	<10	7	<5
SO98-495	118	<3	81.2	18.4	2.2	<1	<0.2	6	<10	<5	68	17.9	<10	6	<5
SO98-496	87.6	<3	38.1	4.8	2.5	<1	<0.2	6	<10	<5	44	6.0	<10	7	<5
SO98-497	42.5	<3	14.3	3.3	1.3	<1	<0.2	2	<10	<5	41	7.2	<10	3	<5
SO98-498	43.3	<3	12.1	2.5	1.9	<1	<0.2	4	<10	<5	43	5.9	<10	7	<5
SO98-499	98.8	<3	16.2	4.5	2.4	<1	<0.2	5	<10	<5	59	7.8	<10	10	<5
SO98-500	117	<3	35.7	22.0	2.5	<1	<0.2	5	<10	<5	74	23.4	<10	14	<5

Element.	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb	Bi
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	2	5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
SO98-501	156	<3	17.2	3.4	2.7	<1	0.3	7	<10	<5	82	7.1	<10	16	<5
SO98-502	124	<3	12.7	3.0	2.4	<1	<0.2	6	<10	<5	66	7.1	<10	10	<5
SO98-503	87.5	<3	6.8	3.2	1.4	<1	<0.2	4	<10	<5	35	7.1	<10	3	<5
SO98-504	35.3	<3	27.7	2.5	0.8	<1	<0.2	2	<10	<5	66	6.4	<10	10	<5
SO98-505	65.4	<3	26.5	5.8	3.3	<1	<0.2	4	<10	<5	45	6.3	<10	3	<5
SO98-506	38.5	<3	36.3	4.3	5.1	<1	<0.2	5	<10	<5	49	7.4	<10	4	<5
SO98-507	55.4	<3	18.0	2.7	3.5	<1	<0.2	7	<10	<5	46	6.1	<10	12	<5
SO98-508	32.9	<3	15.8	5.1	2.4	<1	<0.2	5	<10	<5	27	4.7	<10	4	<5
SO98-509	19.7	<3	7.3	2.3	3.3	<1	<0.2	5	<10	<5	30	3.6	<10	3	<5
SO98-510	76.2	<3	30.5	2.9	2.7	<1	<0.2	6	<10	<5	63	4.9	<10	6	<5
SO98-511	172	<3	61.0	99.6	2.6	<1	<0.2	7	<10	<5	100	111	<10	11	<5
SO98-512	19.5	<3	14.9	1.3	1.8	<1	<0.2	2	<10	<5	35	5.0	<10	9	<5
SO98-513	119	<3	13.1	2.1	2.5	<1	<0.2	6	<10	<5	86	5.2	<10	10	<5
SO98-514	91.0	<3	32.7	33.2	14.0	<1	0.3	7	<10	<5	111	39.1	<10	12	<5
SO98-515	86.7	<3	26.9	3.9	2.7	<1	<0.2	7	<10	<5	57	7.3	<10	15	<5
SO98-516	86.5	<3	62.3	4.8	3.5	<1	<0.2	5	<10	<5	37	7.6	<10	33	<5
SO98-517	61.0	<3	5.6	4.3	1.2	<1	<0.2	3	<10	<5	37	4.3	<10	6	<5
SO98-518	13.7	<3	2.7	2.5	1.6	<1	<0.2	3	<10	<5	18	4.4	<10	4	<5
SO98-519	14.1	<3	3.7	3.6	1.3	<1	<0.2	2	<10	<5	15	6.6	<10	5	<5
SO98-520	39.8	<3	7.2	7.4	2.2	<1	<0.2	4	<10	<5	26	11.3	<10	5	<5
SO98-521	47.7	<3	18.4	5.8	2.5	<1	<0.2	3	<10	<5	35	9.0	<10	8	<5
SO98-522	43.9	<3	12.1	4.6	2.4	<1	<0.2	3	<10	<5	51	9.8	<10	4	<5
SO98-523	25.1	<3	7.8	2.0	4.2	<1	<0.2	3	<10	<5	31	6.5	<10	7	<5
SO98-524	39.7	<3	4.2	2.3	4.7	<1	<0.2	6	<10	<5	26	3.4	<10	3	<5
SO98-525	62.0	<3	16.3	3.3	3.0	<1	<0.2	7	<10	<5	81	10.4	<10	13	<5
SO98-526	44.6	<3	28.8	5.6	7.3	<1	<0.2	4	<10	<5	43	7.6	<10	5	<5
SO98-527	102	<3	19.2	2.9	2.6	<1	0.2	6	<10	<5	52	6.4	<10	8	<5
SO98-528	37.5	<3	42.3	6.2	2.5	<1	<0.2	5	<10	<5	82	16.8	<10	3	<5
SO98-529	111	<3	20.7	2.8	3.0	<1	<0.2	8	<10	<5	105	6.2	<10	11	<5
SO98-530	74.9	<3	12.7	4.8	2.0	<1	<0.2	5	<10	<5	41	8.8	<10	15	<5

Element.	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb	Bi
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	2	5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
SO98-531	110	<3	147	42.7	10.4	<1	<0.2	8	<10	<5	92	33.7	<10	13	<5
SO98-532	22.0	<3	21.4	3.9	2.1	<1	<0.2	6	<10	<5	34	9.7	<10	8	<5
SO98-533	31.1	<3	6.7	2.8	1.4	<1	<0.2	3	<10	<5	24	7.2	<10	4	<5
SO98-534	33.6	<3	11.2	2.2	1.6	<1	<0.2	3	<10	<5	48	7.6	<10	4	<5
SO98-535	50.0	<3	17.9	2.0	1.5	<1	<0.2	4	<10	<5	76	3.5	<10	<2	<5
SO98-536	113	<3	9.3	5.2	2.6	<1	0.3	5	<10	<5	27	9.7	<10	8	<5
SO98-537	128	<3	14.0	3.3	1.9	<1	<0.2	6	<10	<5	76	7.1	<10	10	<5
SO98-538	90.9	<3	18.8	2.3	1.4	<1	<0.2	3	<10	<5	77	5.4	<10	<2	<5
SO98-539	142	<3	14.2	4.7	2.1	<1	<0.2	6	<10	<5	62	9.1	<10	11	<5
SO98-540	85.7	<3	18.6	3.8	2.5	<1	<0.2	6	<10	<5	50	7.6	<10	8	<5
SO98-541	105	<3	16.2	4.3	2.2	<1	<0.2	6	<10	<5	52	6.9	<10	7	<5
SO98-001	95.6	<3	6.2	3.1	2.4	<1	<0.2	6	<10	<5	35	5.2	<10	7	<5
SO98-002	109	<3	12.5	3.1	4.0	1	0.5	16	<10	<5	92	6.6	<10	10	<5
SO98-003	64.4	<3	6.0	3.5	4.7	1	0.3	14	<10	<5	37	24.3	<10	11	<5
SO98-004	230	<3	8.3	4.0	2.2	<1	0.7	5	<10	<5	58	6.5	<10	17	<5
SO98-005	203	<3	7.9	3.4	2.9	<1	0.2	6	<10	<5	47	5.9	<10	20	<5
SO98-006	73.0	<3	26.6	6.0	5.7	<1	<0.2	8	<10	<5	76	16.8	<10	5	<5
SO98-007	33.6	<3	9.1	4.0	1.2	<1	<0.2	2	<10	<5	32	5.6	<10	4	<5
SO98-008	58.5	<3	13.0	4.0	3.2	<1	<0.2	5	<10	<5	59	9.4	<10	7	<5
SO98-009	85.2	<3	11.0	4.2	3.5	<1	<0.2	6	<10	<5	69	7.9	<10	8	<5
SO98-010	55.5	<3	16.3	3.5	1.9	<1	<0.2	8	<10	<5	252	7.8	<10	<2	<5
SO98-011	84.2	<3	7.2	3.9	1.7	<1	<0.2	3	<10	<5	42	7.2	<10	4	<5
SO98-012	86.9	<3	12.0	3.4	1.6	<1	<0.2	5	<10	<5	62	7.2	<10	3	<5
SO98-013	31.1	<3	9.5	5.0	1.8	<1	<0.2	3	<10	<5	32	12.3	<10	<2	<5
SO98-014	81.1	<3	5.1	6.3	1.9	<1	<0.2	3	<10	<5	46	11.9	<10	5	<5
SO98-015	150	<3	23.5	3.6	2.5	1	<0.2	9	<10	<5	197	8.2	<10	2	<5
SO98-016	45.2	<3	10.5	1.8	1.7	<1	<0.2	6	<10	<5	56	4.5	<10	6	<5
SO98-017	57.4	<3	10.5	6.4	1.9	<1	<0.2	3	<10	<5	41	12.8	<10	7	<5
SO98-018	38.6	<3	12.1	2.4	1.3	<1	<0.2	3	<10	<5	68	5.4	<10	4	<5
SO98-019	168	<3	13.9	10.4	3.6	6	<0.2	13	<10	<5	488	23.4	<10	5	<5

Element.	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb	Bi
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	2	5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
SO98-020	139	<3	13.1	5.3	2.0	2	<0.2	6	<10	<5	225	11.9	<10	11	<5
SO98-021	289	<3	15.7	5.2	4.7	2	0.3	8	<10	<5	264	17.6	<10	31	<5
*Dup SO98-471	46.0	<3	3.4	4.3	2.8	<1	<0.2	4	<10	<5	28	5.2	<10	5	<5
*Dup SO98-483	142	<3	17.4	3.6	2.2	<1	0.2	5	<10	<5	59	8.0	<10	13	<5
*Dup SO98-495	114	<3	77.2	18.0	2.2	<1	<0.2	5	<10	<5	64	17.0	<10	6	<5
*Dup SO98-507	55.5	<3	18.1	2.7	3.2	<1	<0.2	7	<10	<5	46	5.5	<10	11	<5
*Dup SO98-519	13.7	<3	3.4	2.9	1.2	<1	<0.2	1	<10	<5	15	5.7	<10	4	<5
*Dup SO98-531	106	<3	140	41.9	11.2	<1	<0.2	8	<10	<5	90	33.0	<10	13	<5
*Dup SO98-002	107	<3	12.4	3.1	3.9	1	0.4	16	<10	<5	92	6.8	<10	9	<5
*Dup SO98-014	78.9	<3	4.9	6.3	2.5	<1	<0.2	3	<10	<5	46	12.2	<10	4	<5

XRAL Laboratories
A Division of SGS Canada Inc.

1885 Leslie Street
Don Mills, Ontario
Canada M3B 3J4
Telephone (416) 445-5755
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CERTIFICATE OF ANALYSIS

Work Order: 052658

To: **B-MAX Ltd.**
Attn: **Gord Vandevalk**
Brothers Minerals and Exploration
R.R.#3 Milton
HALTON HILLS
ONTARIO, CANADA L9T 2X7

Date : 21/10/98

Copy 1 to :

Copy 2 to :

P.O. No.	:	
Project No.	:	MA98
No. of Samples	:	58 SOIL
Date Submitted	:	13/10/98
Report Comprises	:	Cover Sheet plus Pages 1 to 6

Distribution of unused material:
Pulps: Pulps dumped after 90 days of reporting.
Rejects: Rejects dumped after 30 days of reporting.

Certified By :

Dr. Hugh de Souza, General Manager
XRAL Laboratories

ISO 9002 REGISTERED

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result
*INF	= Composition of this sample makes detection impossible by this method		

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

XRAL Laboratories
A Division of SGS Canada Inc.

Work Order: 052658 **Date:** 21/10/98 **FINAL**

Element.	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01	1	1	0.5
Units.	ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
SO98-542	<0.5	0.02	0.87	2.36	0.11	0.24	0.15	2.5	0.25	108	82	253	5.66	16	66	59.9
SO98-543	<0.5	0.02	0.59	2.15	0.25	0.13	0.34	1.8	0.22	106	54	107	5.17	5	22	15.4
SO98-544	<0.5	0.01	0.49	1.51	0.07	0.05	0.12	1.9	0.18	83	33	266	3.17	6	24	19.0
SO98-545	<0.5	0.02	0.66	1.78	0.07	0.04	0.12	2.2	0.12	58	77	379	3.13	17	180	26.7
SO98-546	<0.5	0.01	0.19	0.88	0.02	0.04	0.11	1.2	0.13	49	37	90	2.49	2	27	7.3
SO98-547	<0.5	0.02	0.39	1.42	0.05	0.05	0.16	1.9	0.17	65	42	113	3.45	5	28	22.4
SO98-548	<0.5	0.01	0.65	1.60	0.06	0.12	0.46	3.3	0.16	75	77	282	3.48	10	63	22.4
SO98-549	<0.5	0.02	0.52	2.72	0.06	0.04	0.34	3.3	0.10	54	72	566	3.13	20	205	49.8
SO98-550	<0.5	0.02	0.42	1.67	0.06	0.03	0.42	1.6	0.12	99	35	153	3.71	17	90	43.0
SO98-551	<0.5	0.02	0.42	1.85	0.06	0.03	0.20	2.5	0.12	64	60	97	3.99	7	87	53.1
SO98-552	<0.5	0.02	0.12	1.23	0.03	0.02	0.18	1.4	0.09	36	20	108	1.82	6	22	9.2
SO98-553	<0.5	0.01	0.82	1.88	0.04	0.04	0.26	3.2	0.08	43	93	339	2.72	18	353	64.1
SO98-554	<0.5	0.01	0.16	0.83	0.04	0.06	0.18	1.6	0.14	62	23	87	2.53	2	18	10.5
SO98-555	<0.5	0.02	0.52	1.73	0.09	0.07	0.98	9.1	0.03	44	71	2930	2.33	18	182	65.0
SO98-556	<0.5	0.01	0.20	1.21	0.05	0.05	0.13	1.7	0.20	99	40	62	4.27	1	13	8.7
SO98-557	<0.5	0.01	0.15	1.59	0.05	0.04	0.06	1.4	0.11	48	34	66	3.06	1	12	7.5
SO98-558	<0.5	0.01	0.08	0.49	0.02	0.04	0.08	0.8	0.13	40	16	61	1.28	<1	11	6.2
SO98-559	<0.5	0.01	0.20	1.50	0.03	0.06	0.06	2.4	0.15	61	48	59	2.83	3	17	10.2
SO98-560	<0.5	0.01	0.06	0.79	0.02	0.02	0.03	0.7	0.23	104	26	42	3.02	<1	6	3.0
SO98-561	<0.5	0.02	0.21	1.83	0.04	0.03	0.12	1.7	0.10	34	40	65	2.76	2	24	7.2
SO98-562	<0.5	0.02	0.47	1.28	0.03	0.03	0.15	1.8	0.12	33	41	68	1.81	7	76	16.1
SO98-563	<0.5	0.02	0.25	0.95	0.02	0.04	0.09	1.4	0.18	61	23	74	2.82	3	9	15.8
SO98-564	<0.5	0.02	0.92	2.53	0.08	0.08	0.19	1.8	0.24	57	72	160	3.43	11	58	42.3
SO98-565	<0.5	0.01	0.19	1.96	0.05	0.03	0.05	2.2	0.14	94	31	70	4.82	3	10	30.3
SO98-566	<0.5	0.01	0.07	1.45	0.03	0.02	0.05	1.3	0.11	42	32	30	2.50	<1	7	6.4
SO98-567	0.7	0.01	0.32	2.55	0.06	0.06	0.09	3.4	0.09	58	56	323	4.21	16	40	32.6
SO98-568	<0.5	0.01	0.39	0.95	0.02	0.05	0.09	1.4	0.15	38	40	88	1.65	4	30	11.1
SO98-569	<0.5	0.01	0.33	0.77	0.02	0.05	0.19	1.3	0.15	61	58	108	1.97	2	26	6.6
SO98-570	<0.5	0.01	0.10	0.46	0.02	0.06	0.08	0.9	0.11	58	28	32	1.73	<1	7	3.2
SO98-571	<0.5	0.02	0.21	1.78	0.05	0.04	0.14	1.7	0.10	39	42	136	2.88	2	13	6.3

Element.	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01	1	1	0.5
Units.	ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
SO98-572	<0.5	0.01	0.14	1.99	0.05	0.04	0.08	1.8	0.10	46	33	65	3.03	2	12	3.8
SO98-573	<0.5	0.01	0.30	1.21	0.04	0.04	0.13	1.3	0.13	42	42	92	2.40	4	47	21.6
SO98-574	<0.5	0.02	0.40	1.72	0.12	0.05	0.16	1.6	0.11	58	63	295	3.27	8	38	19.2
SO98-575	<0.5	0.02	0.68	1.67	0.05	0.06	0.53	6.6	0.07	35	66	219	2.11	12	190	87.9
SO98-576	<0.5	0.01	0.14	1.00	0.01	0.03	0.12	1.4	0.07	28	29	66	1.52	3	38	16.8
SO98-577	<0.5	0.02	0.42	1.27	0.03	0.04	0.15	1.9	0.07	29	44	120	1.73	6	84	24.5
SO98-578	<0.5	0.01	0.31	1.62	0.03	0.05	0.14	1.8	0.09	34	47	114	2.60	7	153	34.4
SO98-579	<0.5	0.01	0.53	1.77	0.15	0.07	0.66	7.3	0.04	81	102	1920	4.58	26	185	66.2
SO98-580	<0.5	0.01	0.53	1.41	0.04	0.06	0.35	2.4	0.10	49	60	486	2.79	13	123	21.1
SO98-581	<0.5	0.03	0.92	2.73	0.11	0.04	0.34	2.2	0.08	39	59	354	2.89	21	236	38.0
SO98-582	<0.5	0.02	1.10	2.00	0.07	0.04	0.24	2.4	0.11	64	82	220	3.72	19	222	63.5
SO98-583	<0.5	0.02	1.73	1.79	0.10	0.04	0.54	3.3	0.11	55	109	532	3.27	30	308	35.9
SO98-584	<0.5	0.02	0.72	1.32	0.05	0.04	0.30	1.7	0.14	50	62	116	3.49	10	134	20.2
SO98-585	<0.5	0.02	0.74	1.02	0.12	0.22	0.37	1.3	0.26	84	23	128	2.78	12	39	63.7
SO98-586	<0.5	0.02	0.97	2.41	0.10	0.13	0.39	4.2	0.15	56	88	438	3.74	29	233	43.7
SO98-587	<0.5	0.01	0.59	1.75	0.11	0.26	0.24	1.8	0.24	96	25	474	4.67	14	17	27.1
SO98-588	<0.5	0.01	0.22	0.81	0.04	0.01	0.11	0.9	0.05	13	25	55	0.63	2	38	1.7
SO98-589	<0.5	0.01	0.16	0.65	0.05	0.02	0.11	0.9	0.05	20	19	59	1.27	4	43	6.5
SO98-590	<0.5	0.02	0.85	2.43	0.19	0.17	0.40	2.2	0.23	87	45	164	5.05	11	43	53.5
SO98-591	<0.5	0.01	0.85	1.21	0.03	0.03	0.18	2.1	0.08	44	93	172	3.03	17	224	12.8
SO98-592	<0.5	0.02	0.63	1.71	0.05	0.03	0.25	2.5	0.12	58	95	247	3.62	18	197	39.5
SO98-593	<0.5	0.02	0.13	2.76	0.10	0.02	0.17	4.2	0.13	106	39	41	5.48	2	14	35.3
SO98-594	<0.5	0.02	0.27	1.37	0.07	0.03	0.17	3.0	0.24	178	54	71	5.77	6	51	52.4
SO98-595	<0.5	0.02	0.36	1.99	0.07	0.04	0.20	2.4	0.22	76	16	42	3.74	5	15	17.1
SO98-596	<0.5	0.02	0.16	3.08	0.16	0.03	0.26	2.9	0.11	85	18	43	4.22	4	11	28.5
SO98-597	<0.5	0.02	0.24	1.42	0.09	0.02	0.22	1.5	0.11	76	23	56	3.33	6	34	27.7
SO98-598	<0.5	0.01	0.13	1.37	0.03	0.02	0.12	1.3	0.17	68	40	41	3.05	<1	9	4.4
SO98-599	<0.5	0.01	0.20	1.83	0.08	0.03	0.12	1.5	0.07	36	42	109	2.66	2	15	8.9
*Dup SO98-542	<0.5	0.01	0.93	2.46	0.12	0.26	0.17	2.5	0.26	115	85	274	5.91	17	70	63.5
*Dup SO98-554	<0.5	0.01	0.16	0.82	0.04	0.06	0.18	1.5	0.14	62	25	89	2.52	3	20	10.6

Work Order: 052658 **Date:** 21/10/98 **FINAL**

Element.	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01	1	1	0.5
Units.	ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
*Dup SO98-566	<0.5	0.01	0.07	1.45	0.04	0.02	0.05	1.3	0.11	42	32	30	2.47	<1	8	6.0
*Dup SO98-578	<0.5	0.01	0.30	1.62	0.03	0.04	0.14	1.7	0.09	34	47	114	2.58	7	150	33.9
*Dup SO98-590	<0.5	0.02	0.83	2.34	0.20	0.17	0.43	2.1	0.23	84	43	159	4.86	13	43	51.9

Work Order: 052658 **Date:** 21/10/98 **FINAL**

Element.	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb	Bi
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	2	5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
SO98-542	153	<3	23.7	3.8	1.9	2	0.3	<1	<10	<5	370	12.8	<10	12	<5
SO98-543	73.7	<3	14.5	5.0	2.5	<1	0.5	<1	<10	<5	144	7.9	<10	9	<5
SO98-544	73.2	<3	5.4	3.4	2.6	<1	0.2	<1	<10	<5	61	6.5	<10	9	<5
SO98-545	127	<3	6.5	5.0	1.2	<1	<0.2	<1	<10	<5	69	8.7	<10	11	<5
SO98-546	81.0	<3	8.8	3.0	2.1	<1	0.2	<1	<10	<5	49	7.1	<10	10	<5
SO98-547	110	<3	10.3	4.1	3.0	<1	<0.2	<1	<10	<5	53	7.3	<10	9	<5
SO98-548	153	<3	33.5	3.5	2.1	<1	<0.2	<1	<10	<5	90	9.1	<10	13	<5
SO98-549	101	<3	27.2	10.3	2.6	<1	<0.2	<1	<10	<5	68	17.6	<10	14	<5
SO98-550	87.1	<3	35.6	2.4	1.7	<1	<0.2	<1	<10	<5	61	5.3	<10	11	<5
SO98-551	70.0	<3	15.3	5.1	3.5	<1	0.4	<1	<10	<5	47	9.4	<10	13	<5
SO98-552	64.7	<3	16.0	2.9	1.5	<1	<0.2	<1	<10	<5	61	6.0	<10	7	<5
SO98-553	114	<3	18.1	9.1	1.9	<1	0.3	<1	<10	<5	75	11.6	<10	10	<5
SO98-554	73.1	<3	14.6	2.6	2.9	<1	<0.2	<1	<10	<5	61	7.6	<10	9	<5
SO98-555	107	<3	75.9	47.2	1.6	<1	<0.2	<1	<10	<5	126	57.5	<10	11	<5
SO98-556	41.7	<3	11.4	2.7	4.3	<1	0.4	<1	<10	<5	49	7.9	<10	13	<5
SO98-557	43.0	<3	4.9	3.7	2.6	<1	0.4	<1	<10	<5	40	9.1	<10	15	<5
SO98-558	22.5	<3	9.4	2.2	1.8	<1	0.2	<1	<10	<5	41	8.5	<10	17	<5
SO98-559	24.8	<3	7.5	7.2	3.6	<1	<0.2	<1	<10	<5	66	16.4	<10	15	<5
SO98-560	17.9	<3	5.2	1.5	2.6	<1	<0.2	<1	<10	<5	22	5.8	<10	17	<5
SO98-561	34.6	<3	9.5	3.2	3.2	<1	0.4	<1	<10	<5	39	9.7	<10	10	<5
SO98-562	33.5	<3	9.9	3.3	3.3	<1	<0.2	<1	<10	<5	39	6.7	<10	7	<5
SO98-563	29.0	<3	5.0	2.9	1.5	<1	<0.2	<1	<10	<5	30	5.0	<10	7	<5
SO98-564	105	<3	7.6	3.4	3.1	<1	0.4	<1	<10	<5	62	6.0	<10	7	<5
SO98-565	51.4	<3	3.5	4.3	3.0	<1	<0.2	<1	<10	<5	34	8.0	<10	12	<5
SO98-566	21.2	<3	6.9	2.6	2.8	<1	0.2	<1	<10	<5	50	9.0	<10	15	<5
SO98-567	89.3	<3	7.1	15.9	2.4	1	0.3	<1	<10	<5	73	18.5	<10	10	6
SO98-568	33.5	<3	7.9	2.9	2.0	<1	0.3	<1	<10	<5	45	7.9	<10	13	<5
SO98-569	30.6	<3	15.7	1.7	2.6	1	0.4	<1	<10	<5	30	7.2	<10	11	<5
SO98-570	11.7	<3	6.8	2.1	1.8	<1	<0.2	<1	<10	<5	29	16.0	<10	8	<5
SO98-571	124	<3	12.2	3.7	3.1	<1	0.4	<1	<10	<5	54	10.5	<10	9	5

Element.	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb	Bi
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	2	5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
SO98-572	48.5	<3	6.0	4.3	3.5	<1	<0.2	<1	<10	<5	33	8.8	<10	15	<5
SO98-573	30.5	<3	9.6	4.1	1.7	<1	<0.2	<1	<10	<5	42	9.1	<10	10	<5
SO98-574	92.6	<3	11.3	3.6	2.6	<1	<0.2	<1	<10	<5	68	9.1	<10	9	<5
SO98-575	67.8	<3	39.3	49.9	2.0	<1	<0.2	<1	<10	<5	95	36.9	<10	9	<5
SO98-576	40.5	<3	10.5	4.7	1.5	<1	<0.2	<1	<10	<5	25	7.8	<10	8	<5
SO98-577	34.5	<3	8.3	5.8	2.0	<1	<0.2	<1	<10	<5	39	10.3	<10	9	<5
SO98-578	87.0	<3	11.2	4.1	2.5	<1	0.5	<1	<10	<5	69	8.3	<10	9	<5
SO98-579	139	<3	45.1	32.0	1.8	<1	<0.2	<1	<10	<5	106	30.2	<10	8	<5
SO98-580	207	<3	27.4	3.6	1.3	<1	<0.2	<1	<10	<5	92	6.7	<10	6	<5
SO98-581	170	<3	15.7	7.7	3.6	<1	<0.2	<1	<10	<5	66	10.5	<10	24	<5
SO98-582	142	<3	12.7	5.3	1.7	<1	0.2	<1	<10	<5	44	8.9	<10	15	<5
SO98-583	179	<3	27.6	7.8	3.5	<1	<0.2	<1	<10	<5	71	12.8	<10	13	<5
SO98-584	60.0	<3	18.9	4.2	3.2	<1	0.2	<1	<10	<5	67	5.8	<10	12	<5
SO98-585	38.7	<3	11.0	4.9	2.0	<1	<0.2	<1	<10	<5	161	5.7	<10	6	<5
SO98-586	150	<3	17.3	22.2	2.9	<1	<0.2	<1	<10	<5	121	20.4	<10	11	<5
SO98-587	116	<3	11.8	6.0	2.3	<1	<0.2	<1	<10	<5	143	6.6	<10	7	<5
SO98-588	26.1	<3	4.0	3.5	1.0	<1	<0.2	<1	<10	<5	18	4.6	<10	5	<5
SO98-589	20.3	<3	3.9	4.8	1.3	<1	<0.2	<1	<10	<5	20	5.1	<10	7	<5
SO98-590	100	<3	13.4	7.0	2.8	<1	0.2	<1	<10	<5	90	13.4	<10	8	<5
SO98-591	49.8	<3	11.6	4.4	2.1	<1	0.4	<1	<10	<5	36	7.1	<10	10	<5
SO98-592	122	<3	15.8	11.2	3.0	<1	<0.2	<1	<10	<5	45	18.0	<10	25	<5
SO98-593	24.5	<3	18.2	3.2	8.2	<1	<0.2	<1	<10	<5	39	5.5	<10	13	<5
SO98-594	57.9	<3	13.1	2.1	5.2	<1	0.2	<1	<10	<5	43	3.8	<10	18	<5
SO98-595	41.3	<3	11.3	3.5	6.5	<1	<0.2	<1	<10	<5	57	6.8	<10	9	<5
SO98-596	38.4	<3	18.1	5.0	4.0	<1	0.3	<1	<10	<5	46	6.1	<10	7	<5
SO98-597	67.9	<3	16.0	2.8	2.4	<1	<0.2	<1	<10	<5	34	4.3	<10	9	<5
SO98-598	26.9	<3	13.1	2.4	3.5	<1	0.2	<1	<10	<5	46	8.9	<10	16	<5
SO98-599	68.2	<3	9.1	3.0	1.9	<1	<0.2	<1	<10	<5	74	8.5	<10	11	<5
*Dup SO98-542	161	<3	24.8	4.0	2.8	2	0.3	<1	<10	<5	389	12.9	<10	10	<5
*Dup SO98-554	72.9	<3	14.6	2.6	3.1	<1	0.2	<1	<10	<5	61	7.5	<10	11	<5

Element.	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb	Bi
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	2	5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
*Dup SO98-566	20.7	<3	6.8	2.6	2.6	<1	<0.2	<1	<10	<5	51	8.3	<10	15	<5
*Dup SO98-578	87.1	<3	11.0	4.1	2.0	<1	0.3	<1	<10	<5	69	7.7	<10	7	<5
*Dup SO98-590	96.8	<3	14.2	7.3	2.8	1	<0.2	<1	<10	<5	88	13.0	<10	9	<5

XRAL Laboratories
A Division of SGS Canada Inc.

1885 Leslie Street
Don Mills, Ontario
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Telephone (416) 445-5755
Fax (416) 445-4152

CERTIFICATE OF ANALYSIS

Work Order: 052724

To: **B-MAX Ltd.**
Attn: **Gord Vandevalk**
Brothers Minerals and Exploration
R.R.#3 Milton
HALTON HILLS
ONTARIO, CANADA L9T 2X7

Date : 28/10/98

Copy 1 to :

Copy 2 to :

P.O. No. :
Project No. : MA98
No. of Samples : 57 SOIL
Date Submitted : 19/10/98
Report Comprises : Cover Sheet plus
Pages 1 to 6

Distribution of unused material:
Pulps: Pulps dumped after 90 days of reporting.
Rejects: Rejects dumped after 30 days of reporting.

Certified By :

Dr. Hugh de Souza, General Manager
XRAL Laboratories

ISO 9002 REGISTERED

Report Footer:
L.N.R. = Listed not received
I.S. = Insufficient Sample
n.a. = Not applicable
-- = No result
*INF = Composition of this sample makes detection impossible by this method
M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

XRAL Laboratories
A Division of SGS Canada Inc.

Work Order: 052724 **Date:** 28/10/98 **FINAL**

Element.	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01	1	1	0.5
Units.	ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
SO98-600	0.9	0.02	0.91	1.98	0.06	0.04	0.43	2.0	0.20	88	147	191	5.10	21	261	52.3
SO98-601	0.6	0.02	0.67	1.69	0.04	0.06	0.22	1.6	0.17	59	49	139	3.42	18	185	41.6
SO98-602	0.6	0.02	0.86	1.78	0.05	0.04	0.37	2.1	0.12	69	128	608	3.78	31	274	27.8
SO98-603	1.1	0.03	0.88	3.87	0.09	0.07	0.30	2.6	0.15	58	83	516	3.50	25	204	51.9
SO98-604	0.8	0.02	0.21	2.11	0.08	0.04	0.26	1.4	0.16	55	25	290	3.87	7	25	14.1
SO98-605	0.5	0.02	0.39	1.35	0.03	0.03	0.19	1.2	0.15	71	51	191	3.40	10	56	12.3
SO98-606	1.3	0.02	0.51	2.40	0.10	0.04	0.69	9.1	0.17	80	63	2650	4.79	26	260	82.0
SO98-607	<0.5	0.02	0.36	0.97	0.03	0.08	0.36	1.3	0.21	83	63	191	3.16	9	80	14.2
SO98-608	<0.5	0.02	0.89	0.64	0.06	0.04	0.20	1.3	0.05	25	59	148	1.62	15	153	15.9
SO98-609	0.8	0.02	2.70	2.06	0.09	0.14	0.42	4.4	0.16	86	272	1340	5.51	61	513	40.0
SO98-610	0.8	0.02	2.82	1.80	0.06	0.15	0.35	7.6	0.11	81	251	2530	4.57	68	890	79.2
SO98-611	<0.5	0.03	1.53	1.23	0.05	0.07	0.66	6.0	0.06	44	148	537	2.81	32	504	84.1
SO98-612	<0.5	0.02	0.65	0.71	0.04	0.04	0.56	2.4	0.04	24	73	250	1.70	13	226	31.3
SO98-613	<0.5	0.02	0.80	0.75	0.06	0.03	0.40	2.0	0.04	25	82	136	1.77	15	210	21.6
SO98-614	<0.5	0.02	0.20	1.03	0.02	0.03	0.07	0.9	0.17	45	33	58	2.43	5	42	5.0
SO98-615	0.7	0.02	1.40	1.81	0.06	0.16	0.53	16.7	0.11	49	149	1500	3.30	24	676	96.8
SO98-616	0.7	0.03	2.28	1.65	0.06	0.07	0.37	6.1	0.10	74	218	757	4.59	39	532	50.8
SO98-617	0.7	0.02	1.01	1.82	0.04	0.04	0.45	4.6	0.13	69	114	493	3.52	24	351	45.7
SO98-618	0.5	0.03	0.40	1.89	0.07	0.03	0.18	1.5	0.07	33	35	242	2.57	23	214	91.1
SO98-619	0.5	0.02	0.74	1.56	0.03	0.03	0.27	2.8	0.12	54	74	535	2.82	20	206	29.2
SO98-620	0.6	0.03	1.16	1.93	0.06	0.11	0.36	3.7	0.18	67	108	2160	3.50	33	245	34.0
SO98-621	0.7	0.02	0.89	1.73	0.05	0.05	0.19	2.0	0.18	90	120	274	4.01	23	202	24.2
SO98-622	0.6	0.02	1.27	1.79	0.08	0.08	0.36	2.0	0.14	84	147	525	3.62	33	288	28.3
SO98-623	0.8	0.02	3.74	2.23	0.11	0.16	0.50	4.3	0.14	93	337	1200	5.96	84	734	62.1
SO98-624	0.5	0.02	0.54	1.45	0.03	0.06	0.38	1.6	0.21	68	94	178	3.81	14	103	11.7
SO98-625	0.6	0.02	0.55	1.38	0.03	0.08	0.17	1.9	0.23	83	104	143	4.26	11	119	18.0
SO98-626	0.8	0.02	0.21	1.63	0.04	0.04	0.12	1.1	0.25	101	43	54	4.26	5	32	8.5
SO98-627	<0.5	0.02	0.06	0.48	0.01	0.01	0.04	<0.5	0.10	30	12	23	1.00	3	11	3.7
SO98-628	0.6	0.02	0.93	1.60	0.05	0.08	0.47	4.6	0.07	46	111	1450	3.02	37	260	25.6
SO98-629	<0.5	0.03	1.28	1.02	0.04	0.05	0.40	5.2	0.08	46	114	415	3.14	26	370	41.5

Element.	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01	1	1	0.5
Units.	ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
SO98-630	<0.5	0.03	0.97	1.45	0.04	0.05	0.36	5.1	0.09	56	113	1150	3.07	24	358	50.6
SO98-631	0.5	0.02	0.23	1.08	0.03	0.03	0.12	1.3	0.17	94	52	289	3.55	10	46	8.1
SO98-632	0.5	0.03	0.43	1.52	0.06	0.05	0.47	1.6	0.13	76	41	419	3.19	12	64	28.1
SO98-633	0.7	0.02	0.90	1.78	0.10	0.08	0.58	1.8	0.15	77	67	312	4.09	20	235	159
SO98-634	0.6	0.02	0.89	1.76	0.04	0.04	0.15	2.0	0.12	57	100	385	3.52	22	213	30.7
SO98-635	0.8	0.02	0.53	2.18	0.06	0.05	0.11	2.3	0.12	81	67	248	4.76	14	95	33.3
SO98-636	<0.5	0.03	0.18	1.93	0.09	0.04	0.09	1.7	0.10	56	33	364	3.02	6	18	24.8
SO98-637	0.8	0.03	0.64	1.88	0.04	0.04	0.33	4.7	0.07	51	111	1790	2.94	23	362	45.7
SO98-638	0.6	0.02	0.61	1.31	0.05	0.04	0.30	2.5	0.12	68	88	574	3.27	21	168	25.2
SO98-639	0.5	0.02	0.45	1.22	0.05	0.05	0.21	1.2	0.20	73	52	92	3.53	8	66	25.0
SO98-640	0.5	0.02	1.02	1.58	0.08	0.02	0.24	1.3	0.10	44	88	90	3.05	16	231	23.8
SO98-641	0.7	0.02	0.57	1.77	0.05	0.04	0.18	1.8	0.16	71	55	78	3.96	13	125	21.6
SO98-642	<0.5	0.02	0.24	1.30	0.05	0.03	0.12	2.0	0.11	59	40	186	2.63	10	52	16.3
SO98-643	0.6	0.04	0.62	1.62	0.41	0.14	1.20	1.5	0.12	67	46	100	4.47	18	64	73.3
SO98-644	2.7	0.03	0.38	4.84	0.14	0.03	0.81	3.3	0.17	74	46	649	6.31	35	193	75.0
SO98-645	<0.5	0.02	0.17	1.43	0.03	0.02	0.06	1.3	0.23	72	37	35	3.18	4	40	3.4
SO98-646	0.6	0.02	0.55	1.93	0.05	0.03	0.08	1.5	0.17	47	62	78	2.66	11	100	26.3
SO98-647	<0.5	0.02	0.73	1.13	0.03	0.02	0.16	1.3	0.09	26	72	80	2.02	12	169	11.7
SO98-648	1.5	0.03	0.48	4.27	0.10	0.03	0.38	1.6	0.10	41	26	399	3.18	26	104	54.2
SO98-649	0.6	0.02	0.28	1.53	0.03	0.02	0.11	1.7	0.21	145	57	40	4.39	9	41	14.5
SO98-650	0.5	0.02	0.11	1.56	0.05	0.02	0.20	1.1	0.17	94	15	63	3.93	5	10	17.2
SO98-651	<0.5	0.02	0.09	1.39	0.04	0.02	0.08	1.4	0.18	105	20	42	3.51	6	18	37.4
SO98-652	0.7	0.02	1.37	2.24	0.07	0.06	0.23	2.2	0.25	116	117	252	4.72	23	236	94.3
SO98-653	0.5	0.02	0.77	1.45	0.03	0.02	0.14	1.2	0.19	88	72	128	3.59	16	144	9.0
SO98-654	0.6	0.02	1.06	1.74	0.03	0.02	0.21	2.2	0.13	57	104	114	3.13	19	260	14.6
SO98-655	0.5	0.02	0.38	1.58	0.04	0.03	0.09	1.0	0.28	87	48	71	4.11	7	38	24.2
SO98-656	<0.5	0.02	0.31	1.21	0.04	0.05	0.07	1.1	0.23	77	40	70	3.31	6	18	8.8
*Dup SO98-600	0.9	0.02	0.95	2.07	0.06	0.05	0.45	2.0	0.19	95	154	211	5.44	23	291	54.8
*Dup SO98-612	<0.5	0.02	0.62	0.68	0.04	0.04	0.54	2.2	0.04	23	71	242	1.63	12	219	30.3
*Dup SO98-624	0.5	0.02	0.51	1.36	0.03	0.06	0.36	1.7	0.18	65	88	169	3.62	12	97	11.7

Element.	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01	1	1	0.5
Units.	ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm
*Dup SO98-636	<0.5	0.02	0.17	1.85	0.09	0.03	0.09	1.6	0.08	53	32	342	2.91	7	19	24.3
*Dup SO98-648	1.5	0.02	0.48	4.33	0.10	0.03	0.40	1.6	0.10	41	27	407	3.26	26	107	54.4

Element.	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb	Bi
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	2	5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
SO98-600	146	<3	35.4	3.1	4.0	<1	<0.2	<1	<10	<5	80	4.5	<10	12	<5
SO98-601	119	<3	14.6	4.0	2.1	<1	0.4	<1	<10	<5	74	5.3	<10	8	<5
SO98-602	144	<3	25.4	5.8	2.3	<1	0.3	<1	<10	<5	86	9.2	<10	13	<5
SO98-603	257	<3	15.4	7.0	4.8	<1	0.7	<1	<10	<5	62	12.1	<10	4	<5
SO98-604	86.5	<3	16.6	5.6	10.4	<1	<0.2	<1	<10	<5	69	8.7	<10	9	<5
SO98-605	123	<3	13.9	2.8	3.0	<1	0.3	<1	<10	<5	53	5.0	<10	7	<5
SO98-606	178	<3	53.8	85.0	30.4	<1	0.7	2	<10	<5	120	81.0	<10	21	<5
SO98-607	62.2	<3	25.1	2.3	3.1	<1	0.4	<1	<10	<5	65	4.7	<10	10	5
SO98-608	32.4	<3	7.9	4.1	1.3	<1	0.7	<1	<10	<5	22	5.7	<10	3	<5
SO98-609	272	<3	23.5	5.7	5.3	<1	0.8	<1	<10	<5	84	10.4	<10	12	<5
SO98-610	215	<3	21.1	23.2	3.3	<1	0.9	<1	<10	<5	113	36.3	<10	22	<5
SO98-611	106	<3	42.2	57.7	2.2	<1	<0.2	<1	<10	<5	59	35.3	<10	6	<5
SO98-612	77.4	<3	35.7	8.9	0.7	<1	0.6	<1	<10	<5	38	11.3	<10	5	<5
SO98-613	43.0	<3	22.0	11.3	0.9	<1	<0.2	<1	<10	<5	35	14.3	<10	3	<5
SO98-614	34.8	<3	5.3	2.3	3.0	<1	<0.2	<1	<10	<5	23	2.6	<10	4	<5
SO98-615	146	<3	33.7	49.2	3.6	<1	0.3	<1	<10	<5	95	46.6	<10	6	<5
SO98-616	197	<3	23.9	12.5	1.8	<1	0.3	<1	<10	<5	80	22.5	<10	16	<5
SO98-617	167	<3	31.7	17.3	2.7	<1	<0.2	<1	<10	<5	64	20.7	<10	11	<5
SO98-618	88.3	<3	10.5	3.8	4.2	<1	<0.2	<1	<10	<5	33	6.7	<10	<2	<5
SO98-619	192	<3	19.0	5.5	3.1	<1	<0.2	<1	<10	<5	56	9.2	<10	7	<5
SO98-620	355	<3	18.4	7.4	3.3	<1	0.2	<1	<10	<5	103	12.6	<10	13	<5
SO98-621	186	<3	13.3	3.0	2.2	<1	0.4	<1	<10	<5	66	5.3	<10	10	<5
SO98-622	201	<3	20.9	3.2	3.4	<1	0.2	<1	<10	<5	71	6.4	<10	12	<5
SO98-623	319	<3	25.9	4.7	3.6	<1	0.6	<1	<10	<5	120	11.2	<10	21	<5
SO98-624	118	<3	25.4	2.0	3.0	<1	<0.2	<1	<10	<5	46	4.7	<10	9	<5
SO98-625	77.3	<3	12.9	2.7	2.3	1	0.3	<1	<10	<5	53	4.9	<10	8	<5
SO98-626	36.8	<3	10.3	3.4	2.8	<1	0.4	<1	<10	<5	43	4.9	<10	7	<5
SO98-627	17.2	<3	4.4	1.8	1.8	<1	0.4	<1	<10	<5	19	3.8	<10	5	<5
SO98-628	253	<3	32.0	9.8	3.6	<1	0.7	<1	<10	<5	95	14.6	<10	8	<5
SO98-629	92.6	<3	26.2	14.4	2.8	<1	<0.2	<1	<10	<5	47	21.2	<10	4	<5

Element.	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb	Bi
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	2	5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
SO98-630	231	<3	25.0	19.1	2.1	<1	0.4	1	<10	<5	93	23.4	<10	15	<5
SO98-631	88.3	<3	8.4	2.8	3.0	<1	<0.2	<1	<10	<5	39	6.0	<10	11	<5
SO98-632	131	<3	38.3	3.0	2.7	1	0.4	<1	<10	<5	95	5.2	<10	11	<5
SO98-633	145	<3	30.6	6.0	2.1	<1	0.8	<1	<10	<5	95	8.3	<10	12	<5
SO98-634	127	<3	9.1	4.6	2.6	<1	0.7	<1	<10	<5	41	7.7	<10	11	<5
SO98-635	94.9	<3	7.6	4.5	3.2	<1	0.2	<1	<10	<5	42	7.1	<10	11	<5
SO98-636	34.9	<3	6.5	3.3	2.0	1	<0.2	<1	<10	<5	36	5.3	<10	4	<5
SO98-637	130	<3	26.2	15.0	2.3	<1	0.7	<1	<10	<5	88	24.4	<10	9	<5
SO98-638	81.4	<3	23.2	10.7	1.7	<1	0.6	<1	<10	<5	63	18.1	<10	11	<5
SO98-639	61.7	<3	12.5	3.5	3.0	<1	0.5	<1	<10	<5	51	6.1	<10	7	<5
SO98-640	85.7	<3	11.4	4.2	1.5	<1	<0.2	<1	<10	<5	33	5.1	<10	7	<5
SO98-641	107	<3	10.8	4.1	1.6	<1	0.3	<1	<10	<5	53	5.9	<10	8	<5
SO98-642	119	<3	7.4	2.4	1.8	<1	<0.2	<1	<10	<5	54	4.9	<10	4	<5
SO98-643	78.7	<3	51.7	4.9	1.9	<1	<0.2	<1	<10	<5	118	3.7	<10	3	<5
SO98-644	63.9	<3	65.1	18.9	10.2	1	0.7	<1	<10	<5	63	21.0	<10	19	6
SO98-645	17.2	<3	6.1	3.4	3.1	<1	<0.2	<1	<10	<5	29	3.5	<10	8	<5
SO98-646	64.2	<3	3.8	3.9	1.5	<1	<0.2	<1	<10	<5	25	3.9	<10	<2	<5
SO98-647	31.2	<3	8.6	2.9	1.5	<1	<0.2	<1	<10	<5	18	3.3	<10	3	<5
SO98-648	163	<3	30.9	8.9	9.4	2	<0.2	<1	<10	<5	67	7.0	<10	4	<5
SO98-649	39.8	<3	7.2	2.3	3.7	<1	0.4	<1	<10	<5	34	4.6	<10	2	<5
SO98-650	27.1	<3	12.3	1.7	5.1	<1	0.9	<1	<10	<5	34	3.5	<10	4	<5
SO98-651	23.0	<3	5.5	1.7	1.8	<1	0.2	<1	<10	<5	20	2.7	<10	4	<5
SO98-652	124	<3	12.5	4.0	2.3	1	0.9	<1	<10	<5	61	8.0	<10	8	<5
SO98-653	84.0	<3	7.1	2.7	1.6	<1	0.4	<1	<10	<5	39	4.0	<10	3	<5
SO98-654	59.9	<3	14.3	6.8	3.0	<1	0.2	<1	<10	<5	52	7.7	<10	5	<5
SO98-655	43.2	<3	8.7	3.0	2.6	1	0.3	<1	<10	<5	26	7.9	<10	5	<5
SO98-656	27.4	<3	7.8	2.4	1.6	<1	0.3	<1	<10	<5	60	4.6	<10	7	<5
*Dup SO98-600	154	<3	36.5	3.7	2.6	<1	<0.2	1	<10	<5	83	6.0	<10	15	<5
*Dup SO98-612	75.2	<3	34.7	8.3	<0.5	<1	0.3	<1	<10	<5	37	10.4	<10	4	<5
*Dup SO98-624	112	<3	24.3	1.8	3.9	<1	<0.2	<1	<10	<5	43	5.3	<10	10	5

Work Order: 052724 **Date:** 28/10/98 **FINAL**

Element.	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W	Pb	Bi
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10	2	5
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
*Dup SO98-636	33.4	<3	6.2	3.1	1.6	2	<0.2	<1	<10	<5	34	5.0	<10	3	<5
*Dup SO98-648	165	<3	31.9	9.1	8.4	2	<0.2	<1	<10	<5	68	6.4	<10	4	<5

XRAL Laboratories
A Division of SGS Canada Inc.

1885 Leslie Street
Don Mills, Ontario
Canada M3B 3J4
Telephone (416) 445-5755
Fax (416) 445-4152

CERTIFICATE OF ANALYSIS

Work Order: 053506

To: **B-MAX Ltd.**
Attn: **Gord Vandevalk**
Brothers Minerals and Exploration
R.R.#3 Milton
HALTON HILLS
ONTARIO, CANADA L9T 2X7

Date : 18/12/98

Copy 1 to :

Copy 2 to :

P.O. No.	:	POH WO#52191/353/724
Project No.	:	MA98
No. of Samples	:	11 SOILS
Date Submitted	:	09/12/98
Report Comprises	:	Cover Sheet plus Pages 1 to 1

Distribution of unused material:
Pulps: Hold
Rejects: Hold

Certified By :

Dr. Hugh de Souza, General Manager
XRAL Laboratories

ISO 9002 REGISTERED

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result
*INF	= Composition of this sample makes detection impossible by this method		

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

XRAL Laboratories
A Division of SGS Canada Inc.

Work Order: 053506 **Date:** 18/12/98 **FINAL**

Element.	Au	Pt	Pd
Method.	FA301	FA301	FA301
Det.Lim.	1	10	1
Units.	ppb	ppb	ppb
SO98-382	6	<10	1
SO98-395	6	<10	<1
SO98-440	5	<10	2
SO98-479	4	<10	<1
SO98-485	5	<10	<1
SO98-609	25	<10	<1
SO98-610	7	<10	1
SO98-611	4	<10	<1
SO98-615	7	<10	1
SO98-616	9	<10	1
SO98-623	7	<10	<1
*Dup SO98-382	6	<10	1

Appendix II

Statistical Analysis of B-Horizon Soil Samples Collected During the Initial Soil Geochemical Survey in the Main Survey Area

Distribution of Grouped Data for **Nickel** Content of Soils

Initial Soil Survey - Claim No. SO 1077361

Class Interval (ppm Ni)	Midpoint of Interval (ppm Ni)	Class Frequency	Relative Frequency	Cumulative Frequency	Cumulative Frequency (%)
0 to 40	20	97	0.324	97	32.4
41 to 80	60	58	0.194	155	51.8
81 to 120	100	38	0.127	193	64.5
121 to 160	140	29	0.097	222	74.2
161 to 200	180	21	0.070	243	81.3
201 to 240	220	16	0.054	259	86.6
241 to 280	260	7	0.023	266	89.0
281 to 320	300	9	0.030	275	92.0
321 to 360	340	7	0.023	282	94.3
361 to 400	380	9	0.030	291	97.3
401 to 440	420	4	0.013	295	98.7
441 to 480	460	0	0.000	295	98.7
481 to 520	500	0	0.000	295	98.7
521 to 560	540	0	0.000	295	98.7
561 to 600	580	1	0.003	296	99.0
601 to 640	620	0	0.000	296	99.0
641 to 680	660	1	0.003	297	99.3
681 to 720	700	0	0.000	297	99.3
721 to 760	740	1	0.003	298	99.7
761 to 800	780	0	0.000	298	99.7
801 to 840	820	0	0.000	298	99.7
841 to 880	860	0	0.000	298	99.7
881 to 920	900	0	0.000	298	99.7
921 to 960	940	1	0.003	299	100.0
TOTALS		299	1.000		

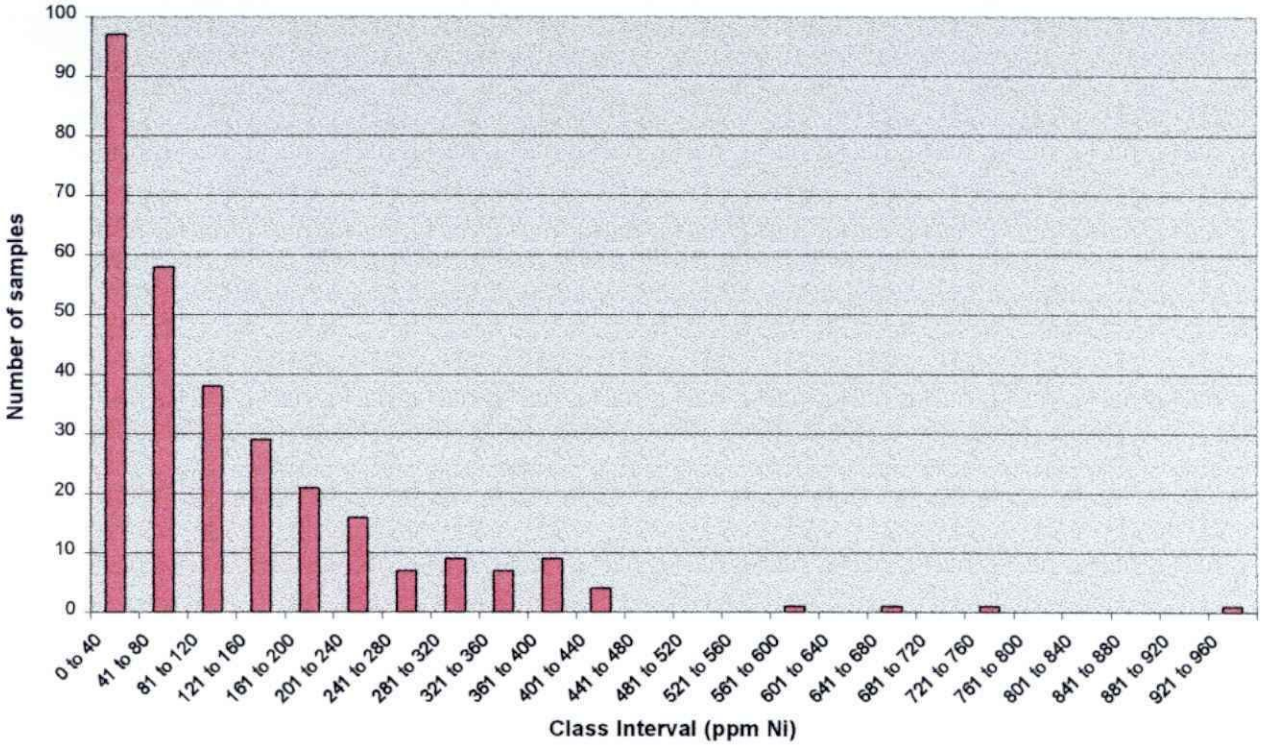
Sample Mean (from grouped data) = 119 ppm Ni

Median value (from grouped data) = 73 ppm Ni

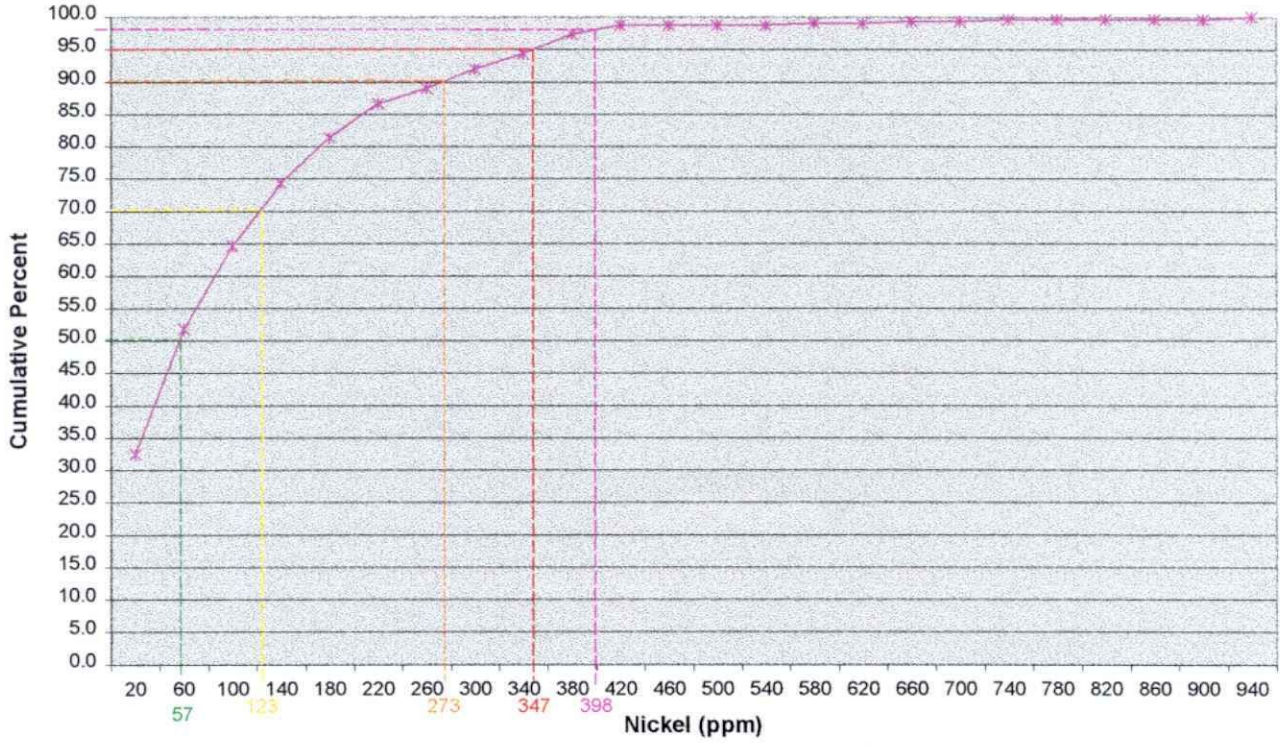
Median value (from cum. Freq. Plot) = 57 ppm Ni

Distribution Mode (from grouped data) = 20 ppm Ni

Histogram of Class Frequency of Nickel in B Horizon Soils



Cumulative Frequency Plot of Nickel in B Horizon Soils



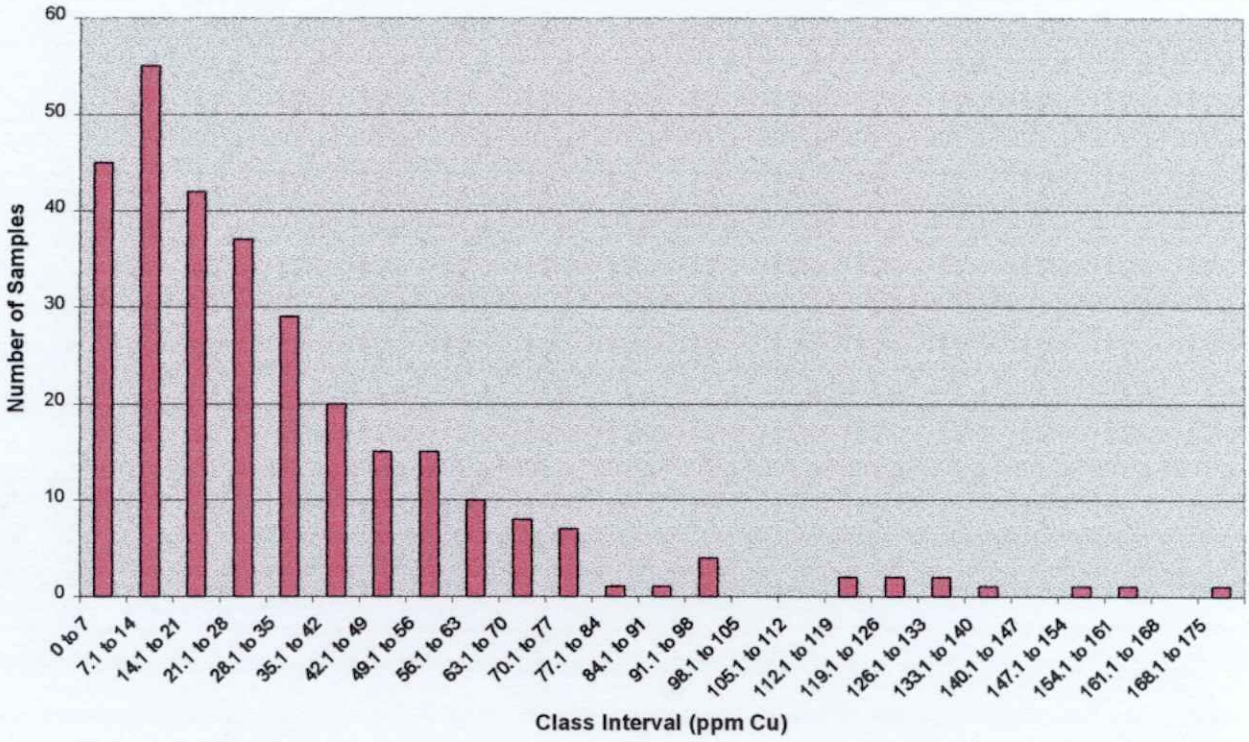
Distribution of Grouped Data for **Copper** Content of Soils

Initial Soil Survey - Claim No. SO 1077361

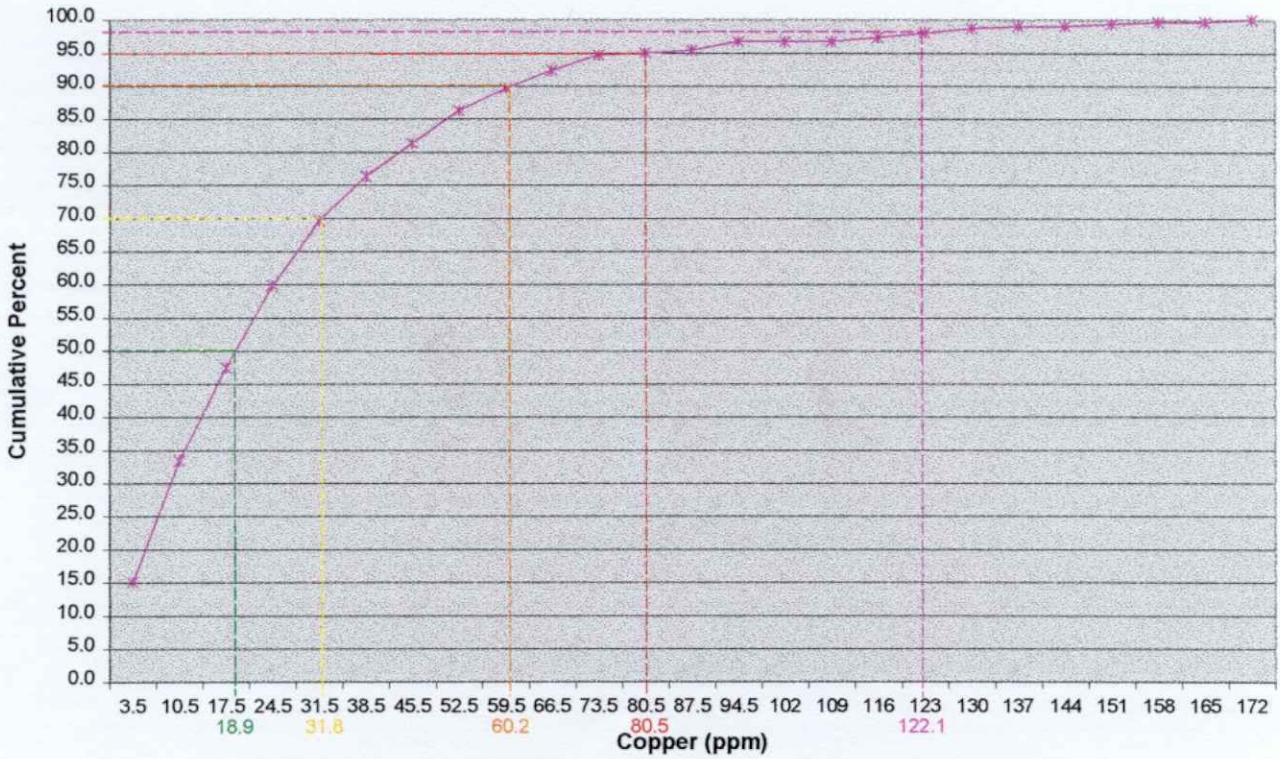
Class Interval (ppm Cu)	Midpoint of Interval (ppm Cu)	Class Frequency	Relative Frequency	Cumulative Frequency	Cumulative Frequency (%)
0 to 7	3.5	45	0.151	45	15.1
7.1 to 14	10.5	55	0.184	100	33.4
14.1 to 21	17.5	42	0.140	142	47.5
21.1 to 28	24.5	37	0.124	179	59.9
28.1 to 35	31.5	29	0.097	208	69.6
35.1 to 42	38.5	20	0.067	228	76.3
42.1 to 49	45.5	15	0.050	243	81.3
49.1 to 56	52.5	15	0.050	258	86.3
56.1 to 63	59.5	10	0.033	268	89.6
63.1 to 70	66.5	8	0.027	276	92.3
70.1 to 77	73.5	7	0.023	283	94.6
77.1 to 84	80.5	1	0.003	284	95.0
84.1 to 91	87.5	1	0.003	285	95.3
91.1 to 98	94.5	4	0.013	289	96.7
98.1 to 105	101.5	0	0.000	289	96.7
105.1 to 112	108.5	0	0.000	289	96.7
112.1 to 119	115.5	2	0.007	291	97.3
119.1 to 126	122.5	2	0.007	293	98.0
126.1 to 133	129.5	2	0.007	295	98.7
133.1 to 140	136.5	1	0.003	296	99.0
140.1 to 147	143.5	0	0.000	296	99.0
147.1 to 154	150.5	1	0.003	297	99.3
154.1 to 161	157.5	1	0.003	298	99.7
161.1 to 168	164.5	0	0.000	298	99.7
168.1 to 175	171.5	1	0.003	299	100.0
TOTALS		299	1.000		

Sample Mean (from grouped data) = 30.3 ppm Cu
Median value (from grouped data) = 22.2 ppm Cu
Median value (from cum. Freq. Plot) = 18.9 ppm Cu
Distribution Mode (from grouped data) = 10.5 ppm Cu

Histogram of Class Frequency for Copper in B Horizon Soils



Cumulative Frequency Plot of Copper in B Horizon Soils



Distribution of Grouped Data for **Cobalt** Content of Soils

Initial Soil Survey - Claim No. SO 1077361

Class Interval (ppm Co)	Midpoint of Interval (ppm Co)	Class Frequency	Relative Frequency	Cumulative Frequency	Cumulative Frequency (%)
0 to 4	2	57	0.191	57	19.1
5 to 8	6	56	0.187	113	37.8
9 to 12	10	49	0.164	162	54.2
13 to 16	14	43	0.144	205	68.6
17 to 20	18	32	0.107	237	79.3
21 to 24	22	20	0.067	257	86.0
25 to 28	26	16	0.054	273	91.3
29 to 32	30	12	0.040	285	95.3
33 to 36	34	3	0.010	288	96.3
37 to 40	38	2	0.007	290	97.0
41 to 44	42	3	0.010	293	98.0
45 to 48	46	3	0.010	296	99.0
49 to 52	50	1	0.003	297	99.3
53 to 56	54	0	0.000	297	99.3
57 to 60	58	0	0.000	297	99.3
61 to 64	62	0	0.000	297	99.3
65 to 68	66	0	0.000	297	99.3
69 to 72	70	1	0.003	298	99.7
73 to 76	74	0	0.000	298	99.7
77 to 80	78	0	0.000	298	99.7
81 to 84	82	0	0.000	298	99.7
85 to 88	86	0	0.000	298	99.7
89 to 92	90	0	0.000	298	99.7
93 to 96	94	0	0.000	298	99.7
97 to 100	98	1	0.003	299	100.0
TOTALS		299	0.003		

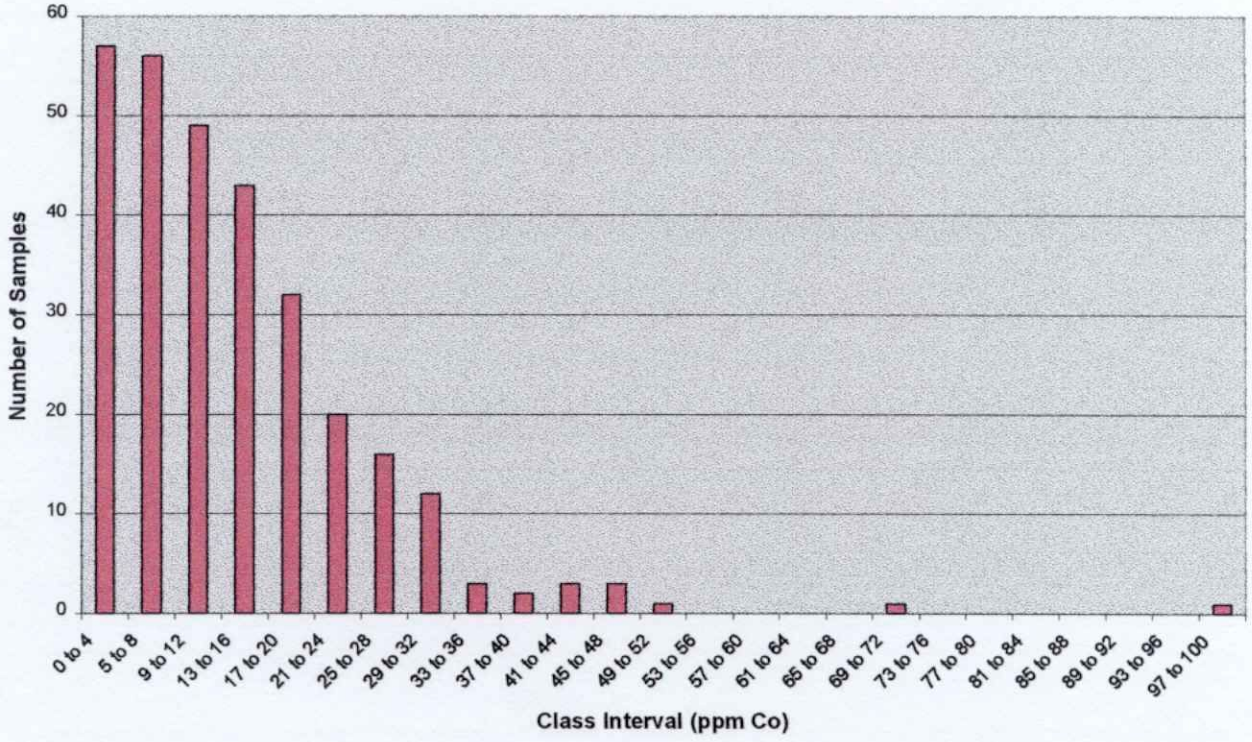
Sample Mean (from grouped data) = 13 ppm Co

Median value (from grouped data) = 12 ppm Co

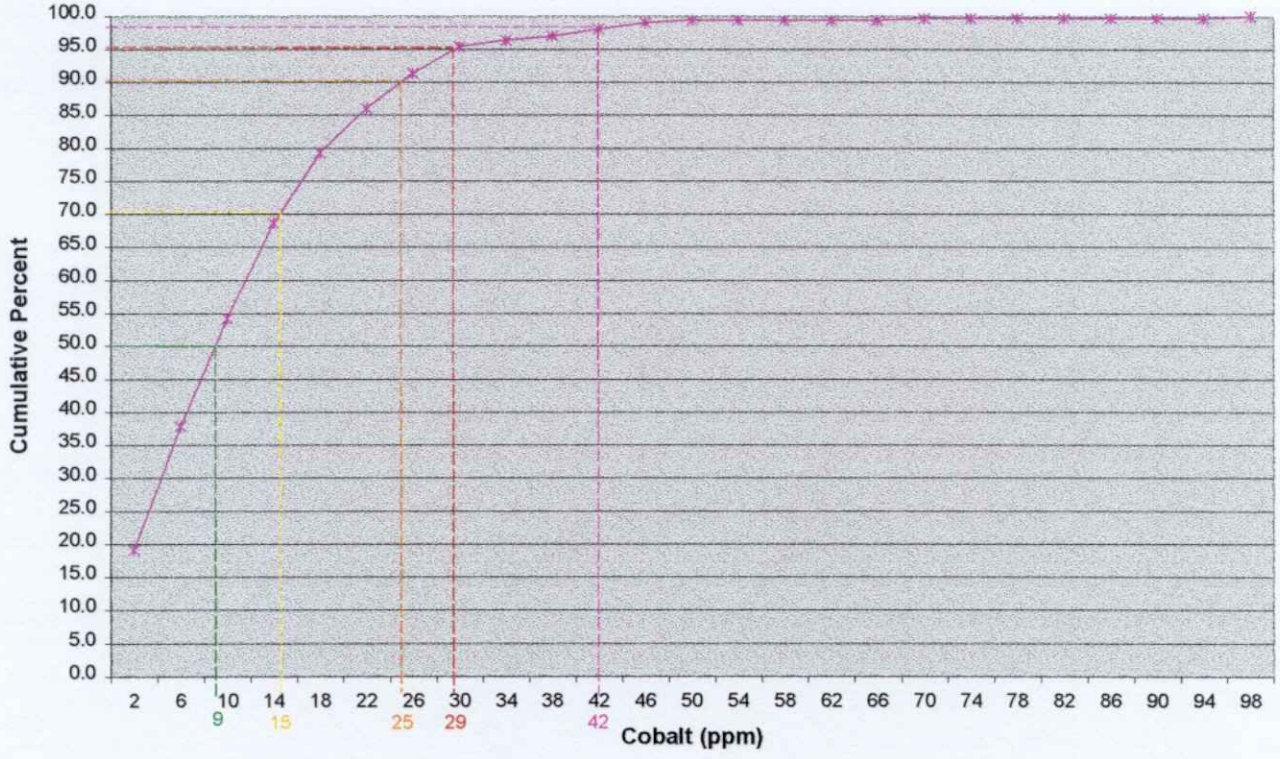
Median value (from cum. Freq. Plot) = 9 ppm Co

Distribution Mode (from grouped data) = 2 ppm Co

Histogram of Class Frequency of Cobalt in B Horizon Soils



Cumulative Frequency Plot of Cobalt in B Horizon Soils



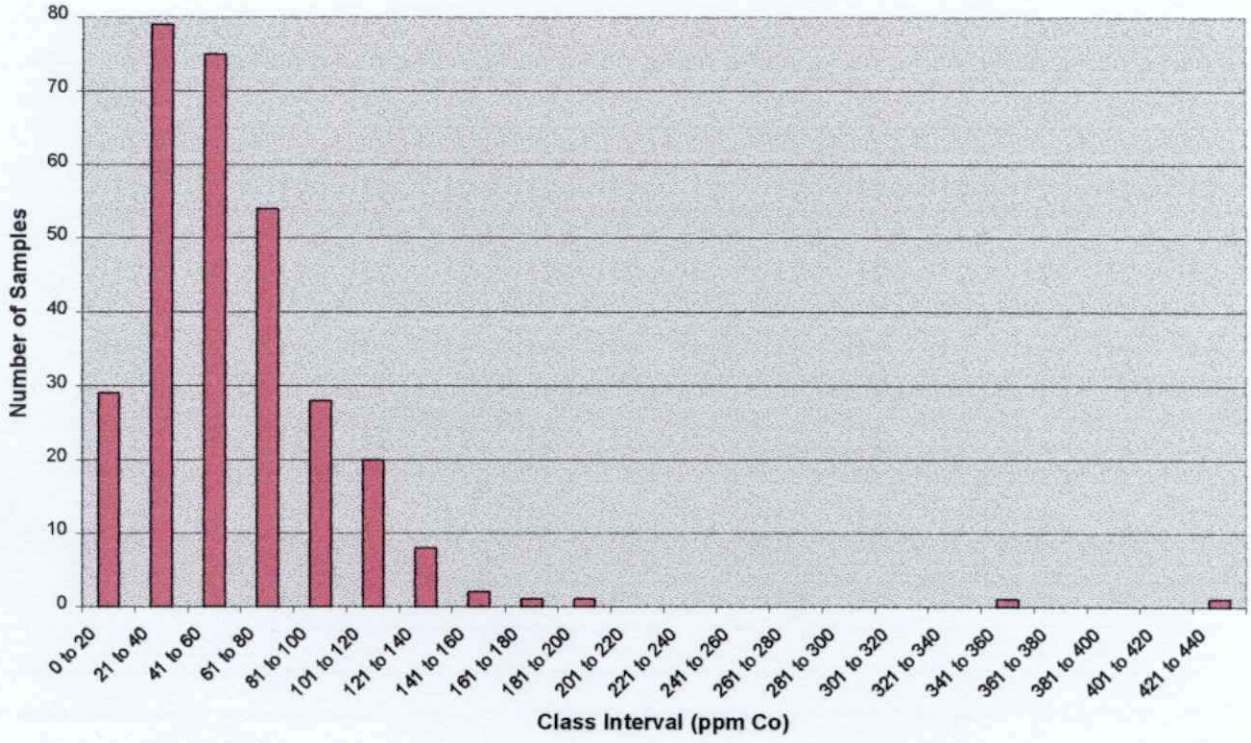
Distribution of Grouped Data for **Chromium** Content of Soils

Initial Soil Survey - Claim No. SO 1077361

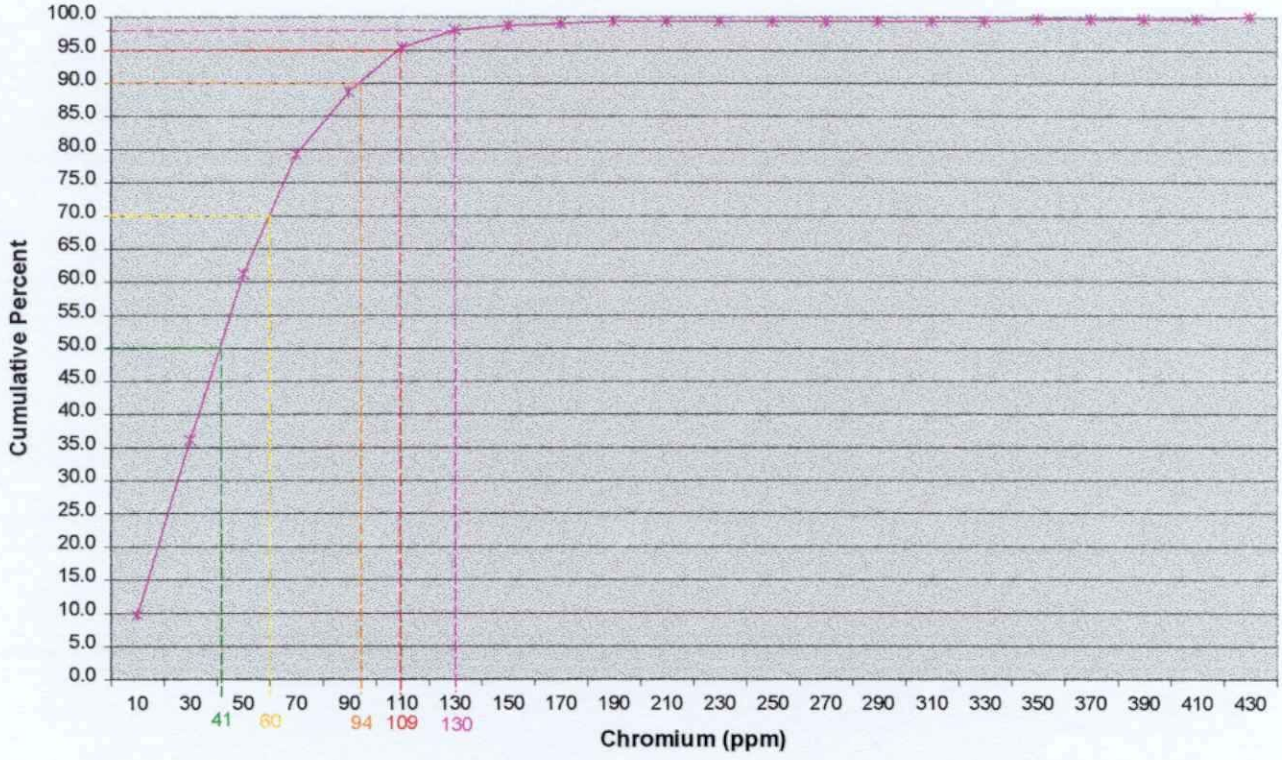
Class Interval (ppm Cr)	Midpoint of Interval (ppm Cr)	Class Frequency	Relative Frequency	Cumulative Frequency	Cumulative Frequency (%)
0 to 20	10	29	0.097	29	9.7
21 to 40	30	79	0.264	108	36.1
41 to 60	50	75	0.251	183	61.2
61 to 80	70	54	0.181	237	79.3
81 to 100	90	28	0.094	265	88.6
101 to 120	110	20	0.067	285	95.3
121 to 140	130	8	0.027	293	98.0
141 to 160	150	2	0.007	295	98.7
161 to 180	170	1	0.003	296	99.0
181 to 200	190	1	0.003	297	99.3
201 to 220	210	0	0.000	297	99.3
221 to 240	230	0	0.000	297	99.3
241 to 260	250	0	0.000	297	99.3
261 to 280	270	0	0.000	297	99.3
281 to 300	290	0	0.000	297	99.3
301 to 320	310	0	0.000	297	99.3
321 to 340	330	0	0.000	297	99.3
341 to 360	350	1	0.003	298	99.7
361 to 380	370	0	0.000	298	99.7
381 to 400	390	0	0.000	298	99.7
401 to 420	410	0	0.000	298	99.7
421 to 440	430	1	0.003	299	100.0
TOTALS		299	1.000		

Sample Mean (from grouped data) = 58 ppm Cr
Median value (from grouped data) = 50 ppm Cr
Median value (from cum. Freq. Plot) = 41 ppm C
Distribution Mode (from grouped data) = 30 ppm Cr

Histogram of Class Frequency of Chromium in B Horizon Soils



Cumulative Frequency Plot of Chromium in B Horizon Soils



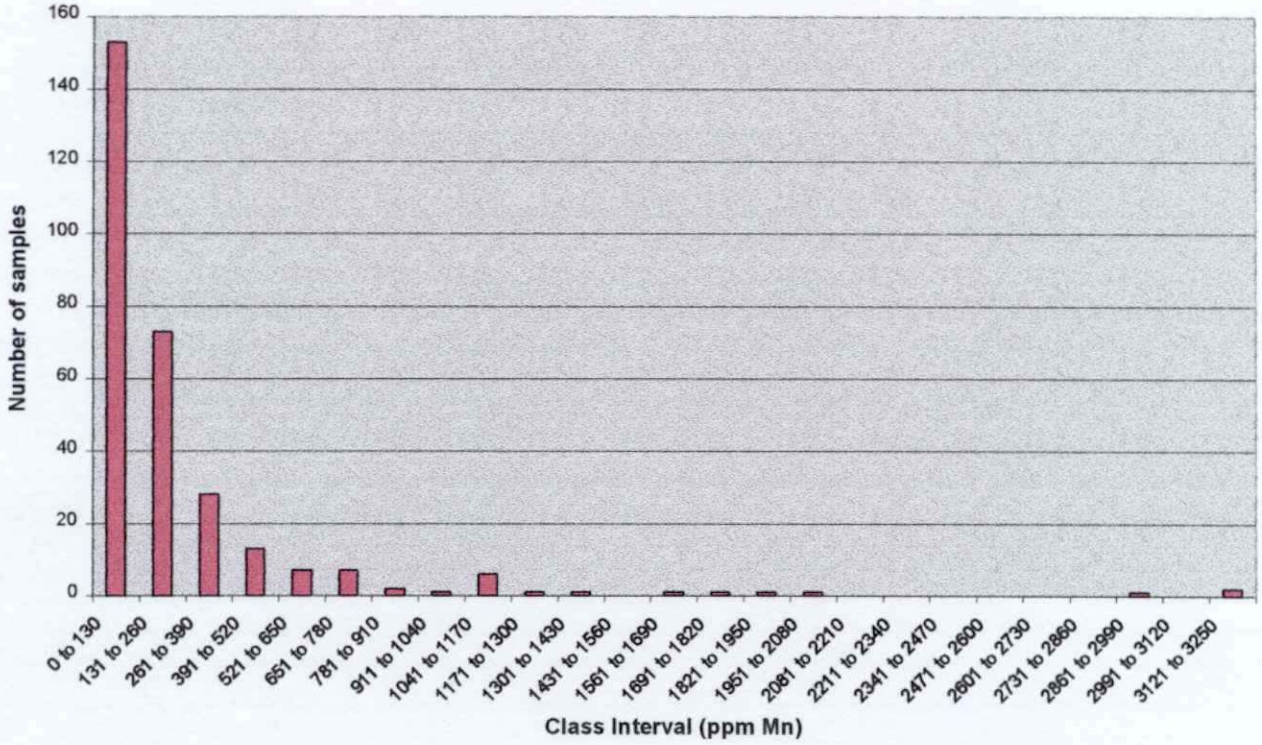
Distribution of Grouped Data for **Manganese** Content of Soils

Initial Soil Survey - Claim No. SO 1077361

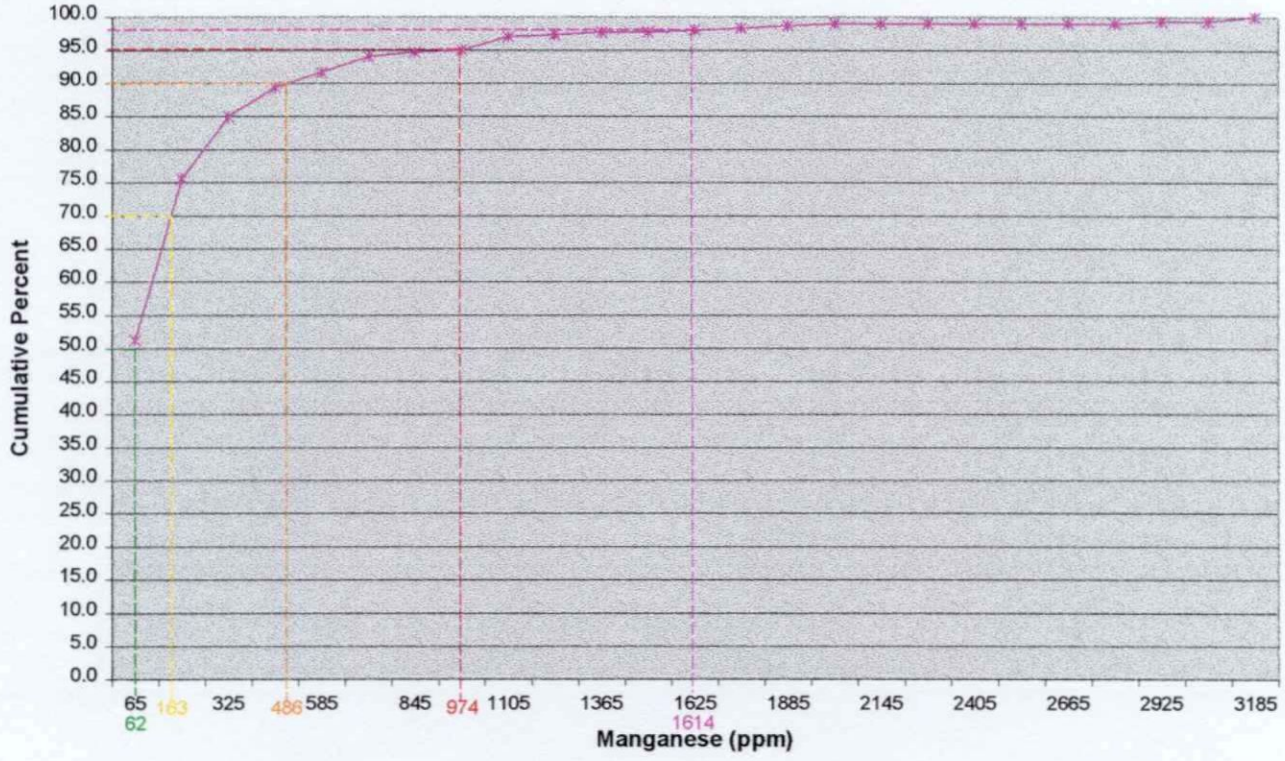
Class Interval (ppm Mn)	Midpoint of Interval (ppm Mn)	Class Frequency	Relative Frequency	Cumulative Frequency	Cumulative Frequency (%)
0 to 130	65	153	0.512	153	51.2
131 to 260	195	73	0.244	226	75.6
261 to 390	325	28	0.094	254	84.9
391 to 520	455	13	0.043	267	89.3
521 to 650	585	7	0.023	274	91.6
651 to 780	715	7	0.023	281	94.0
781 to 910	845	2	0.007	283	94.6
911 to 1040	975	1	0.003	284	95.0
1041 to 117	1105	6	0.020	290	97.0
1171 to 130	1235	1	0.003	291	97.3
1301 to 143	1365	1	0.003	292	97.7
1431 to 156	1495	0	0.000	292	97.7
1561 to 169	1625	1	0.003	293	98.0
1691 to 182	1755	1	0.003	294	98.3
1821 to 195	1885	1	0.003	295	98.7
1951 to 208	2015	1	0.003	296	99.0
2081 to 221	2145	0	0.000	296	99.0
2211 to 234	2275	0	0.000	296	99.0
2341 to 247	2405	0	0.000	296	99.0
2471 to 260	2535	0	0.000	296	99.0
2601 to 273	2665	0	0.000	296	99.0
2731 to 286	2795	0	0.000	296	99.0
2861 to 299	2925	1	0.003	297	99.3
2991 to 312	3055	0	0.000	297	99.3
3121 to 325	3185	2	0.007	299	100.0
TOTALS		299	1.000		

Sample Mean (from grouped data) = 257 ppm Mn
Median value (from grouped data) = 128 ppm Mn
Median value (from cum. Freq. Plot) = 62 ppm Mn
Distribution Mode (from grouped data) = 65 ppm Mn

Histogram of Class Frequency of Manganese in B Horizon Soils



Cumulative Frequency Plot of Manganese in B Horizon Soils



Distribution of Grouped Data for **IRON** Content of Soils

Initial Soil Survey - Claim No. SO 1077361

Class Interval (% Fe)	Midpoint of Interval (% Fe)	Class Frequency	Relative Frequency	Cumulative Frequency	Cumulative Frequency (%)
0 to 0.25	0.125	0	0.000	0	0.0
0.26 to 0.50	0.375	0	0.000	0	0.0
0.51 to 0.75	0.625	4	0.013	4	1.3
0.76 to 1.00	0.875	3	0.010	7	2.3
1.01 to 1.25	1.125	6	0.020	13	4.3
1.26 to 1.50	1.375	11	0.037	24	8.0
1.51 to 1.75	1.625	12	0.040	36	12.0
1.76 to 2.00	1.875	12	0.040	48	16.1
2.01 to 2.25	2.125	19	0.064	67	22.4
2.26 to 2.50	2.375	23	0.077	90	30.1
2.51 to 2.75	2.625	19	0.064	109	36.5
2.76 to 3.00	2.875	36	0.120	145	48.5
3.01 to 3.25	3.125	32	0.107	177	59.2
3.26 to 3.50	3.375	29	0.097	206	68.9
3.51 to 3.75	3.625	15	0.050	221	73.9
3.76 to 4.00	3.875	23	0.077	244	81.6
4.01 to 4.25	4.125	23	0.077	267	89.3
4.26 to 4.50	4.375	11	0.037	278	93.0
4.51 to 4.75	4.625	5	0.017	283	94.6
4.76 to 5.00	4.875	6	0.020	289	96.7
5.01 to 5.25	5.125	3	0.010	292	97.7
5.26 to 5.50	5.375	1	0.003	293	98.0
5.51 to 5.75	5.625	2	0.007	295	98.7
5.76 to 6.00	5.875	2	0.007	297	99.3
6.011 to 6.2	6.125	2	0.007	299	100.0
TOTALS		299	1.000		

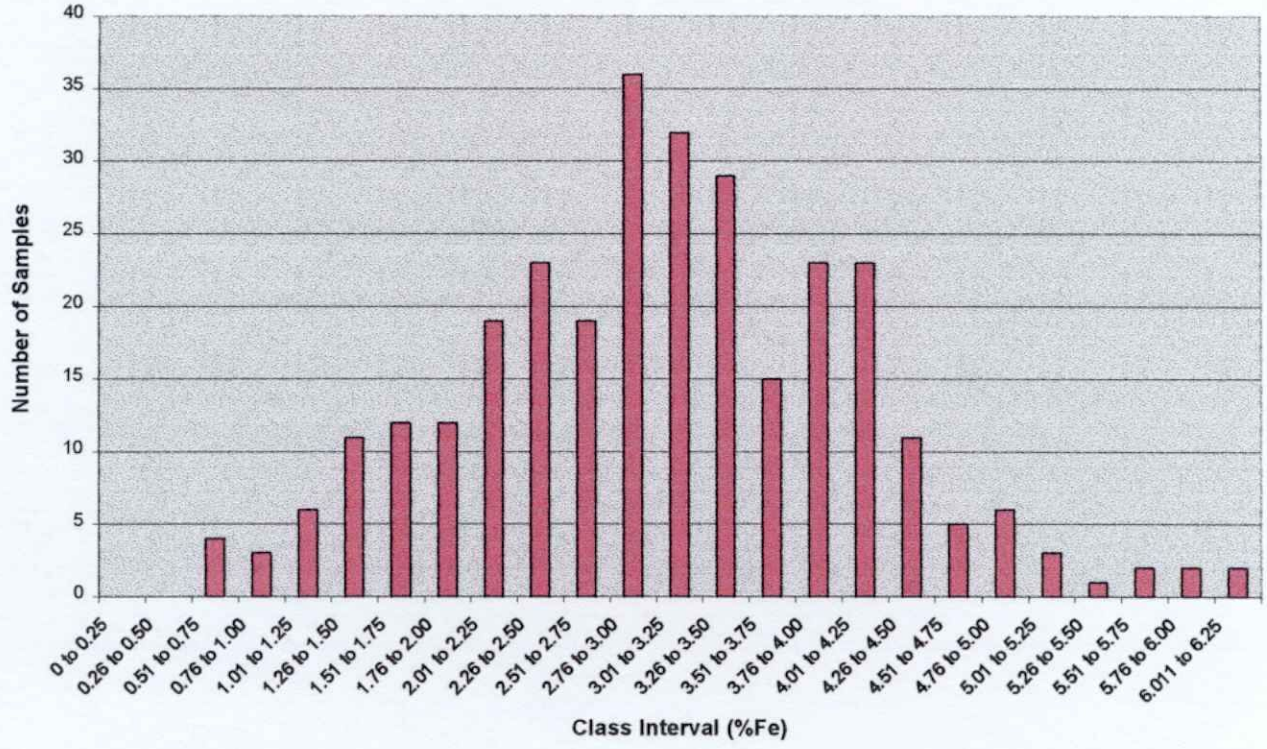
Sample Mean (from grouped data) = 3.04 % Fe

Median value (from grouped data) = 3.03% Fe

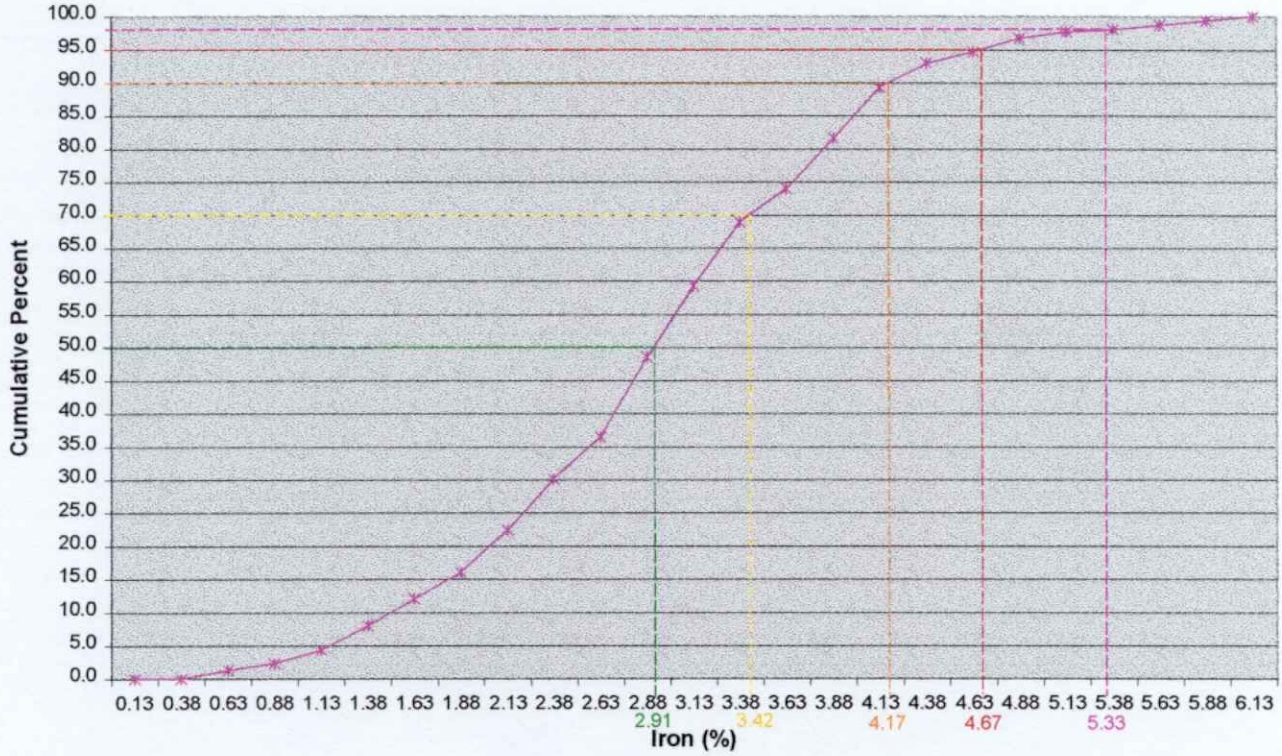
Median value (from cum. Freq. Plot) = 2.91% Fe

Distribution Mode (from grouped data) = 2.88% Fe

Histogram of Class frequency of Iron in B Horizon Soils



Cumulative Frequency Plot of Iron in B Horizon Soils



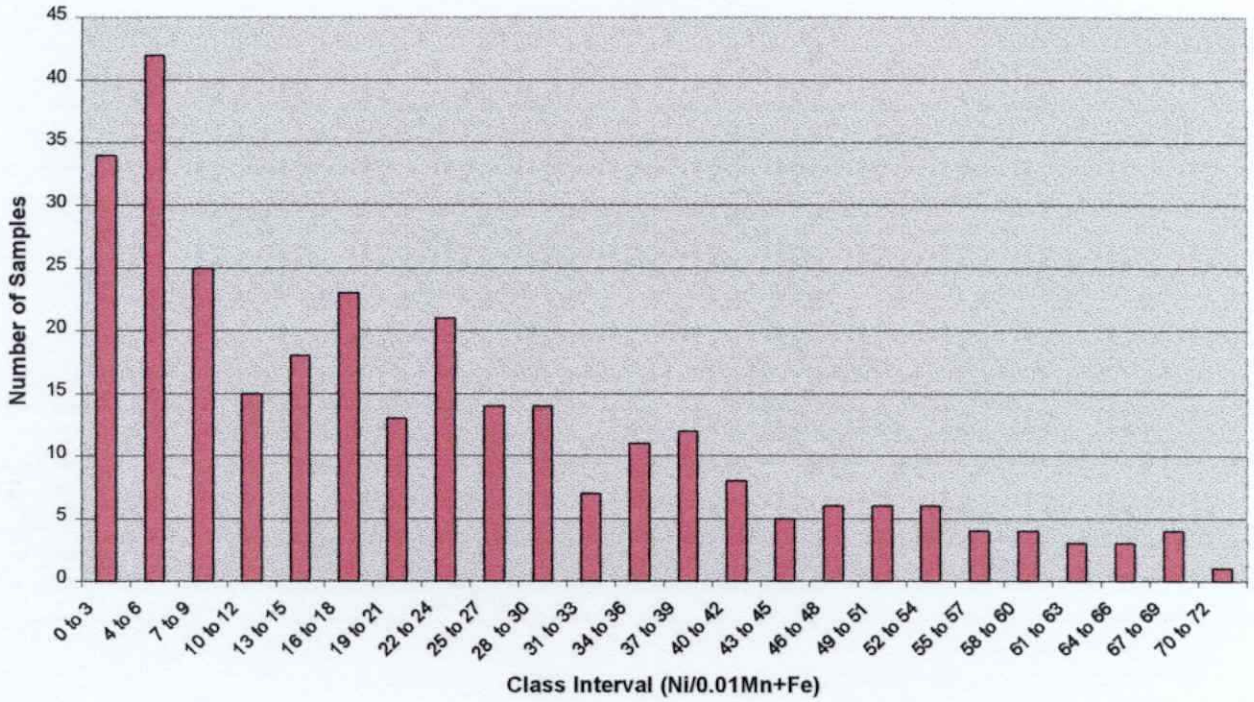
Distribution of Grouped Data for **Ni/(0.01Mn+Fe)** Content of Soils

Initial Soil Survey - Claim No. SO 1077361

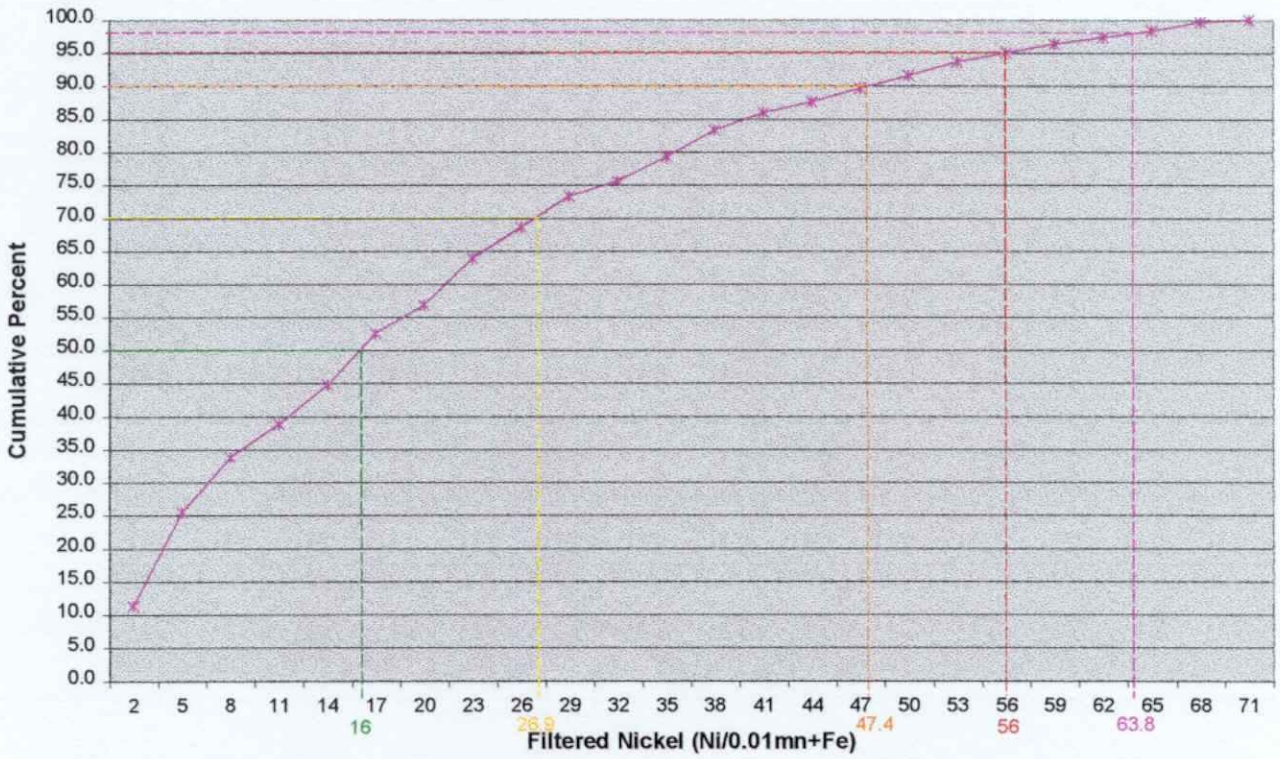
Class Interval	Midpoint of Interval	Class Frequency	Relative Frequency	Cumulative Frequency	Cumulative Frequency (%)
0 to 3	2	34	0.114	34	11.4
4 to 6	5	42	0.140	76	25.4
7 to 9	8	25	0.084	101	33.8
10 to 12	11	15	0.050	116	38.8
13 to 15	14	18	0.060	134	44.8
16 to 18	17	23	0.077	157	52.5
19 to 21	20	13	0.043	170	56.9
22 to 24	23	21	0.070	191	63.9
25 to 27	26	14	0.047	205	68.6
28 to 30	29	14	0.047	219	73.2
31 to 33	32	7	0.023	226	75.6
34 to 36	35	11	0.037	237	79.3
37 to 39	38	12	0.040	249	83.3
40 to 42	41	8	0.027	257	86.0
43 to 45	44	5	0.017	262	87.6
46 to 48	47	6	0.020	268	89.6
49 to 51	50	6	0.020	274	91.6
52 to 54	53	6	0.020	280	93.6
55 to 57	56	4	0.013	284	95.0
58 to 60	59	4	0.013	288	96.3
61 to 63	62	3	0.010	291	97.3
64 to 66	65	3	0.010	294	98.3
67 to 69	68	4	0.013	298	99.7
70 to 72	71	1	0.003	299	100.0
TOTALS		299	1.000		

Sample Mean (from grouped data) = 21.7 Ni/(0.01Mn+Fe)
Median value (from grouped data) = __ Ni/(0.01Mn+Fe)
Median value (from cum. Freq. Plot) = 16 Ni/(0.01Mn+Fe)
Distribution Mode (from grouped data) = 5 Ni/(0.01Mn+Fe)

Histogram of Class frequency of Mn/Fe Filtered Nickel in B Horizon Soils



Cumulative Frequency Plot of Mn/Fe Filtered Nickel in B Horizon Soils



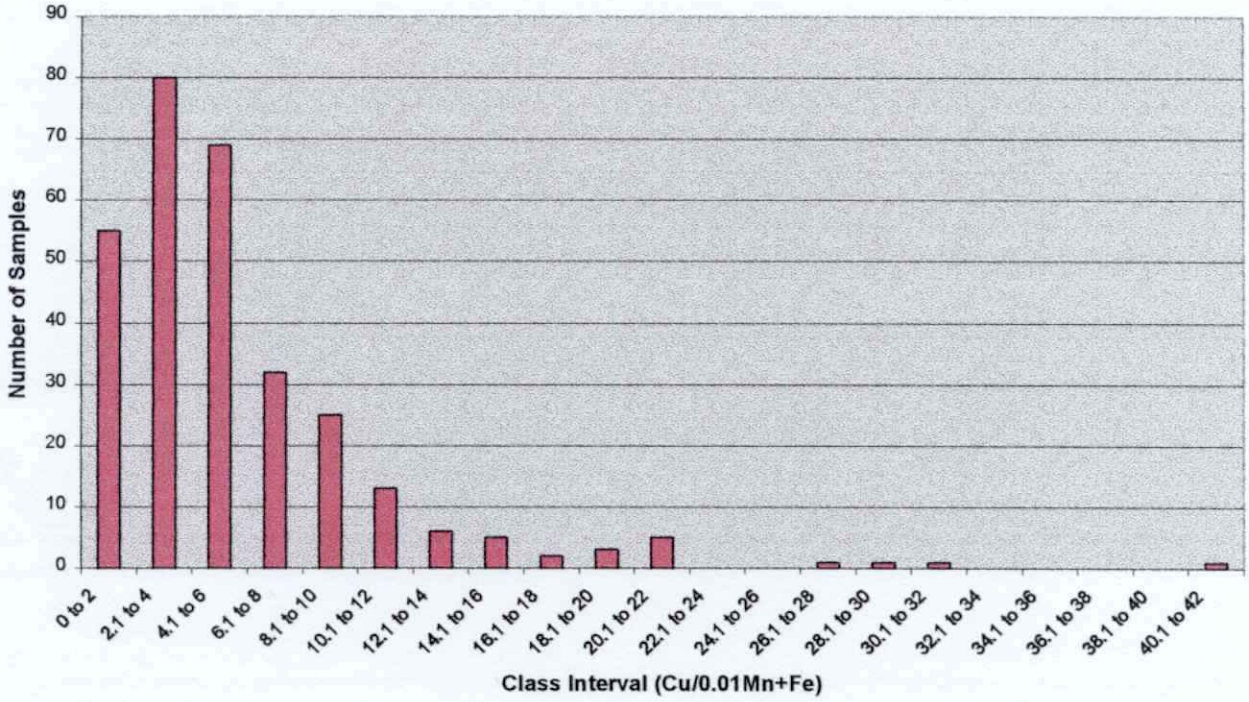
Distribution of Grouped Data for **Cu/(0.01Mn+Fe)** Content of Soils

Initial Soil Survey - Claim No. SO 1077361

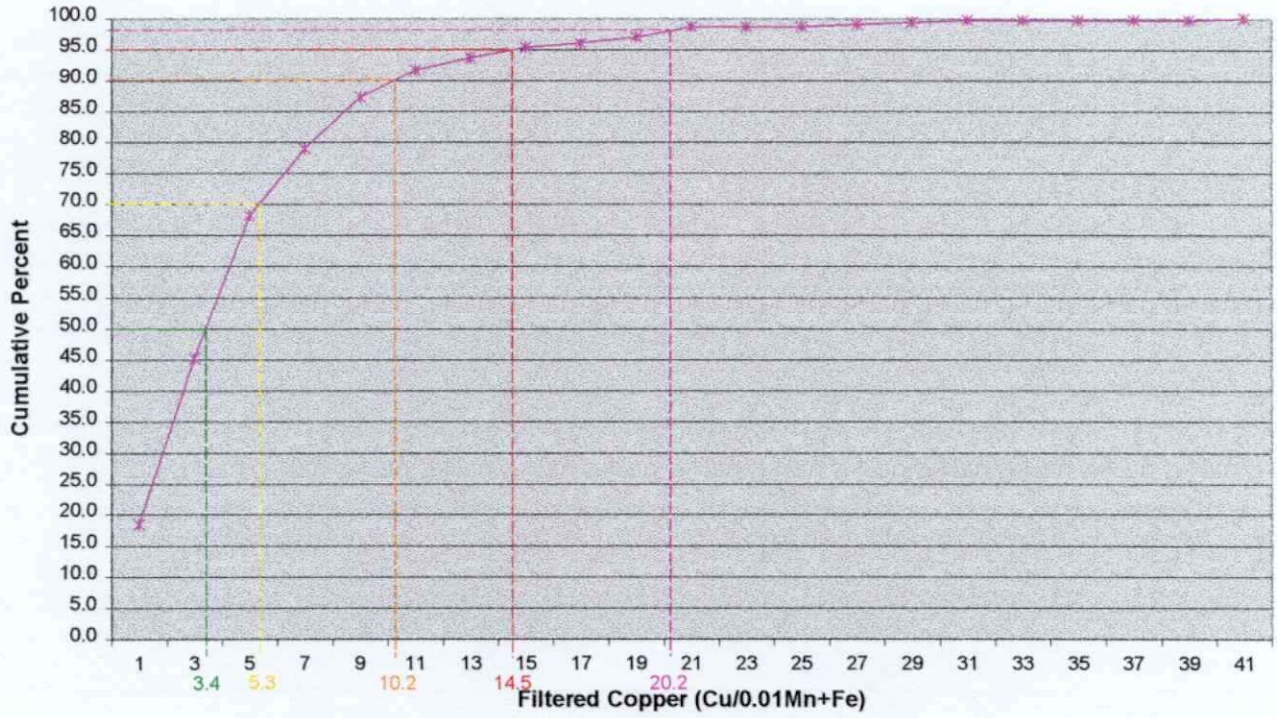
Class Interval	Midpoint of Interval	Class Frequency	Relative Frequency	Cumulative Frequency	Cumulative Frequency (%)
0 to 2	1	55	0.184	55	18.4
2.1 to 4	3	80	0.268	135	45.2
4.1 to 6	5	69	0.231	204	68.2
6.1 to 8	7	32	0.107	236	78.9
8.1 to 10	9	25	0.084	261	87.3
10.1 to 12	11	13	0.043	274	91.6
12.1 to 14	13	6	0.020	280	93.6
14.1 to 16	15	5	0.017	285	95.3
16.1 to 18	17	2	0.007	287	96.0
18.1 to 20	19	3	0.010	290	97.0
20.1 to 22	21	5	0.017	295	98.7
22.1 to 24	23	0	0.000	295	98.7
24.1 to 26	25	0	0.000	295	98.7
26.1 to 28	27	1	0.003	296	99.0
28.1 to 30	29	1	0.003	297	99.3
30.1 to 32	31	1	0.003	298	99.7
32.1 to 34	33	0	0.000	298	99.7
34.1 to 36	35	0	0.000	298	99.7
36.1 to 38	37	0	0.000	298	99.7
38.1 to 40	39	0	0.000	298	99.7
40.1 to 42	41	1	0.003	299	100.0
TOTALS		299	1.000		

Sample Mean (from grouped data) = 5.7 Cu/(0.01Mn+Fe)
Median value (from grouped data) = __ Cu/(0.012Mn+Fe)
Median value (from cum. Freq. Plot) = 3.4 Cu/(0.01Mn+Fe)
Distribution Mode (from grouped data) = 3 Cu/(0.01Mn+Fe)

Histogram of Class Frequency of Mn/Fe Filtered Copper in B Horizon Soils



Cumulative Frequency Plot of Mn/Fe Filtered Copper in B Horizon Soils



Appendix III

Analytical Results for All Rock Samples Collected During the Summer 1998 Program

XRAL Laboratories
A Division of SGS Canada Inc.

1885 Leslie Street
Don Mills, Ontario
Canada M3B 3J4
Telephone (416) 445-5755
Fax (416) 445-4152

CERTIFICATE OF ANALYSIS

Work Order: 052352

To: **B-MAX Ltd.**
Attn: **Gord Vandevalk**
Brothers Minerals and Exploration
R.R.#3 Milton
HALTON HILLS
ONTARIO, CANADA L9T 2X7

Date : 30/09/98

Copy 1 to :

Copy 2 to :

P.O. No. :
Project No. : MA98
No. of Samples : 7 ROCKS
Date Submitted : 21/09/98
Report Comprises : Cover Sheet plus
Pages 1 to 3

Distribution of unused material:
Pulps: Pulps dumped after 90 days of reporting.
Rejects: Rejects dumped after 30 days of reporting.

Certified By :

Dr. Hugh de Souza, General Manager
XRAL Laboratories

ISO 9002 REGISTERED

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result
*INF	= Composition of this sample makes detection impossible by this method		

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

XRAL Laboratories
A Division of SGS Canada Inc.

Work Order: 052352 **Date:** 30/09/98 **FINAL**

Element.	Au	Pt	Pd	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe
Method.	FA301	FA301	FA301	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	1	10	1	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01
Units.	ppb	ppb	ppb	ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%
MA 98-R-001	5	<10	2	0.5	0.04	0.03	0.67	0.02	0.01	1.19	<0.5	0.04	36	80	380	8.65
MA 98-R-002	5	<10	4	<0.5	0.12	0.07	0.80	0.07	0.02	1.01	<0.5	0.04	26	80	211	3.67
MA 98-R-003	4	<10	4	<0.5	0.03	0.06	1.21	0.16	<0.01	3.87	<0.5	0.04	37	137	1210	5.70
MA 98-R-004	5	<10	3	0.6	0.08	0.03	0.82	0.05	0.04	1.57	<0.5	0.06	48	98	501	8.15
MA 98-R-005	5	<10	1	0.6	0.02	0.03	1.40	0.10	<0.01	4.63	<0.5	0.06	72	128	1580	11.0
MA 98-R-006	2	<10	2	<0.5	0.54	1.04	2.52	0.02	0.21	2.35	5.2	0.14	82	73	246	2.88
MA 98-R-007	3	<10	<1	<0.5	0.40	1.40	1.67	0.02	0.19	1.98	9.6	0.18	86	59	261	2.18
*Dup MA 98-R-001	4	<10	2	0.5	0.04	0.03	0.65	0.02	0.01	1.16	<0.5	0.04	36	77	371	8.44

Work Order: 052352 **Date:** 30/09/98 **FINAL**

Element.	Co	Ni	Cu	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	1	1	0.5	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MA 98-R-001	8	5	337	13.3	<3	26.0	3.1	8.8	<1	0.4	12	<10	<5	12	3.2	<10
MA 98-R-002	8	8	26.1	9.9	<3	85.9	4.0	5.4	<1	<0.2	5	<10	<5	16	5.0	<10
MA 98-R-003	13	9	157	15.9	<3	34.6	22.3	10.8	<1	0.4	8	<10	<5	18	30.0	<10
MA 98-R-004	19	6	403	9.3	<3	63.1	4.1	9.9	<1	0.5	12	<10	<5	10	3.7	<10
MA 98-R-005	18	10	308	18.8	<3	12.0	39.0	17.0	<1	0.4	17	<10	<5	6	21.0	<10
MA 98-R-006	17	12	51.9	19.5	<3	224	4.3	7.3	<1	0.3	3	<10	<5	70	3.3	<10
MA 98-R-007	15	28	13.7	24.6	<3	82.5	4.9	4.3	<1	<0.2	3	<10	<5	47	2.1	<10
*Dup MA 98-R-001	8	5	326	12.9	<3	25.4	3.1	8.2	<1	0.4	13	<10	<5	12	2.8	<10

Element.	Pb	Bi
Method.	ICP70	ICP70
Det.Lim.	2	5
Units.	ppm	ppm
MA 98-R-001	6	<5
MA 98-R-002	2	<5
MA 98-R-003	5	<5
MA 98-R-004	7	<5
MA 98-R-005	7	<5
MA 98-R-006	<2	<5
MA 98-R-007	3	<5
*Dup MA 98-R-001	5	<5

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CERTIFICATE OF ANALYSIS

Work Order: 052763

To: **B-MAX Ltd.**
Attn: **Gord Vandevalk**
Brothers Minerals and Exploration
R.R.#3 Milton
HALTON HILLS
ONTARIO, CANADA L9T 2X7

Date : 02/11/98

Copy 1 to :

Copy 2 to :

P.O. No.	:	
Project No.	:	MA98
No. of Samples	:	10 ROCKS
Date Submitted	:	20/10/98
Report Comprises	:	Cover Sheet plus Pages 1 to 3

Distribution of unused material:
Pulps: Pulps dumped after 90 days of reporting.
Rejects: Rejects dumped after 30 days of reporting.

Certified By :

Dr. Hugh de Souza, General Manager
XRAL Laboratories

ISO 9002 REGISTERED

Report Footer:

L.N.R.	= Listed not received	I.S.	= Insufficient Sample
n.a.	= Not applicable	--	= No result
*INF	= Composition of this sample makes detection impossible by this method		

M after a result denotes ppb to ppm conversion, % denotes ppm to % conversion

XRAL Laboratories
A Division of SGS Canada Inc.

Work Order: 052763 **Date:** 02/11/98 **FINAL**

Element.	Au	Pt	Pd	Be	Na	Mg	Al	P	K	Ca	Sc	Ti	V	Cr	Mn	Fe
Method.	FA301	FA301	FA301	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	1	10	1	0.5	0.01	0.01	0.01	0.01	0.01	0.01	0.5	0.01	2	1	2	0.01
Units.	ppb	ppb	ppb	ppm	%	%	%	%	%	%	ppm	%	ppm	ppm	ppm	%
MA98-R-008	1	<10	1	<0.5	0.46	1.67	2.67	0.10	0.34	2.64	8.8	0.24	191	49	313	4.85
MA98-R-009	1	<10	<1	<0.5	0.45	1.26	2.08	0.02	0.22	2.40	6.7	0.26	107	60	249	3.57
MA98-R-010	<1	<10	<1	<0.5	0.20	0.07	1.25	0.21	0.05	4.93	0.8	0.03	25	120	495	1.36
MA98-R-011	<1	<10	<1	<0.5	0.08	0.13	0.68	<0.01	0.02	1.81	<0.5	0.01	17	92	411	1.28
MA98-R-012	<1	<10	<1	<0.5	0.25	1.21	1.22	0.06	0.16	1.80	6.3	0.19	74	156	218	1.64
MA98-R-013	<1	<10	<1	<0.5	0.38	0.42	1.86	0.02	0.08	1.56	2.8	0.05	23	82	82	0.87
MA98-R-014	<1	<10	<1	<0.5	0.11	0.55	0.49	<0.01	0.02	0.93	3.0	0.08	29	77	127	0.84
MA98-R-015	1	<10	<1	<0.5	0.15	0.72	1.22	0.07	0.31	0.58	2.7	0.06	43	257	151	2.37
MA98-R-016	<1	<10	<1	<0.5	0.37	1.63	1.25	0.09	0.14	1.76	8.8	0.18	66	147	197	2.04
MA98-R-017	<1	<10	<1	<0.5	0.09	0.49	0.40	<0.01	0.02	0.80	2.2	0.08	25	67	130	0.81
*Dup MA98-R-008	<1	<10	<1	<0.5	0.41	1.51	2.40	0.10	0.31	2.36	7.9	0.21	171	48	285	4.46

Work Order: 052763 **Date:** 02/11/98 **FINAL**

Element.	Co	Ni	Cu	Zn	As	Sr	Y	Zr	Mo	Ag	Cd	Sn	Sb	Ba	La	W
Method.	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70	ICP70
Det.Lim.	1	1	0.5	0.5	3	0.5	0.5	0.5	1	0.2	1	10	5	1	0.5	10
Units.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MA98-R-008	21	11	68.0	31.4	<3	78.7	5.4	7.3	<1	0.3	<1	<10	<5	95	2.4	<10
MA98-R-009	36	17	171	25.1	<3	139	4.9	6.4	2	<0.2	<1	<10	<5	63	1.7	<10
MA98-R-010	2	7	3.0	10.9	<3	158	4.1	7.8	2	0.3	<1	<10	<5	13	2.4	<10
MA98-R-011	3	8	1.4	13.6	<3	15.7	5.6	6.3	<1	<0.2	<1	<10	<5	10	0.7	<10
MA98-R-012	10	43	2.1	22.1	<3	50.7	5.9	4.9	1	<0.2	<1	<10	<5	23	1.8	<10
MA98-R-013	8	42	31.4	6.3	<3	210	2.5	2.7	1	<0.2	<1	<10	<5	28	1.9	<10
MA98-R-014	7	25	8.8	12.1	<3	25.4	3.6	4.6	2	<0.2	<1	<10	<5	8	2.0	<10
MA98-R-015	16	65	36.6	28.4	<3	19.8	5.2	2.9	2	<0.2	<1	<10	<5	89	8.6	<10
MA98-R-016	15	93	4.8	18.5	<3	77.1	6.1	11.2	<1	<0.2	<1	<10	<5	27	5.9	<10
MA98-R-017	10	35	18.9	10.3	<3	15.0	3.6	6.3	<1	0.3	<1	<10	<5	6	2.5	<10
*Dup MA98-R-008	20	9	66.3	28.9	<3	68.7	4.4	6.1	<1	<0.2	<1	<10	<5	87	1.8	<10

Work Order: 052763 **Date:** 02/11/98 **FINAL**

Element.	Pb	Bi
Method.	ICP70	ICP70
Det.Lim.	2	5
Units.	ppm	ppm
MA98-R-008	<2	9
MA98-R-009	<2	<5
MA98-R-010	<2	8
MA98-R-011	<2	7
MA98-R-012	<2	6
MA98-R-013	<2	7
MA98-R-014	<2	6
MA98-R-015	<2	8
MA98-R-016	<2	7
MA98-R-017	2	<5
*Dup MA98-R-008	<2	6

Appendix IV

Identification of Author
And Claim Holders

Identification of Author
And Claim Holders

All fieldwork submitted under this assessment application was carried out by the Author of this report and the Claim Holders of Mining Claims SO 1077361 and SO 1077362. The Author and Claim Holders are Licensed Ontario Prospectors. For the purpose of this report, the Author and Claim Holders are collectively referred to as B-MAX (Brothers Minerals and Exploration). The Author presently holds no direct or indirect interest in either of the two mining claims, which are the subject of this report. The Author and Claim Holders are identified as follows:

Author:	**Gordon J. Vandevalk**
Prospecting License:	A52179
Client Number:	303366
Address:	R.R.#3 Milton, Halton Hills, Ontario, L9T 2X7
Occupation:	Mineral Exploration Draftsman
Claim Holder (SO 1077361):	**Henry Vandevalk**
Prospecting License:	A52183
Client Number:	303369
Address:	1978 Balsam Avenue, Mississauga, Ontario, L5J 1L2
Occupation:	Water Treatment Plant Operator
Claim Holder (SO 1077362):	**William J. Vandevalk**
Prospecting License:	A52184
Client Number:	303370
Address:	1880 Carrera Court, Mississauga, Ontario, L5J 4R5
Occupation:	Trucking Company Dispatch Manager

Ontario Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use): W9990.00022

Assessment Files Research Imaging

31E13SE2001 2.19526 LOUNT 900

of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the review the assessment work and correspond with the mining land holder. Recorder, Ministry of Northern Development and Mines, 6th Floor,

Instructions: - For work performed on Crown Lands before **recording** a claim, use form 0240.
- Please type or print in ink.

1. Recorded holder(s) (Attach a list if necessary)

Name	Client Number
WILLIAM J. VANOEVALK LIC.NO. A52184	CLN 303370
Address: 1880 CARRERA CRT. MISSISSAUGA	Telephone Number: (905) 823-4131
ONTARIO L5J 4R5	Fax Number: (905) 823-1597
Name	Client Number
Address	Telephone Number
	Fax Number

RECORDED JUN 08 1999

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

☑ Geotechnical: prospecting, surveys, assays and work under section 18 (regs) ☐ Physical: drilling, stripping, trenching and associated assays ☐ Rehabilitation

Work Type	Office Use
ESTABLISH GRID, MAPPING (TOPOGRAPHIC) SOIL SAMPLING, PROSPECTING MAGNETOMETER SURVEY REPORT PREPARATION	Commodity
	Total $ Value of Work Claimed: 1384.
Dates Work Performed: From 15 (Day) 4 (Month) 98 (Year) To 31 (Day) 12 (Month) 98 (Year)	NTS Reference
Global Positioning System Data (if available): —	Township/Area: LOUNT
	M or G-Plan Number: M184
	Mining Division: Southern Ontario
	Resident Geologist District: Sudbury

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name	Telephone Number
GORDON VANOEVALK	(905) 878-0018
Address: RR#3 MILTON HALTON HILLS ONT. L9T 2X7	Fax Number: (905) 823-1597
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number

RECEIVED JUN 08 1999 11:29am GEOSCIENCE ASSESSMENT OFFICE

2.19526

4. Certification by Recorded Holder or Agent

I, WILLIAM VANOEVALK (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent: X		Date: X JUNE 3/99
Agent's Address	Telephone Number	Fax Number

0241 (02/96)

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

	Mining Claim Number. Or if work was done on other eligible mining land, show in this column the location number indicated on the claim map.	**Number of Claim Units.** For other mining land, list hectares.	**Value of work performed** on this claim or other mining land.	**Value of work applied** to this claim.	**Value of work assigned** to other mining claims.	**Bank.** Value of work to be distributed at a future date.
eg	TB 7827	16 ha	$26, 825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
eg	1234568	2	$ 8, 892	$ 4,000	0	$4,892
1	1077362	1	$1,384	~~$400~~	N/C	~~$1,384~~ $984
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
		Column Totals				

I, WILLIAM VANDEVALK (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing	Date
X	X JUNE 3/99

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

- ☑ 1. Credits are to be cut back from the Bank first, followed by option 2 or 3 or 4 as indicated.
- ☑ 2. Credits are to be cut back starting with the claims listed last, working backwards; or
- ☐ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

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Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

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Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
2.19526	Approved for Recording by Mining Recorder (Signature)	

0241 (02/96)

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use): W9990.00022.

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.	Cost Per Unit of work	Total Cost
ESTABLISH GRID	.6 Km .5 man/day	$200 /man/day	$100.00
SOIL SAMPLING	21 SAMPLES 1 man/day	"	200.00
MAGNETOMETER SURVEY	.6 Km .5 man/day	"	100.00
MAPPING RESULTS (PLOTTING)	1 man/day	"	200.00
FINAL REPORT PREP.	1 man/day	"	200.00
Associated Costs (e.g. supplies, mobilization and demobilization).			
EQUIPMENT - SAMPLE BAGS, FLAGGING TAPE ETC.			80.88
ANALYSIS COSTS			158.34
FINAL REPORT COSTS			20.00
Transportation Costs	682 Km	$.30/km	204.60
Food and Lodging Costs		$40/night/man	120.00
		Total Value of Assessment Work	1383.77

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Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

TOTAL VALUE OF ASSESSMENT WORK × 0.50 = Total $ value of worked claimed.

Note:
- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs: 2.19526

I, WILLIAM VANDEVALK (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as RECORDED HOLDER (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

Signature: X [signature] Date: [illegible]/99

Ontario

Ministry of Northern Development and Mines

Declaration of Assessment Work Performed on Mining Land

Mining Act, Subsection 65(2) and 66(3), R.S.O. 1990

Transaction Number (office use): W9990.00021

Assessment Files Research Imaging

Personal information collected on this form is obtained under the authority of subsections 65(2) and 66(3) of the Mining Act. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Instructions: - For work performed on Crown Lands before **recording** a claim, use form 0240.
- Please type or print in ink.

1. Recorded holder(s) (Attach a list if necessary)

Name	Client Number
HENRY VANDEVALK LIC. NO. A52183	CLN 303369
Address	Telephone Number
1978 BALSAM AVE. MISSISSAUGA	(905) 823-4319
ONTARIO L5J 1L2	Fax Number (905) 823-1597
Name	Client Number
Address	Telephone Number
	Fax Number

RECORDED
JUN 08 1999

2. Type of work performed: Check (✓) and report on only ONE of the following groups for this declaration.

☑ Geotechnical: prospecting, surveys, assays and work under section 18 (regs) ☐ Physical: drilling, stripping, trenching and associated assays ☐ Rehabilitation

Work Type	Office Use
ESTABLISH GRID, TOPOGRAPHIC MAPPING SOIL SAMPLING PROSPECTING MAGNETOMETER SURVEY, REPORT PREPARATION	Commodity
	Total $ Value of Work Claimed 15,418.
Dates Work Performed From 18 (Day) 11 (Month) 97 (Year) To 31 (Day) 12 (Month) 98 (Year)	NTS Reference
Global Positioning System Data (if available): —	Township/Area LOUNT
	M or G-Plan Number M. 184
	Mining Division Southern Ontario
	Resident Geologist District Sudbury

Please remember to: - obtain a work permit from the Ministry of Natural Resources as required;
- provide proper notice to surface rights holders before starting work;
- complete and attach a Statement of Costs, form 0212;
- provide a map showing contiguous mining lands that are linked for assigning work;
- include two copies of your technical report.

3. Person or companies who prepared the technical report (Attach a list if necessary)

Name	Telephone Number
GORDON VANDEVALK	(905)-878-0018
Address	Fax Number
RR#3 MILTON HALTON HILLS ONT. L9T 2K7	(905)-823-1597
Name	Telephone Number
Address	Fax Number
Name	Telephone Number
Address	Fax Number

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11:29
JUN 08 1999
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2.19526

4. Certification by Recorded Holder or Agent

I, HENRY VANDEVALK (Print Name), do hereby certify that I have personal knowledge of the facts set forth in this Declaration of Assessment Work having caused the work to be performed or witnessed the same during or after its completion and, to the best of my knowledge, the annexed report is true.

Signature of Recorded Holder or Agent		Date
		JUNE 3/99
Agent's Address	Telephone Number	Fax Number

0241 (02/96)

5. Work to be recorded and distributed. Work can only be assigned to claims that are contiguous (adjoining) to the mining land where work was performed, at the time work was performed. A map showing the contiguous link must accompany this form.

	Mining Claim Number. Or if work was done on other eligible *mining land, show in this* column the location number indicated on the claim map.	**Number of Claim Units.** For other *mining land,* list hectares.	**Value of work performed** on this *claim or other* mining land.	**Value of work applied** to this *claim.*	**Value of work assigned** to other *mining claims.*	**Bank.** Value of work to be distributed at a future date.
eg	TB 7827	16 ha	$26, 825	N/A	$24,000	$2,825
eg	1234567	12	0	$24,000	0	0
eg	1234568	2	$ 8, 892	$ 4,000	0	$4,892
1	1077361	12	$15,418.61	$4,800	0	$10,618.61
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
		Column Totals				

I, HENRY VANDEVALK (Print Full Name), do hereby certify that the above work credits are eligible under subsection 7 (1) of the Assessment Work Regulation 6/96 for assignment to contiguous claims or for application to the claim where the work was done.

Signature of Recorded Holder or Agent Authorized in Writing	Date
Henry Vandevalk	JUNE 3/99

6. Instructions for cutting back credits that are not approved.

Some of the credits claimed in this declaration may be cut back. Please check (✓) in the boxes below to show how you wish to prioritize the deletion of credits:

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- ☐ 3. Credits are to be cut back equally over all claims listed in this declaration; or
- ☐ 4. Credits are to be cut back as prioritized on the attached appendix or as follows (describe):

2.19526

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Note: If you have not indicated how your credits are to be deleted, credits will be cut back from the Bank first, followed by option number 2 if necessary.

For Office Use Only

Received Stamp	Deemed Approved Date	Date Notification Sent
	Date Approved	Total Value of Credit Approved
	Approved for Recording by Mining Recorder (Signature)	

0241 (02/96)

Ontario Ministry of Northern Development and Mines

Statement of Costs for Assessment Credit

Transaction Number (office use): W9960.00021

Personal information collected on this form is obtained under the authority of subsection 6(1) of the Assessment Work Regulation 6/96. Under section 8 of the Mining Act, the information is a public record. This information will be used to review the assessment work and correspond with the mining land holder. Questions about this collection should be directed to the Chief Mining Recorder, Ministry of Northern Development and Mines, 6th Floor, 933 Ramsey Lake Road, Sudbury, Ontario, P3E 6B5.

Work Type	Units of Work (Depending on the type of work, list the number of hours/days worked, metres of drilling, kilometres of grid line, number of samples, etc.)		Cost Per Unit of work	Total Cost
ESTABLISH GRID	18.6 km	7.5 man/days	$200/man/day	$1,500.00
SOIL SAMPLING	377 SAMPLES	14 man/days	"	$2,800.
MAGNETOMETER SURVEY	18.6 km	4.5 man/days	"	900.
PROSPECTING	17 SAMPLES	1 man/day	"	200.
MAPPING RESULTS (PLOTTING)		6 man/days	"	1200.
FINAL REPORT PREP.		5 man/days	"	1000.
Associated Costs (e.g. supplies, mobilization and demobilization).				
EQUIPMENT - SAMPLE BAGS, FLAGGING & TAPE ETC.				250.31
ATC RENTAL (12 DAYS)			$150/day	1800.00
ANALYSIS COSTS				3165.89
FINAL REPORT COSTS - PAPER, PHOTOCOPYING ETC.				231.01
Transportation Costs	4438 km		$.30/km	1331.40
Food and Lodging Costs	26 MAN nights		$40/night/man	1040.00
		Total Value of Assessment Work		15,418.61

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JUN 08 1999
GEOSCIENCE ASSESSMENT OFFICE

2.19526

Calculations of Filing Discounts:

1. Work filed within two years of performance is claimed at 100% of the above Total Value of Assessment Work.
2. If work is filed after two years and up to five years after performance, it can only be claimed at 50% of the Total Value of Assessment Work. If this situation applies to your claims, use the calculation below:

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Note:
- Work older than 5 years is not eligible for credit.
- A recorded holder may be required to verify expenditures claimed in this statement of costs within 45 days of a request for verification and/or correction/clarification. If verification and/or correction/clarification is not made, the Minister may reject all or part of the assessment work submitted.

Certification verifying costs:

I, HENRY VANDERVACK (please print full name), do hereby certify, that the amounts shown are as accurate as may reasonably be determined and the costs were incurred while conducting assessment work on the lands indicated on the accompanying Declaration of Work form as RECORDED HOLDER (recorded holder, agent, or state company position with signing authority) I am authorized to make this certification.

Signature: [signature] Date: JUNE 3/99

Ministry of
Northern Development
and Mines

Ministère du
Développement du Nord
et des Mines

Ontario

Geoscience Assessment Office
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (888) 415-9846
Fax: (877) 670-1555

Visit our website at:
www.gov.on.ca/MNDM/MINES/LANDS/mlsmnpge.htm

June 14, 1999

HENRY VANDEVALK
1978 BALSAM AVE.
MISSISSAUGA, ONTARIO
L5J-1L2

Dear Sir or Madam:

Submission Number: 2.19526

Subject: Transaction Number(s):		**Status**
	W9990.00021	Deemed Approval
	W9990.00022	Deemed Approval

We have reviewed your Assessment Work submission with the above noted Transaction Number(s). The attached summary page(s) indicate the results of the review. WE RECOMMEND YOU READ THIS SUMMARY FOR THE DETAILS PERTAINING TO YOUR ASSESSMENT WORK.

If the status for a transaction is a 45 Day Notice, the summary will outline the reasons for the notice, and any steps you can take to remedy deficiencies. The 90-day deemed approval provision, subsection 6(7) of the Assessment Work Regulation, will no longer be in effect for assessment work which has received a 45 Day Notice. Allowable changes to your credit distribution can be made by contacting the Geoscience Assessment Office within this 45 Day period, otherwise assessment credit will be cut back and distributed as outlined in Section #6 of the Declaration of Assessment work form.

Please note any revisions must be submitted in DUPLICATE to the Geoscience Assessment Office, by the response date on the summary.

If you have any questions regarding this correspondence, please contact Steve Beneteau by e-mail at steve.beneteau@ndm.gov.on.ca or by telephone at (705) 670-5855.

Yours sincerely,

ORIGINAL SIGNED BY
Blair Kite
Supervisor, Geoscience Assessment Office
Mining Lands Section

Correspondence ID: 13899
Copy for: Assessment Library

Work Report Assessment Results

Submission Number: 2.19526

Date Correspondence Sent: June 14, 1999 **Assessor:** Steve Beneteau

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9990.00021	1077361	LOUNT	Deemed Approval	June 14, 1999

Section:
14 Geophysical MAG
9 Prospecting PROSP
13 Geochemical GCHEM

Transaction Number	First Claim Number	Township(s) / Area(s)	Status	Approval Date
W9990.00022	1077362	LOUNT	Deemed Approval	June 14, 1999

Section:
14 Geophysical MAG
13 Geochemical GCHEM
9 Prospecting PROSP

Correspondence to:

Resident Geologist
Sudbury, ON

Assessment Files Library
Sudbury, ON

Recorded Holder(s) and/or Agent(s):

HENRY VANDEVALK
MISSISSAUGA, ONTARIO

WILLIAM JOHN VANDEVALK
MISSISSAUGA, ONTARIO

Correspondence ID: 13899

ONTARIO

MINISTRY OF NATURAL RESOURCES

SURVEYS AND MAPPING BRANCH

M.184 P81.M

LEGEND

CANCELLED	C
PATENTED LAND	(P)
CROWN LAND SALE	CS
LEASES	(L)
LOCATED LAND	LOC
LICENSE OF OCCUPATION	LO
MINING RIGHTS ONLY	MRO
SURFACE RIGHTS ONLY	SRO.

400' Surface rights reservation around all lakes & rivers.

LOUNT

EASTERN ONTARIO MINING DIVISION

Scale - 40 Chains = 1 Inch

Areas withdrawn from staking under Section 43 of the Mining Act. R.S.O. 1970

	File	Date	Disposition
(R1)	160707	31/8/72	S.R.O. (location amended 6/11/72)
(R2)	171870	22/2/83	S.R.O. & M.R.
(R3)		22/2/83	S.R.O. Order No. W-5-83
(R4)	SEC. 35	W-LL-C75/99 ONT	May 11/99 M&S

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

PRINGLE

FERRIE

MACHAR

CHAPMAN

LOUNT TWP

P81.M M.184