ASSESSMENT REPORT FOR

HUMUS GEOCHEMICAL SURVEY OVER

FALCONBRIDGE LIMITED MINING CLAIMS

PENHORWOOD TOWNSHIP

N.T.S. 42A/05

FALCONBRIDGE LIMITED - TIMMINS, ONTARIO

2.14805 Qual.

A.D. McLaughlin

September 30, 1992

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1. INTRODUCTION

Falconbridge Limited completed a geochemical humus survey over twenty-two mining claims in Penhorwood and Kenogaming Townships in the Porcupine Mining Division between June 9 and June 24, 1992. A total of 907 samples were taken and analyzed using a partial extraction process. Total survey cost was $16,916.44. Assessment work is to be credited to appropriate mining claims, as indicated in the attached Report of Work Conducted After Recording Claim, with a portion assigned to the some of the claims in this contiguous claim block, and the remainder banked in reserve. All survey data are compiled in Figures 3 - 8 and in Appendices A and B. The work was supervised by A.D. McLaughlin, also author of this report.

2. LOCATION AND ACCESS

The property is located seventy kilometres southeast of Timmins (Figure 1). Access is via Highway 101 and then south on the Kenogaming - Penhorwood gravel road. A series of bush trails provide good access throughout the claims.

3. TOPOGRAPHY and VEGETATION

Most of the property is flat and covered with black spruce, poplar and alder. West of the Nat River relief is up to fifteen metres. There is less than 1% outcrop on the property.

4. PROPERTY and MINING CLAIMS

Falconbridge Limited has 37 mining contiguous claims in the area as presented in Figure 2 and listed in Table I with the work performed on individual claims. The company address is:

Falconbridge Limited
P.O. Box 1140
571 Moneta Ave
Timmins, Ontario M5J 2V4

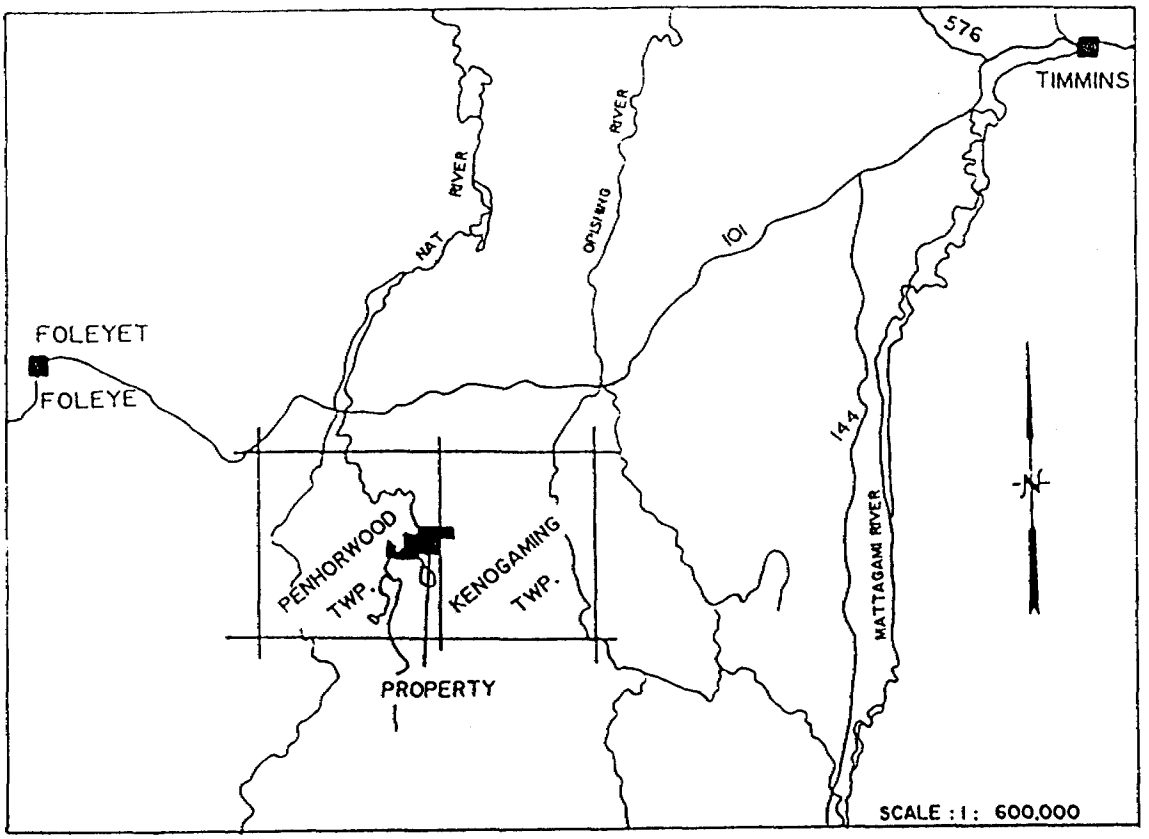


Figure 1 Location Map

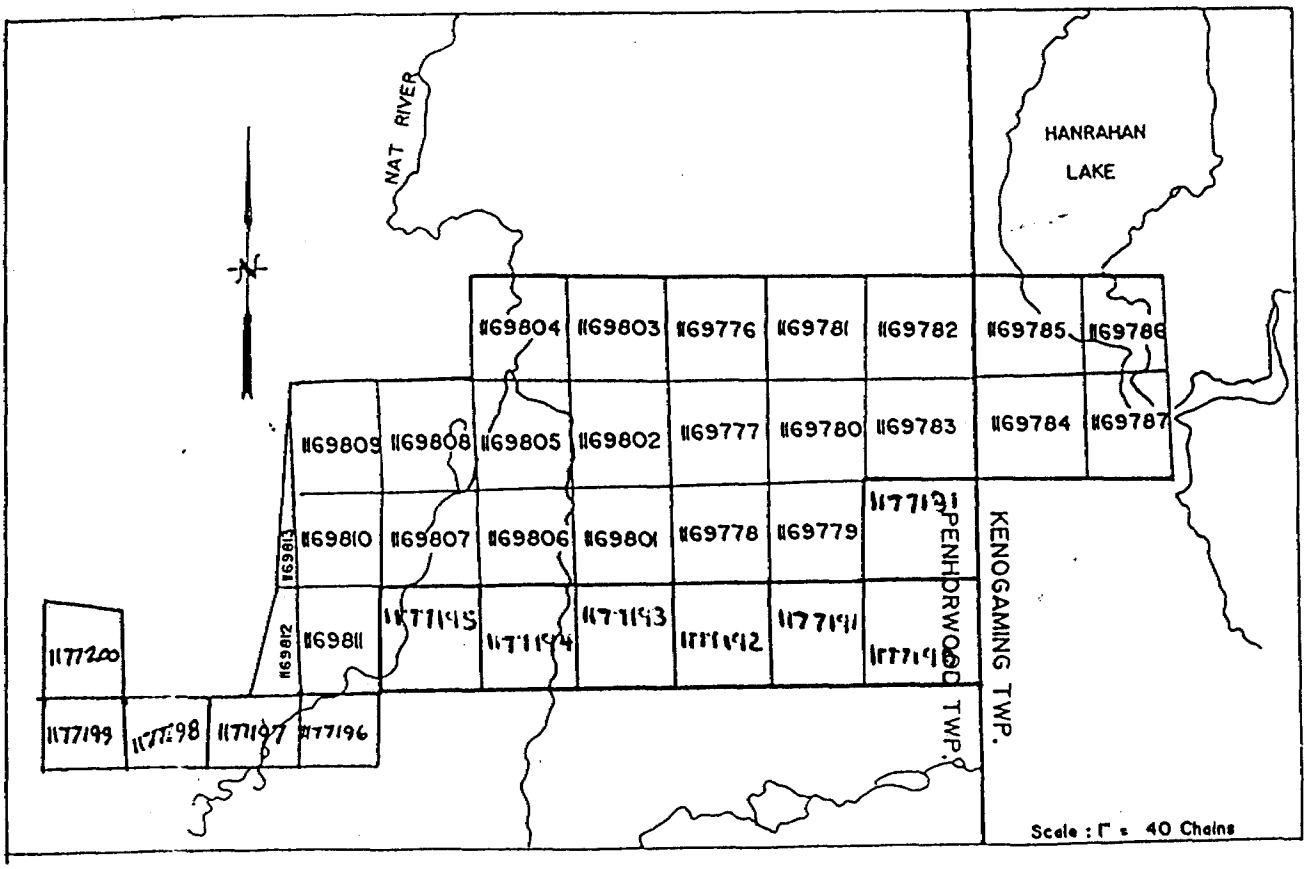


Figure 2 Property Map

TABLE I

HUMUS SURVEY ON

FALCONBRIDGE LIMITED MINING CLAIMS in PENHORWOOD TOWNSHIP

	CLAIM #	LINE KM SURVEY	SAMPLES	
	P1169776	.44	23	
	P1169777	.70	36	
	P1169778	.66	34	
	P1167779	.70	31	
	P1167780	.90	43	
	P1167781	.54	29	
	P1167782 - P116787	0	0	(inclusive)
	P1169801	1.24	63	
	P1169802	1.18	58	
	P1169803	.70	38	
	P1169804	.80	48	
	P1169805	1.50	86	
	P1169806	1.30	67	
	P1169807	.18	10	
	P1169808	0	0	
	P1169809	.84	42	
	P1169810	.94	47	
	P1169811	.96	46	
	P1169812 - P1169813	0	0	(inclusive)
	P1177181	0	0	
	P1177190	0	0	
	P1177191	.26	13	
	P1177192	.56	27	
	P1177193	.60	47	
	P1177194	1.18	60	
	P1177195	.82	39	
	P1177196	.40	21	
	P1177197 - P1177200	0	0	(inclusive)
TOTALS	37 Claims	17.4	908	

5. PREVIOUS WORK

The International Nickel Company of Canada drilled a single drill hole on Claim P-1169807 in 1964, intersecting iron formation within a sedimentary and mafic volcanic sequence. In 1971, Noranda Exploration completed MAG and vertical loop electromagnetic surveys (VLEM) over ten of the present Falconbridge Limited claims. Subsequent diamond drilling was carried out on claims P-116977 and P-1169778; drill hole P71-15 tested an EM conductor and intersected rhyolite tuff containing pyritic intervals, and a second drill hole, P-71-16, drilled felsic volcanics with minor chalcopyrite and pyrrhotite.

Later in 1978, Geophysical Engineering Limited completed a VLEM survey and drilled claim P-1169784, intersecting pyrrhotite bearing intermediate volcanics.

6. REGIONAL GEOLOGY

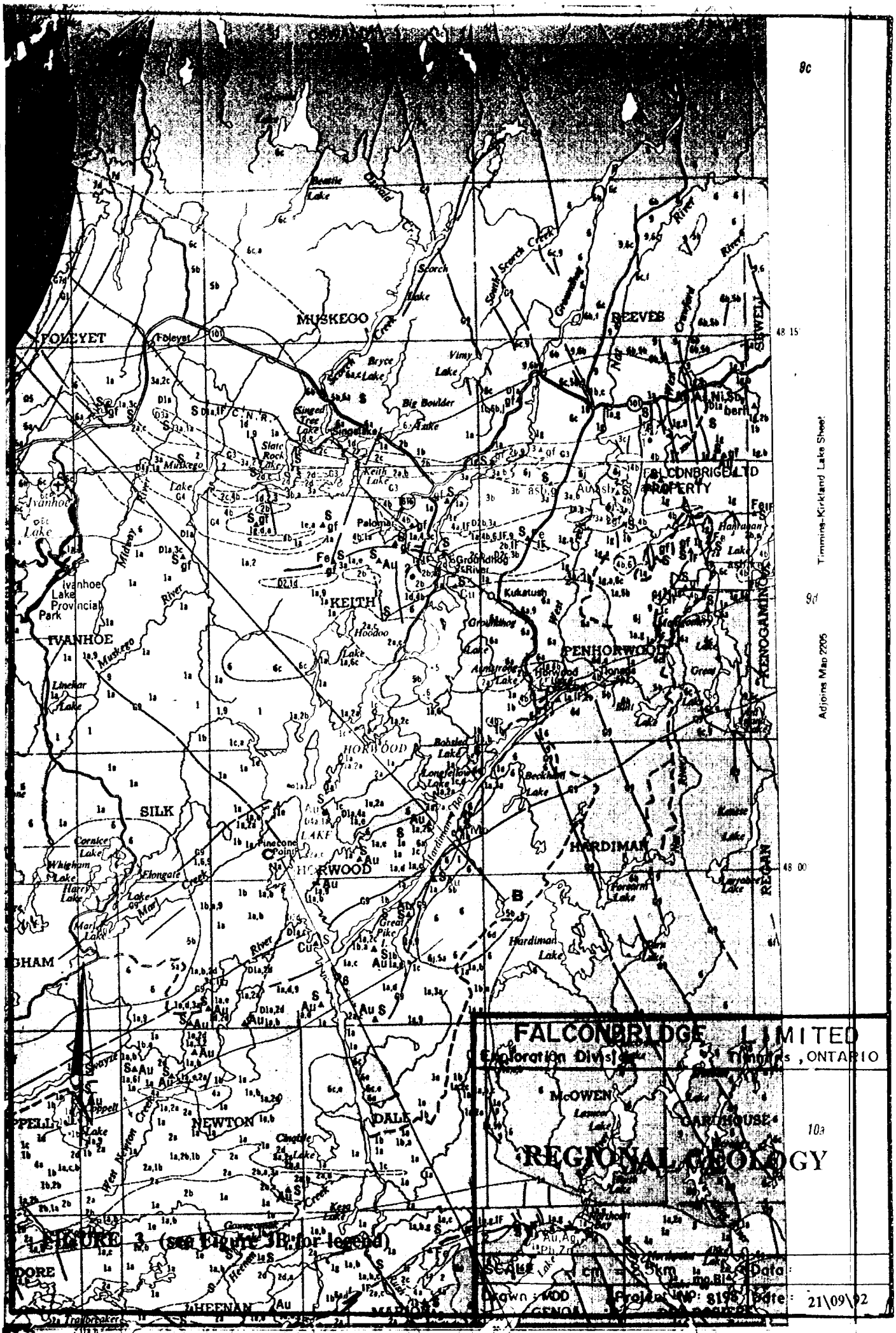
The property is located within the North Swaze greenstone belt (Figure 3). It is underlain mainly by the Hanahran Assemblage (Jackson and Fyon, 1990), a northeast/southwest trending belt of komatiite volcanics overlying iron formation and mafic to felsic volcanics. Above the komatiites mafic to felsic volcanics are present. These have been folded into a northeast trending antiform enveloped by granitoid rocks. Later north to northeast trending diabase dykes cut the section.

7. HUMUS SURVEY

7.1 Introduction

With little outcropping on the property, it was felt that a humus survey would detect anomalous metal concentrations from the prospective ultramafic and felsic horizons. However since the area is underlain by glacial tills of both unknown thickness and type, a conventional humus analytical method would detect metals emanating from both the bedrock and those derived from the till. Since the latter might mask any significant bedrock responses, a partial extraction analytical procedure was performed on the collected samples.

This process, essentially a cold extraction analysis, will detect only those metal ions that were adsorbed or scavenged by the humic acids present in the humus material and subsequently held in a relatively weak bond. The ions represent only metals emanating from a bedrock source and not from transported material such as glacial till. These are more tightly bonded in sulphide or silicate minerals and will not be amenable to leaching by this process. The process, as modified by Gwendy Hall of the Geological Survey of Canada, is detailed in Appendix I.


9c
9d
10a
Timmins-Kirkland Lake Sheet
Adjoins Map 2205
48 15
48 00
MUSKEGO
FOLEYET
REEVES
KEITH
IVANHOE
PENHORWOOD
HORWOOD
SILK
HARDIMAN
NEWTON
DALE
McOWEN
GARTHOUSE
KENOGAMINO
REGAN
FALCONBRIDGE LIMITED
Exploration Division
Timmins, ONTARIO
REGIONAL GEOLOGY
FIGURE 3 (see Figure 3R for legend)
Scale: 1 cm = 1 km
Data:
Drawn: WOD
Project: MP 8195
Date: 21\09\92

LEGEND

PHANEROZOIC

CENOZOIC

QUATERNARY

PLEISTOCENE AND RECENT

Till, clay, sand, gravel.

UNCONFORMITY

MESOZOIC

LATE JURASSIC TO EARLY CRETACEOUS[a]

12 *Lamprophyre dikes.*

INTRUSIVE CONTACT

PRECAMBRIAN

LATE PRECAMBRIAN

MAFIC TO INTERMEDIATE INTRUSIVE ROCKS[b]

11a Hornblende syenite.
11b Syenodiorite and diorite.
11c Hornblende monzonite.
11d Porphyritic hornblende diorite, quartz diorite, and gabbro (plagioclase porphyry).
11e Mafic hornfels.

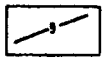
CARBONATITE-ALKALIC COMPLEXES[b]

10a Alkalic syenite, pulaskite.
10b Brecciated alkalic syenite and related rock types.
10c Fenitized rocks.
10d Massive mafic nepheline syenite (malignite).
10e Massive to foliated nepheline syenite and related rocks.
10f Sövite (calcite-rich carbonatite).
10g Magnetite-apatite rock.
10h Urtite, ijolite, melteigite (nepheline-pyroxene rocks).

INTRUSIVE CONTACT

EARLY TO MIDDLE PRECAMBRIAN

MAFIC INTRUSIVE ROCKS



9 *Diabase dikes.*

INTRUSIVE CONTACT

EARLY PRECAMBRIAN

SHAWMERE ANORTHOSITE COMPLEX

8a Anorthosite to gabbroic anorthosite.
8b Anorthosite gabbro.
8c Gabbro.
8d Brecciated anorthositic to gabbroic rocks.
8e Gneissic to flaser-textured tonalite and monzonite.

INTRUSIVE CONTACT

KAPUSKASING STRUCTURAL ZONE ROCKS

7a Meta-igneous rocks (metamorphosed mafic to intermediate intrusive rocks).
7b Melanocratic granulite (pyroxene-quartz-hornblende-plagioclase granulite).
7c Pelitic and psammitic granulites (pyroxene-garnet-quartz-feldspar granulite).
7d Metasedimentary gneiss, including intercalations of metavolcanic gneiss (metamorphosed to upper amphibolite facies).
7e Arkosic metasediments.

FAULT CONTACT

FELSIC IGNEOUS AND METAMORPHIC ROCKS[c]

Felsic Intrusive and Hybrid Rocks[c]

6 Unsubdivided.[d]
6a Massive to weakly foliated, biotite and hornblende trondhjemite, granodiorite, and minor quartz diorite.
6b Gneissic, biotite and hornblende trondhjemite, granodiorite, and minor quartz diorite.
6c Massive to weakly foliated, hornblende and biotite quartz-monzonite.
6d Gneissic biotite and hornblende quartz-monzonite.
6e Syenitic rocks.
6f Pegmatite, aplite.
6g Augen gneiss.
6h Hornblende granodiorite to diorite (in part hybrid rocks).
6j Porphyritic granitic rocks.

INTRUSIVE OR GRADATIONAL CONTACT

Migmatitic Rocks[c]

5 Unsubdivided.[d]
5a Migmatite with metavolcanic paleosome[e] *of quartz-feldspar-hornblende gneiss; veined with more than 25% granitic material (neosome*[f]*).*
5b Migmatite with metasedimentary paleosome[e] *of biotite-quartz-feldspar gneiss; veined with more than 25% granitic material (neosome*[f]*).*

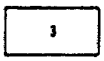
INTRUSIVE CONTACT

MAFIC AND ULTRAMAFIC INTRUSIVE ROCKS

4 Unsubdivided.[d]
4a Diorite and gabbro.
4b Ultramafic rocks and their serpentinized equivalents, minor gabbro.

INTRUSIVE CONTACT

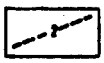
METASEDIMENTS[g]



3 Unsubdivided.[d]
3a Greywacke, arkose, quartzite.
3b Conglomerate.
3c Argillaceous, fine-grained metasediments.
3d Biotite-quartz-feldspar schist and gneiss.
3e Migmatized metasediments (10-25% granitic material).

METAVOLCANICS[g]

Felsic to Intermediate Metavolcanics



2 Unsubdivided.[d]
2a Rhyolite to decite flows and fragmental rocks.
2b Tuff, banded tuff, and lapilli-tuff.
2c Agglomerate, breccia.
2d Porphyritic flows, quartz-feldspar porphyry.

Mafic to Intermediate Metavolcanics

1 Unsubdivided.[d]
1a Basalt to andesite flows and porphyritic flows, massive to foliated
1b Basalt to andesite pillow lava.
1c Mafic pyroclastic rocks.
1d Layered amphibolite.
1e Diorite, gabbro (coarse-grained flows or intrusions).
1g Migmatized mafic metavolcanics (10-25% granitic material).

IF Iron formation (associated with 1, 2 and 3 map units).

S *Sulphide mineralization.*

Map 2221 Chapleau - Foleyet

Compilation Series

Figure 3b Legend for Regional Geology

The humus layer is only variably developed on the property. Typically the humus or (A_1 soil layer) is 1-10 centimetres thick and present below the forest litter zone (A_0 layer). However in areas of outcrop, or recent logging the humus is not always present or, is to thin to precisely sample without contamination from the adjacent soil layers.

The samples were collected by two samplers contracted from Larchex Inc. of Timmins, Ontario. Samples were taken at twenty metre intervals on the grid along lines 100 metres apart in the centre of the property, but at 200 metre line separation on the peripheral lines. Shovels and garden hoes were used to obtain enough humus material to fill an Kraft Paper bag 9.5 by 23 centimetres. All samples were air dried in the Falconbridge Limited Timmins office and then shipped to TSL/Assayers Corporation Ltd. in Rouyn, Quebec, for analyzes.

7.2 Sample Statistical Analyzes and Standards

All the data were statistically analyzed using the Rockware software program. These results are presented in Appendix II. The data plots for each element are presented on Figures 3 to 7, with scaled symbol sizes representing specified sample ranges based on the sample populations derived from the histogram analzses. The results generally reflect a typical geochemical survey population with the values strongly skewed towards the low range. The higher range values would then represent a second anomalous sample population. Background values are represented by the two lowest ranges for each metal on the maps.

Fifteen sample standards were submitted as a control on the analytical method. A humus sample standard, SO-4, obtained from the Canada Centre for Mineral and Energy Technology, was used. The results (Appendix C) show a reasonable grouping of values except for two samples, which returned high values, are unexplained.

7.3 Discussion and Interpretation

Nickel and copper data are especially characterized by low values which has generated a series of narrow and discontinous anomaly patterns. The cobalt and zinc results, however, show a much larger range resulting in broader contours and thus anomaly patterns. Lead results are very erratic and do not show any clear association with the other metals. Silver did not return any values above detection limit.

The results indicate three areas of consistent anomalous trends. The most obvious and interesting is the coincident nickel, cobalt, copper and zinc anomaly between grid lines L92+00E and L100+00E with a strike length up to 850 metres and a maximum width of 100 metres. Striking 250^0 the anomaly is marked by an interior copper anomaly enveloped

by broader cobalt and zinc responses. These three metals are centred over L96+00E and thin out, but persist, along strike. Nickel, however, returned the highest values from L100+00E at the eastern extent of the survey and thins out to the west. Values up to four times background are present in all the metals. From a regional geological interpretation, the anomaly is located above the northern section of an ultramafic unit which overlies mafic volcanics.

A second trend was detected to the north overlying an interpreted iron formation within mafic volcanics. This anomaly is indicated by a series of discontinous zinc and copper anomalies with isolated high nickel and cobalt responses. In contrast to the above anomaly values are here not much higher than twice background. The most interesting feature is a poorly defined zone about 900 by 200 metres marked by 160 metre copper anomaly a single grid line, L90+00E, partially enveloped by anomalous zinc responses. The best zinc occurs 200 metres over L87+00E and L88+00E with values up to four times background. This coincident core copper anomaly surrounded by zinc represents the classic soil geochemical pattern where the very mobile zinc envelopes the more restricted copper.

Felsic volcanics underlying the northern section of the grid are marked by isolated copper, zinc and lead anomalies without any appreciable size or magnitude. The most significant of these is the three times background copper response parallel to stratigraphy. Total anomaly size is 125 metres by 30 metres, but the anomaly is open to the north. The anomalous area is also marked by erratic nickel and cobalt values.

8. SUMMARY AND CONCLUSIONS

Overall the data generally appear to reflect the underlying bedrock. This is clear from the nickel association with the ultramafic lithologies, the copper and zinc over the iron formation and the base metal response, albeit patchy, over the felsic volcanics to the north. The anomalous patterns also suggest local metal sources, possibly indicating sulphide mineralization. With little information on glacial till, the surficial geological contribution will have to investigated.

9. RECOMMENDATIONS

All the anomalous areas should be investigated for undetected outcroppings. Local topographic relief and drainage patterns must be examined to ascertain any hydromorphic dispersion anomalies. If warranted trenching will be completed over the areas to examine both the till and bedrock.

10. REFERENCES

Bolviken, B. and Gleeson, C.F., (1979), Focus on the Use of Soils for Geochemical Exploration in Glaciated Terrane, in Geophysics and Geochemistry in the Search for Metallic Ores, Geological Survey of Canada Report 31.

Hamilton, J.A. et al, (1991), Geochemical Exploration Applied to Base Metal and Gold Exploration in Ontario, Progress Report for Corporate Partners and the Ministry of Colleges and Universities of Ontario.

Jackson, S.L. and Fyon, J.A., (1991), The Western Abitibi Subprovince in Ontario, in Geology of Ontario, Ontario Geological Survey, Special Volume 4, Part 1, p 405-484.

Lesher, C.M. and Groves, D.I. (1984)
Geochemical and Mineralogical Criteria for the Identification of Mineralized Komatiites in Archean Greenstone Belts in Australia. Proceedings of the 27th International Geological Congress, Vol. 9, pp. 283-302.

APPENDIX A

SAMPLE ANALYZES and ANALYTICAL PROCEDURES

ORGANIC PHASE EXTRACTION FROM HUMUS SAMPLES

REAGENT: 0.1M $Na_4P_2O_7$ (pH 10.0) prepared by adding 44.6 grams of $Na_4P_2O_7$ to 990mL of DDI H_2O. The pH can adjusted to 10.0 by adding approximately 60uL of concentrated HNO_3 to the solution. Make up volume to 1L mark with DDI H_2O and shake well.

PROCEDURE:

1. Weigh out 1.0 gram of sample into 250 ml Erlienmeyer flasks.
2. Add 85 mL of 0.1M $Na_4P_2O_7$ to the samples.
3. Cover top of flasks with parafilm.
4. Swirl the samples to mix and to remove any sample stuck to flask bottom.
5. Shake on shaker for 3 hours @ 100 shakes per minute.
6. Remove samples from shaker.
7. Swirl and transfer the sample into two 50 mL Falcon tubes. Make sure that tubes have same amount of sample.
8. Weigh Falcon tube and balance them by adding 0.1M to $Na_4P_2O_7$ the samples.
9. Centifuge the samples for 10 minutes. NOTE: Position the tubes in Centrifuge so that they are opposite to the tubes with the corresponding weight.
10. Set up Millipore suction filtering apparatus. Clean with 10 mL HNO_3 in 250 mL of DDI H_2O allowing the solution to be drawn through the filtering apparatus. Rinse twice with 250 mL of DDI.
11. Use Whatman #41 diameter 5.5 cm for filtering of samples.
12. Decant superatant (top of solution) into filer cup. Pour into middle of the filter paper to prevent sample from sticking to the sides.
13. Rinse the filter cup sides twice with 0.1M $Na_4P_2O_7$ and remove filter cup. Remove filter paper and place it just inside the mouth of the flask from which the sample came. Transfer the filtrate (sample in the filter flask) into a clean and labelled 100 mL volumetric flask using a funnel. Rinse the funnel twice using 0.1M $Na_4P_2O_7$. Cap the volumetric flasks.
14. Clean filtering apparatus between samples as described in Step # 10 and rinse funnel between samples with DDI.

15. Add 10mL of $Na_4P_2O_7$ to the residue and transfer back into the Erlenmeyer from which it came. Rinse each tube two or three times to transfer all remaining residue into the flask. Do this to each tube keeping in mind that the total volume must be 85 mL and also that there are two tubes for each sample.

16. Make volume up to 100 mL in the volumetric flasks.

17. Analyze both sets by Flame AA.

18. Refridgerate residues.

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I.C.A.P. ANALYSIS

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2R-1168-SG11
PROJ.:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA3296	1.0	< 1	1	12	11	< 1
SA3297	1.5	7	2	7	19	< 1
SA3298	0.5	< 1	< 1	9	10	< 1
SA3299	1.0	< 1	2	8	9	< 1
SA3300	1.5	2	1	13	12	< 1
SA3301	<0.5	< 1	1	9	4	< 1
SA3304	1.0	1	1	7	11	< 1
SA3406	<0.5	4	2	12	38	< 1
SA3407	4.0	7	2	15	28	< 1
SA3408	2.5	9	3	15	27	< 1
SA3409	2.0	1	< 1	12	18	< 1
SA3410	8.5	10	4	31	21	< 1
SA3411	<0.5	5	3	31	26	< 1
SA3412	0.5	2	2	32	42	< 1
SA3413	<0.5	2	2	70	21	< 1
SA3414	<0.5	1	1	56	34	< 1
SA3415	<0.5	4	2	36	22	< 1
SA3416	<0.5	2	1	26	15	< 1
SA3417	<0.5	2	3	32	38	< 1
SA3418	0.5	3	3	17	26	< 1
SA3419	0.5	2	1	29	30	< 1
SA3421	2.0	2	2	24	27	< 1
SA3422	<0.5	5	2	17	24	< 1
SA3423	0.5	2	2	24	41	< 1
SA3424	0.5	2	2	28	27	< 1
SA3425	0.5	1	2	24	22	< 1
SA3426	1.0	3	2	48	53	< 1
SA3427	0.5	4	3	20	16	< 1
SA3428	<0.5	3	< 1	17	29	< 1
SA3429	<0.5	1	1	5	21	< 1
SA4143	<0.5	2	2	28	20	< 1
SA3430	1.0	4	3	19	43	< 1
SA3431	5.5	7	4	43	50	< 1
SA3432	2.0	9	3	14	38	< 1
SA3433	0.5	3	< 1	14	30	< 1

SIGNED :

TSL/92

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[illegible]CONBRIDGE LTD

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2R-1168-SG11
PROJ.:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA3434	<0.5	2	2	15	33	< 1
SA3435	0.5	2	1	15	31	< 1
SA3436	3.0	1	4	23	34	< 1
SA3437	1.5	2	2	8	57	< 1
SA3438	3.5	3	3	8	38	< 1
SA3439	2.0	1	2	14	34	< 1
SA3440	6.0	2	2	12	50	< 1
SA3441	2.0	< 1	2	20	24	< 1
SA3442	10.0	2	1	25	31	< 1
SA3443	2.5	< 1	2	13	16	< 1
SA3444	30.5	< 1	4	41	77	2
SA3445	1.5	< 1	< 1	14	28	< 1
SA3446	1.0	5	3	22	41	< 1
SA3447	3.0	9	8	29	52	< 1
S[illegible]15	0.5	4	2	22	30	< 1
SA3516	3.5	2	2	16	23	1
SA3517	<0.5	4	2	14	26	< 1
SA3518	<0.5	3	1	13	11	< 1
SA3519	1.5	< 1	1	19	26	< 1
SA3520	1.0	6	2	17	15	< 1
SA3521	<0.5	3	2	54	33	< 1
SA3522	1.0	4	2	41	34	< 1
SA3523	<0.5	4	2	48	29	< 1
SA3524	1.0	2	2	48	35	< 1
SA3525	<0.5	1	< 1	41	22	< 1
SA3526	<0.5	4	2	25	24	< 1
SA3527	3.0	6	2	7	16	1
SA3528	1.0	1	3	35	31	< 1
SA3529	<0.5	< 1	< 1	36	20	< 1
SA4102	1.5	9	3	15	18	< 1
SA4103	1.5	4	4	27	26	< 1
SA4103A	2.0	5	4	6	12	< 1
SA4121	<0.5	3	1	26	21	1
SA4122	<0.5	7	3	41	33	< 1
SA4123	1.5	4	< 1	15	26	< 1

SIGNED : W Poirier

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I.C.A.P. ANALYSIS

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ZK-1157-SG5-SG8

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Date : JUL-14-1992

PROJ:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA3264	0.5	4	< 1	24	11	< 1
SA3265	1.0	3	2	85	25	< 1
SA3266	1.5	4	2	8	10	< 1
SA3267	9.0	5	2	6	24	< 1
SA3268	1.0	4	1	< 1	4	< 1
SA3269	0.5	1	< 1	< 1	4	< 1
SA3270	7.0	2	1	18	83	< 1
SA3448	1.0	2	2	52	13	< 1
SA3449	0.5	3	1	64	22	< 1
SA3450	1.0	3	2	48	33	< 1
SA3451	<0.5	4	< 1	41	28	< 1
SA3452	0.5	4	1	50	27	< 1
SA3453	<0.5	2	< 1	51	12	< 1
SA3454	<0.5	3	1	23	13	< 1
SA3455	<0.5	4	1	58	22	< 1
SA3456	<0.5	3	< 1	36	10	< 1
SA3457	<0.5	3	< 1	50	12	< 1
SA3458	<0.5	5	1	14	15	< 1
SA3459	0.5	4	2	25	9	< 1
SA3460	<0.5	1	1	12	14	< 1
SA3461	0.5	3	< 1	14	5	< 1
SA3462	0.5	3	< 1	17	5	< 1
SA3462A	2.5	7	5	2	19	< 1
SA3463	0.5	2	< 1	10	14	< 1
SA3464	18	< 1	1	16	63	< 1
SA3465	7.5	1	2	9	42	< 1
SA3466	1.5	3	2	14	23	< 1
SA3467	<0.5	4	2	65	29	< 1
SA3468	1.0	4	1	33	14	< 1
SA3469	<0.5	4	2	8	17	< 1
SA3470	<0.5	3	< 1	37	27	< 1
SA3471	0.5	4	2	57	39	< 1
SA3472	1.0	4	2	77	32	< 1
SA3473	0.5	3	1	52	39	< 1
SA3474	0.5	3	< 1	21	28	< 1

SIGNED :

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780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

I.C.A.P. ANALYSIS

CONBRIDGE TIMMINS
1157-SG5-SG8

REPORT No. : H1157
Page No. : 2 of 3
File No. : JY13MZ
Date : JUL-14-1992

PROJ:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA3475	1.5	1	< 1	9	37	< 1
SA3476	5.5	3	1	24	39	< 1
SA3477	1.0	2	< 1	22	32	< 1
SA3478	1.0	1	1	30	50	< 1
SA3479	0.5	1	< 1	17	24	< 1
SA3480	1.0	2	2	10	33	< 1
SA3481	0.5	1	< 1	17	42	< 1
SA3482	0.5	< 1	1	15	46	< 1
SA3483	<0.5	1	1	8	14	< 1
SA3484	0.5	2	< 1	36	16	< 1
SA3485	<0.5	2	< 1	32	34	< 1
SA3486	0.5	2	< 1	16	28	< 1
SA3487	2.0	3	2	23	52	< 1
SA3488	0.5	1	< 1	24	25	< 1
SA3489	0.5	2	< 1	11	12	< 1
SA3490	<0.5	2	< 1	7	17	< 1
SA3491	<0.5	3	1	31	16	< 1
SA3491A	2.0	7	5	7	17	< 1
SA3492	<0.5	3	1	52	35	< 1
SA3493	0.5	4	2	28	20	< 1
SA3494	1.0	4	1	66	12	< 1
SA3495	1.0	5	< 1	73	16	< 1
SA3496	<0.5	4	1	59	17	< 1
SA3497	<0.5	1	< 1	39	15	< 1
SA3498	<0.5	2	< 1	30	15	< 1
SA3499	<0.5	1	1	62	32	< 1
SA3500	0.5	4	< 1	26	8	< 1
SA3501	<0.5	1	< 1	57	19	< 1
SA3502	<0.5	2	1	27	9	< 1
SA3503	<0.5	2	2	25	6	< 1
SA3504	<0.5	4	< 1	42	22	< 1
SA3505	1.0	3	1	54	15	< 1
SA3507	1.0	3	1	33	25	< 1
SA3508	<0.5	3	< 1	26	10	< 1
SA3509	<0.5	4	1	35	38	< 1

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I.C.A.P. ANALYSIS

CONBRIDGE TIMMINS
2R-1157-SG5-SG8

REPORT No. : H1157
Page No. : 3 of 3
File No. : JY13MZ
Date : JUL-14-1992

PROJ:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA3510	<0.5	4	2	5	20	< 1
SA3511	<0.5	3	2	27	25	< 1
SA3512	1.0	2	2	32	11	< 1
SA3513	<0.5	4	1	34	14	< 1
SA3530	<0.5	1	< 1	9	26	< 1
SA3531	<0.5	3	< 1	8	18	< 1
SA3532	<0.5	4	1	57	24	< 1
SA3533	<0.5	3	1	28	26	< 1
SA3534	0.5	6	3	6	19	< 1
SA3535	0.5	2	1	5	20	< 1
SA3536	1.0	4	1	30	23	< 1
SA3537	1.0	2	1	21	19	< 1
SA3538	<0.5	1	< 1	31	20	< 1
SA3544A	2.0	8	4	< 1	16	< 1
SA3549	1.5	3	1	17	15	< 1
SA3550	<0.5	5	2	31	23	< 1
SA3552	0.5	4	< 1	31	22	< 1
SA3554	1.0	5	2	29	28	< 1

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I.C.A.P. ANALYSIS

CONBRIDGE TIMMINS
ATTN: D. McLAUGHLIN
2R-1110-SG4-15

REPORT No. : **H1110**
Page No. : 6 of 9
File No. : R1110
Date : JUL-10-1992

PROJ:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA0954	<0.5	8	2	13	34	< 1
SA0955	<0.5	4	2	27	18	< 1
SA0956	4.0	8	5	23	31	< 1
SA0957	1.0	3	3	22	33	< 1
SA0958	1.0	3	4	21	19	< 1
SA0959	5.5	19	9	13	30	< 1
SA0959A	2.0	8	9	4	21	< 1
SA4001	15	6	6	32	15	< 1
SA4002	5.5	12	8	12	19	< 1
SA4003	2.5	12	9	11	29	< 1
SA4004	1.5	16	6	21	17	< 1
SA4005	1.0	3	1	41	48	< 1
SA4006	1.0	3	1	14	12	< 1
SA4007	1.0	4	4	32	17	< 1
SA4008	1.0	3	< 1	12	7	< 1
SA4009	<0.5	3	< 1	10	19	< 1
SA4010	<0.5	2	1	11	32	< 1
SA4011	<0.5	1	< 1	14	22	< 1
SA4012	<0.5	2	< 1	23	18	< 1
SA4013	1.5	2	< 1	13	32	< 1
SA4014	1.5	2	< 1	13	40	< 1
SA4015	<0.5	< 1	1	19	34	< 1
SA4016	0.5	3	< 1	28	51	< 1
SA4017	<0.5	4	< 1	27	65	< 1
SA4018	2.5	5	1	17	61	< 1
SA4019	1.0	4	< 1	16	50	< 1
SA4020	8.0	6	3	28	100	< 1
SA4021	6.5	7	2	15	93	< 1
SA4022	2.5	7	2	25	65	< 1
SA4023	2.0	4	< 1	21	27	< 1
SA4024	4.0	5	3	6	37	< 1
SA4025	5.0	9	4	12	37	< 1
SA4026	3.5	7	2	34	57	< 1
SA4027	3.5	5	5	27	45	< 1
SA4028	2.0	5	2	23	21	< 1

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I.C.A.P. ANALYSIS

CONBRIDGE TIMMINS
D. McLAUGHLIN
2R-1110-SG4-15

REPORT No. : H1110
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Date : JUL-10-1992

PROJ:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA4029	1.5	5	2	26	36	< 1
SA4030	1.0	3	2	13	15	< 1
SA4031	2.5	7	2	13	16	< 1
SA4032	2.0	10	2	48	37	< 1
SA4034	0.5	7	2	32	69	< 1
SA4035	1.5	6	3	33	26	< 1
SA4036	0.5	3	1	14	12	< 1
SA4037	0.5	5	2	29	28	< 1
SA4038	0.5	3	2	31	24	< 1
SA4039	1.0	3	1	45	70	< 1
SA4040	1.0	4	2	40	48	< 1
SA4041	1.0	9	2	30	29	< 1
SA4042	1.0	3	2	24	15	< 1
SA4043	1.0	5	2	44	14	< 1
SA4044	1.5	8	2	36	23	< 1
SA4045	3.5	8	6	37	31	< 1
SA4046	1.0	3	2	27	55	< 1
SA4047	2.0	20	6	22	20	< 1
SA4048	2.0	10	3	23	95	< 1
SA4049	1.0	5	2	22	51	< 1
SA4049A	2.0	9	6	59	83	< 1
SA4050	30	8	7	30	23	< 1
SA4050A	8.0	28	13	26	33	< 1
SA4051	0.5	2	2	16	22	< 1
SA4052	1.5	4	1	15	15	< 1
SA4053	1.0	3	2	22	19	< 1
SA4054	4.0	4	< 1	21	24	< 1
SA4055	3.0	6	1	20	31	< 1
SA4056	0.5	6	2	13	14	< 1
SA4057	0.5	5	2	14	23	< 1
SA4058	<0.5	2	2	17	49	< 1
SA4059	4.0	6	2	18	30	< 1
SA4060	<0.5	2	< 1	16	13	< 1
SA4061	19	2	2	26	19	< 1
SA4062	3.5	4	< 1	11	9	< 1

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I.C.A.P. ANALYSIS

CONBRIDGE TIMMINS
ATTN: D. McLAUGHLIN
2R-1110-SG4-15

REPORT No. : H1110
Page No. : 8 of 9
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Date : JUL-10-1992

PROJ:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA4063	1.5	2	2	22	18	< 1
SA4064	2.0	3	1	18	16	< 1
SA4065	0.5	3	3	31	29	< 1
SA4066	1.5	3	1	22	31	< 1
SA4067	1.0	3	2	32	28	< 1
SA4068	1.5	2	2	25	13	< 1
SA4069	<0.5	5	2	35	30	< 1
SA4070	0.5	3	1	14	15	< 1
SA4072	1.0	3	1	15	17	< 1
SA4073	3.0	6	3	10	19	< 1
SA4074	1.0	5	1	14	29	< 1
SA4075	2.5	4	< 1	22	35	< 1
SA4076	3.5	4	2	31	55	< 1
SA4077	2.5	4	< 1	7	19	< 1
SA4078	3.5	1	1	15	52	< 1
SA4079	4.0	1	1	13	38	< 1
SA4080	6.5	2	3	14	58	< 1
SA4081	3.0	2	1	13	23	< 1
SA4082	<0.5	5	2	9	13	< 1
SA4083	2.0	3	1	15	10	< 1
SA4084	4.5	10	2	10	8	< 1
SA4085	1.0	7	2	20	17	< 1
SA4086	2.0	5	2	10	11	< 1
SA4087	1.5	6	3	30	24	< 1
SA4088	1.5	4	1	25	20	< 1
SA4089	0.5	2	1	11	22	< 1
SA4090	1.0	4	1	10	33	< 1
SA4091	<0.5	2	< 1	10	15	< 1
SA4092	1.5	2	< 1	4	17	< 1
SA4093	1.0	2	1	10	22	< 1
SA4094	2.5	3	1	21	61	< 1
SA4095	4.0	4	5	13	35	< 1
SA4096	2.0	3	2	23	30	< 1
SA4097	1.0	1	< 1	15	25	< 1
SA4098	<0.5	2	1	12	27	< 1

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I.C.A.P. ANALYSIS

CONBRIDGE TIMMINS
: D. McLAUGHLIN
2R-1110-SG4-15

REPORT No. : H1110
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File No. : R1110
Date : JUL-10-1992

PROJ:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA4099	0.5	3	1	8	28	< 1
SA4100	1.0	5	1	10	21	< 1
SA4104	1.0	2	2	7	5	< 1
SA4105	1.0	5	2	13	11	< 1
SA4106	2.5	5	2	25	31	< 1
SA4107	2.0	7	3	23	19	< 1
SA4108	3.5	6	5	22	33	< 1
SA4109	3.0	7	5	35	40	< 1
SA4110	0.5	6	< 1	19	41	< 1
SA4111	1.5	3	< 1	19	27	< 1
SA4112	1.5	3	1	14	12	< 1
SA4113	9.5	12	2	58	73	< 1
SA4114	4.0	7	3	22	42	< 1
SA4115	3.5	6	2	21	41	< 1
SA4116	7.5	12	6	28	19	< 1
SA4117	2.0	6	2	29	9	< 1
SA4118	2.5	7	2	17	38	< 1
SA4119	3.0	7	1	50	27	< 1
SA4120	3.0	7	3	26	18	< 1
SA0901	1.5	12	3	12	11	< 1
SA0902	0.5	4	2	38	50	< 1
SA0903	3.5	9	8	13	21	< 1
SA0904	<0.5	4	< 1	44	65	< 1
SA0905	<0.5	2	2	28	19	< 1
SA0906	4.5	6	3	18	35	< 1
SA0907	1.0	2	< 1	33	38	< 1

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SIGNED : DSR

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I.C.A.P. ANALYSIS

CONBRIDGE LTD

REPORT No. : R1168
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File No. : R1168
Date : AUG-05-1992

2R-1168-SG11
PROJ.:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA4124	<0.5	2	2	21	16	< 1

SIGNED :

TSL/92

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I.C.A.P. ANALYSIS

CONBRIDGE TIMMINS

REPORT No. : H1168
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File No. : H1168
Date : AUG-05-1992

PROJ:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA4125/	2.5	9	4	26	58	< 1
SA4126/	0.5	3	< 1	8	51	< 1
SA4127/	< 2	< 4	< 4	4	160	< 4
SA4128/	<2.5	5	< 5	20	220	< 5
SA4129/	2	2	4	30	92	< 2
SA4130/	1.7	5.0	5.0	30	83	<1.7
SA4131/	<0.5	3	< 1	20	47	< 1
SA4132/	<0.5	2	< 1	19	48	< 1
SA4133/	1.8	5.3	<1.8	13	91	<1.8
SA4134/	0.5	2	2	11	51	< 1
SA4135/	1.0	2	2	13	53	< 1
SA4136/	1.5	2	5	23	53	< 1
SA4137/	1.4	5.4	<2.7	19	120	<2.7
SA4138/	0.5	5	2	31	100	< 1
SA4139/	0.8	4.8	3.2	9.6	80	<1.6
SA4140/	<0.5	2	2	7	49	< 1
SA4141/	<0.5	3	< 1	11	62	< 1
SA4141A	2.0	5	4	6	47	< 1
SA4144/	<0.5	5	2	37	110	< 1
SA4146/	<0.5	5	2	27	70	< 1
SA4147/	<0.5	3	2	33	59	< 1
SA4149/	<0.5	4	2	33	62	< 1
SA4150/	<0.5	3	< 1	17	47	< 1
SA4151/	0.5	4	1	27	69	< 1
SA4152/	<0.67	2.7	<1.3	17	91	<1.3
SA4153/	<0.58	3.5	3.5	15	80	<1.2
SA4154/	1.0	3	2	21	55	< 1
SA4155/	0.5	2	< 1	10	44	< 1
SA4156/	<0.5	3	1	13	60	< 1
SA4157/	<0.5	3	1	24	89	< 1
SA4157A	2.0	7	4	7	52	< 1
SA4158/	<0.5	4	1	10	57	< 1
SA4159/	1.0	5	2	9	62	< 1
SA4160/	0.5	5	3	10	61	< 1
SA4161/	<0.5	2	2	18	69	< 1

SIGNED :

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I.C.A.P. ANALYSIS

FALCONBRIDGE TIMMINS

REPORT No. : H1168
Page No. : 2 of 3
File No. : H1168
Date : AUG-05-1992

PROJ:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA4162	9.0	8	9	26	46	< 1
SA4163	8.5	8	9	18	47	< 1
SA4164	0.5	1	2	24	42	< 1
SA4165	9.0	7	9	22	46	< 1
SA4166	0.5	2	1	19	42	< 1
SA4167	<0.5	3	1	20	44	< 1
SA4168	<0.5	2	2	28	45	< 1
SA4169	<0.5	2	2	21	41	< 1
SA4170	<0.72	4.3	<1.4	42	73	<1.4
SA4171	<0.5	2	< 1	32	51	< 1
SA4172	1.3	3.9	2.6	42	70	<1.3
SA4173	<0.5	4	1	12	50	< 1
SA4174	0.5	2	< 1	18	50	< 1
SA4175	1.0	4	1	22	51	< 1
SA4176	<0.5	3	1	32	56	< 1
SA4177	<0.5	3	2	38	62	< 1
SA4178	0.5	3	2	29	73	< 1
SA4179	0.5	2	1	27	68	< 1
SA4180	0.5	2	1	21	49	< 1
SA4181	0.5	2	2	38	83	< 1
SA4182	0.5	1	2	34	79	< 1
SA4183	<0.5	2	2	37	140	< 1
SA4184	1.0	2	1	19	79	< 1
SA4185	<0.5	2	1	14	46	< 1
SA4186	<0.5	3	< 1	18	58	< 1
SA4187	<0.5	4	1	19	56	< 1
SA4188	<0.5	3	1	13	57	< 1
SA4189	<0.5	2	2	14	44	< 1
SA4190	<0.5	1	1	14	44	< 1
SA4191	<0.5	1	2	15	36	< 1
SA4192	1.0	8	3	65	21	< 1
SA4193	2.5	4	4	15	9	< 1
SA4194	4.0	6	6	30	19	2
SA4195	3.5	6	6	24	23	< 1
SA4196	2.5	5	5	40	33	< 1

SIGNED : M. Turcotte

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I.C.A.P. ANALYSIS

FALCONBRIDGE TIMMINS

REPORT No. : H1168
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Date : AUG-05-1992

PROJ:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA4197	3.0	6	6	51	53	< 1
SA4198	2.5	6	4	36	26	< 1
SA4199	2.0	7	5	61	22	< 1
SA4200	2.5	5	4	49	33	< 1

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780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
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I.C.A.P. ANALYSIS

F[illegible]ONBRIDGE TIMMINS
ATTN: D. McLAUGHLIN
2U-1157-201-4

REPORT No. : G1157
Page No. : 4 of 4
File No. : R1157
Date : AUG-26-1992

PROJ:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
A3124	3.0	3	< 1	6	8	< 1
A3125	1.5	5	< 1	16	14	< 1
A3126	<0.5	2	< 1	10	22	< 1
A3127	1.5	3	< 1	20	29	< 1
A3128	<0.5	2	< 1	9	22	< 1
A3129	1.0	7	3	34	18	< 1
A3130	0.5	5	1	61	21	< 1
A3131	1.5	5	2	38	13	< 1
A3132	<0.5	< 1	2	36	43	< 1
A3133	1.5	3	2	63	16	< 1
A3134	<0.5	5	4	41	31	< 1
A3135	<0.5	5	3	48	42	< 1
A3136	<0.5	1	< 1	10	28	< 1
A[illegible]9	11	< 1	< 1	5	38	< 1
A[illegible]0	4.0	6	2	7	26	< 1
A3145	1.0	8	1	7	15	< 1
A3247	<0.5	< 1	< 1	12	12	< 1
A3248	<0.5	5	2	22	42	< 1
A3249	<0.5	10	2	31	17	< 1
A3250	1.0	2	< 1	21	9	< 1
A3251	0.5	1	< 1	13	18	< 1
A3252	<0.5	< 1	< 1	< 1	3	< 1
A3253	<0.5	1	1	18	33	< 1
A3254	<0.5	3	< 1	48	46	< 1
A3255	0.5	5	< 1	96	26	< 1
A3256	<0.5	4	1	27	29	< 1
A3257	<0.5	3	< 1	14	15	< 1
A3258	<0.5	3	< 1	31	17	< 1
A3259	<0.5	5	< 1	17	19	< 1
A3260	<0.5	4	1	28	18	< 1
A3261	0.5	2	1	18	13	< 1
A3262	<0.5	2	< 1	30	21	< 1
A3263	<0.5	4	1	40	16	< 1

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I.C.A.P. ANALYSIS

FALCONBRIDGE TIMMINS
ATTN: D. McLAUGHLIN
2W-1110-SG1-4

REPORT No. : R1110
Page No. : 1 of 4
File No. : JY02Z
Date : JUL-08-1992

PROJ:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA0317	0.5	3	< 1	18	13	< 1
SA0318	1.0	3	< 1	23	14	< 1
SA0319	1.0	3	< 1	9	15	< 1
SA0320	5.5	1	1	28	18	< 1
SA0321	3.5	6	5	21	12	< 1
SA0322	3.5	9	4	22	20	< 1
SA0323	3.5	6	< 1	33	31	< 1
SA0324	8.0	5	1	100	44	< 1
SA0325	2.0	5	3	19	39	< 1
SA0326	8.5	9	5	24	47	< 1
SA0327	1.5	3	1	23	30	< 1
SA0328	1.5	4	1	15	35	< 1
SA0329	3.0	17	7	17	42	< 1
SA0330	2.0	6	< 1	32	40	< 1
SA0331	<0.5	2	< 1	15	39	< 1
SA0332	1.0	5	1	13	26	< 1
SA0333	0.5	3	< 1	37	46	< 1
SA0334	<0.5	3	< 1	12	29	< 1
SA0335	2.0	7	< 1	8	27	< 1
SA0336	1.0	5	< 1	5	25	< 1
SA0337	<0.5	4	1	16	30	< 1
SA0338	<0.5	< 1	< 1	9	28	< 1
SA0339	2.0	4	< 1	23	43	< 1
SA0340	2.5	4	< 1	28	39	< 1
SA0341	2.0	7	< 1	27	40	< 1
SA0342	2.0	8	3	19	48	< 1
SA0343	1.0	3	1	21	45	< 1
SA0346	2.0	6	3	21	59	< 1
SA0347	0.5	3	< 1	9	54	< 1
SA0348	<0.5	< 1	< 1	9	35	< 1
SA0349	<0.5	< 1	< 1	38	28	< 1
SA0350	<0.5	4	< 1	8	36	< 1
SA0351	<0.5	3	< 1	5	32	< 1
SA0352	<0.5	4	< 1	19	54	< 1
SA0352A	1.0	2	< 1	9	25	< 1

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I.C.A.P. ANALYSIS

FALCONBRIDGE TIMMINS
ATTN: D. McLAUGHLIN
2W-1110-SG1-4

PROJ:8198

REPORT No. : R1110
Page No. : 2 of 4
File No. : JY02Z
Date : JUL-08-1992

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA0353	1.5	2	< 1	15	38	< 1
SA0354	<0.5	2	< 1	21	39	< 1
SA0355	<0.5	2	< 1	38	73	< 1
SA0356	<0.5	2	< 1	15	52	< 1
SA0357	<0.5	< 1	< 1	14	48	< 1
SA0358	<0.5	3	< 1	29	120	< 1
SA0359	0.5	3	< 1	14	110	< 1
SA0360	1.5	3	< 1	19	42	< 1
SA0361	2.5	24	6	9	25	< 1
SA0362	<0.5	2	< 1	11	57	< 1
SA0363	3.5	5	< 1	43	78	< 1
SA0364	<0.5	2	< 1	15	31	< 1
SA0365	<0.5	2	< 1	8	25	< 1
SA0366	2.5	3	< 1	20	52	< 1
SA0371	2.5	8	6	75	89	< 1
SA0372	4.5	10	7	56	48	< 1
SA0373	6.0	9	10	20	20	< 1
SA0374	2.0	6	8	31	23	< 1
SA0375	3.0	5	8	20	17	< 1
SA0376	7.5	2	5	31	39	< 1
SA0377	11	4	6	27	67	< 1
SA0378	2.5	4	7	37	40	< 1
SA0379	<0.5	2	4	65	37	< 1
SA0380	1.0	4	3	20	30	< 1
SA0381	0.5	19	6	9	10	< 1
SA0382	<0.5	2	2	14	41	< 1
SA0383	<0.5	2	5	11	67	< 1
SA0384	<0.5	2	3	33	34	< 1
SA0385	0.5	3	4	45	110	< 1
SA0386	0.5	2	3	43	47	< 1
SA0387	<0.5	1	3	8	23	< 1
SA0388	4.0	6	7	17	56	< 1
SA0389	1.0	2	5	23	25	< 1
SA0390	<0.5	2	3	51	37	< 1
SA0391	0.5	4	6	37	36	< 1

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I.C.A.P. ANALYSIS

FALCONBRIDGE TIMMINS
ATTN: D. McLAUGHLIN
2W-1110-SG1-4

REPORT No. : R1110
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File No. : JY02Z
Date : JUL-08-1992

PROJ:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA0392	<0.5	2	4	42	43	< 1
SA0393	4.0	3	2	13	37	< 1
SA0394	2.5	2	2	15	27	< 1
SA0395	3.0	1	1	19	41	< 1
SA0396	3.0	2	1	7	30	< 1
SA0397	2.5	4	2	17	31	< 1
SA0398	4.0	2	< 1	12	32	< 1
SA0399	1.5	< 1	< 1	3	30	< 1
SA0400	1.5	< 1	< 1	3	24	< 1
SA0713	<0.5	< 1	< 1	6	60	< 1
SA0714	<0.5	3	1	11	54	< 1
SA0715	<0.5	1	< 1	6	30	< 1
SA0716	<0.5	< 1	< 1	3	50	< 1
SA0717	0.5	2	2	14	59	< 1
SA0718	0.5	< 1	< 1	25	50	< 1
SA0719	<0.5	1	< 1	23	61	< 1
SA0720	2.5	2	< 1	19	33	< 1
SA0721	<0.5	< 1	1	14	21	< 1
SA0722	<0.5	1	1	6	4	< 1
SA0723	2.0	3	3	2	9	< 1
SA0724	1.0	1	2	6	22	< 1
SA0725	3.0	< 1	3	30	24	< 1
SA0726	1.5	1	1	14	29	< 1
SA0727	2.0	4	2	16	29	< 1
SA0728	<0.5	< 1	1	8	30	< 1
SA0729	0.5	1	< 1	4	34	< 1
SA0730	<0.5	1	< 1	16	29	< 1
SA0731	0.5	1	1	6	37	< 1
SA0732	2.5	2	1	30	51	< 1
SA0733	<0.5	< 1	1	15	38	< 1
SA0734	1.0	2	1	17	45	< 1
SA0735	1.0	1	< 1	21	28	< 1
SA0736	6.0	1	1	47	58	< 1
SA0737	1.0	1	1	11	31	< 1
SA0738	1.5	1	2	15	34	< 1

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I.C.A.P. ANALYSIS

FALCONBRIDGE TIMMINS
ATTN: D. McLAUGHLIN
2W-1110-SG1-4

REPORT No. : R1110
Page No. : 4 of 4
File No. : JY02Z
Date : JUL-08-1992

PROJ:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA0739	1.0	1	2	15	24	< 1
SA0740	14	3	2	70	65	< 1
SA0741	1.5	3	2	16	25	< 1
SA0742	1.5	3	2	27	30	< 1
SA0743	0.5	3	1	21	33	< 1
SA0744	7.0	2	2	32	39	< 1
SA0745	5.5	2	2	34	41	< 1
SA0746	5.0	3	1	33	38	< 1
SA0747	6.0	4	2	24	30	< 1
SA0748	3.0	4	3	11	31	< 1
SA0748A	1.5	7	4	5	15	< 1
SA0749	<0.5	2	1	26	32	< 1

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I.C.A.P. ANALYSIS

E ONBRIDGE TIMMINS
ATTN: D. McLAUGHLIN
2R-1110-SG4-15

REPORT No. : H1110
Page No. : 1 of 9
File No. : R1110
Date : JUL-10-1992

PROJ:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
A0750	<0.5	2	1	26	58	< 1
A0751	<0.5	< 1	1	7	20	< 1
A0752	<0.5	< 1	1	19	39	< 1
A0753	0.5	1	1	18	31	< 1
A0754	<0.5	1	1	32	70	< 1
A0755	<0.5	< 1	< 1	12	55	< 1
A0756	0.5	< 1	1	23	51	< 1
A0757	<0.5	4	< 1	33	48	< 1
A0758	<0.5	2	< 1	7	16	< 1
A0759	<0.5	1	< 1	21	38	< 1
A0760	<0.5	2	< 1	31	60	< 1
A0761	<0.5	2	1	26	55	< 1
A0762	1.5	11	3	7	37	< 1
A0763	0.5	7	3	8	31	< 1
64	<0.5	3	< 1	10	40	< 1
A0765	<0.5	2	1	8	67	< 1
A0766	<0.5	< 1	< 1	6	47	< 1
A0767	1.0	5	2	23	38	< 1
A0768	<0.5	4	2	39	46	< 1
A0769	<0.5	1	< 1	11	17	< 1
A0770	<0.5	< 1	1	6	2	< 1
A0771	1.0	8	1	26	47	< 1
A0772	<0.5	< 1	< 1	10	33	< 1
A0773	2.5	4	3	3	79	< 1
A0774	7.5	3	3	12	67	< 1
A0775	4.0	4	3	28	60	< 1
A0776	3.0	5	3	20	64	< 1
A0777	8.5	2	2	29	50	< 1
A0778	3.0	4	4	16	38	< 1
A0779	1.0	2	3	12	13	< 1
A0780	3.0	5	10	< 1	20	< 1
A0781	2.5	< 1	3	5	17	< 1
A0782	1.5	2	4	8	27	< 1
A0783	1.0	4	6	16	47	< 1
A0784	1.0	2	1	7	12	< 1

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I.C.A.P. ANALYSIS

CONBRIDGE TIMMINS
ATTN: D. McLAUGHLIN
ZR-1110-SG4-15

REPORT No. : H1110
Page No. : 2 of 9
File No. : R1110
Date : JUL-10-1992

PROJ:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA0785	0.5	1	2	18	45	< 1
SA0786	0.5	2	4	15	23	< 1
SA0787	<0.5	1	2	5	14	< 1
SA0789	<0.5	3	2	10	22	< 1
SA0789A	2.0	22	5	1	14	< 1
SA0790	4.5	5	2	12	29	< 1
SA0791	1.5	4	2	10	26	< 1
SA0792	1.0	4	< 1	13	33	< 1
SA0793	<0.5	3	< 1	12	29	< 1
SA0794	2.0	4	2	11	35	< 1
SA0795	3.5	3	2	13	37	< 1
SA0796	<0.5	2	2	12	25	< 1
SA0797	<0.5	4	2	12	14	< 1
SA0798	2.0	4	2	13	20	< 1
S[illegible]00	5.0	7	2	11	15	< 1
SA0805	3.0	2	< 1	7	27	< 1
SA0806	1.0	2	2	6	20	< 1
SA0807	2.0	4	3	8	17	< 1
SA0808	3.0	2	2	13	25	< 1
SA0809	<0.5	2	2	4	10	< 1
SA0810	0.5	2	< 1	18	20	< 1
SA0811	2.5	< 1	1	3	24	< 1
SA0812	<0.5	1	< 1	3	33	< 1
SA0813	5.0	7	2	9	28	< 1
SA0814	7.5	4	3	25	47	< 1
SA0815	1.0	2	2	2	32	< 1
SA0816	2.5	2	3	10	35	< 1
SA0817	5.0	3	5	8	150	< 1
SA0818	7.5	2	9	10	120	< 1
SA0819	6.5	4	5	16	83	< 1
SA0820	7.0	7	6	13	78	< 1
SA0821	12	7	7	20	92	< 1
SA0822	3.5	7	4	12	44	< 1
SA0837	3.0	3	4	30	34	< 1
SA0837A	2.0	6	4	4	16	< 1

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I.C.A.P. ANALYSIS

CONBRIDGE TIMMINS
ATTN: D. McLAUGHLIN
2R-1110-SG4-15

REPORT No. : H1110
Page No. : 3 of 9
File No. : R1110
Date : JUL-10-1992

PROJ:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA0838	<0.5	3	< 1	15	14	< 1
SA0839	1.0	2	2	15	49	< 1
SA0840	<0.5	4	2	27	28	< 1
SA0841	<0.5	4	2	19	26	< 1
SA0842	0.5	3	< 1	9	39	< 1
SA0843	1.5	4	2	10	32	< 1
SA0844	1.5	3	< 1	10	29	< 1
SA0845	2.0	6	3	21	23	< 1
SA0846	1.5	6	3	9	25	< 1
SA0847	2.0	5	3	18	16	< 1
SA0848	1.5	5	4	10	14	< 1
SA0849	1.0	4	2	13	14	< 1
SA0850	1.0	6	3	10	15	< 1
SA0851	1.5	8	3	7	8	< 1
SA0852	2.0	7	4	8	17	< 1
SA0853	2.0	3	2	< 1	5	< 1
SA0854	1.5	< 1	3	6	4	< 1
SA0855	1.0	4	1	6	5	< 1
SA0856	1.0	3	1	18	11	< 1
SA0857	0.5	4	1	22	28	< 1
SA0858	<0.5	2	< 1	8	23	< 1
SA0859	0.5	4	< 1	25	43	< 1
SA0860	<0.5	3	1	18	34	< 1
SA0861	5.0	5	2	18	100	< 1
SA0862	1.5	2	1	< 1	18	< 1
SA0863	2.5	6	1	9	75	< 1
SA0864	2.0	4	3	15	24	< 1
SA0865	<0.5	2	< 1	2	37	< 1
SA0866	<0.5	< 1	2	4	41	< 1
SA0867	<0.5	5	1	4	33	< 1
SA0868	2.0	4	1	10	65	< 1
SA0869	0.5	2	< 1	21	45	< 1
SA0870	1.0	5	2	15	59	< 1
SA0871	1.5	15	2	9	47	< 1
SA0872	<0.5	7	< 1	< 1	28	< 1

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I.C.A.P. ANALYSIS

CONBRIDGE TIMMINS
ATTN: D. McLAUGHLIN
2R-1110-SG4-15

REPORT No. : H1110
Page No. : 4 of 9
File No. : R1110
Date : JUL-10-1992

PROJ:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA0873	1.5	8	4	3	53	< 1
SA0874	0.5	4	2	58	43	< 1
SA0875	1.0	4	2	10	47	< 1
SA0876	<0.5	< 1	1	19	53	< 1
SA0877	<0.5	2	1	4	63	< 1
SA0878	1.0	6	2	9	66	< 1
SA0879	6.0	24	9	7	61	< 1
SA0880	0.5	4	3	11	48	< 1
SA0881	3.0	10	6	11	40	< 1
SA0882	1.0	4	< 1	29	34	< 1
SA0883	2.5	6	3	18	44	< 1
SA0884	5.5	5	3	23	37	< 1
SA0885	0.5	2	2	4	28	< 1
SA0886	0.5	3	2	18	46	< 1
SA0887	<0.5	2	1	13	30	< 1
SA0888	<0.5	5	2	12	31	< 1
SA0889	1.0	4	4	6	30	< 1
SA0890	<0.5	3	< 1	22	37	< 1
SA0891	2.0	4	2	12	26	< 1
SA0892	1.0	6	3	10	27	< 1
SA0893	<0.5	1	< 1	10	29	< 1
SA0894	<0.5	13	7	10	31	< 1
SA0895	1.0	10	5	14	27	< 1
SA0896	1.5	8	7	11	37	< 1
SA0897	<0.5	2	1	8	10	< 1
SA0898	<0.5	3	2	14	12	< 1
SA0899	1.0	2	1	5	9	< 1
SA0900	0.5	3	2	35	25	< 1
SA0909	<0.5	4	2	45	44	< 1
SA0910	0.5	2	1	15	34	< 1
SA0911	<0.5	2	< 1	15	21	< 1
SA0912	<0.5	< 1	< 1	13	21	< 1
SA0913	1.0	4	2	9	9	< 1
SA0914	1.0	4	2	29	19	< 1
SA0915	<0.5	2	< 1	14	29	< 1

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I.C.A.P. ANALYSIS

CONBRIDGE TIMMINS

ATTN: D. McLAUGHLIN

2R-1110-SG4-15

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File No. : R1110

Date : JUL-10-1992

PROJ:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA0916	<0.5	2	1	24	35	< 1
SA0917	<0.5	1	< 1	18	48	< 1
SA0918	2.0	< 1	< 1	9	15	< 1
SA0919	0.5	6	1	12	37	< 1
SA0920	1.0	2	2	13	35	< 1
SA0921	<0.5	1	< 1	16	37	< 1
SA0922	0.5	2	< 1	14	19	< 1
SA0923	1.0	5	2	13	23	< 1
SA0924	1.0	3	< 1	15	39	< 1
SA0925	2.5	5	3	28	46	< 1
SA0926	<0.5	2	1	20	37	< 1
SA0927	1.5	3	1	21	38	< 1
SA0928	2.5	10	2	19	37	< 1
SA0929	2.0	5	4	28	21	< 1
SA0930	1.5	5	2	14	14	< 1
SA0931	2.5	5	5	22	38	< 1
SA0932	6.5	3	4	77	74	< 1
SA0933	<0.5	3	1	16	16	< 1
SA0934	<0.5	3	2	18	18	< 1
SA0935	3.0	6	4	15	18	< 1
SA0936	<0.5	3	2	46	69	< 1
SA0938	2.5	3	1	17	21	< 1
SA0939	2.0	4	3	21	15	< 1
SA0940	<0.5	2	2	16	22	< 1
SA0942	<0.5	4	2	29	11	< 1
SA0943	<0.5	3	2	37	27	< 1
SA0944	<0.5	4	1	39	26	< 1
SA0945	1.0	4	1	43	33	< 1
SA0947	<0.5	3	< 1	18	69	< 1
SA0948	<0.5	3	< 1	14	21	< 1
SA0949	0.5	4	1	28	29	< 1
SA0950	0.5	5	3	25	21	< 1
SA0951	<0.5	2	< 1	11	8	< 1
SA0952	1.5	4	2	29	43	< 1
SA0953	0.5	2	2	19	10	< 1

SIGNED : JSR

TSL/92

Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

I.C.A.P. ANALYSIS

CONBRIDGE LTD

REPORT No. : R1168
Page No. : 1 of 7
File No. : R1168
Date : AUG-05-1992

2R-1168-SG11
PROJ.:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA823	4.5	8	3	12	31	< 1
SA824	6.0	10	11	8	53	< 1
SA824A	3.0	8	5	1	16	< 1
SA825	16.0	14	4	14	137	< 1
SA826	7.5	11	7	7	144	< 1
SA827	3.0	5	2	10	45	< 1
SA828	2.0	4	1	16	87	< 1
SA829	1.0	< 1	< 1	19	68	< 1
SA830	1.5	4	1	23	73	< 1
SA831	5.5	3	2	18	84	< 1
SA832	7.5	4	2	26	178	< 1
SA833	2.5	1	< 1	10	15	< 1
SA834	2.0	3	< 1	18	30	< 1
SA835	0.5	4	2	22	31	< 1
SA836	<0.5	3	< 1	14	25	< 1
SA961	1.0	1	< 1	9	36	< 1
SA962	1.5	< 1	< 1	10	43	< 1
SA963	<0.5	1	1	21	36	< 1
SA964	8.0	3	1	23	4(	< 1
SA965	3.5	4	2	11	45	< 1
SA966	10.0	3	3	20	48	< 1
SA967	0.5	4	< 1	12	48	< 1
SA968	1.5	7	3	10	54	< 1
SA969	1.5	6	< 1	24	30	< 1
SA970	0.5	3	< 1	24	62	< 1
SA971	0.5	< 1	< 1	15	33	< 1
SA972	1.0	4	1	29	31	< 1
SA973	9.0	8	7	14	46	< 1
SA974	1.5	4	1	13	23	< 1
SA975	2.0	6	2	14	13	< 1
SA976	9.0	8	5	22	28	< 1
SA977	2.0	6	3	25	26	< 1
SA978	0.5	2	< 1	16	8	< 1
SA979	<0.5	4	2	44	39	< 1
SA980	0.5	3	3	49	46	< 1

SIGNED :

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Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

I.C.A.P. ANALYSIS

CONBRIDGE LTD

REPORT No. : R1168
Page No. : 2 of 7
File No. : R1168
Date : AUG-05-1992

2R-1168-SG11
PROJ.:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA981	1.5	2	< 1	35	84	< 1
SA982	4.5	6	5	42	93	< 1
SA983	2.5	4	2	21	46	< 1
SA984	2.0	4	3	41	55	< 1
SA985	0.5	3	3	40	42	< 1
SA987	1.0	1	1	27	38	< 1
SA988	1.0	2	2	19	72	< 1
SA989	0.5	3	2	59	41	< 1
SA991	1.5	11	3	21	25	< 1
SA992	2.5	6	4	24	24	< 1
SA993	0.5	1	2	19	14	< 1
SA994	2.5	8	7	12	19	< 1
SA3005	2.0	2	3	67	52	< 1
SA3006	1.0	3	< 1	47	32	< 1
S[illegible]08	1.5	2	2	26	14	< 1
SA3009	0.5	2	< 1	16	11	< 1
SA3010	0.5	2	2	16	10	< 1
SA3011	0.5	3	1	28	31	< 1
SA3012	<0.5	3	3	43	33	< 1
SA3013	1.0	2	1	25	29	< 1
SA3014	1.0	3	< 1	19	20	< 1
SA3015	1.0	2	3	13	30	< 1
SA3016	<0.5	2	1	38	38	< 1
SA3017	<0.5	3	< 1	40	17	< 1
SA3018	1.0	3	1	46	51	< 1
SA3019	1.0	2	< 1	23	22	< 1
SA3020	1.0	3	< 1	41	47	< 1
SA3023	1.0	4	3	51	46	< 1
SA3024	1.0	2	2	21	17	< 1
SA3025	<0.5	4	1	26	11	< 1
SA3026	0.5	2	< 1	23	21	< 1
SA3027	1.0	3	< 1	9	14	< 1
SA3028	2.0	4	4	10	67	< 1
SA3029	1.0	4	2	44	91	< 1
SA3030	1.0	4	1	51	40	< 1

SIGNED :

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I.C.A.P. ANALYSIS

CONBRIDGE LTD

REPORT No. : R1168

File No. : R1168
Date : AUG-05-1992

2R-1168-SG11
PROJ.:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA3031	1.0	4	2	17	51	< 1
SA3031A	3.5	6	7	6	25	< 1
SA3104	4.5	7	6	13	27	< 1
SA3105	7.5	11	5	10	54	< 1
SA3106	6.5	6	3	10	38	< 1
SA3107	1.5	3	2	14	35	< 1
SA3108	<0.5	1	2	6	36	< 1
SA3109	1.5	4	< 1	5	28	< 1
SA3110	1.5	2	< 1	8	26	< 1
SA3111	0.5	< 1	2	4	16	< 1
SA3112	<0.5	< 1	2	5	15	< 1
SA3205	1.5	4	1	29	24	< 1
SA3206	4.5	8	6	19	33	< 1
SA3207	6.5	7	4	39	62	< 1
S[illegible]08	1.0	6	3	20	39	< 1
SA3209	3.5	4	< 1	16	24	< 1
SA3210	<0.5	3	1	6	14	< 1
SA3211	1.0	6	3	19	17	< 1
SA3212	1.0	4	3	14	11	< 1
SA3213	<0.5	8	2	9	6	< 1
SA3214	2.0	4	2	21	18	< 1
SA3215	1.0	2	4	10	6	< 1
SA3216	1.5	4	< 1	5	10	< 1
SA3217	3.5	13	7	6	18	< 1
SA3218	1.5	< 1	1	24	42	< 1
SA3219	1.5	< 1	< 1	26	58	< 1
SA3220	2.5	1	< 1	25	54	< 1
SA3221	0.5	< 1	< 1	12	22	1
SA3222	0.5	3	< 1	15	15	< 1
SA3223	1.5	< 1	1	20	43	< 1
SA3224	9.0	10	8	39	62	< 1
SA3225	3.5	11	6	28	58	< 1
SA3226	9.5	4	6	27	113	< 1
SA3227	9.5	3	8	24	106	< 1
SA3228	1.0	< 1	< 1	4	12	< 1

SIGNED : ____________

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PHONE #: 819-797-4653 FAX #: 819-797-4501

I.C.A.P. ANALYSIS

CONBRIDGE TIMMINS
ATTN: D. McLAUGHLIN
2R-1157-SG1-4

REPORT No. : R1157
Page No. : 1 of 4
File No. : R1157
Date : JUL-12-1992

PROJ:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA03141	2.0	7	< 1	9	31	< 1
SA03142	3.0	6	2	9	18	< 1
SA03143	<0.5	3	1	12	16	< 1
SA03144	2.0	5	3	26	26	< 1
SA03146	1.0	< 1	< 1	16	11	< 1
SA03147	1.5	3	< 1	4	66	< 1
SA03148	4.0	2	< 1	5	21	< 1
SA03149	2.0	5	2	2	21	< 1
SA03150	7.5	6	8	< 1	59	< 1
SA03151	1.5	4	< 1	5	17	< 1
SA03152	2.5	7	2	4	12	< 1
SA03153	0.5	6	2	5	4	< 1
SA03539	<0.5	3	1	24	14	< 1
SA03540	1.0	3	< 1	32	10	< 1
SA03541	0.5	2	< 1	46	23	< 1
SA03542	1.0	2	1	22	26	< 1
SA03543	0.5	4	3	43	54	< 1
SA03544	22	4	< 1	73	45	< 1
SA03545	6.0	2	1	20	22	< 1
SA03546	2.0	3	1	14	10	< 1
SA03547	22	6	2	71	40	< 1
SA03548	2.5	4	2	37	11	< 1
SA03549	20	9	3	25	30	< 1
SA3032	3.0	5	2	51	25	< 1
SA3033	1.0	3	1	28	9	< 1
* should be SA3034						
SA3034	1.0	2	1	38	34	< 1
SA3035	1.5	5	2	44	44	< 1
SA3036	1.0	< 1	< 1	54	44	< 1
SA3037	1.0	5	3	47	44	< 1
SA3038	2.0	3	3	26	6	< 1
SA3039	1.0	3	2	29	23	< 1
SA3040	1.0	7	3	33	24	< 1
SA3041	0.5	5	< 1	17	24	< 1
SA3042	<0.5	1	< 1	16	6	< 1
SA3043	1.5	4	2	39	16	< 1

SIGNED :

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Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

I.C.A.P. ANALYSIS

CONBRIDGE TIMMINS
ATTN: D. McLAUGHLIN
2R-1157-SG1-4

REPORT No. : R1157
Page No. : 2 of 4
File No. : R1157
Date : JUL-12-1992

PROJ:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA3044	<0.5	4	< 1	47	27	< 1
SA3045	1.0	4	1	23	39	< 1
SA3046	0.5	5	1	23	19	< 1
SA3047	<0.5	5	6	41	47	< 1
SA3048	1.0	2	3	33	28	< 1
SA3049	1.0	11	6	50	43	< 1
SA3050	<0.5	3	2	28	26	< 1
SA3051	0.5	7	3	28	26	< 1
SA3052	1.5	3	2	48	10	< 1
SA3053	<0.5	3	3	15	13	< 1
SA3054	<0.5	5	2	30	23	< 1
SA3055	1.5	3	1	21	13	< 1
SA3056	<0.5	3	4	41	22	< 1
SA3057	<0.5	2	6	16	15	< 1
SA3058	<0.5	4	6	10	16	< 1
SA3059	<0.5	1	3	20	8	< 1
SA3060	<0.5	2	2	18	18	< 1
SA3061	1.0	2	3	30	19	< 1
SA3062	1.0	1	3	22	9	< 1
SA3063	0.5	3	< 1	22	7	< 1
SA3064	0.5	5	7	31	19	< 1
SA3065	<0.5	1	5	25	21	< 1
SA3066	0.5	2	4	24	19	< 1
SA3067	0.5	2	4	17	13	< 1
SA3068	<0.5	2	5	37	29	< 1
SA3069	<0.5	1	5	26	30	< 1
SA3070	0.5	< 1	< 1	31	40	< 1
SA3071	<0.5	2	1	13	27	< 1
SA3072	<0.5	3	2	32	55	< 1
SA3073	1.0	2	2	56	25	< 1
SA3074	<0.5	4	4	32	11	< 1
SA3075	0.5	2	< 1	39	38	< 1
SA3076	<0.5	4	3	26	11	< 1
SA3077	1.0	4	4	38	73	< 1
SA3077A	3.5	7	6	10	24	< 1

SIGNED :

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Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

I.C.A.P. ANALYSIS

CONBRIDGE TIMMINS
ATTN: D. McLAUGHLIN
2R-1157-SG1-4

REPORT No. : R1157
Page No. : 3 of 4
File No. : R1157
Date : JUL-12-1992

PROJ:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA3078	1.0	3	3	29	11	< 1
SA3079	1.0	< 1	< 1	16	18	< 1
SA3080	<0.5	3	< 1	20	33	< 1
SA3081	0.5	4	3	31	33	< 1
SA3082	1.0	2	1	33	49	< 1
SA3083	0.5	2	2	42	43	< 1
SA3084	<0.5	2	1	28	13	< 1
SA3085	0.5	1	< 1	33	43	< 1
SA3086	0.5	3	< 1	28	18	< 1
SA3087	<0.5	2	3	36	31	< 1
SA3088	<0.5	2	< 1	54	25	< 1
SA3089	<0.5	< 1	3	23	14	< 1
SA3090	<0.5	2	< 1	29	16	< 1
SA3091	<0.5	4	3	38	19	< 1
SA3092	1.5	2	2	53	24	< 1
SA3093	<0.5	< 1	< 1	19	11	< 1
SA3094	0.5	4	4	51	22	< 1
SA3095	1.0	< 1	< 1	24	9	< 1
SA3096	<0.5	2	2	40	12	< 1
SA3097	0.5	4	3	20	13	< 1
SA3098	<0.5	5	1	30	23	< 1
SA3099	0.5	6	3	51	24	< 1
SA3100	<0.5	2	< 1	34	8	< 1
SA3101	1.0	< 1	< 1	49	12	< 1
SA3102	<0.5	< 1	1	26	6	< 1
SA3103	1.5	< 1	1	44	22	< 1
SA3113	<0.5	< 1	< 1	16	13	< 1
SA3114	0.5	3	1	25	24	< 1
SA3115	1.0	10	3	23	15	< 1
SA3116	2.0	< 1	1	10	27	< 1
SA3117	0.5	2	< 1	27	24	< 1
SA3118	<0.5	3	2	14	14	< 1
SA3119	<0.5	6	2	17	26	< 1
SA3120	<0.5	1	< 1	40	34	< 1
SA3123	0.5	1	< 1	9	6	< 1

SIGNED :

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Laboratoires TSL/ASSAYERS Laboratories
780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6
PHONE #: 819-797-4653 FAX #: 819-797-4501

I.C.A.P. ANALYSIS

CONBRIDGE TIMMINS
ATTN: D. McLAUGHLIN
ZR-1157-SG1-4

REPORT No. : R1157
Page No. : 4 of 4
File No. : R1157
Date : JUL-12-1992

PROJ:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA3124	3.0	3	< 1	6	8	< 1
SA3125	1.5	5	< 1	16	14	< 1
SA3126	<0.5	2	< 1	10	22	< 1
SA3127	1.5	3	< 1	20	29	< 1
SA3128	<0.5	2	< 1	9	22	< 1
SA3129	1.0	7	3	34	18	< 1
SA3130	0.5	5	1	61	21	< 1
SA3131	1.5	5	2	38	13	< 1
SA3132	<0.5	< 1	2	36	43	< 1
SA3133	1.5	3	2	63	16	< 1
SA3134	<0.5	5	4	41	31	< 1
SA3135	<0.5	5	3	48	42	< 1
SA3136	<0.5	1	< 1	10	28	< 1
SA3139	11	< 1	< 1	5	38	< 1
SA3140	4.0	6	2	7	26	< 1
SA3145	1.0	8	1	7	15	< 1
SA3147	<0.5	< 1	< 1	12	12	< 1
SA3148	<0.5	5	2	22	42	< 1
SA3149	<0.5	10	2	31	17	< 1
SA3150	1.0	2	< 1	21	9	< 1
SA3151	0.5	1	< 1	13	18	< 1
SA3152	<0.5	< 1	< 1	< 1	3	< 1
SA3153	<0.5	1	1	18	33	< 1
SA3154	<0.5	3	< 1	48	46	< 1
SA3155	0.5	5	< 1	96	26	< 1
SA3156	<0.5	4	1	27	29	< 1
SA3157	<0.5	3	< 1	14	15	< 1
SA3158	<0.5	3	< 1	31	17	< 1
SA3159	<0.5	5	< 1	17	19	< 1
SA3160	<0.5	4	1	28	18	< 1
SA3161	0.5	2	1	18	13	< 1
SA3162	<0.5	2	< 1	30	21	< 1
SA3163	<0.5	4	1	40	16	< 1

SIGNED :

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Laboratoires TSL/ASSAYERS Laboratories

780 AV. DU CUIVRE C.P. 665 ROUYN-NORANDA QUEBEC J9X 5C6

PHONE #: 819-797-4653 FAX #: 819-797-4501

I.C.A.P. ANALYSIS

CONBRIDGE LTD

REPORT No. : R1168
Page No. : 4 of 7
File No. : R1168
Date : AUG-05-1992

2R-1168-SG11
PROJ.:8198

ALL RESULTS PPM

SAMPLE #	Co ppm	Cu ppm	Ni ppm	Pb ppm	Zn ppm	Ag ppm
SA3229	15.5	1	2	17	40	1
SA3230	11.0	3	2	27	46	< 1
SA3231	7.0	2	2	23	41	< 1
SA3232	3.5	2	2	14	33	< 1
SA3233	14.0	< 1	4	25	54	< 1
SA3234	1.0	1	2	22	30	< 1
SA3235	<0.5	2	2	14	15	< 1
SA3236	3.5	1	1	19	63	< 1
SA3237	<0.5	2	< 1	15	53	< 1
SA3238	2.5	4	3	9	43	< 1
SA3239	2.5	5	3	15	34	< 1
SA3240	<0.5	2	1	19	38	< 1
SA3241	1.0	2	1	17	27	< 1
SA3242	<0.5	< 1	< 1	2	7	< 1
SA3243	<0.5	< 1	2	2	27	< 1
SA3244	1.0	2	< 1	14	33	< 1
SA3245	<0.5	< 1	2	9	33	< 1
SA3271	1.5	4	2	8	21	< 1
SA3272	1.0	7	3	14	27	< 1
SA3273	1.0	10	3	9	10	< 1
SA3274	1.0	10	4	9	6	< 1
SA3275	1.0	4	2	15	9	< 1
SA3283	0.5	2	2	3	7	< 1
SA3284	<0.5	2	< 1	4	40	< 1
SA3285	<0.5	< 1	1	3	12	< 1
SA3286	<0.5	< 1	< 1	7	7	< 1
SA3287	<0.5	< 1	< 1	10	40	< 1
SA3288	<0.5	2	1	7	5	< 1
SA3289	1.0	4	3	6	2	< 1
SA3290	1.5	< 1	3	7	4	< 1
SA3291	0.5	1	2	18	7	< 1
SA3292	2.0	5	4	10	6	< 1
SA3293	1.5	2	2	13	38	< 1
SA3294	0.5	2	2	12	21	< 1
SA3295	8.5	2	3	36	62	< 1

SIGNED : M Lavoie

TSL/92

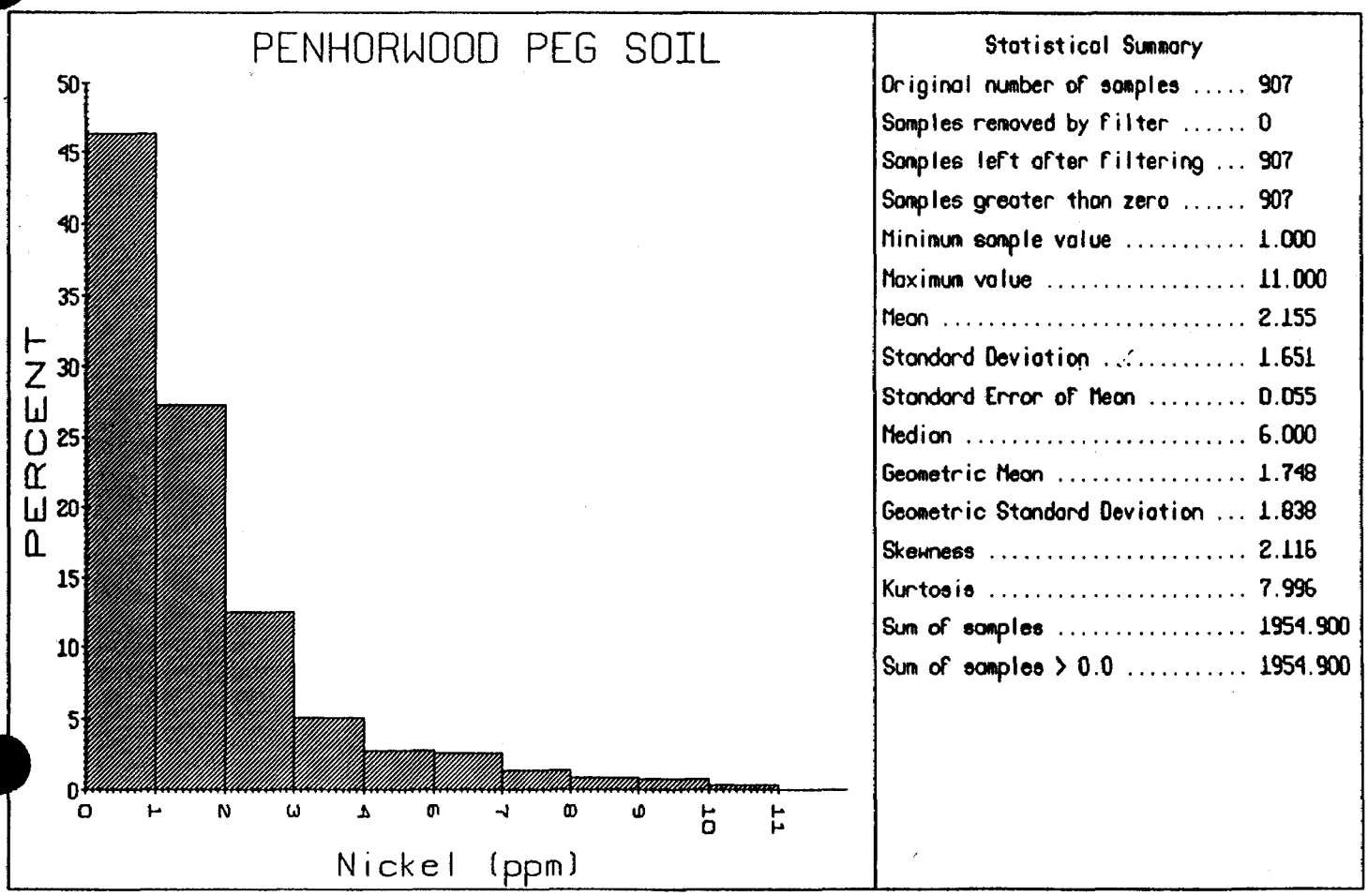
APPENDIX B

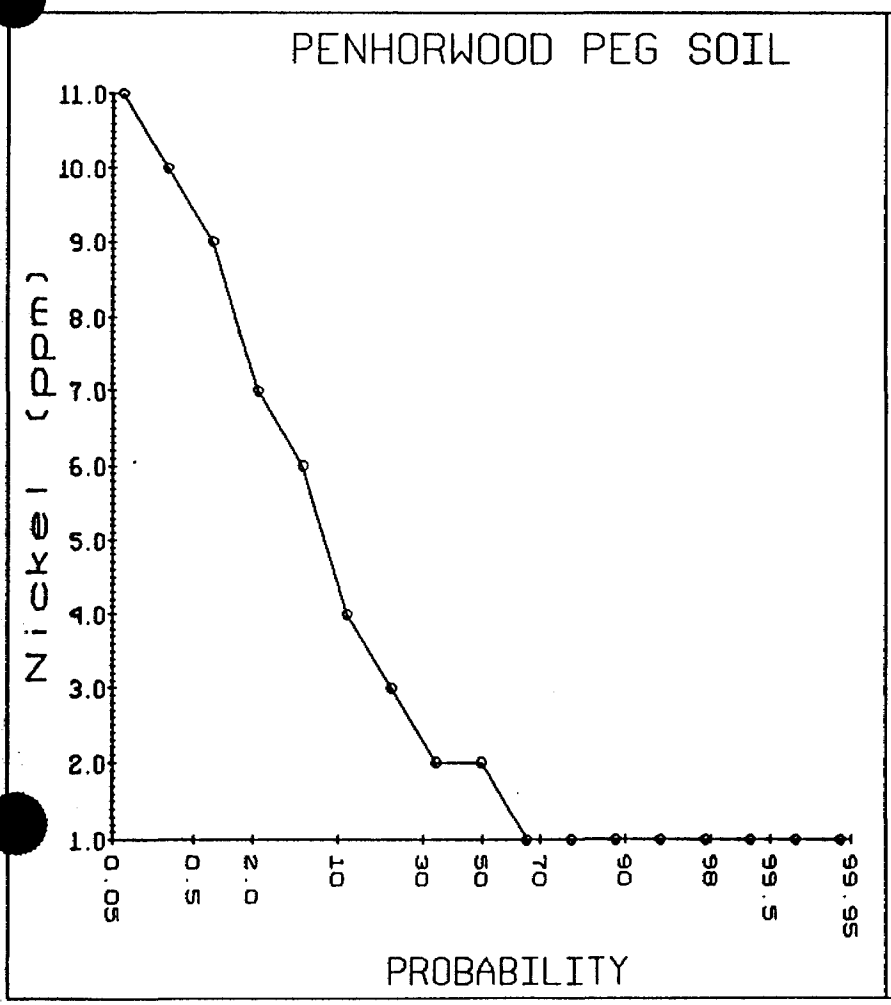
STATISTICAL ANALYZES

NICKEL (ppm) IN PENHORWOOD PEG SOIL

Original number of samples	907
Number of samples removed by user-defined filter	0
Number of samples left after filtering	907
Number of samples greater than zero	907
Minimum sample value	1.000000
Maximum value	11.000000
Mean	2.155347
Standard Deviation	1.650534
Standard Error of Mean	0.054805
Median	6.000000
Mode	Not Calculated
Geometric Mean *	1.747549
Geometric Standard Deviation *	1.838144
Skewness	2.116001
Kurtosis	7.996214
Sum of samples	1954.900000
Sum of samples greater than zero	1954.900000

* Based on samples greater than zero.



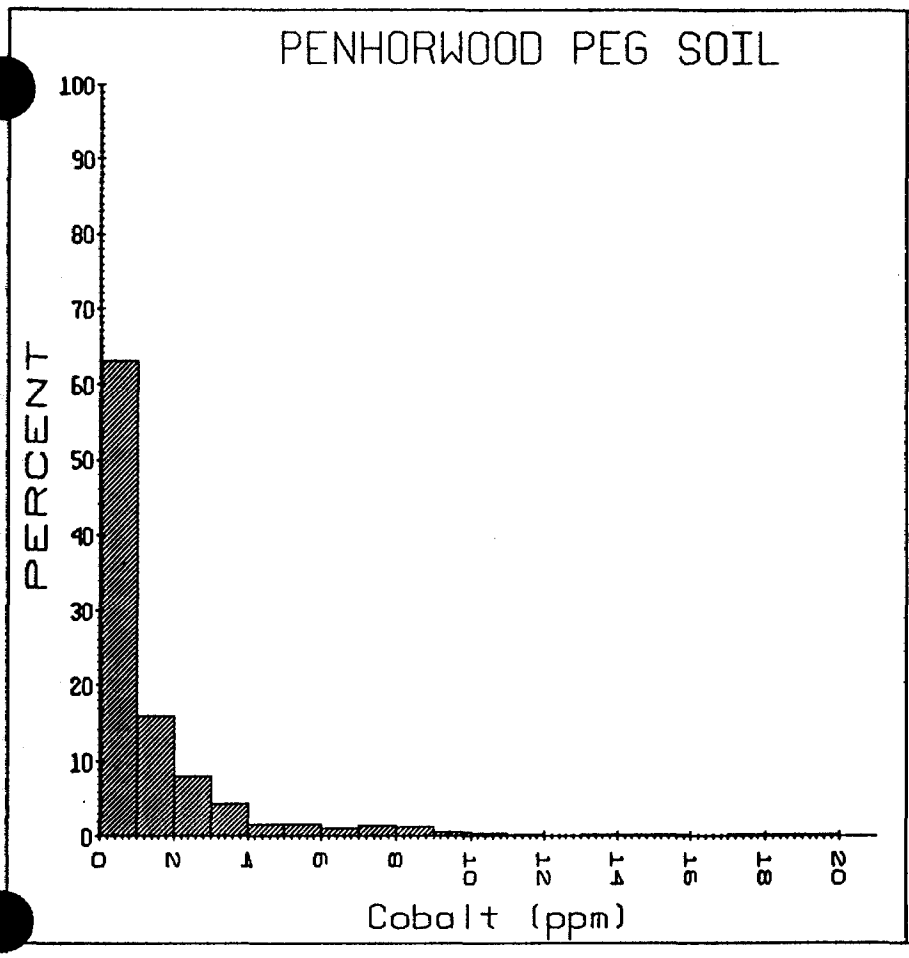


Statistical Summary	
Original number of samples	907
Samples removed by filter	0
Samples left after filtering	907
Samples greater than zero	907
Minimum sample value	1.000
Maximum value	11.000
Mean	2.155
Standard Deviation	1.651
Standard Error of Mean	0.055
Median	6.000
Geometric Mean	1.748
Geometric Standard Deviation	1.838
Skewness	2.116
Kurtosis	7.996
Sum of samples	1954.900
Sum of samples > 0.0	1954.900

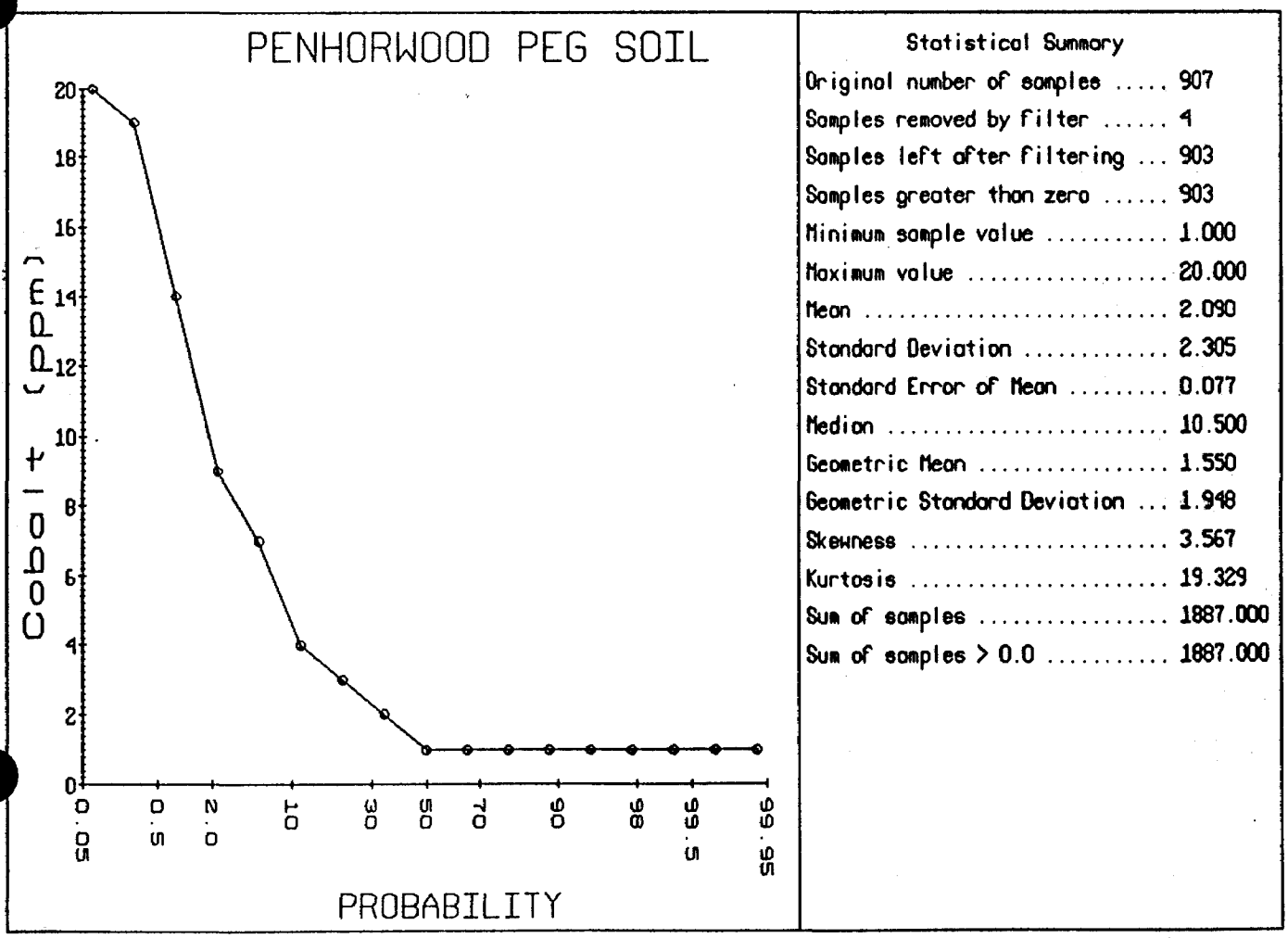
COBALT (PPM) IN PENHORWOOD HUMUS SOIL

Original number of samples	907
Number of samples removed by user-defined filter	0
Number of samples left after filtering	907
Number of samples greater than zero	907
Minimum sample value	1.000000
Maximum value	31.000000
Mean	2.196251
Standard Deviation	2.817297
Standard Error of Mean	0.093547
Median	16.000000
Mode	Not Calculated
Geometric Mean *	1.569655
Geometric Standard Deviation *	1.996085
Skewness	4.877416
Kurtosis	36.258500
Sum of samples	1992.000000
Sum of samples greater than zero	1992.000000

* Based on samples greater than zero.



Statistical Summary	
Original number of samples	907
Samples removed by filter	4
Samples left after filtering	903
Samples greater than zero	903
Minimum sample value	1.000
Maximum value	20.000
Mean	2.090
Standard Deviation	2.305
Standard Error of Mean	0.077
Median	10.500
Geometric Mean	1.550
Geometric Standard Deviation	1.948
Skewness	3.567
Kurtosis	19.329
Sum of samples	1887.000
Sum of samples > 0.0	1887.000



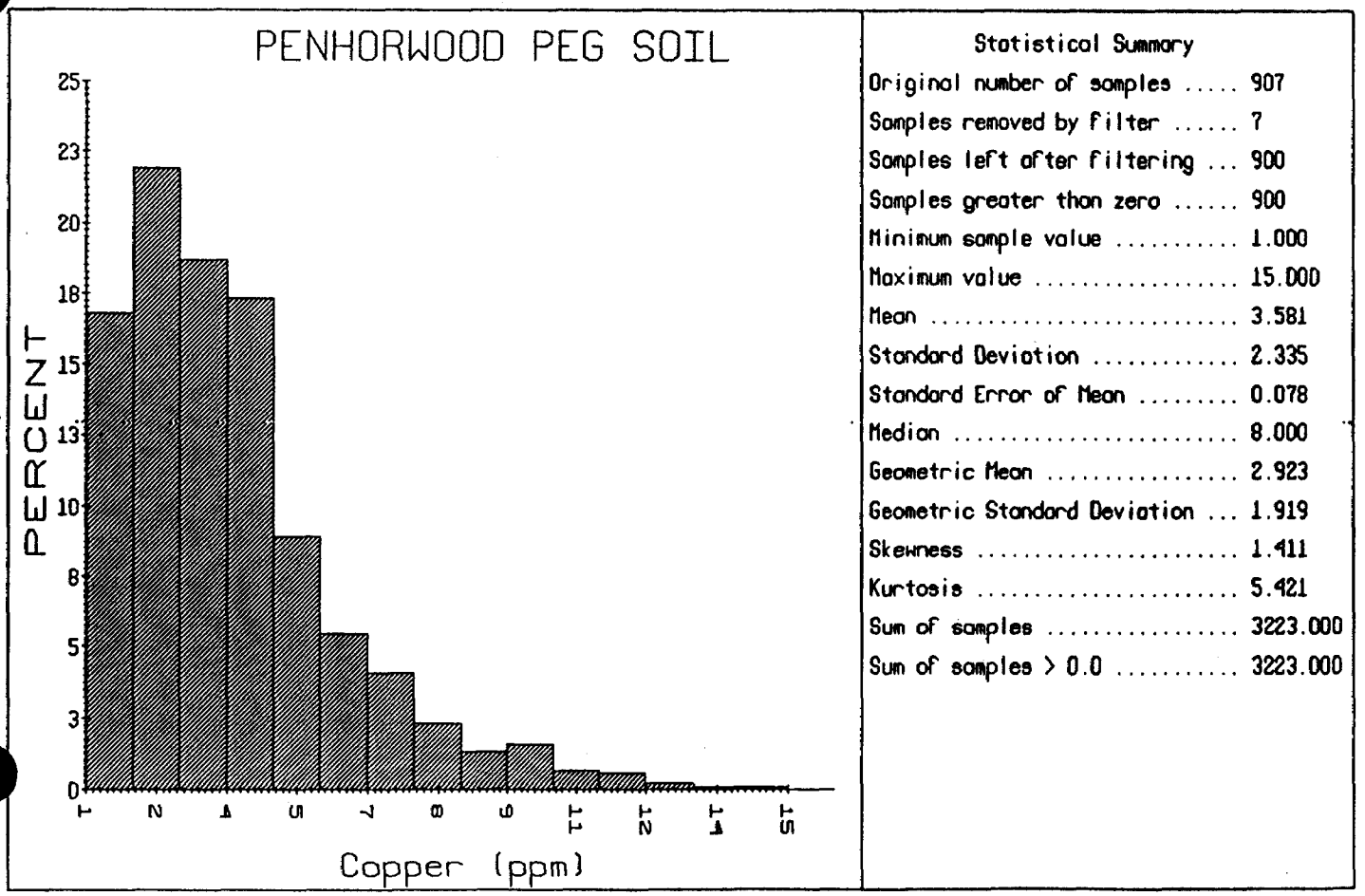
Statistical Summary

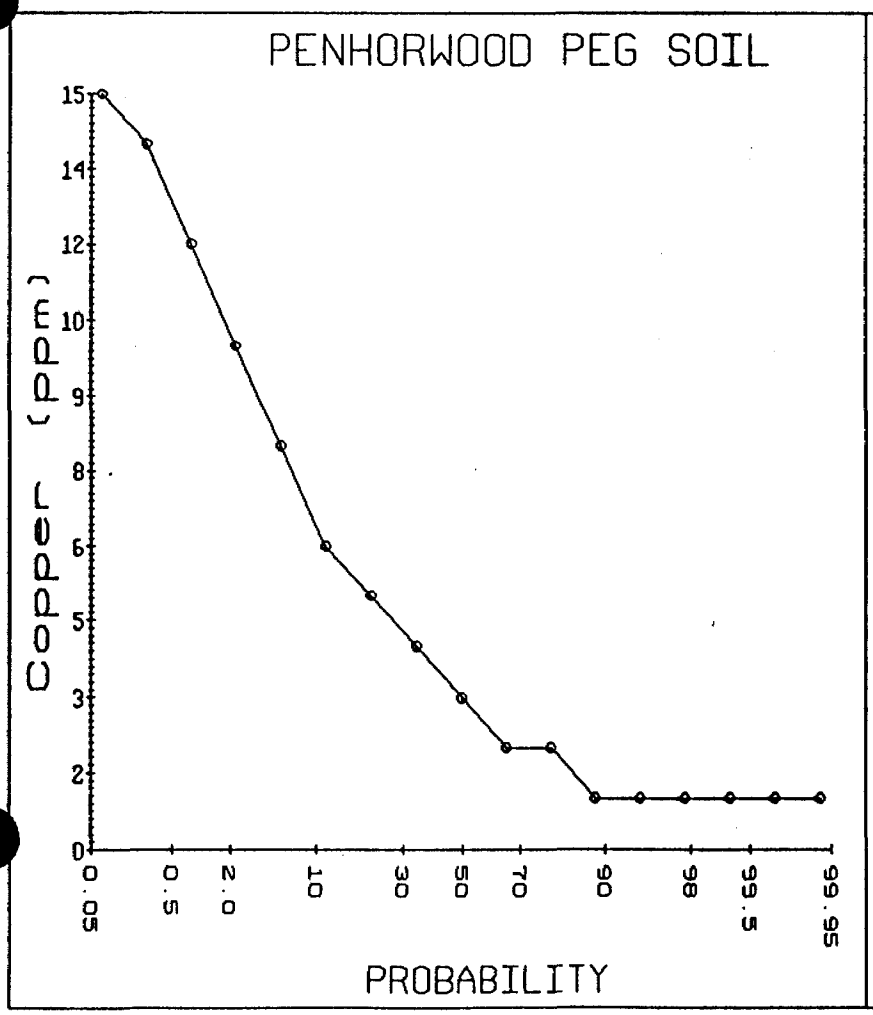
Original number of samples	907
Samples removed by filter	4
Samples left after filtering	903
Samples greater than zero	903
Minimum sample value	1.000
Maximum value	20.000
Mean	2.090
Standard Deviation	2.305
Standard Error of Mean	0.077
Median	10.500
Geometric Mean	1.550
Geometric Standard Deviation	1.948
Skewness	3.567
Kurtosis	19.329
Sum of samples	1887.000
Sum of samples > 0.0	1887.000

COPPER (PPM) IN PENHORWOOD PEG SOIL

Original number of samples	907
Number of samples removed by user-defined filter	0
Number of samples left after filtering	907
Number of samples greater than zero	907
Minimum sample value	1.000000
Maximum value	24.000000
Mean	3.706725
Standard Deviation	2.740021
Standard Error of Mean	0.090981
Median	12.500000
Mode	Not Calculated
Geometric Mean *	2.966759
Geometric Standard Deviation *	1.955147
Skewness	2.505873
Kurtosis	13.911711
Sum of samples	3362.000000
Sum of samples greater than zero	3362.000000

* Based on samples greater than zero.





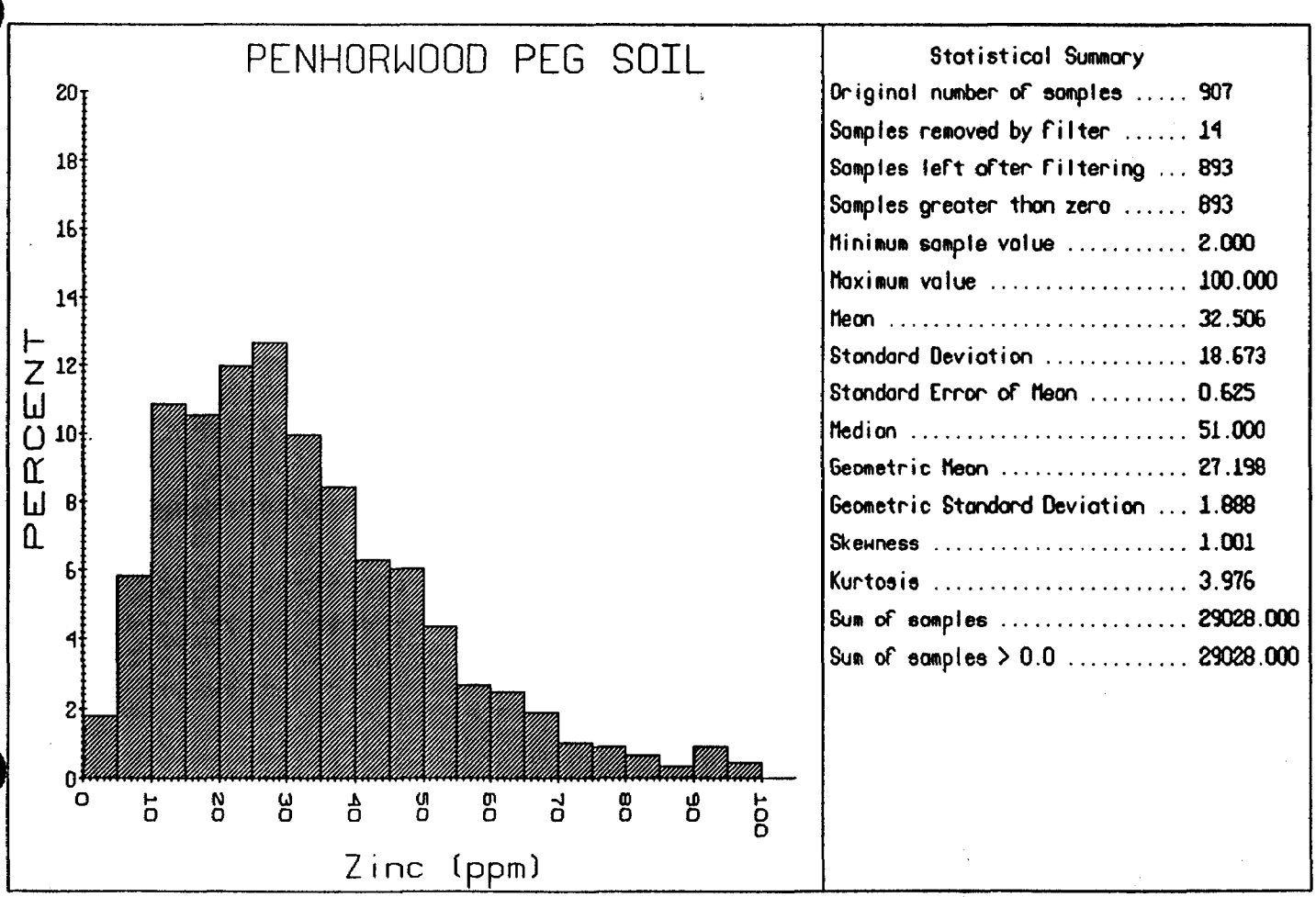
Statistical Summary

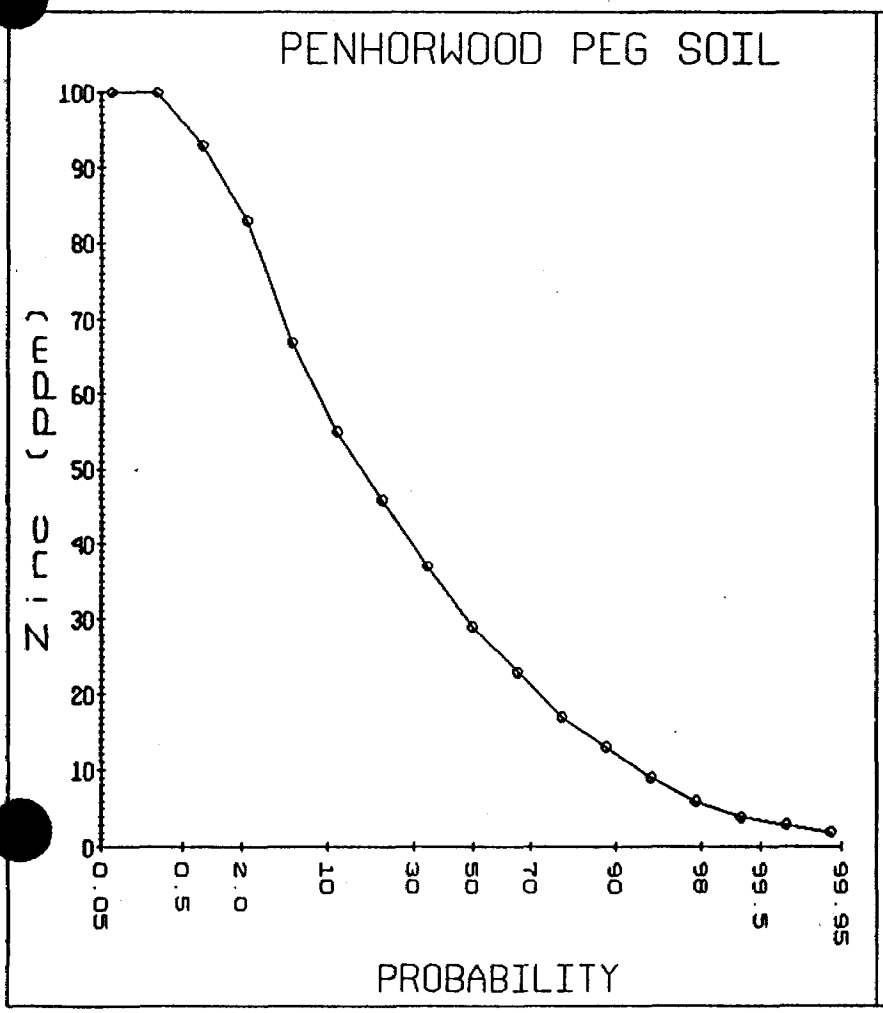
Original number of samples	907
Samples removed by filter	7
Samples left after filtering	900
Samples greater than zero	900
Minimum sample value	1.000
Maximum value	15.000
Mean	3.581
Standard Deviation	2.335
Standard Error of Mean	0.078
Median	8.000
Geometric Mean	2.923
Geometric Standard Deviation	1.919
Skewness	1.411
Kurtosis	5.421
Sum of samples	3223.000
Sum of samples > 0.0	3223.000

ZINC (PPM) IN PENHORWOOD PEG SOIL

Original number of samples	907
Number of samples removed by user-defined filter	0
Number of samples left after filtering	907
Number of samples greater than zero	907
Minimum sample value	2.000000
Maximum value	220.000000
Mean	34.130099
Standard Deviation	22.940287
Standard Error of Mean	0.761720
Median	111.000000
Mode	Not Calculated
Geometric Mean *	27.877995
Geometric Standard Deviation *	1.937618
Skewness	2.238383
Kurtosis	12.473188
Sum of samples	30956.000000
Sum of samples greater than zero	30956.000000

* Based on samples greater than zero.





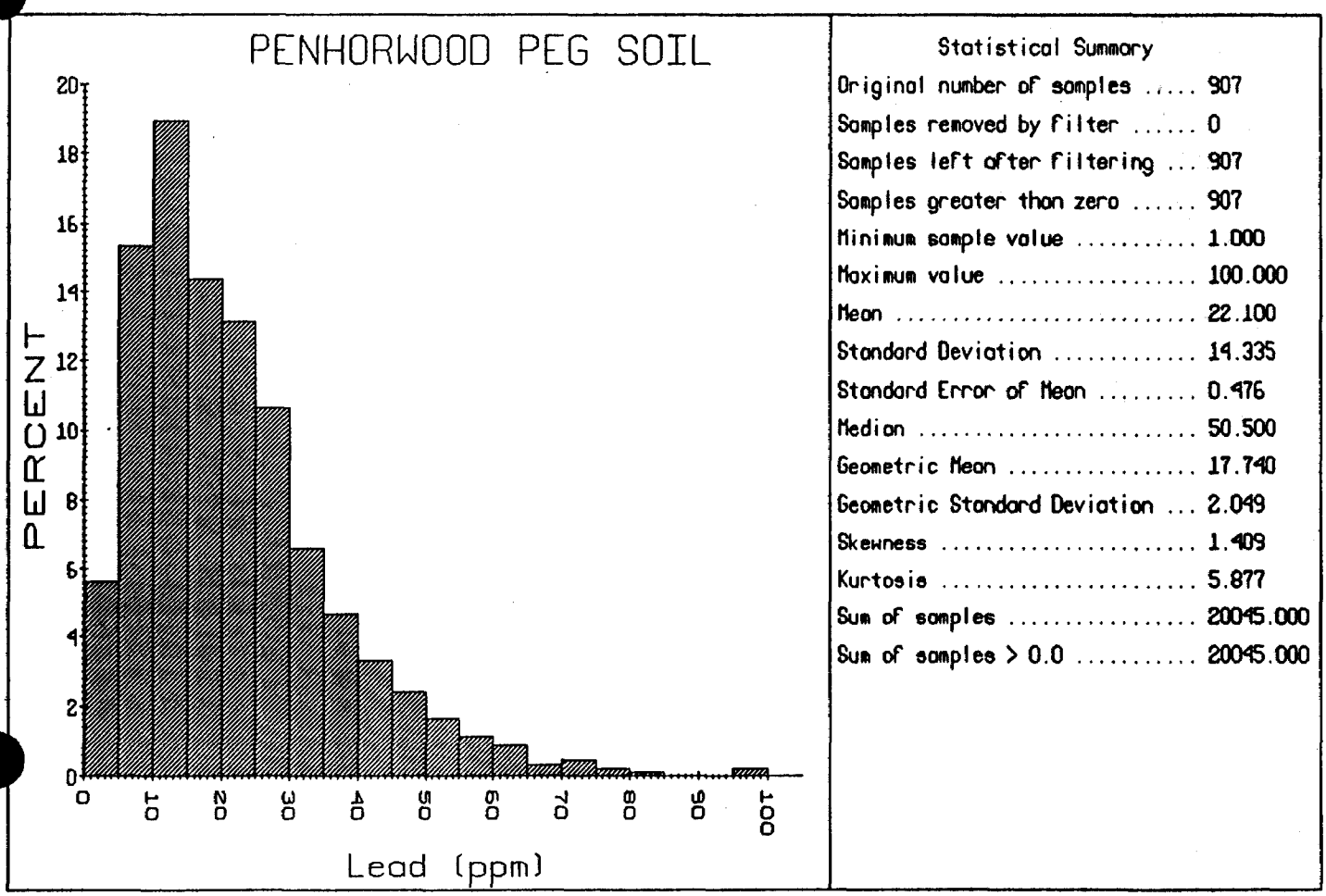
Statistical Summary

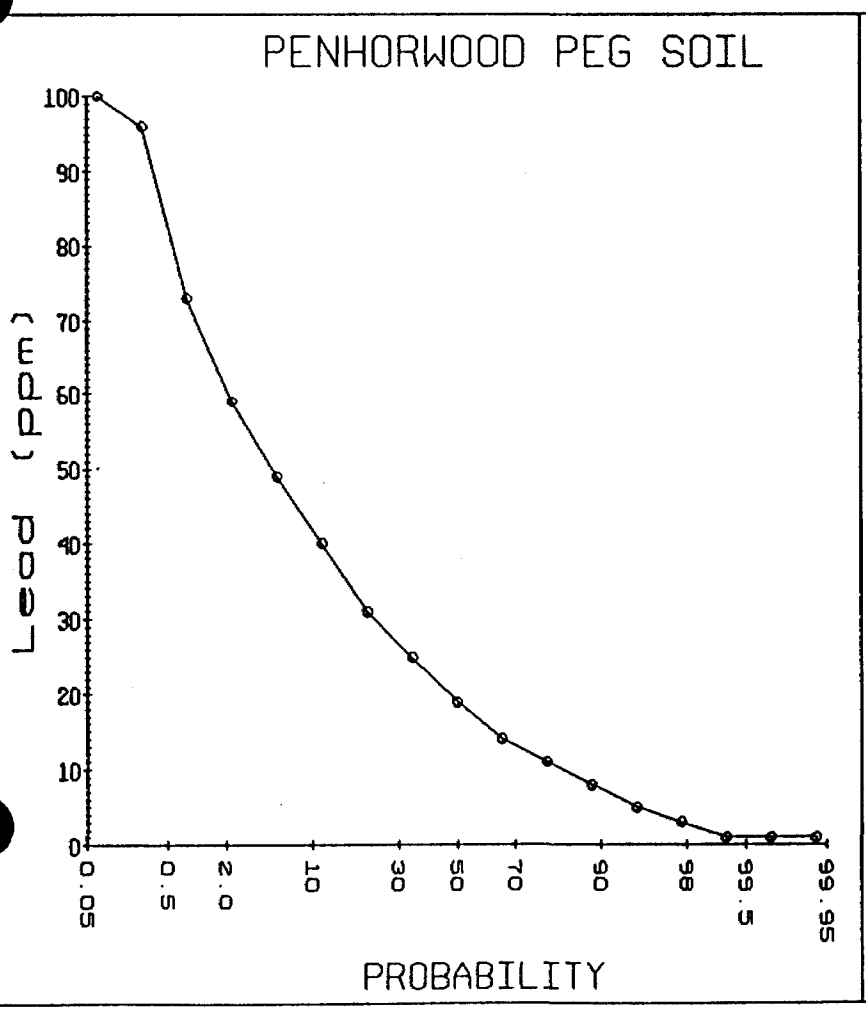
Original number of samples	907
Samples removed by filter	14
Samples left after filtering	893
Samples greater than zero	893
Minimum sample value	2.000
Maximum value	100.000
Mean	32.506
Standard Deviation	18.673
Standard Error of Mean	0.625
Median	51.000
Geometric Mean	27.198
Geometric Standard Deviation	1.888
Skewness	1.001
Kurtosis	3.976
Sum of samples	29028.000
Sum of samples > 0.0	29028.000

LEAD (PPM) IN PENHORWOOD PEG SOIL

Original number of samples	907
Number of samples removed by user-defined filter	0
Number of samples left after filtering	907
Number of samples greater than zero	907
Minimum sample value	1.000000
Maximum value	100.000000
Mean	22.100331
Standard Deviation	14.334689
Standard Error of Mean	0.475976
Median	50.500000
Mode	Not Calculated
Geometric Mean *	17.740218
Geometric Standard Deviation *	2.049012
Skewness	1.408926
Kurtosis	5.876599
Sum of samples	20045.000000
Sum of samples greater than zero	20045.000000

* Based on samples greater than zero.





Statistical Summary

Original number of samples	907
Samples removed by filter	0
Samples left after filtering	907
Samples greater than zero	907
Minimum sample value	1.000
Maximum value	100.000
Mean	22.100
Standard Deviation	14.335
Standard Error of Mean	0.476
Median	50.500
Geometric Mean	17.740
Geometric Standard Deviation	2.049
Skewness	1.409
Kurtosis	5.877
Sum of samples	20045.000
Sum of samples > 0.0	20045.000

APPENDIX C

STANDARD SAMPLES

SG-4 STANDARDS PEG DATA FORM ASSAY LAB,TSL 1992							
PENHORWOOD TWP GRID:							
SAMPLE	Co (ppm)	Cu (ppm)	Ni (ppm)	Pb (ppm)	Zn (ppm)	Ag (ppm)	
SA0352A	1.0	2.0	0.5	9.0	25.0	0.5	
SA0748A	1.5	7.0	4.0	5.0	15.0	0.5	
SA0789A	2.0	22.0	5.0	1.0	14.0	0.5	
SA0824A	3.0	8.0	5.0	1.0	16.0	0.5	
SA0837A	2.0	6.0	4.0	4.0	16.0	0.5	
SA0959A	2.0	8.0	9.0	4.0	21.0	0.5	
SA3031A	3.5	6.0	7.0	6.0	25.0	0.5	
SA3077A	3.5	7.0	6.0	10.0	24.0	0.5	
SA3462A	2.5	7.0	5.0	2.0	19.0	0.5	
SA3491A	2.0	7.0	5.0	7.0	17.0	0.5	
SA3544A	2.0	8.0	4.0	0.5	16.0	0.5	
SA4049A	2.0	9.0	6.0	59.0	83.0	0.5	
SA4050A	8.0	28.0	13.0	26.0	33.0	0.5	
SA4141A	2.0	5.0	4.0	6.0	47.0	0.5	
SA4157A	2.0	7.0	4.0	7.0	52.0	0.5	

APPENDIX D

AUTHOR'S STATEMENT OF QUALIFICATIONS

and FIELD PERSONNEL

STATEMENT OF QUALIFICATIONS

I, Arthur Douglas McLaughlin, of #9 - 820 Suzanne Street, Timmins, Ontario, do hereby declare:

I graduated from Acadia University in Wolfville, Nova Scotia with a Bachelor of Science degree in geology,

I have been employed as a mineral exploration geologist for the past twelve years,

I am currently employed as a geologist with Falconbridge Limited and that the work described in this report was conducted under my direct supervision,

I have no legal interest, nor expect any, in the mining claims described in this report, or in Falconbridge Limited.

Sept 30/1992

Doug McLaughlin

Timmins, Ontario

FIELD PERSONNEL

Doug McLaughlin	Project Geologist, Falconbridge Limited #9 - 820 Suzanne Street, Timmins, Ontario P4N 8C4
Jack Robert	Sampler, Larchex Inc., Exploration and Mining 218 Ogden Street, Timmins, Ontario P4N 1M9
Jake Lagault	Sampler, Larchex Inc., Exploration and Mining #3 - 28 Vimy Street, Timmins, Ontario P4N 4J9

900

Ontario

Ministry of Northern Development and Mines

Ministère du Développement du Nord et des Mines

Mining Lands Branch
Geoscience Approvals Section
933 Ramsey Lake Road
6th Floor
Sudbury, Ontario
P3E 6B5

Telephone: (705) 670-5853
Fax: (705) 670-5863

December 14, 1992

Our File: 2.14749
Transaction #W9260.134

Mining Recorder
Ministry of Northern Development
and Mines
60 Wilson Avenue
Timmins, Ontario
P4N 2S7

Dear Sir/Madam:

Subject: APPROVAL OF ASSESSMENT WORK CREDITS ON MINING CLAIMS P1177191 ET AL IN PENHORWOOD AND KENOGANING TOWNSHIPS

The assessment work credits for the Geochemical survey filed under Section 13 of the Mining Act Regulations have been approved as originally filed.

The approval date is November 30, 1992.

Yours sincerely,

for Ron C. Gashinski
Senior Manager, Mining Lands Branch
Mines and Minerals Division

LJ/jl
Enclosures:

cc: Resident Geologist
Timmins, Ontario

Assessment Files Library
Toronto, Ontario

MNO LANDS

Ministry of Northern Development and Mines
Ontario

Report of Work Conducted After Recording Claim

Mining Act

Transaction Number: W9260.00134

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used for correspondence. Questions about this collection should be directed to the Provincial Manager, Mining Lands, Ministry of Northern Development and Mines, Fourth Floor, 159 Cedar Street, Sudbury, Ontario, P3E 6A5, telephone (705) 670-7264.

2.14749

Instructions:
- Please type or print and submit in duplicate.
- Refer to the Mining Act and Regulations for requirements of filing assessment work or consult the Mining Recorder.
- A separate copy of this form must be completed for each Work Group.
- Technical reports and maps must accompany this form in duplicate.
- A sketch, showing the claims the work is assigned to, must accompany this form.

Recorded Holder(s)		Client No.
FALCONBRIDGE LIMITED P4N 7H9.		130679
Address: P.O. BOX 1140, 571 MONETA AVE, TIMMINS, ONTARIO		Telephone No.: (705) 267-1188
Mining Division: PORCUPINE	Township/Area: PENHORWOOD, KENOGANING	M or G Plan No.
Dates Work Performed From: JUNE 9, 1992	To: JUNE 24, 1992	

Work Performed (Check One Work Group Only)

Work Group	Type
Geotechnical Survey	HUMUS SURVEY
Physical Work, Including Drilling	
Rehabilitation	RECEIVED
Other Authorized Work	OCT 0 7 1992
Assays	MINING LANDS BRANCH
Assignment from Reserve	

RECORDED OCT - 1 1992 Receipt ______

Total Assessment Work Claimed on the Attached Statement of Costs $ $16,916.00

Note: The Minister may reject for assessment work credit all or part of the assessment work submitted if the recorded holder cannot verify expenditures claimed in the statement of costs within 30 days of a request for verification.

Persons and Survey Company Who Performed the Work (Give Name and Address of Author of Report)

Name	Address
DOUG McLAUGHLIN	#9-820 SUZANNE ST, TIMMINS, ONT. P4N 8C4
LARCHEX INC, MINING & EXPLOR.	74 ROBLIN AVE, BOX 1394, TIMMINS, ONT. P4N 7N2
JACK ROBERT	218 OGDEN ST, TIMMINS, ONT. P4N 1M9
JAKE LEGAULT	#3-28 VIMY ST, TIMMINS, ONT. P4N 4J9

(attach a schedule if necessary)

Certification of Beneficial Interest * See Note No. 1 on reverse side

I certify that at the time the work was performed, the claims covered in this work report were recorded in the current holder's name or held under a beneficial interest by the current recorded holder.	Date: Sept 30/92	Recorded Holder or Agent (Signature): [signature]

Certification of Work Report

I certify that I have a personal knowledge of the facts set forth in this Work report, having performed the work or witnessed same during and/or after its completion and annexed report is true.

Name and Address of Person Certifying		
DOUG McLAUGHLIN, #9-820 SUZANNE ST, TIMMINS ONT. P4N 8C4		
Telepone No.: (705) 267-8105	Date: SEPT 30, 1992	Certified By (Signature): [signature]

For Office Use Only

Total Value Cr. Recorded	Date Recorded	Mining Recorder	Received Stamp
$16,916.00	OCT. 1/92	[signature]	PORCUPINE MINING DIVISION RECEIVED OCT 1 1992 @ 1:10 pm
	Deemed Approval Date: DEC. 30th/92	Date Approved	
	Date Notice for Amendments Sent		

0241 (03/91)

	B	C	D	E	F	G
1			Value of	Value applied	Value assigned	Reserve:
2	Claim	Number of	assessment	to this claim	from this claim	work to be
3	number	claim units	work done on			claimed at a
4			this claim			future date
5	P1169813	1	$0	$1,600	$0	$0
6	P1177181	1	$0	$1,200	$0	$0
7	P1177190	1	$0	$1,200	$0	$0
8	P1177191	1	$237	$963	$0	$0
9	P1177192	1	$507	$693	$0	$0
10	P1177193	1	$880	$320	$0	$0
11	P1177194	1	$1,116	$84	$0	$0
12	P1177195	1	$710	$490	$0	$0
13	P1177196	1	$389	$811	$0	$0
14	P1177197	1	$0	$1,200	$0	$0
15	P1177198	1	$0	$1,200	$0	$0
16	P1177199	1	$0	$1,200	$0	$0
17	P1177200	1	$0	$1,200	$0	$0
18	P1169776	1	$423	$0	$423	$0
19	P1169777	1	$677	$0	$677	$0
20	P1169778	1	$609	$0	$609	$0
21	P1169779	1	$575	$0	$575	$0
22	P1169780	1	$795	$0	$795	$0
23	P1169781	1	$541	$0	$541	$0
24	P1169782	1	$0	$0	$0	$0
25	P1169783	1	$0	$0	$0	$0
26	P1169784	1	$0	$0	$0	$0
27	P1169785	1	$0	$0	$0	$0
28	P1169786	1	$0	$0	$0	$0
29	P1169787	1	$0	$0	$0	$0
30	P1169801	1	$1,167	$0	$1,167	$0
31	P1169802	1	$1,083	$0	$1,083	$0
32	P1169803	1	$710	$0	$710	$0
33	P1169804	1	$897	$0	$897	$0
34	P1169805	1	$1,607	$0	$844	$76[illegible]
35	P1169806	1	$1,252	$0	$0	$1,252
36	P1169807	1	$203	$0	$0	$203
37	P1169808	1	$0	$0	$0	$0
38	P1169809	1	$778	$0	$0	$778
39	P1169810	1	$880	$0	$0	$880
40	P1169811	1	$880	$0	$0	$880
41	P1169812	1	$0	$0	$0	$0
42						
43		37	$16,916	$12,161	$8,3201	$4,755
44		Total number	Total value	Total value	Total assigned	Total reserve
45		of claims	work done	work applied	from	

Value Assigned from this Claim	Reserve: Work to be Claimed at a Future Date
Total Assigned From	Total Reserve

RECEIVED OCT 07 1992 MINING LANDS BRANCH

Credits you are claiming in this report may be cut back. In order to minimize the adverse effects of such deletions, please indicate from which claims you wish to priorize the deletion of credits. Please mark (✓) one of the following:

1. ☑ Credits are to be cut back starting with the claim listed last, working backwards.
2. ☐ Credits are to be cut back equally over all claims contained in this report of work.
3. ☐ Credits are to be cut back as priorized on the attached appendix.

In the event that you have not specified your choice of priority, option one will be implemented.

Note 1: Examples of beneficial interest are unrecorded transfers, option agreements, memorandum of agreements, etc., with respect to the mining claims.

Note 2: If work has been performed on patented or leased land, please complete the following:

I certify that the recorded holder had a beneficial interest in the patented or leased land at the time the work was performed.	Signature	Date

0241 (0

Ministry of Northern Development and Mines

Ontario [redacted]istère du éveloppement du Nord et des mines

Statement of Costs for Assessment Credit

État des coûts aux fins du crédit d'évaluation

Mining Act/Loi sur les mines

Transaction No./N° de transaction: W9260.00134

Personal information collected on this form is obtained under the authority of the Mining Act. This information will be used to maintain a record and ongoing status of the mining claim(s). Questions about this collection should be directed to the Provincial Manager, Minings Lands, Ministry of Northern Development and Mines, 4th Floor, 159 Cedar Street, Sudbury, Ontario P3E 6A5, telephone (705) 670-7264.

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à tenir à jour un registre des concessions minières. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4e étage, Sudbury (Ontario) P3E 6A5, téléphone (705) 670-7264.

1. Direct Costs/Coûts directs

Type	Description	Amount Montant	Totals Total global
Wages Salaires	Labour Main-d'oeuvre		
	Field Supervision Supervision sur le terrain	3,131.11	3131.11
Contractor's and Consultant's Fees Droits de l'entrepreneur et de l'expert-conseil	Type SAMPLING	5,007.66	
	SAMPLE ASSAY	8,431.07	
			13,438.73
Supplies Used Fournitures utilisées	Type SAMPLE BAGS		
	FLAGGING		
	TAPE, TAGS		
	RECEIVED	345.60	345.60
Equipment Rental Location de matériel	Type OCT 07 1992		
	MINING LANDS BRANCH		
	Total Direct Costs Total des coûts directs		16,916.44

2. Indirect Costs/Coûts indirects

** Note: When claiming Rehabilitation work Indirect costs are not allowable as assessment work.
Pour le remboursement des travaux de réhabilitation, les coûts indirects ne sont pas admissibles en tant que travaux d'évaluation.

Type	Description	Amount Montant	Totals Total global
Transportation Transport	Type		
	RECORDED OCT - 1 1992		
Food and Lodging Nourriture et hébergement	Receipt		
Mobilization and Demobilization Mobilisation et démobilisation			
	Sub Total of Indirect Costs Total partiel des coûts indirects		
	Amount Allowable (not greater than 20% of Direct Costs) Montant admissible (n'excédant pas 20 % des coûts directs)		
	Total Value of Assessment Credit (Total of Direct and Allowable indirect costs) / Valeur totale du crédit d'évaluation (Total des coûts directs et indirects admissibles)		

Note: The recorded holder will be required to verify expenditures claimed in this statement of costs within 30 days of a request for verification. If verification is not made, the Minister may reject for assessment work all or part of the assessment work submitted.

Note : Le titulaire enregistré sera tenu de vérifier les dépenses demandées dans le présent état des coûts dans les 30 jours suivant une demande à cet effet. Si la vérification n'est pas effectuée, le ministre peut rejeter tout ou une partie des travaux d'évaluation présentés.

Filing Discounts

1. Work filed within two years of completion is claimed at 100% of the above Total Value of Assessment Credit.
2. Work filed three, four or five years after completion is claimed at 50% of the above Total Value of Assessment Credit. See calculations below:

Total Value of Assessment Credit	Total Assessment Claimed
× 0.50 =	

Remises pour dépôt

1. Les travaux déposés dans les deux ans suivant leur achèvement sont remboursés à 100 % de la valeur totale susmentionnée du crédit d'évaluation.
2. Les travaux déposés trois, quatre ou cinq ans après leur achèvement sont remboursés à 50 % de la valeur totale du crédit d'évaluation susmentionné. Voir les calculs ci-dessous.

Valeur totale du crédit d'évaluation	Évaluation totale demandée
× 0,50 =	

Certification Verifying Statement of Costs

I hereby certify:
that the amounts shown are as accurate as possible and these costs were incurred while conducting assessment work on the lands shown on the accompanying Report of Work form.

that as PROJECT GEOLOGIST I am authorized
(Recorded Holder, Agent, Position in Company)

to make this certification

Attestation de l'état des coûts

J'atteste par la présente :
que les montants indiqués sont le plus exact possible et que ces dépenses ont été engagées pour effectuer les travaux d'évaluation sur les terrains indiqués dans la formule de rapport de travail ci-joint.

Et qu'à titre de _____ je suis autorisé
(titulaire enregistré, représentant, poste occupé dans la compagnie)

à faire cette attestation.

Signature	Date
[signature]	Sept 30, 1992

0212 (04/91)

Nota : Dans cette formule, lorsqu'il désigne des personnes, le masculin est utilisé au sens neutre.

REFERENCE

AREAS WITHDRAWN FROM DISPOSITION

M.R.O. – MINING RIGHTS ONLY
S.R.O. – SURFACE RIGHTS ONLY
M.+ S. – MINING AND SURFACE RIGHTS

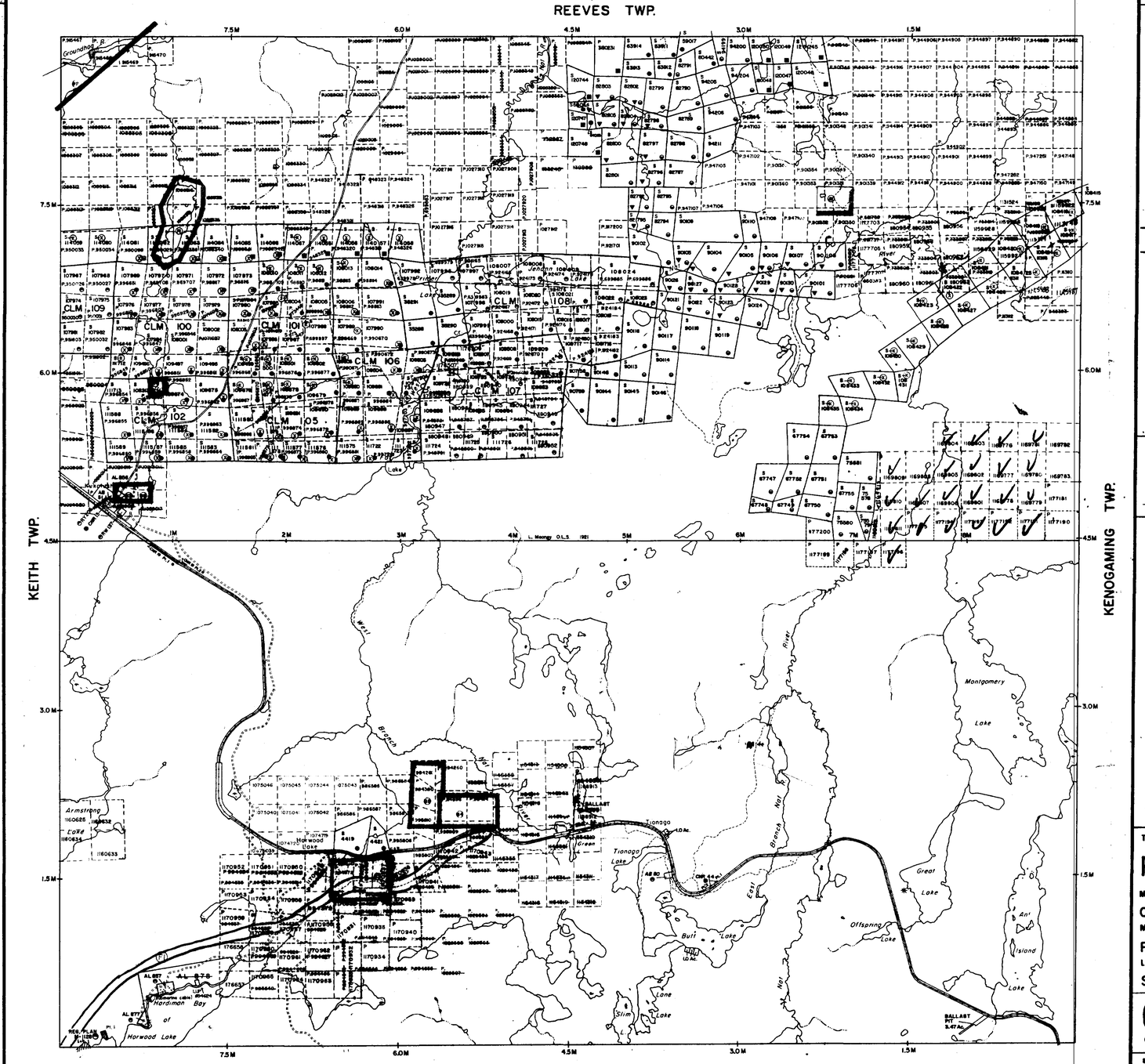
	Description	Order No.	Date	Disposition	File
(R)	400 RESERVE			- S. R. O.	13637
(S)	SEC. 43/70	W. 19/72	27/12/72	S. R. O.	163006 V.2
(S)	SEC. 36/80		8/7/81	S. R. O.	13637
(M)	ORDER OF THE MINISTER #33/87 DATED MARCH 30/87 WITHDRAWS MINING AND SURFACE RIGHTS UNDER SECTION 36 OF THE MINING ACT RSO 1980				

SAND AND GRAVEL

(G)	GRAVEL	FILE	38729
(G)	GRAVEL PIT	FILE	13565 V.6
(G)	GRAVEL	FILE	106274
(G)	QUARRY PERMIT #22606 ISSUED FOR THE REMOVAL OF QUARTZ JULY 1, 1987.		
(G)	QUARRY PERMIT # 22606 ISSUED FOR THE REMOVAL OF QUARTZ SEPT. 10, 1987		
(C)	CANCELLED PATENT AND LEASED CLAIMS		

F - THIS TWP. SUBJECT TO FOREST ACTIVITY IN 1992/93. FURTHER INFORMATION AVAILABLE ON FILE.

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.



LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES:
  - TOWNSHIPS, BASE LINES, ETC.
  - LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES:
  - LOT LINES
  - PARCEL BOUNDARY
  - MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION OR COMPOSITE PLAN
- RESERVATIONS
- ORIGINAL SHORELINE
- MARSH OR MUSKEG
- MINES
- TRAVERSE MONUMENT

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	◐
" , MINING RIGHTS ONLY	◑
LEASE, SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	◧
" , MINING RIGHTS ONLY	◨
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	✕
RESERVATION	⊘
CANCELLED	●
SAND & GRAVEL	◔

LAND USE PERMIT -
NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 69, SUBSEC 1.

SCALE: 1 INCH = 40 CHAINS

FEET 0 1000 2000 4000 6000 8000
METRES 0 200 1000 (1 KM) 2000 (2 KM)

RECEIVED
OCT 2 1992

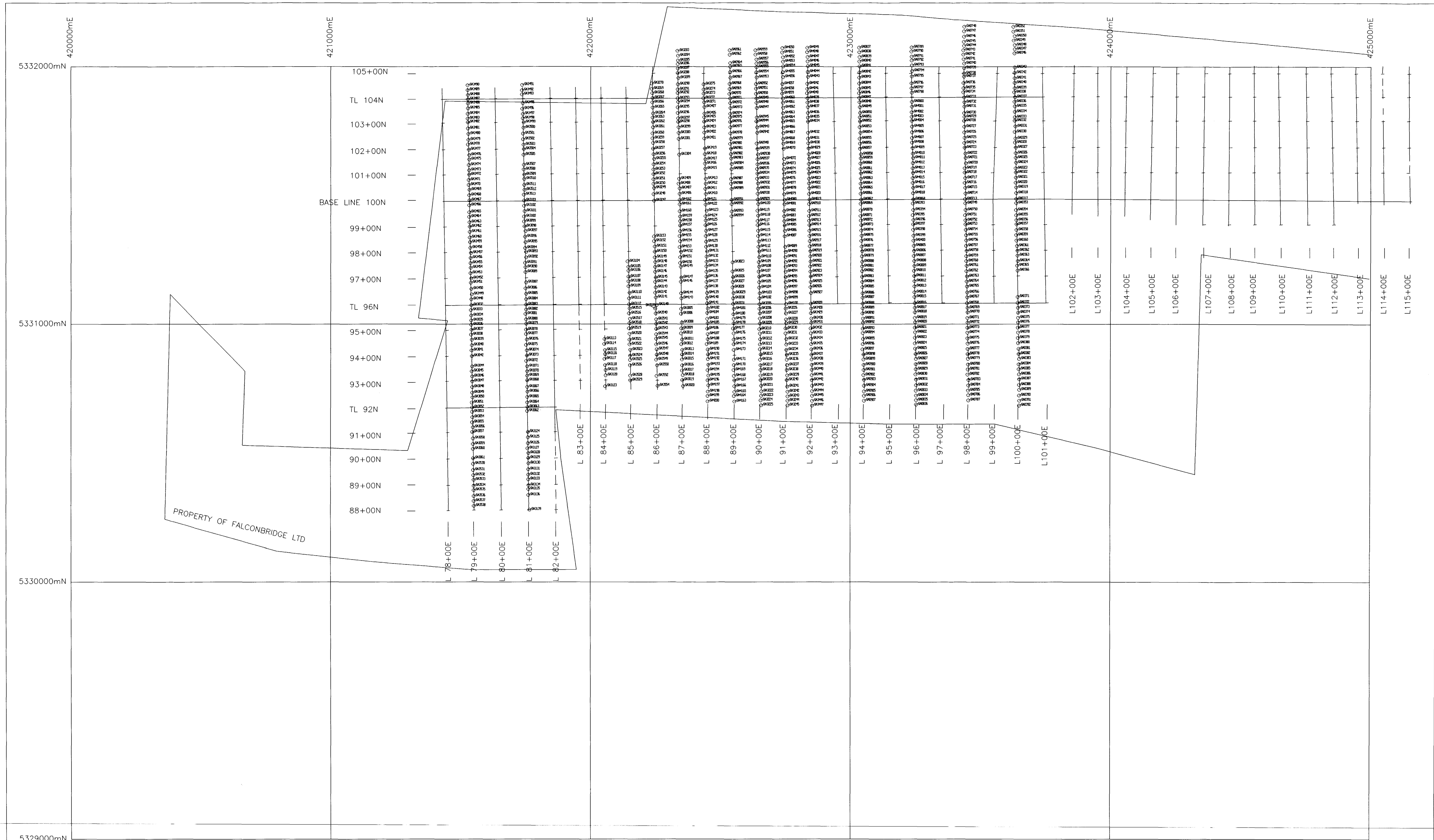
ACTIVATED JANUARY 30, 1990

TOWNSHIP
PENHORWOOD
M.N.R. ADMINISTRATIVE DISTRICT
CHAPLEAU
MINING DIVISION
PORCUPINE
LAND TITLES / REGISTRY DIVISION
SUDBURY

RECEIVED
OCT 07 1992
MINING LANDS BRANCH

Ontario Ministry of Natural Resources — Land Management Branch

Date MARCH 1985
Number G-3244



LEGEND

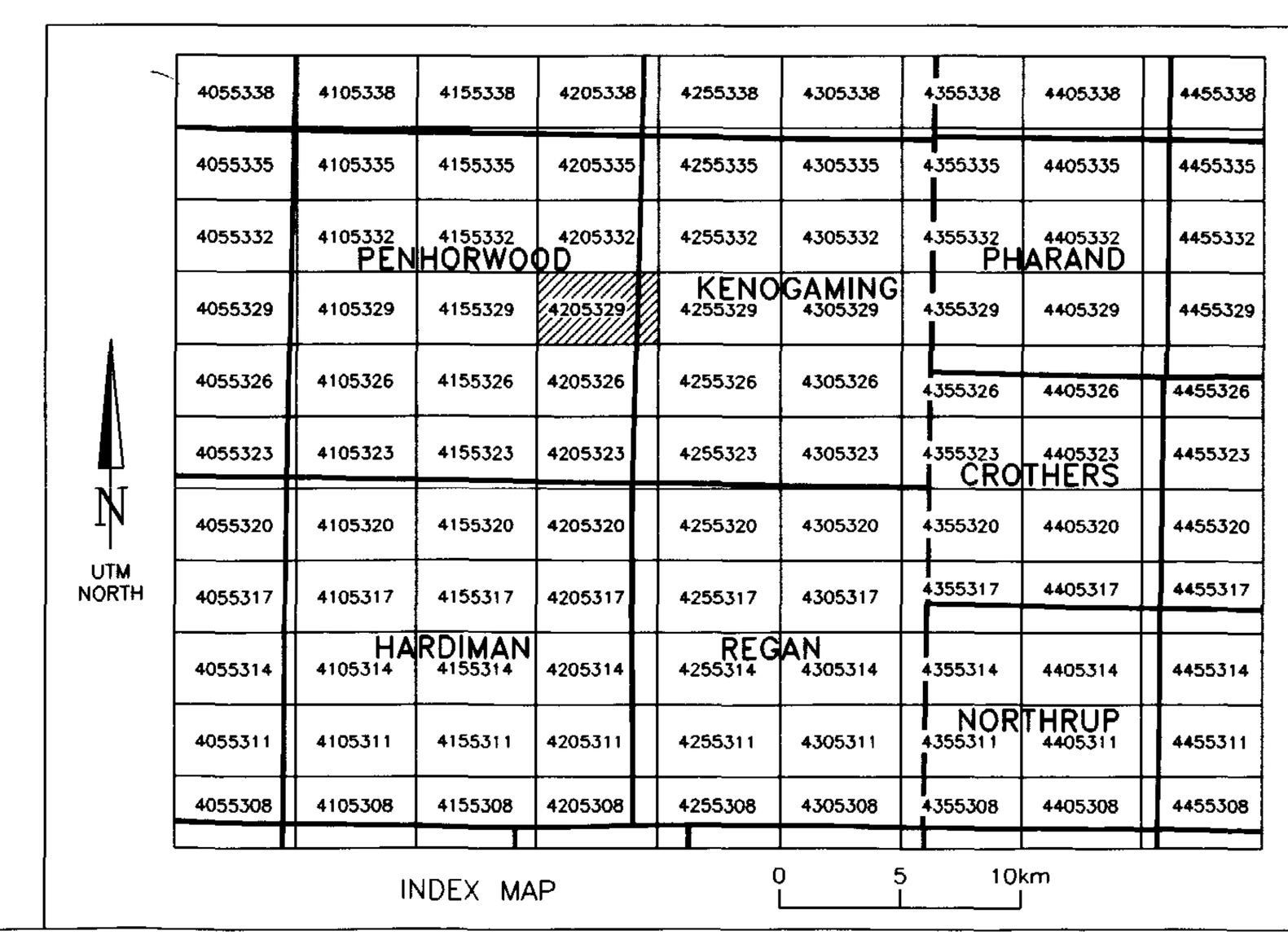
HUMUS PARTIAL EXTRACTION SURVEY

SURVEY DATES: JUNE 9 TO JUNE 24, 1992

ANALYTICAL LAB: TSL/Assoyers LAB., Rouyn, P.Q.

SA0045 --- SAMPLE NUMBER

ø --- SAMPLE LOCATION



ASTRONOMIC

N

FALCONBRIDGE LIMITED

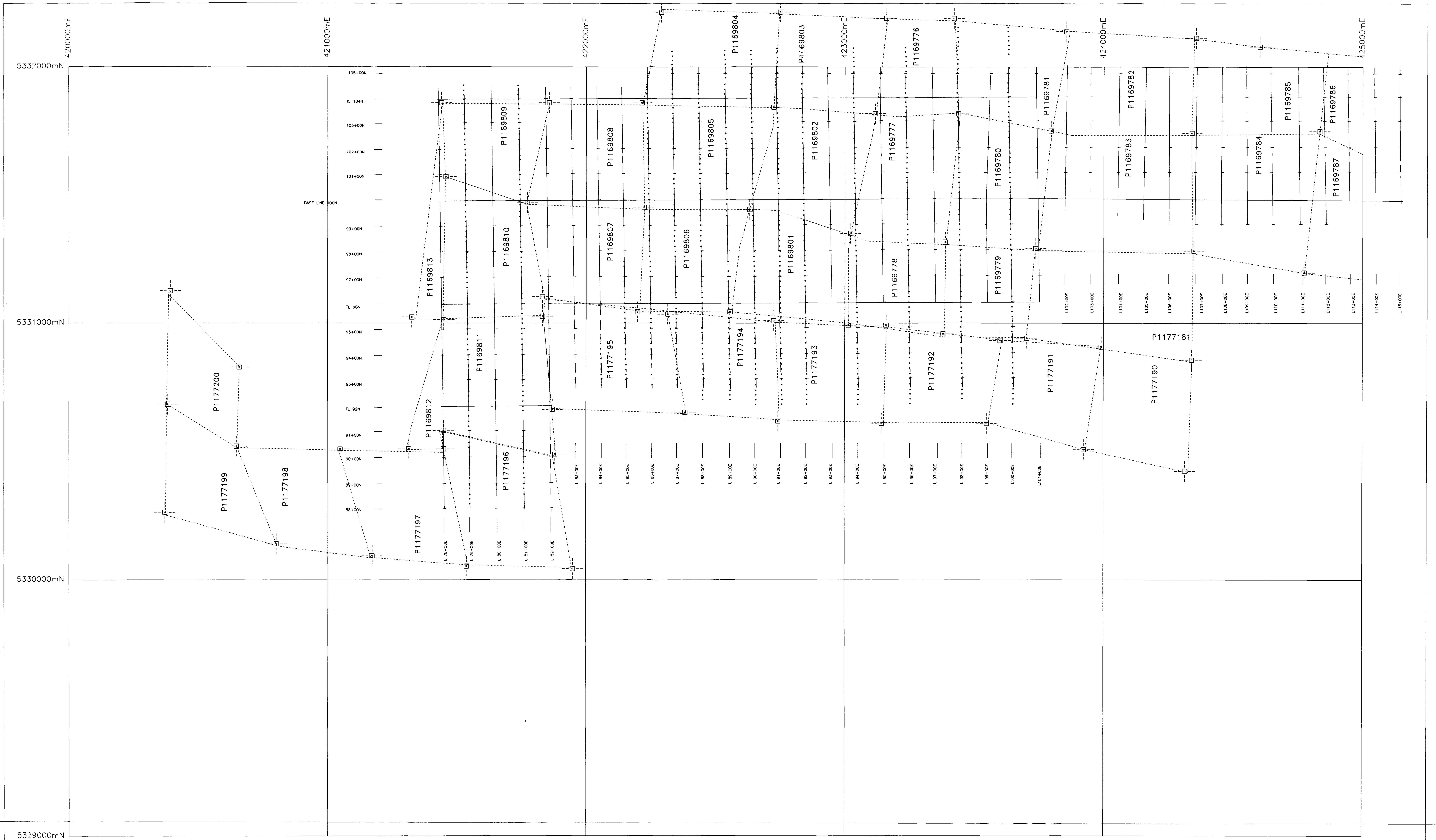
Exploration Division Timmins ONTARIO

PENHORWOOD/KENOGAMING TWP

HUMUS PARTIAL EXTRACTION SURVEY
SAMPLE LOCATIONS

2.14745

210



LEGEND

HUMUS PARTIAL EXTRACTION SURVEY

SURVEY DATES: JUNE 9 TO JUNE 24, 1992

ANALYTICAL LAB: TSL/Assayers LAB., Rouyn, P.Q.

• --- SAMPLE LOCATION

P116912 ---- CLAIM NUMBER

Symbols

CONTACTS

Outcrop (small, observed, inferred, boulder/float)

Geological Boundary (observed, approximate, assumed)

Geological Boundary (gradational, geophysically inferred)

Flow Contact (defined, approximate)

MEASUREMENTS

Bedding with tops known (horizontal, inclined, vertical, overturned, dip unknown)

Bedding with tops unknown (inclined, vertical, dip unknown)

Pillow top (horizontal, inclined, vertical, overturned, dip unknown)

Spinifex top

Schistosity, gneissosity, cleavage or foliation (horizontal, inclined, vertical, dip unknown) (No. of ticks = generation – S1, S2, S3)

Jointing (horizontal, inclined, vertical, dip unknown)

Lineation (horizontal, inclined, vertical)

Folding – defined folds S fold, Z fold, multiple S, multiple Z)

Folding – undetermined type

Fault (defined, approximate, assumed) (inclined, vertical, movement w/circle on downthrow side)

Fault (Geophysically inferred, Lineament inferred)

Thrust Fault (defined, approximate, assumed) (teeth indicate upthrust side)

Shear zone

Dyke, vein (defined, approximate, assumed)

Anticline, Antiform (with or without plunge, overturned)

Syncline, Synform (with or without plunge, overturned)

Glacial striae (ice movement known, unknown) (numbers indicate relative age)

Limit of Geological Mapping

PHYSICAL WORK

Mineral Occurrence

Trench (1:20,000 +, 1:5,000 –)

Diamond Drill Hole (collar surveyed, collar located, collar unlocated)

Overburden Drill Hole

Mine, quarry or glory hole (active, abandoned)

Shaft (vertical, inclined, raise, winze)

Adit, Ramp

Rock Dump, Tailings

Gravel Pit (active, abandoned)

CULTURAL AND PHYSIOGRAPHIC FEATURES

All weather road (paved, gravel)

Four wheel drive road

Track

Trail

Buildings

Campsite

Power Line (major line, regular line)

Telephone Line (usable, unusable)

Railroad Track

Tower

Bridge

River (open, rapids)

Intermittent Stream

Lake

Swamp

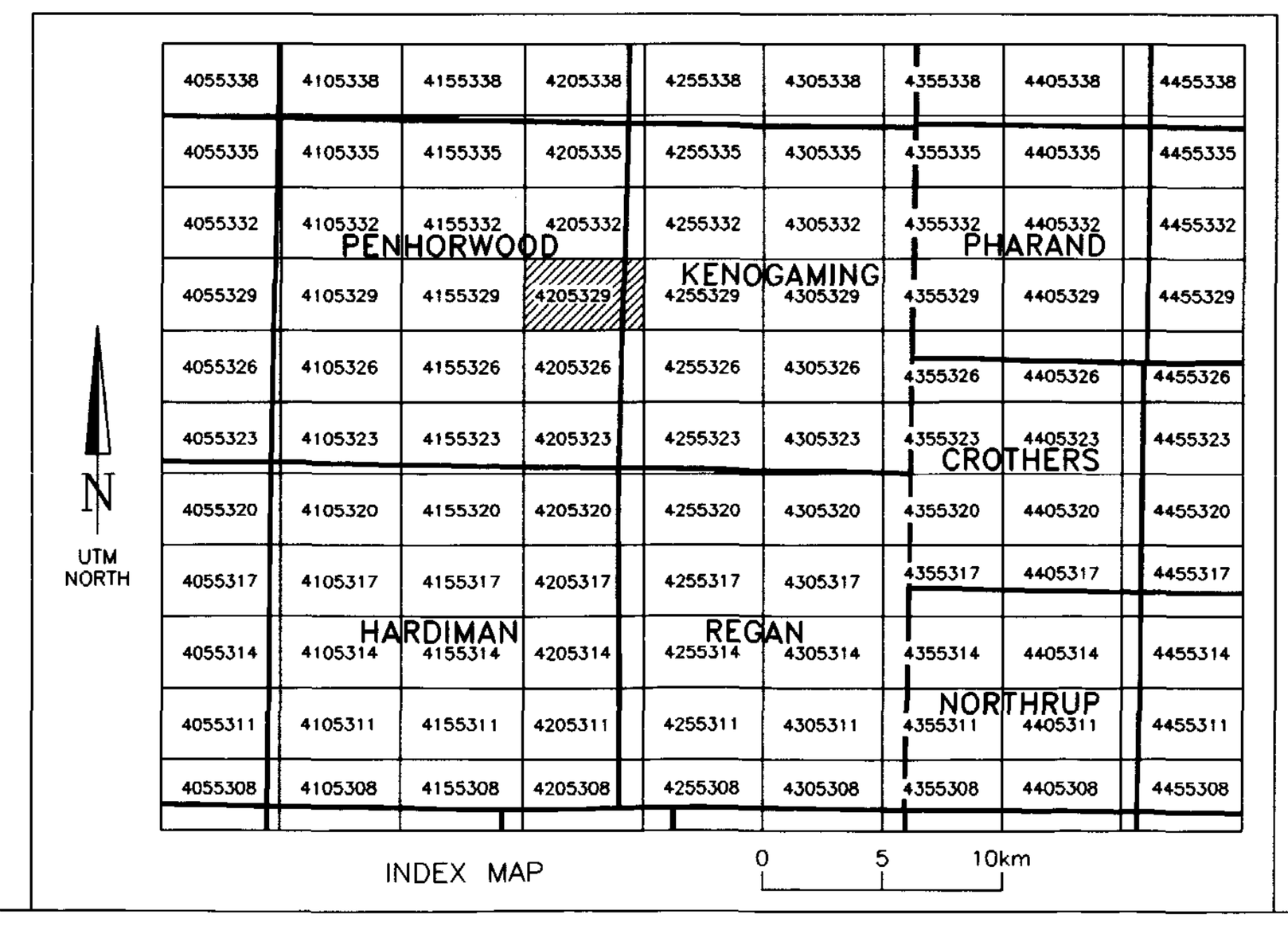
Esker

Claim Post (OLS surveyed, inspected survey, located, unlocated, witness, in water)

Grids (current grid, old grid)

Survey Pin (located, unlocated)

Lot/Concession Corner Pin (located, government defined)



ASTRONOMIC

SHEET ORIENTED UTM NORTH AZIMUTH 359° 06'

FALCONBRIDGE LIMITED

Exploration Division Timmins ONTARIO

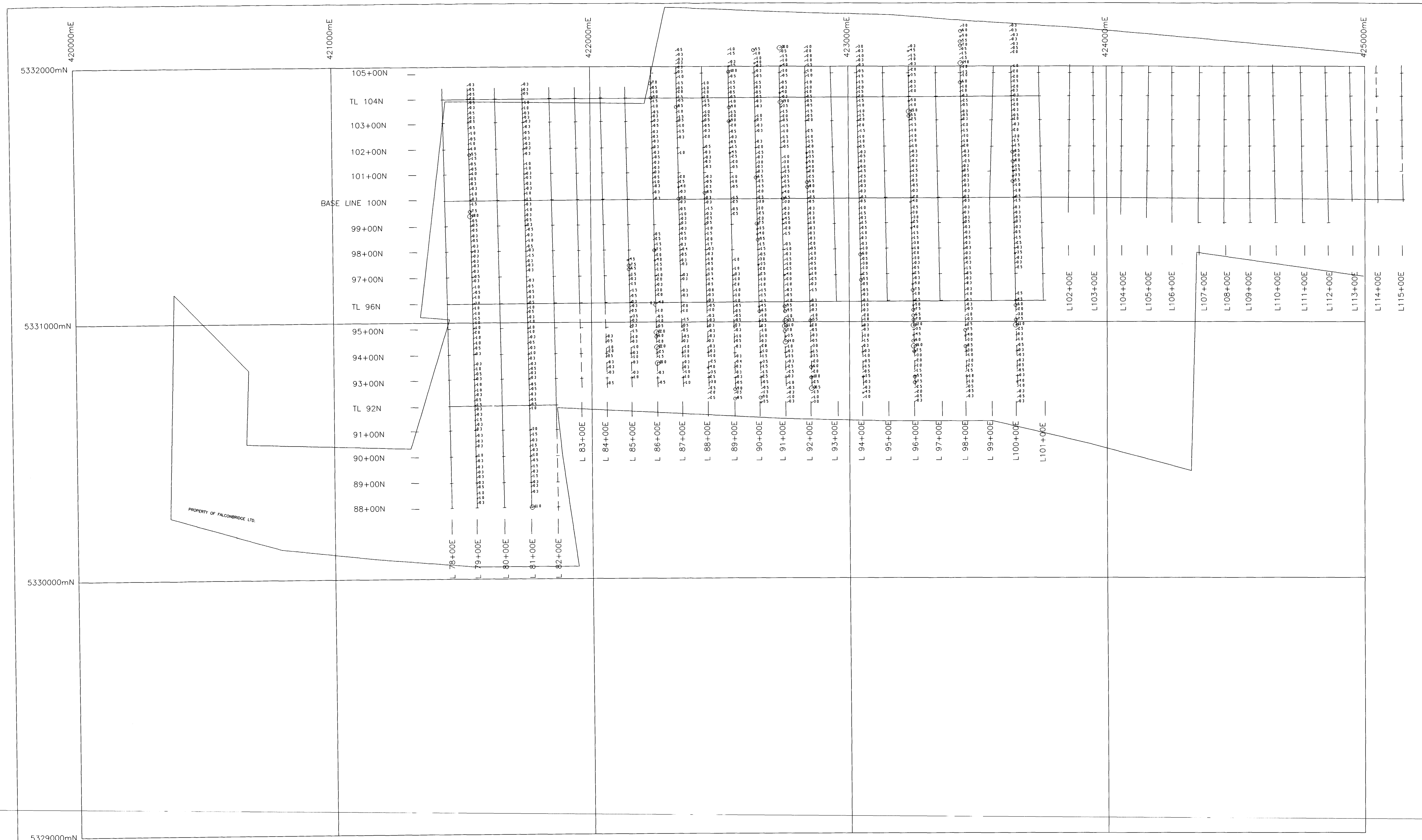
PENHORWOOD/KENOGAMING TWP

HUMUS PARTIAL EXTRACTION SURVEY
SAMPLE LOCATIONS
AND PROPERTY MAP

TRACED: PW	DATE: 08/90	NTS: 42B/01	PROJECT: 8198
DRAWN: I.L.	DATE: 08/09/92	MAP No: 4205329	FILE: HUMUS-P
SUPERVISED: S.C./D.Mc.	DATE: 09/92	SCALE 1:5000 (metres)	
REVISED: I.L.	DATE: 09/92	0 50 100 150 200	

42B01NE0078 2.14749 PENHORWOOD

220



LEGEND

HUMUS PARTIAL EXTRACTION SURVEY

SURVEY DATES: JUNE 9 TO JUNE 24,1992

ANALYTICAL LAB: TSL/Assayers LAB., Rouyn, P.Q.

SA0045 --- SAMPLE NUMBER

· --- SAMPLE LOCATION

SAMPLE RANGE		SYMBOL
0.0 – 3.0	PPM	⸍
3.01 – 5.0	PPM	⸗
5.01 – 10.0	PPM	⊘
>10.0	PPM	⊙

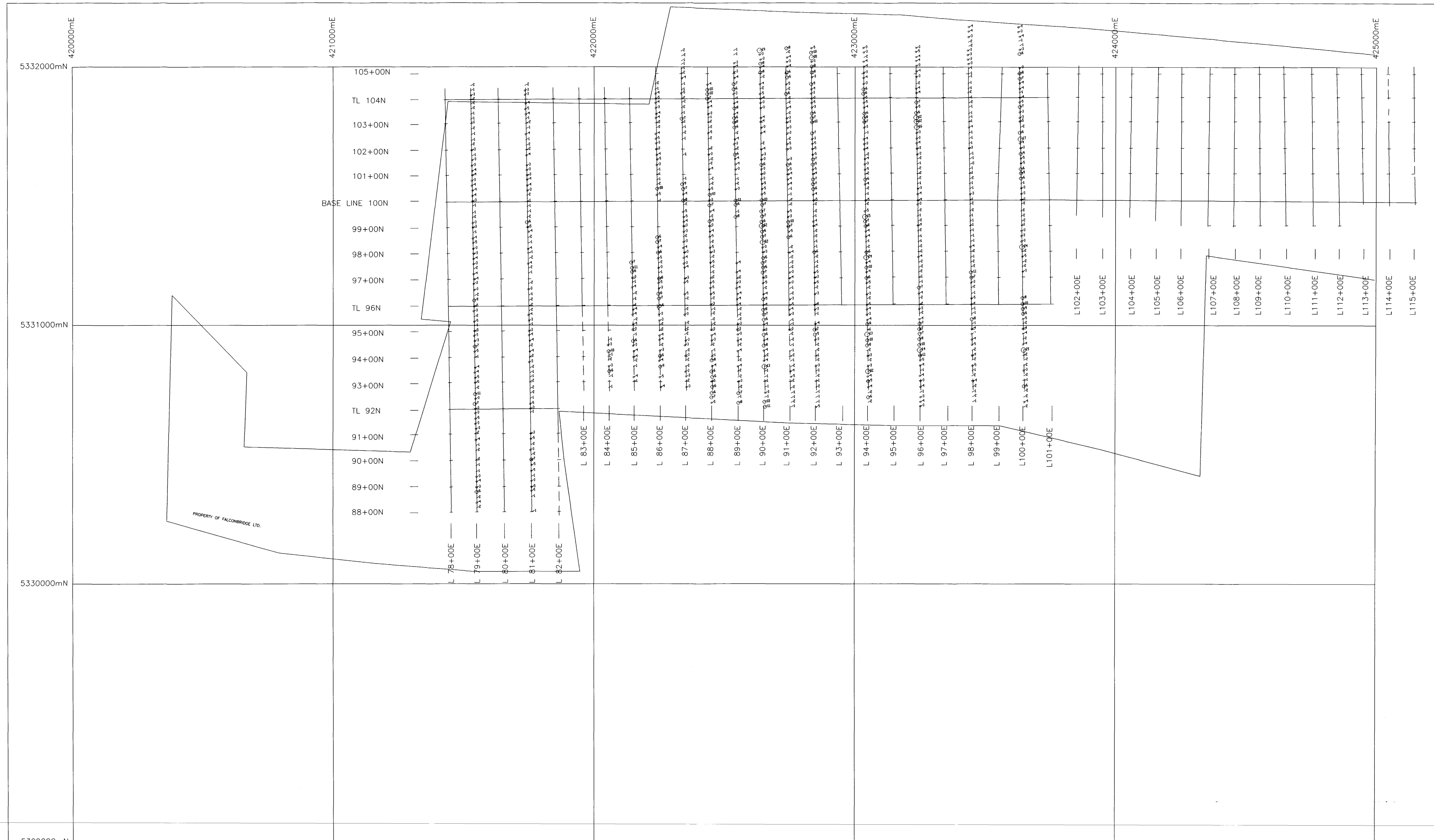
2.14???

FALCONBRIDGE LIMITED

Exploration Division — Timmins ONTARIO

PENHORWOOD/KENOGAMING TWP

HUMUS PARTIAL EXTRACTION SURVEY
COBALT (PPM)

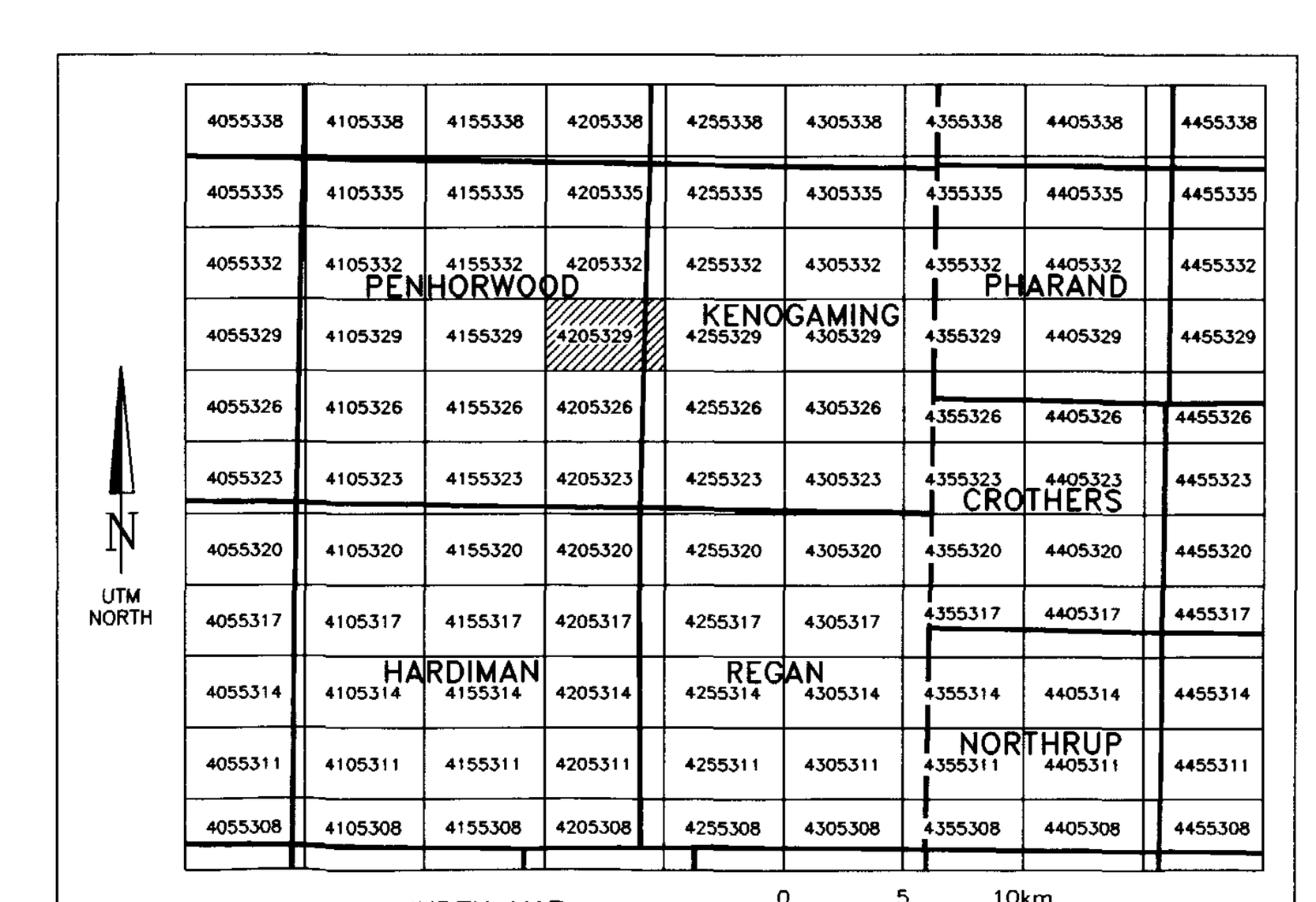


LEGEND

HUMUS PARTIAL EXTRACTION SURVEY
SURVEY DATES: JUNE 9 TO JUNE 24, 1992
ANALYTICAL LAB: TSL/Assayers LAB., Rouyn, P.Q.

SA0045 --- SAMPLE NUMBER
• --- SAMPLE LOCATION

SAMPLE RANGE		SYMBOL
0.0 – 2.0	PPM	⸝
2.1 – 6.0	PPM	⸝
6.1 – 11.0	PPM	⸝
>11.00	PPM	○



ASTRONOMIC
N
SHEET ORIENTED UTM NORTH AZIMUTH 359° 06'

2.14749

FALCONBRIDGE LIMITED
Exploration Division Timmins ONTARIO

PENHORWOOD/KENOGAMING TWP

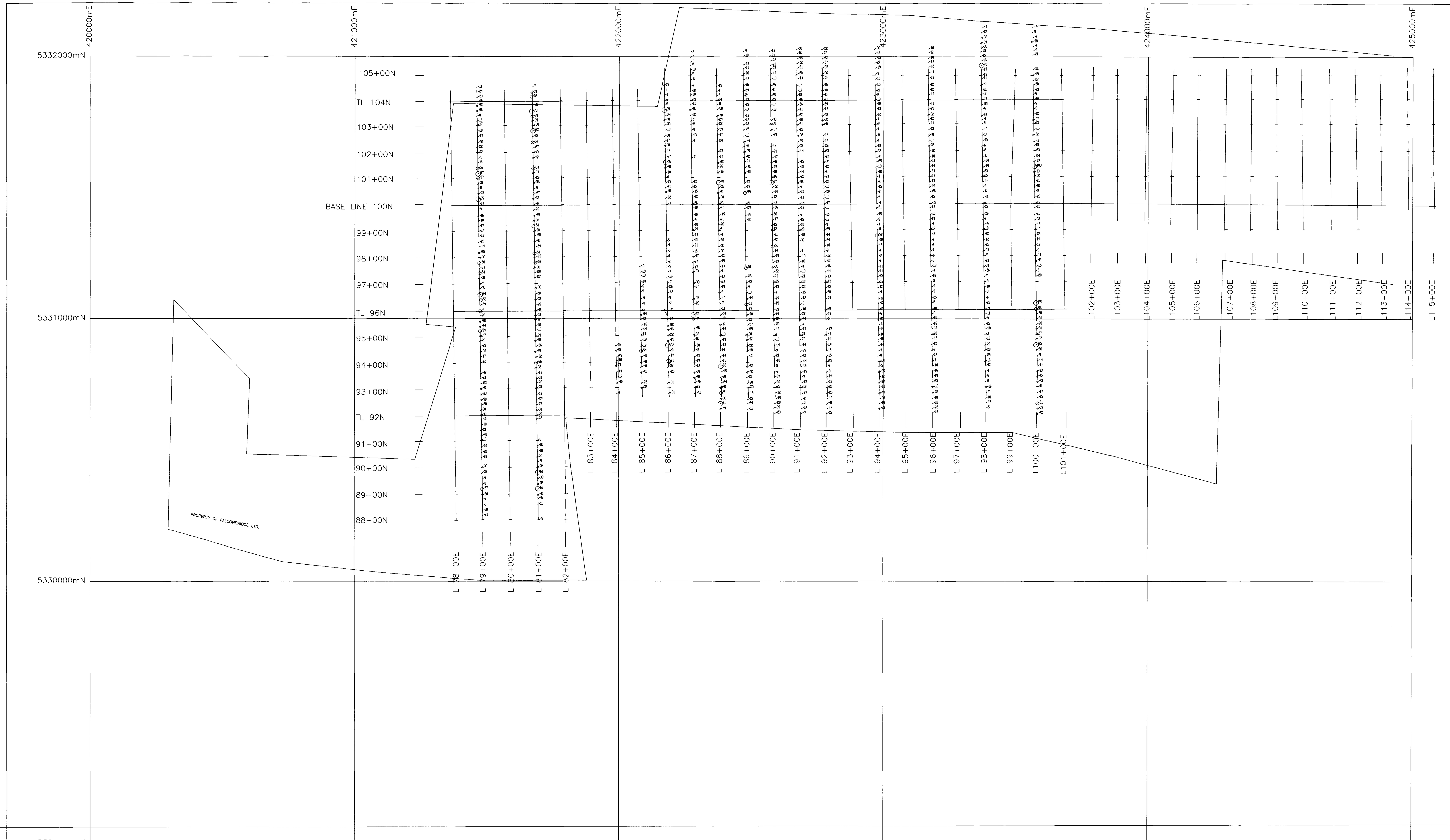
HUMUS PARTIAL EXTRACTION SURVEY
COPPER (PPM)

TRACED: PW	DATE: 08/90	NTS: 42B/01	PROJECT: 8198
DRAWN: I.L.	DATE: 08/09/92	MAP No: 4205329	FILE: CUHUMUS
SUPERVISED: S.C./D.Mc.	DATE: 09/92	SCALE 1:5000 (metres)	
REVISED: I.L.	DATE: 09/92	0 50 100 150 200	

[illegible]

42B01NE0078 2.14749 PENHORWOOD

240



LEGEND

HUMUS PARTIAL EXTRACTION SURVEY

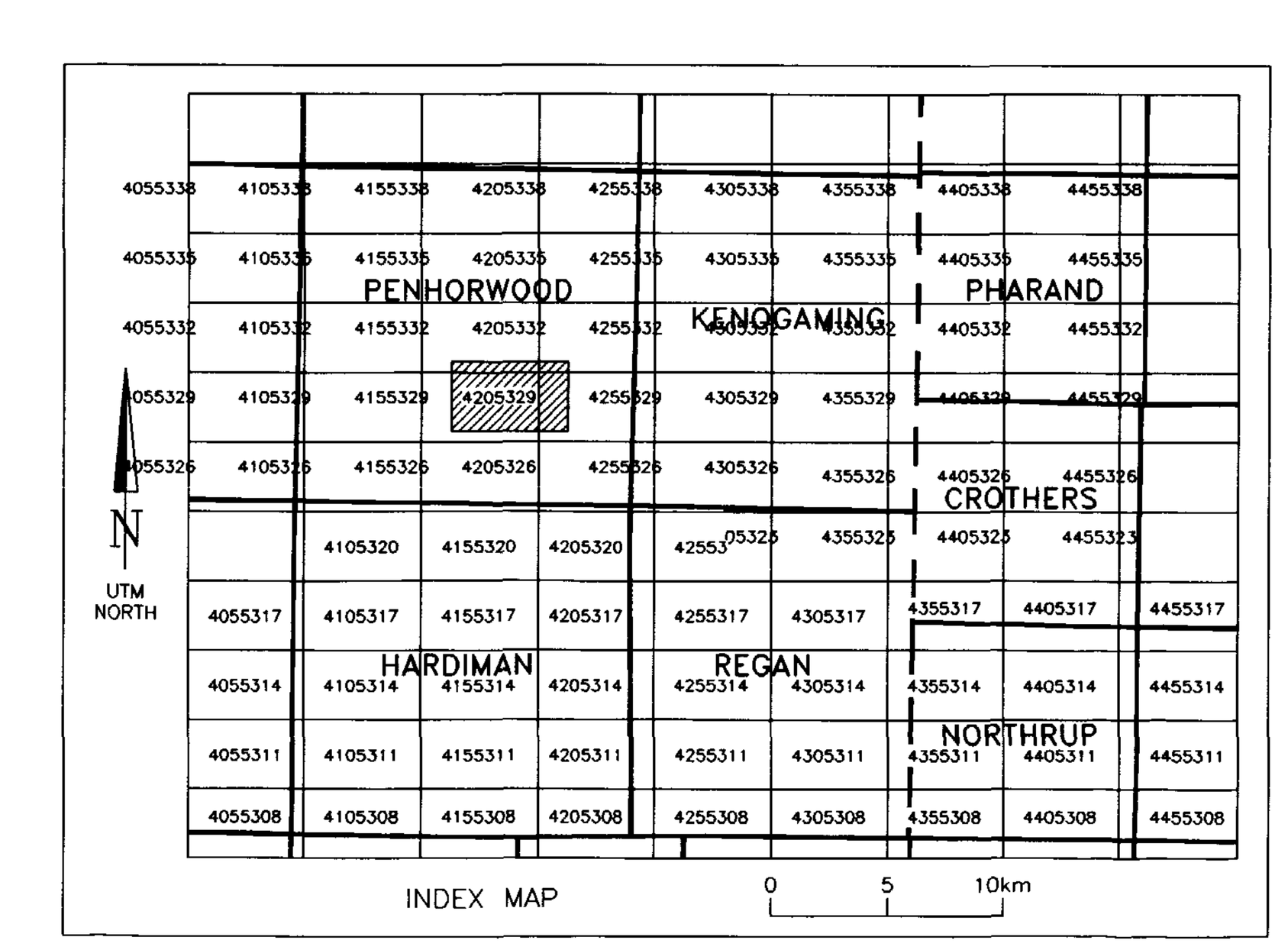
SURVEY DATES: JUNE 9 TO JUNE 24, 1992

ANALYTICAL LAB: TSL/Assayers LAB., Rouyn, P.Q.

SA0045 --- SAMPLE NUMBER

· --- SAMPLE LOCATION

SAMPLE RANGE	SYMBOL
0.0 – 15.0 PPM	⸍
16.0 – 30.0 PPM	⸍
31.0 – 50.0 PPM	⸍
51.0 – 60.0 PPM	⊘
>60.0 PPM	⊖



ASTRONOMIC

N

SHEET ORIENTED UTM NORTH AZIMUTH 359° 06'

2.14749

FALCONBRIDGE LIMITED

Exploration Division Timmins ONTARIO

PENHORWOOD/KENOGAMING TWP

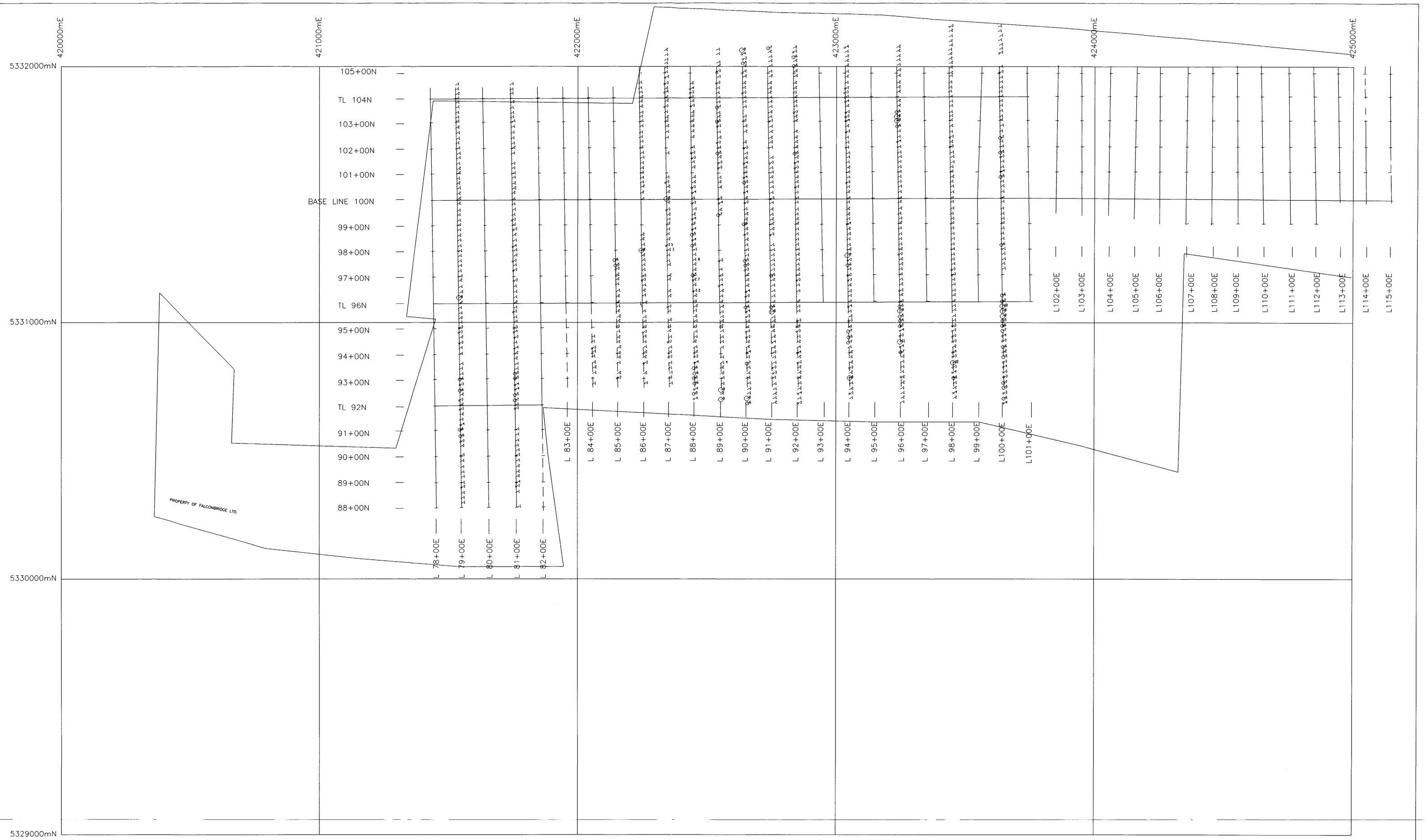
HUMUS PARTIAL EXTRACTION SURVEY

LEAD (PPM)

TRACED:	PW	DATE:	08/90	NTS:	42B/01	PROJECT:	8198
DRAWN:	I.L.	DATE:	08/09/92	MAP No:	4205329	FILE:	
SUPERVISED:	S.C./D.Mc.	DATE:	09/92	SCALE: 1:5000 (metres)			
REVISED:	I.L.	DATE:	09/92	0 50 100 150 200			

PBHUMUS

250



LEGEND

HUMUS PARTIAL EXTRACTION SURVEY

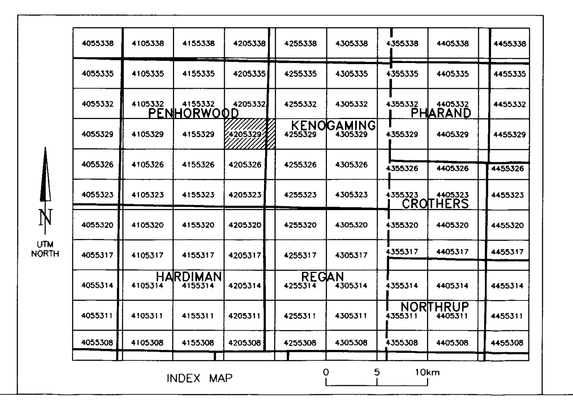
SURVEY DATES: JUNE 9 TO JUNE 24,1992

ANALYTICAL LAB: TSL/Assayers LAB., Rouyn, P.Q.

SA0045 --- SAMPLE NUMBER

• --- SAMPLE LOCATION

SAMPLE RANGE		SYMBOL
0.0 – 2.0	PPM	′
2.1 – 4.0	PPM	″
4.1 – 7.0	PPM	‴
>7.0	PPM	⊙



ASTRONOMIC NORTH

SHEET ORIENTED UTM NORTH AZIMUTH 359° 06'

FALCONBRIDGE LIMITED

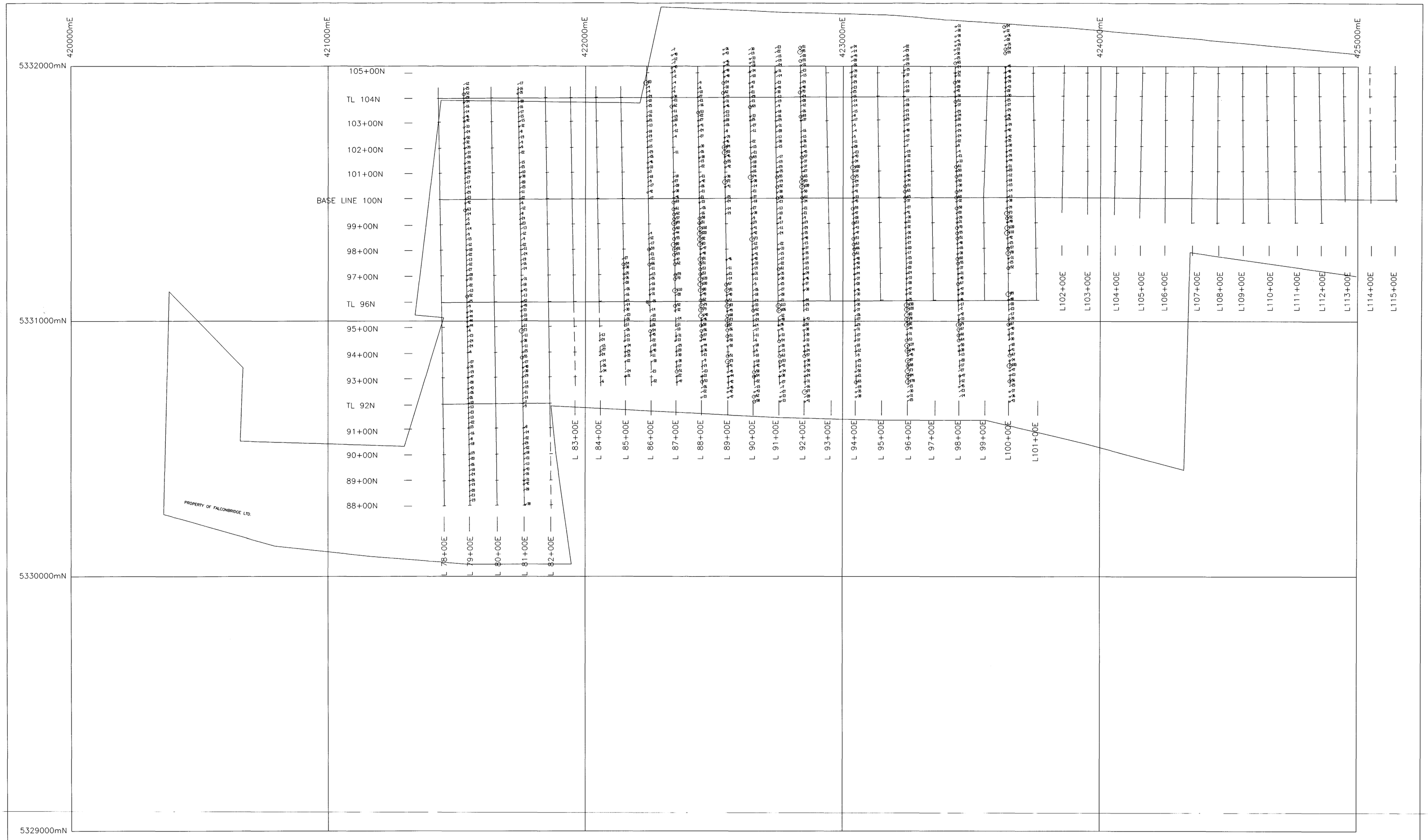
Exploration Division Timmins ONTARIO

PENHORWOOD/KENOGAMING TWP

HUMUS PARTIAL EXTRACTION SURVEY

NICKEL (PPM)

TRACED: PW	DATE: 08/90	NTS: 42B/01	PROJECT: 8198
DRAWN: I.L.	DATE: 08/09/92	MAP No: 4205329	FILE: NIHUMUS
SUPERVISED: S.C./S.Mc.	DATE: 09/92	SCALE: 1:5000 (metric)	
REVISED: I.L.	DATE: 09/92	0 50 100 150 200	



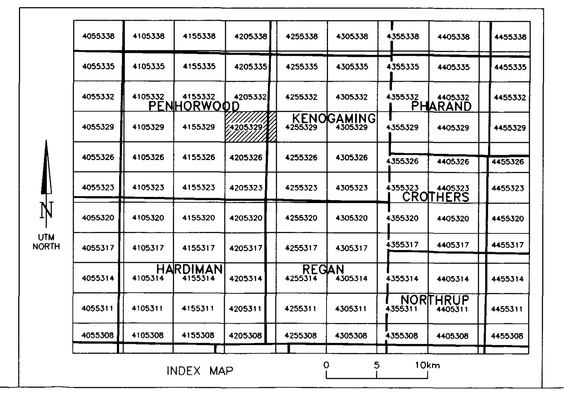
LEGEND

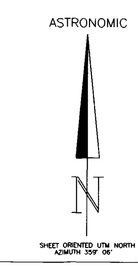
HUMUS PARTIAL EXTRACTION SURVEY

SURVEY DATES: JUNE 9 TO JUNE 24, 1992
ANALYTICAL LAB: TSL/Assayers LAB., Rouyn, P.Q.

SA0045 --- SAMPLE NUMBER
• --- SAMPLE LOCATION

SAMPLE RANGE		SYMBOL
0.0 – 15.0	PPM	
16.0 – 30.0	PPM	
31.0 – 50.0	PPM	
51.0 – 70.0	PPM	
>70.0	PPM	





FALCONBRIDGE LIMITED
Exploration Division Timmins ONTARIO

PENHORWOOD/KENOGAMING TWP

HUMUS PARTIAL EXTRACTION SURVEY
ZINC (PPM)

TRACED: PW	DATE: 08/90	NTS: 42B/01	PROJECT: 8198
DRAWN: I.L.	DATE: 08/09/92	MAP No: 4205329	FILE: ZNHUMUS
SUPERVISED: S.C./D.Mc.	DATE: 09/92	SCALE 1:5000 (metric)	
REVISED: I.L.	DATE: 09/92	0 50 100 150 200	

270