2002 TECHNICAL REPORT

On work performed by
Gordon G Richards
and
Dave Bennett

As partial fulfillment of G Richard's
2002 FOCUSED REGIONAL PROGRAM
under the
YUKON MINING INCENTIVES PROGRAM
Number 02-060

In the
BRADEN AREA
115I/10,11,14 &15

Dated December 8, 2002

By
Gordon G Richards

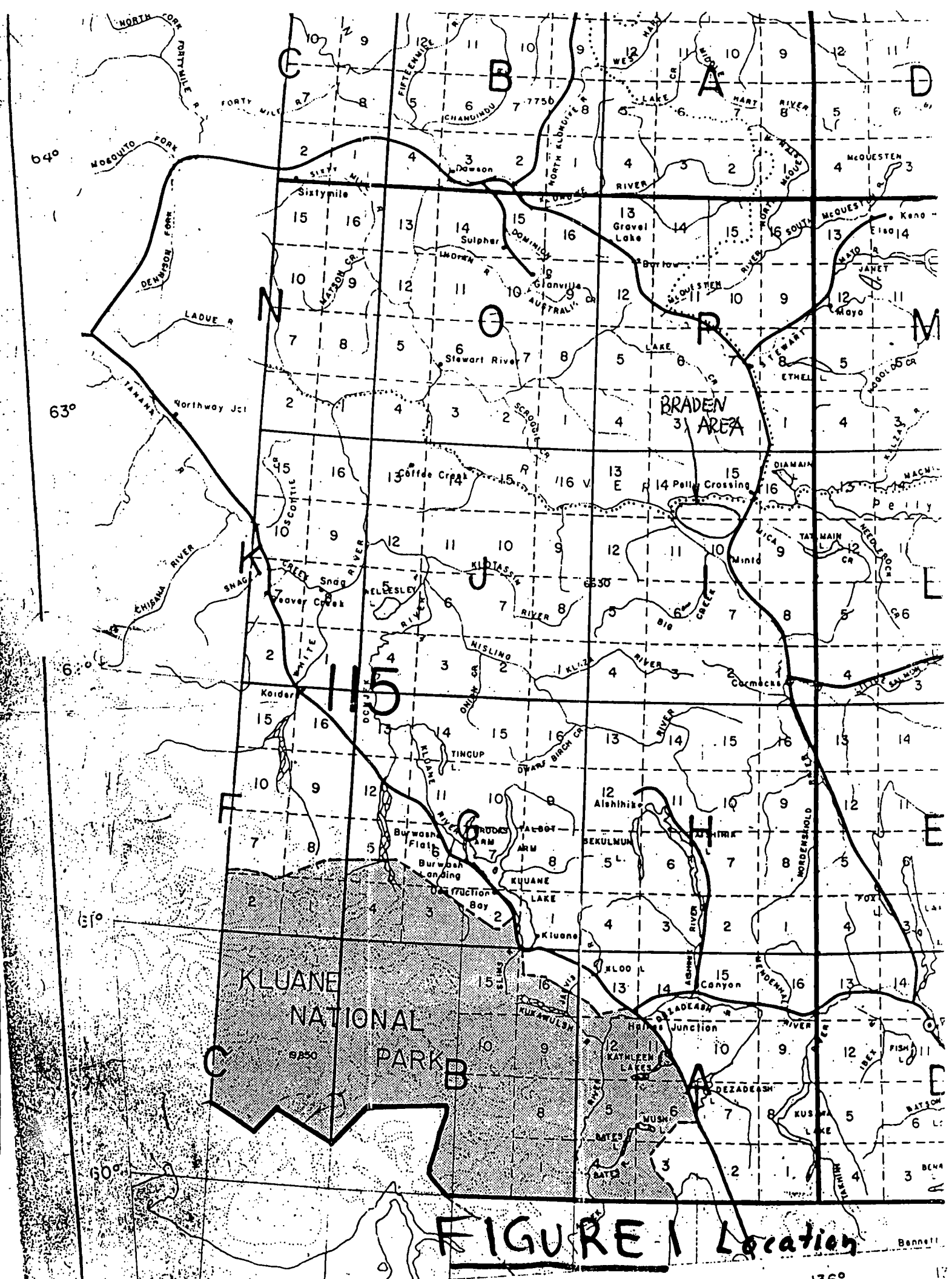


FIGURE 1 Location

The following is a summary of work by G Richards and D Bennett in the Braden Area for 2002. Refer to Figure 1 for location of survey area.

Day	Date	Activity
1	June 8	Cleaned windfalls. ATV to camp on road.
2	9	Dug trench at B108.
3	10	Soil sampled area B.
4	11	Soil sampled area B.
5	12	Soil sampled area B.
6	13	Soil sampled area B.
7	14	Soil sampled area B.
8	15	Flew helicopter to area C. Sampled bark.
9	16	Sampled bark Area C.
10	17	Sampled bark Area C.
11	18	Sampled bark Area C.
12	19	Flew helicopter to Minto. Dug trench at J21.
13	20	Sampled bark and soil sampled Area A.
14	21	Soil sampled Area A. Drove Whitehorse.

Three areas within the Braden Area, labeled Areas A, B, and C, were evaluated by geochemical surveys. Bark, silt, rock, and till samples were collected throughout the area as itemized in the following table.

AREA	Bark	Silt	Rock	Till
A	7		3	69
B			4	115
C	172	2	2	
Totals	179	2	9	184

TOTAL SAMPLES = 374

Locations of all samples are shown on Figure 2 along with locations of all previous year's samples.

Silt samples were collected from running streams by collecting fine sediment with a scoop directly from the stream in order to obtain a sample containing about 100 gm of –80 mesh material for analyses. Samples were collected in appropriately numbered gusseted kraft sample bags.

Rock samples were made of three to seven rock chips from float or outcrop as described in field notes and small enough to fit into gusseted kraft sample bags.

Till samples were collected by auger from depths of up to one and one-half meters usually beneath loess up to one meter deep. Deeper samples were sought to collect material of more local source as colluvium was common and bedrock was believed to be less than two meters deep as demonstrated in the trench at B108 and J21 in areas B and A respectively. Rock fragments were recorded as they appear to mimic underlying or nearby bedrock. As samples were ultimately to be screened to –150 mesh in the lab, one to three kg of till material was collected depending on coarseness of sample and placed into numbered kraft sample bags. Coarser sandy samples required bigger field samples in order to achieve this goal.

Bark samples were collected from black spruce where available or white spruce where black spruce was not available. A few pine bark or willow twigs were collected where spruce was not present. Bark was collected from four to eight inch diameter spruce trees and three to four inch diameter pine trees as noted in field notes. Tree twigs were removed with anvil pruners. Samples were collected at chest height from the total circumference of all trees sampled. Bark was collected into numbered kraft bags using a two-inch wide paint scraper with a funnel made from a paper plate.

Control of sample locations was by hip chain and compass tied to GPS locations and the use of 1:50,000 topo maps. All sample locations were marked with a numbered piece of flagging tied to a nearby tree.

All samples were analyzed at Acme Analytical Laboratories, 852 East Hastings St., Vancouver, B.C. Rock samples were crushed and pulverized, silt samples dried and sieved to –80 mesh, till samples dried and sieved to –150 mesh and bark samples dried and pulverized. Silt samples were analyzed by ICP-MS on a 0.5 gm sample. Rock samples were analyzed by ICP-MS on a 30.0 gm sample. Till samples were analyzed by ICP-ES on a 0.5 gm sample. Bark samples were analyzed by ICP-MS/ES on a 0.5 gm sample. More detailed description of digestion procedures, screening and analyses is provided on analytical result sheets provided in the back of this report.

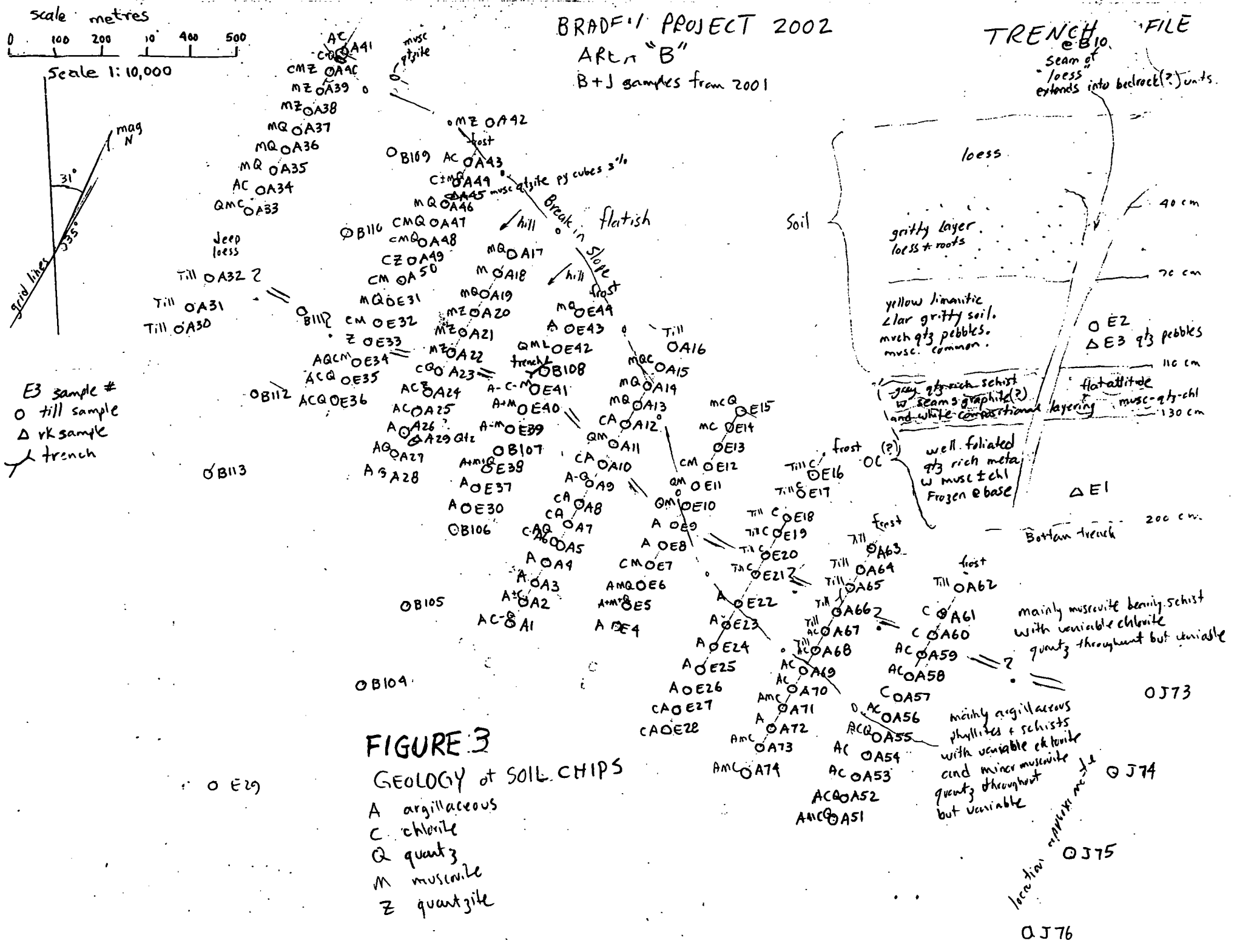


FIGURE 3

GEOLOGY of SOIL CHIPS

A argillaceous
C chlorite
Q quartz
M muscovite
Z quartzite

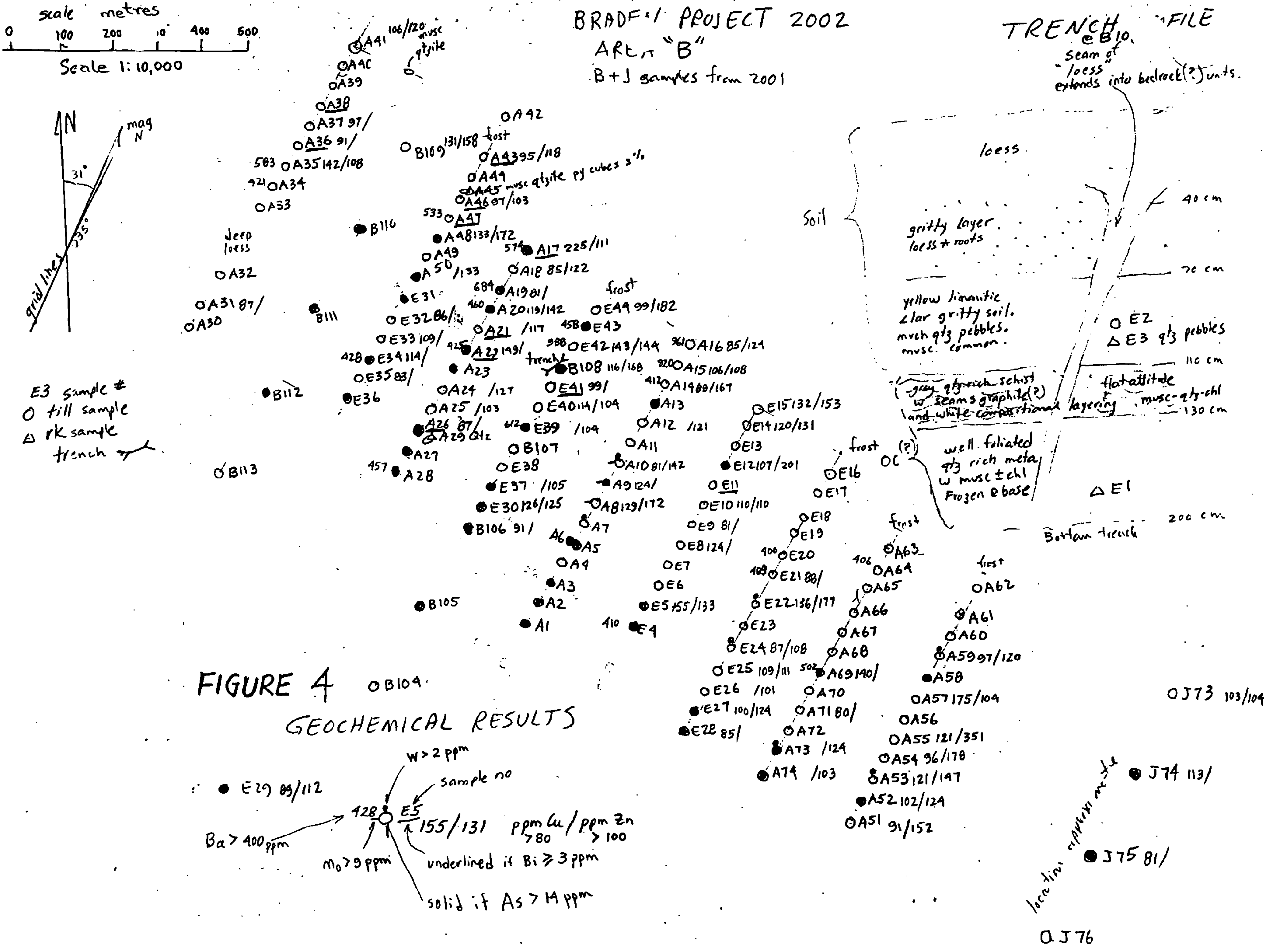


FIGURE 4

GEOCHEMICAL RESULTS

Following is a discussion of the results for areas A, B, and C within the Braden Project Area in the order in which the fieldwork was carried out (B,C,A). On the accompanying maps only results interpreted to be significantly anomalous are shown.

AREA B.

Access to the area was made by ATV from the Klondyke Highway northwest 20 km along the old Pelly Farm access road to where a base camp was established. From there, daily traverses were made two km easterly into the work area.

The area was prospected for Cu-Pb-Zn-Ag-Au mineralization and Au-Ag mineralization with associated As-Sb pathfinder elements. Both element associations were indicated on a previous widely spaced till sample grid. It was hoped that detailed sampling would indicate a more coherent strongly anomalous geochemical pattern indicative of underlying mineralization. No strong positive results were obtained from this area.

Mapping soil chips from the sample holes is summarized on Figure 3. Argillaceous phyllites and schists with variable chlorite and minor muscovite are overlain by muscovite bearing schists with variable chlorite. Foliation in the outcrop in the bottom of the trench at B108 was flat. Quartz chips were common.

Moderately anomalous Cu and lesser Zn occur somewhat scattered throughout the area. Refer to Figure 4. These anomalous values form a crude pattern over the upper portion of the argillaceous phyllites. The values are not high enough to indicate a direct lead to mineralization but could be resulting from mineralization distal to a buried deposit or just due to weak metal concentrations in the original sediments. Au values were all 5 ppb or less. Samples from 2001 were much more anomalous with many values in excess of 10 ppb up to a high of 54 ppb at B108. Ag values were similarly much higher in 2001 results. The only difference in analytical technique was that 2001 samples used a 30 gm sample size compared with a 0.50 gm sample size for the 2002 samples. It is therefore surprising that some 2002 samples did not return similarly high samples as 2001 samples. Arsenic results higher than 15 ppm are shown on Figure 3. All lines have high values from the lowermost (southwesterly) one, two or three samples on each sample line. This

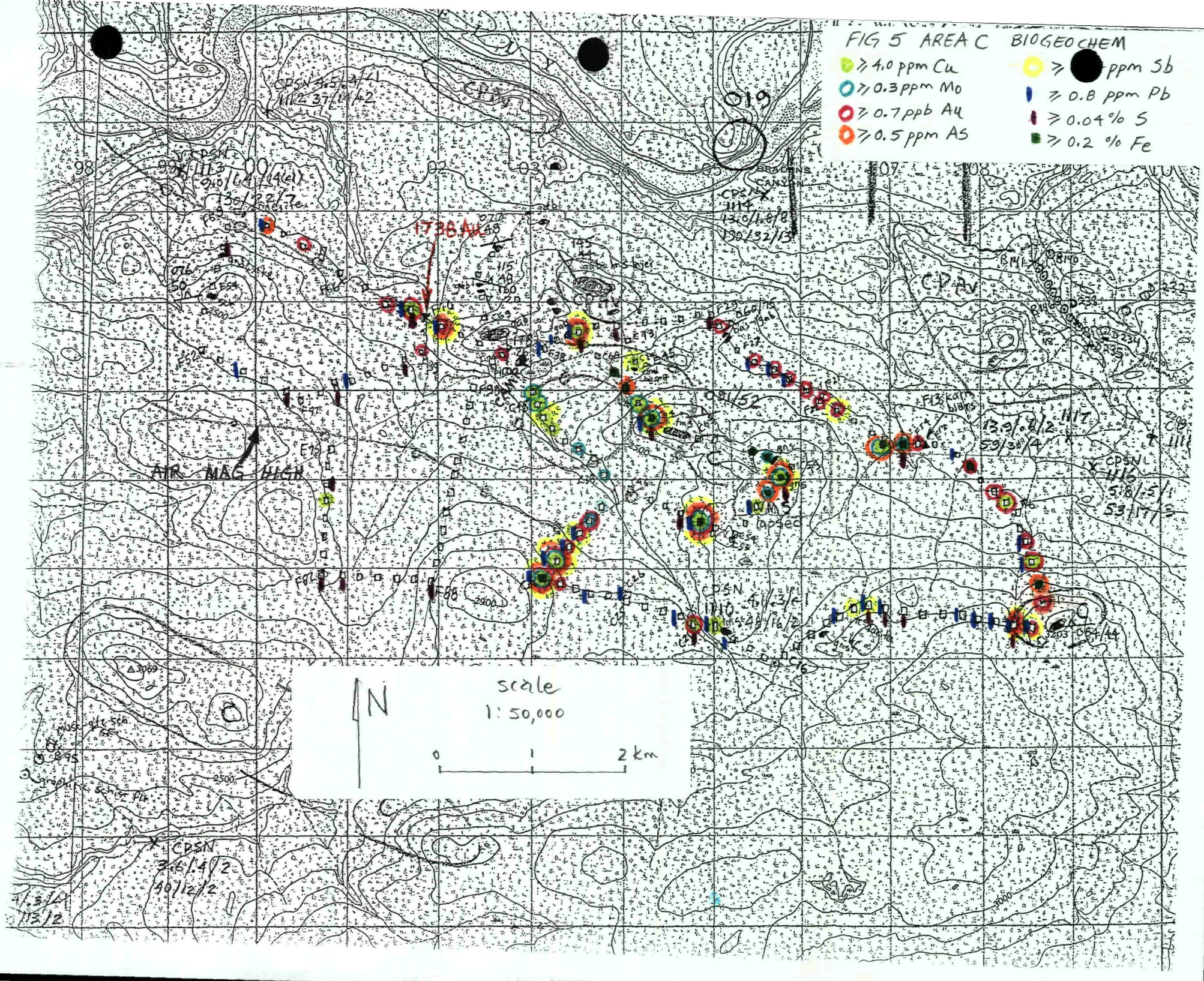


FIG 5 AREA C BIOGEOCHEM
≥ 4.0 ppm Cu
≥ 0.3 ppm Mo
≥ 0.7 ppb Au
≥ 0.5 ppm As
≥ ppm Sb
≥ 0.8 ppm Pb
≥ 0.04 % S
≥ 0.2 % Fe
1736 Au
AIR MAG HIGH
scale
1:50,000
0 1 2 km
N

could be related to underlying mineralization beneath and downslope to the southwest from these samples.

The most interesting geochemical results come from the trench dug at B108. The trench was dug two meters deep into frozen bedrock. A soil profile is drawn on Figures 3 and 4. Soil E2 repeated anomalous values for Zn, Ag, As, and Sb though much lower than 2001 and failed to repeat anomalous values for Cu, Pb, and Au. However, two rock chips, E1 and E3, of quartz rich muscovite-chlorite schist outcrop from the bottom of the trench and quartz pebbles in overlying soil respectively, were anomalous for Au (36, 17 ppb), As (209, 140 ppm), Sb (4, 21 ppm), W (7, 15 ppm), and Cu (100, 108 ppm). Although the values of gold are low they are anomalous and could be indicative of nearby mineralization within the metamorphic rocks which could be satellitic to more intense mineralization located off the current geochemical grid. Some support for this model is provided by anomalous Bi of $\geq$ 3 ppm which form a spotty pattern around the trench in samples E11, E41, A17, A21, A22, A26, A43, A46, A47, A36, and A38.

AREA C.

Access to area C was made by helicopter from area B camp to a lake within area C as shown on Figures 2 and 5. A drop-off on the morning of the move provided a remote starting point for one traverse in the southeast corner of the area.

The area was prospected to search for the source of anomalous Cu, Pb, Zn, and Ag in several RGS samples. Multi-element analyses provided a means of testing for other anomalous metals. Previous sampled areas within the Braden Project Area had been sampled within old forest fire burns on southerly facing slopes where permafrost was not too prevalent. Area C lies within gentle northerly facing forested slopes where permafrost was believed to be much more common. For that reason, biogeochemical sampling was chosen as the sampling method, in particular, sampling of black and white spruce bark.

Previous surveys in the Braden Area provided crude geology maps based on rock chips encountered in till sample holes. In the present survey, geology is based on a few outcrops and angular float encountered along traverse lines as bark sampling provides no geological information. The northernmost outcrops were amphibolite with very minor intercalated massive limestone horizons. The amphibolite is comprised of hornblende and

feldspar with minor phlogopite. Outcrops typically display a marbled texture made from marble-sized clots of hornblende and plagioclase separated by more mafic foliated hornblende and phlogopite wrapping around the "marbles". Limestone outcrops were noted at C1-F1, C20, and C63-C64. Garnet-diopside skarn was noted at F1, greenstone rubble at C13-14 and F59, feldspar-hornblende gneiss outcrop at C58-59, bio-chl schist outcrop at F53, basalt outcrop at F27-28, and dacite rubble at C11-12. Attitudes were 060 to 100 dipping 20 to 60 northerly.

It is well known that biogeochemical sampling provides more subtle anomalous patterns than conventional soil sampling often defined by elements other than those sought. For example, Zn is a common metal that is taken up by vegetation as a necessary component for healthy growth and is not necessarily a reliable indicator of Zn mineralization.

Results of the present survey provide several targets for follow-up prospecting. F13 is a rock sample collected from several garnet-diopside skarn boulders with weak malachite staining and one- percent fine-grained sulphide mineralization. Results are 363 ppm Cu, 18.6 ppb Au, 0.7 ppm Ag, .122 % Ti, 5.1 ppm W and 0.05 ppm Hg. Nearby bark samples, F14-15, contain modest anomalous values for Au, As, Mo, S and Cu. Anomalous values for Au and less so for Mo and Cu occur in samples F1-10 and could be related to dispersion from a more extensive mineralized system associated with the skarn. Given the lack of outcrop in the immediate area, more detailed prospecting of this target is warranted. The skarn is interpreted to indicate an igneous body nearby and a limestone unit, over 50 m thick, lying two km along strike to the west provides a sizeable target for skarn mineralization.

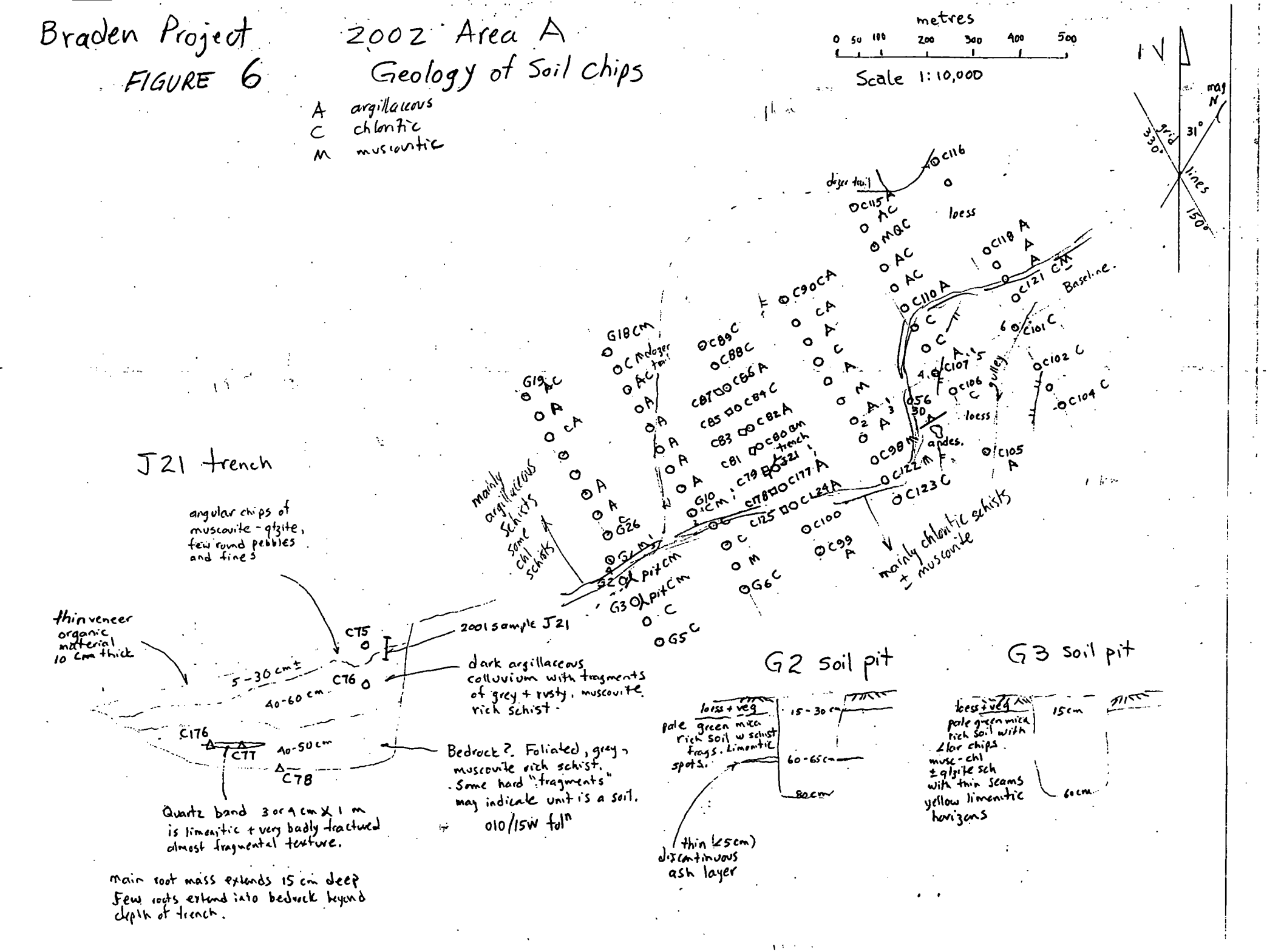
Samples C31-34 yielded multi-element anomalies for Au, Sb, Pb with two samples C31 and 32 also anomalous for Mo, Cu, and As. These samples were collected in some of the biggest timber seen in the survey area on the northeast slope of a pronounced hill.

Silt sample F70, collected one km northwest of camp, yielded 1738 ppb Au, 0.3 ppm Sb and 4.2 ppm As on a 0.5 gm –80 mesh sample. Nearby bark samples F69 and F71 yielded a variety of anomalous values (26.16 ppm Cu, 3.03 ppm Pb, 0.8 ppb Au, 0.04 % S; and 0.93 ppm Pb, 0.5 ppm As, 1.0 ppb Au, and 0.09 ppm Sb respectively)

Braden Project 2002 Area A

FIGURE 6 Geology of Soil chips

A argillaceous
C chloritic
M muscovitic



Braden Project 2002 Area A

FIGURE 7 GEOCHEMISTRY

o till sample

□ white spruce bark sample

break in slope

o C124 ← sample number

98/115 ← Zn ppm if >100

Cu ppm if >80

metres

0 50 100 200 300 400 500

Scale 1:10,000

N

mag N

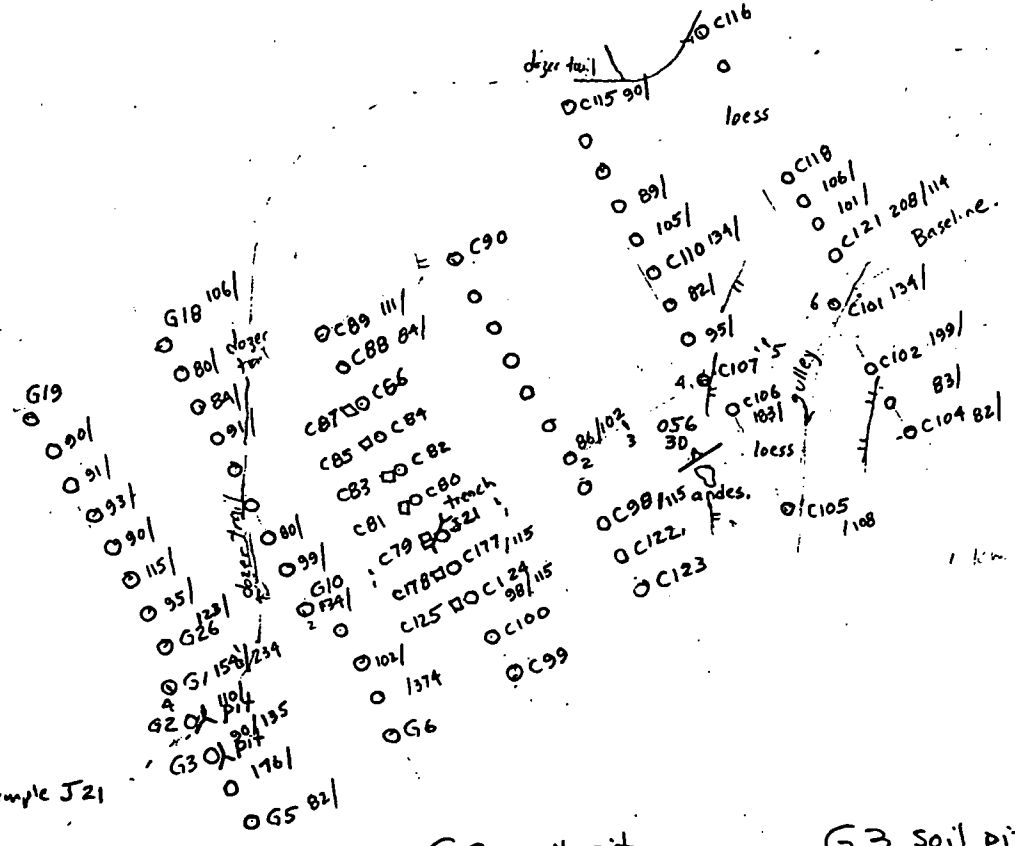
31°

grid

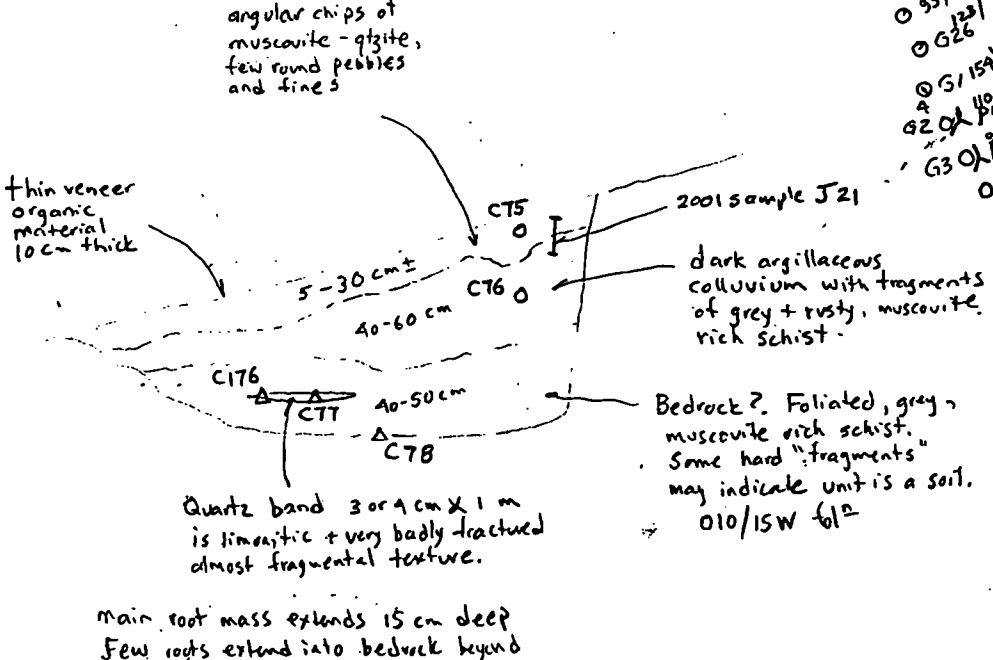
330°

lines

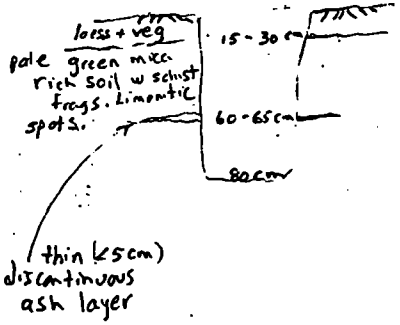
150°



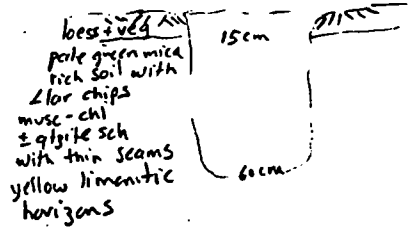
J21 trench



G2 soil pit



G3 soil pit



Several widely spaced multi-element anomalous samples occur on the hills southeast of camp at C51, C57, C58, and C64. These samples are strongly anomalous for Mo, Cu, Pb, Fe, As, and less so for Sb, S and Au. Refer to geochem results at the back of this report. Outcrops of gneiss and limestone occur in the area but no mineralization was noted during the traverse. Skarn mineralization similar to that described above for F13 is a possibility. These samples occur at the east end of an elongate airmag anomaly shown on Figures 2 and 5.

AREA A

Access to the area was made by traverse from the Klondyke Highway between Minto and Pelly Crossing.

The area was prospected to follow-up on anomalous Cu, Pb, Zn Ag and Au in soil sample J21 and in other nearby samples. It was hoped that more detailed sampling would define a coherent geochemical anomaly across the hillside.

Crude geology was defined from soil pits. A lower mainly chlorite schist is overlain by a dark schist with a high argillaceous component. Muscovite and muscovitic quartzite chips are common in many soil pits within the upper unit. A thin ash layer was noted in a few soil pits, as were limonitic chips.

Results were disappointing. At J21 a trench encountered grey muscovite rich schist bedrock at one-half meter depth. Refer to section provided on Figures 6 and 7. Rock samples of schist and quartz within the trench all returned low values for base and precious metals. Some moderately anomalous values for Cu and Zn are shown on Figure 5 and a few spotty highs for As and Ag can be noted in the results at the back of this repot.

CONCLUSIONS AND RECOMMENDATIONS.

Areas A, B, and C within the Braden Area were all prospected as outlined in the YMIP proposal. Till sampling was used in Areas A and B. Biogeochemical sampling was used in Area C because permafrost was known to be common from a previous traverse in the general area. Results were discouraging for areas A and B although some additional prospecting is probably warranted within area B.

Area C provided the best results and several targets have been identified for additional prospecting. Garnet-diopside skarn boulders with malachite staining and about

one percent disseminated pyrite returned anomalous values as follows: 363 ppm Cu, 18.6 ppb Au, 0.7 ppm Ag, 5.1 ppm W, 0.05 ppm Hg. Nearby bark samples provide some anomalous geochemical support to this target. There are limestone units in the general area, the closest of which lies two km along strike to the west where some other multi-element anomalous samples occur. The area where the boulders were found is a very gentle north facing slope drained by a north flowing creek that was anomalous for As, Sb, Au, Cu , Pb and Zn in a RGS silt sample .

Three other clusters of bark samples with anomalous metals define areas warranting further prospecting. These are: 1- samples C31-34; 2- samples C50, C57, C58 ans C64; and 3- samples F69-71. The silt, F70, that returned a value of 1738 ppb Au on a 0.5 gm sample should be rerun using a 15 or 30 gm sample size before the next phase of prospecting.

Next phase of prospecting near these samples should include biogeochemical sampling where the ground is frozen and till sampling where the ground is thawed. Till sampling is preferred as it is more direct and soil chips reveal some geological information.

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GEOCHEMICAL ANALYSIS CERTIFICATE

Richards, Gordon PROJECT BRADEN File # A203847 2002

6410 Holly Park Drive, Delta BC V4K 4W6 Submitted by: Gordon Richards

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
SI	.1	.6	3.5	<1	<.1	.2	<.1	4	.03	<.5	<.1	1.8	<.1	2	<.1	<.1	<.1	<1	.14	<.001	<1	<1	<.01	4	<.001	1	.01	.460	.01	.2	.01	.1	<.1	<.05	<1
A29 b Gtz	3.6	1.2	.4	1	<.1	1.4	.2	39	.27	1.7	<.1	1.0	<.1	<1	<.1	<.1	<.1	1	.01	.001	<1	24.4	<.01	4	<.001	2	.01	<.001	<.01	5.8	.01	<.1	<.1	<.05	<1
A45 b Gtz	1.9	19.0	2.3	8	<.1	15.9	2.9	404	.76	2.9	.1	.9	.7	6	<.1	.1	<.1	9	.37	.034	4	16.5	.02	122	.001	1	.08	.013	.05	7.4	<.01	1.3	<.1	<.05	<1
C77A trench Qtz	6.6	8.6	7.7	9	.1	23.6	2.7	347	.74	1.7	.2	.5	.9	45	.1	.1	.2	7	1.47	.005	3	40.8	.31	38	.001	2	.08	.007	.03	7.4	<.01	1.3	.1	<.05	<1
C78A trench QC	10.1	32.7	15.8	100	.1	174.9	17.4	1409	3.64	.5	.8	<.5	3.5	100	.6	.1	.2	61	4.73	.030	16	262.0	3.76	74	.005	3	1.47	.009	.09	.6	<.01	8.2	.3	<.05	6
C176A-trench Qtz	13.5	34.0	31.7	180	.1	616.4	40.9	1285	3.68	78.7	.3	<.5	2.1	52	1.8	.1	.6	65	1.88	.047	12	580.3	3.97	25	.007	1	2.16	.007	.01	.5	.01	5.6	.3	<.05	7
E1 B-trench	9.6	99.5	9.3	87	.5	180.7	21.2	540	3.28	208.7	.6	36.0	3.6	31	.5	3.9	.2	17	.63	.029	11	33.3	.16	264	.001	2	.39	.002	.15	6.6	.01	4.8	.1	<.05	1
E3 B-trench	5.2	107.6	8.4	66	17.0	103.4	6.2	468	1.83	139.5	.3	16.6	.6	157	.6	20.7	.4	14	3.66	.004	2	65.2	1.08	116	.001	3	.14	.003	.07	15.3	.01	4.2	<.1	<.05	1
E45 C-chips	7.2	43.3	7.4	111	.4	292.9	39.1	1398	6.92	20.8	1.9	2.1	2.5	26	.4	2.0	.1	82	.55	.163	10	452.8	.55	228	.004	3	1.72	.028	.23	4.4	.20	8.2	.1	<.05	7
F13 C-skarn	1.9	363.1	1.6	14	.7	21.5	2.2	62	2.84	.8	.3	18.6	.8	50	<.1	.6	<.1	82	1.58	.401	8	124.7	.12	19	.122	3	.66	.060	.05	5.1	.05	5.5	<.1	<.05	4
STANDARD	6.7	121.4	31.9	137	.3	33.6	11.6	800	3.36	20.7	6.5	24.4	3.4	23	5.0	5.1	5.4	73	.54	.088	15	159.8	.54	140	.095	2	1.63	.032	.16	4.0	.29	3.8	1.1	.09	6

Standard is STANDARD DS4.

GROUP 1DA - 30.0 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP-MS.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: ROCK R150

DATE RECEIVED: SEP 17 2002 DATE REPORT MAILED: Sept 27/02 SIGNED BY. C. Leong D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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

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GEOCHEMICAL ANALYSIS CERTIFICATE

Richards, Gordon PROJECT BRADEN File # A203848 Page 1

6410 Holly Park Drive, Delta BC V4K 4W6 Submitted by: Gordon Richards

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
G-1	1	1	<3	39	<.3	6	4	516	1.77	<2	<8	<2	4	86	<.5	<3	<3	43	.60	.092	8	46	.52	211	.13	<3	.92	.08	.45	<2
A1	9	82	6	99	<.3	226	21	684	3.98	55	<8	<2	5	41	<.5	<3	<3	64	.95	.055	12	125	1.11	243	.02	3	1.19	.01	.06	<2
A2	5	57	4	69	.3	81	12	481	2.83	24	<8	<2	3	78	<.5	<3	<3	51	2.72	.062	10	31	.44	261	.03	<3	.72	.02	.06	<2
A3	4	61	7	85	.3	133	21	1175	3.28	20	<8	<2	4	31	<.5	<3	<3	66	.77	.083	14	87	1.11	395	.05	<3	1.56	.01	.07	<2
A4	4	89	4	122	.3	245	27	1126	4.11	<2	<8	<2	4	127	.9	<3	<3	94	4.97	.053	21	175	3.32	220	.03	<3	2.40	.01	.06	<2
A5	2	40	6	44	<.3	361	20	376	2.92	24	<8	<2	4	44	<.5	<3	<3	68	.94	.030	16	317	1.92	171	.05	4	1.16	.01	.06	<2
A6	1	29	<3	42	<.3	1386	81	538	3.61	75	<8	3	<2	89	<.5	<3	<3	48	3.56	.013	1	1433	8.62	178	<.01	9	.84	.01	.02	<2
A7	7	39	9	70	<.3	261	17	472	3.58	12	<8	<2	9	21	<.5	<3	<3	76	.36	.052	18	526	3.88	107	.06	<3	2.74	.01	.06	4
A8	14	429	3	172	<.3	371	37	1058	5.73	<2	<8	<2	4	17	<.5	<3	<3	139	.43	.094	7	455	4.19	124	.01	<3	3.30	<.01	.04	<2
A9	12	124	10	89	.4	236	32	1379	4.97	116	<8	<2	5	46	<.5	<3	<3	34	1.40	.042	14	52	.46	256	.01	<3	.78	<.01	.08	<2
A10	10	81	12	142	<.3	291	25	1288	5.00	2	<8	<2	6	19	<.5	<3	<3	104	.33	.046	15	231	3.01	228	.04	<3	2.81	.01	.06	4
A11	6	69	8	73	<.3	70	9	105	2.47	3	<8	<2	2	67	<.5	<3	<3	19	3.52	.030	4	26	.16	287	.01	<3	.47	<.01	.09	<2
A12	2	60	<3	121	<.3	189	22	647	4.53	<2	<8	<2	2	19	<.5	<3	<3	103	.43	.097	4	254	3.99	131	.02	<3	2.99	<.01	.05	<2
A13	4	69	3	74	<.3	118	15	596	2.78	109	<8	<2	6	87	<.5	<3	<3	15	4.59	.042	17	27	.18	334	<.01	<3	.37	<.01	.07	<2
A14	3	89	<3	167	<.3	465	60	1728	7.88	<2	<8	<2	3	19	.8	<3	<3	163	.56	.067	7	489	5.63	412	.06	<3	4.24	.01	.03	<2
A15	1	106	4	108	<.3	254	15	271	2.44	3	<8	<2	3	84	<.5	<3	<3	66	5.29	.053	7	232	2.04	820	.02	<3	1.80	.01	.04	<2
A16	5	85	9	124	<.3	140	12	224	3.45	3	<8	<2	5	104	<.5	<3	<3	51	4.85	.035	22	87	.70	961	.01	<3	1.08	<.01	.07	<2
A17	1	225	<3	111	.3	170	36	1933	5.97	18	<8	<2	4	39	<.5	<3	4	107	.59	.098	20	72	.35	574	.01	<3	.80	<.01	.06	<2
A18	3	85	7	122	<.3	455	28	489	3.68	7	<8	<2	4	24	<.5	<3	<3	107	.47	.075	9	388	3.21	192	.05	<3	2.33	.01	.04	<2
A19	7	81	6	99	.3	234	23	700	3.38	19	<8	<2	4	109	<.5	<3	<3	22	2.91	.033	10	36	.17	684	.01	<3	.43	<.01	.07	<2
A20	6	119	9	142	<.3	339	30	446	5.03	43	<8	<2	5	32	<.5	<3	<3	75	.28	.047	14	115	.28	460	.02	<3	.77	<.01	.08	<2
A21	5	76	10	117	<.3	252	20	390	3.31	6	<8	<2	4	91	<.5	<3	3	59	5.24	.045	2	121	1.39	297	.02	<3	1.39	.01	.07	<2
A22	2	149	8	63	<.3	82	25	500	2.14	15	<8	<2	3	43	<.5	<3	3	16	1.88	.030	7	14	.15	425	<.01	<3	.55	<.01	.08	<2
RE A22	2	154	9	64	<.3	85	25	500	2.18	18	<8	<2	3	45	<.5	<3	<3	18	1.96	.032	7	13	.15	439	.01	<3	.57	<.01	.09	<2
A23	5	79	10	88	<.3	238	20	496	3.63	56	<8	<2	5	25	<.5	<3	<3	46	.36	.060	13	89	.55	225	.02	<3	.96	<.01	.08	<2
A24	5	77	6	127	<.3	195	17	402	3.47	4	<8	<2	5	15	<.5	<3	<3	48	.24	.041	7	114	1.65	171	<.01	<3	1.58	<.01	.07	<2
A25	7	79	7	103	<.3	190	16	1366	3.19	3	<8	<2	5	27	<.5	<3	<3	65	.30	.046	11	121	1.95	258	.01	<3	1.90	<.01	.07	<2
A26	7	87	6	86	<.3	175	24	421	4.56	98	<8	<2	6	17	<.5	4	3	39	.23	.049	19	44	.29	131	.02	<3	.84	.01	.13	<2
A27	3	52	5	65	<.3	260	21	522	2.97	28	<8	<2	4	23	<.5	<3	<3	59	.36	.042	14	163	1.26	147	.04	<3	1.13	.01	.06	<2
A28	1	64	<3	29	.5	954	57	427	2.34	34	<8	<2	<2	198	<.5	<3	<3	35	9.72	.039	1	626	6.47	457	.01	7	.57	.01	.02	<2
A30	2	69	3	54	<.3	82	16	470	3.02	10	<8	<2	3	62	<.5	<3	<3	79	2.16	.078	16	71	.97	344	.10	3	1.46	.02	.10	<2
A31	2	87	4	68	.5	113	18	513	3.20	10	<8	<2	5	30	<.5	<3	<3	81	.61	.068	25	99	1.09	243	.11	<3	1.68	.01	.18	<2
A32	2	49	4	62	<.3	93	14	444	3.18	14	<8	<2	5	33	<.5	<3	<3	84	.73	.083	15	72	.84	283	.07	3	1.23	.02	.08	<2
A33	2	61	8	67	<.3	90	17	583	3.31	13	<8	<2	5	29	<.5	<3	<3	82	.52	.055	17	67	.81	356	.07	<3	1.58	.01	.08	<2
A34	3	68	<3	95	<.3	182	23	738	3.88	14	<8	<2	5	38	<.5	<3	<3	87	1.38	.059	13	123	1.41	421	.06	<3	1.73	.01	.07	<2
STANDARD DS4	8	130	29	162	.3	39	12	765	3.15	25	<8	<2	4	27	5.3	6	6	83	.56	.088	17	157	.59	144	.09	<3	1.79	.03	.16	4

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SOIL S150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 17 2002 DATE REPORT MAILED: Sept 25/02 SIGNED BY.. D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
G-1	2	2	<3	39	<.3	6	4	518	1.77	<2	<8	<2	4	87	<.5	<3	<3	43	.61	.090	8	49	.50	207	.13	3	.91	.08	.43	<2
A35	<1	142	6	108	<.3	114	24	1145	4.46	6	<8	<2	6	18	<.5	<3	<3	86	.36	.043	25	92	1.18	583	.03	<3	1.91	<.01	.12	<2
A36	1	91	9	79	<.3	107	21	835	3.86	7	<8	<2	5	23	<.5	<3	3	66	.29	.038	20	66	.38	381	.03	3	1.13	.01	.15	<2
A37	3	97	6	94	<.3	112	19	592	4.26	12	<8	<2	4	18	<.5	<3	<3	70	.19	.029	15	53	.25	353	.03	<3	.97	<.01	.12	<2
A38	2	43	5	55	<.3	59	13	416	2.96	10	<8	<2	3	22	<.5	<3	3	64	.26	.044	14	41	.34	348	.05	3	1.05	.01	.09	<2
A39	1	22	4	43	<.3	31	9	358	2.35	5	<8	<2	2	20	<.5	<3	<3	63	.25	.043	10	35	.35	372	.06	<3	1.06	.01	.10	<2
A40	2	31	9	52	<.3	47	11	307	2.70	12	<8	<2	3	19	<.5	<3	<3	64	.23	.026	11	42	.32	262	.05	<3	.99	.01	.09	<2
A41	7	106	9	120	<.3	279	28	786	4.11	<2	<8	<2	4	21	<.5	<3	<3	67	.49	.047	21	69	.24	273	.01	3	.68	.01	.08	<2
A42	1	32	8	52	<.3	33	9	303	2.44	6	<8	<2	3	19	<.5	<3	<3	58	.26	.029	13	34	.44	302	.05	<3	1.45	.01	.07	<2
A43	5	95	6	18	<.3	250	27	522	3.66	<2	<8	<2	4	55	<.5	<3	3	74	2.20	.062	12	120	.24	267	.01	3	.60	.01	.08	<2
A44	2	77	6	82	<.3	116	16	508	3.40	6	<8	<2	3	32	<.5	<3	<3	77	.56	.048	17	102	1.06	380	.06	<3	1.56	.01	.07	<2
A46	2	97	9	103	<.3	127	21	1042	4.25	3	<8	<2	7	22	<.5	<3	3	62	.35	.056	26	59	.37	391	.01	<3	.97	.01	.07	<2
A47	1	35	6	49	<.3	33	10	290	2.72	7	<8	<2	4	21	<.5	<3	4	55	.34	.045	17	33	.38	360	.05	<3	1.23	.01	.07	<2
A48	8	133	10	172	5	394	32	1126	5.49	171	<8	<2	4	70	.6	3	<3	41	3.57	.057	10	75	.25	533	<.01	3	.71	.01	.10	<2
A49	3	70	6	76	<.3	144	16	413	3.23	10	<8	<2	4	33	<.5	<3	<3	73	.42	.056	15	68	.38	302	.05	3	1.00	.01	.07	<2
A50	5	79	6	133	<.3	564	45	494	3.86	29	<8	2	3	31	<.5	<3	<3	92	1.20	.043	7	447	3.12	239	.04	<3	2.48	<.01	.05	<2
A51	4	91	5	152	4	307	36	750	5.57	4	<8	<2	3	24	<.5	<3	<3	103	.42	.047	11	263	3.27	315	.05	<3	2.83	<.01	.06	<2
A52	7	102	16	124	.3	346	30	919	4.83	198	<8	<2	4	19	<.5	<3	<3	38	.35	.055	22	108	.56	196	.01	<3	1.20	.01	.10	<2
RE A52	7	104	16	128	.4	355	31	944	4.95	203	<8	<2	4	20	<.5	<3	<3	39	.36	.056	23	111	.57	204	.02	4	1.22	<.01	.11	<2
A53	5	121	10	147	<.3	371	40	785	5.96	3	<8	<2	4	19	.5	<3	<3	126	.47	.052	17	181	2.85	190	.12	<3	2.60	<.01	.14	4
A54	13	96	12	178	<.3	249	22	717	4.89	8	<8	<2	5	23	<.5	<3	<3	68	.37	.086	31	133	2.09	134	<.01	<3	2.29	<.01	.08	<2
A55	13	121	8	351	.3	1140	95	930	5.91	3	<8	3	5	33	<.5	<3	<3	184	.67	.030	23	457	4.35	269	.13	<3	3.61	<.01	.11	<2
A56	12	63	15	72	<.3	100	13	276	3.31	2	<8	<2	6	50	<.5	<3	<3	40	.21	.058	23	45	.47	152	.01	3	1.02	<.01	.12	<2
A57	1	175	<3	104	.6	114	36	1572	8.01	14	<8	<2	2	57	.5	<3	<3	269	2.42	.077	10	191	3.81	137	.01	<3	4.22	<.01	.03	<2
A58	3	79	9	68	.3	108	15	513	2.81	46	<8	<2	3	39	<.5	<3	<3	58	.57	.036	13	67	.73	319	.05	3	1.30	.02	.07	<2
A59	3	97	3	120	<.3	214	24	746	4.20	6	<8	<2	<2	21	<.5	<3	<3	100	.31	.053	6	247	3.21	181	.02	<3	2.62	<.01	.05	4
A60	2	48	7	58	<.3	86	12	709	2.74	14	<8	<2	2	158	.8	<3	<3	58	6.76	.109	15	55	2.93	271	.05	3	1.15	.01	.08	<2
A61	3	66	4	85	<.3	105	17	608	3.15	13	<8	<2	3	56	<.5	<3	<3	68	2.44	.084	15	86	.98	324	.08	3	1.50	.01	.11	<2
A62	2	53	6	70	<.3	84	15	579	2.75	10	<8	<2	3	50	<.5	<3	<3	68	2.05	.094	15	81	.93	298	.08	3	1.44	.02	.14	<2
A63	1	60	4	77	<.3	99	17	605	2.82	7	<8	<2	3	52	.6	<3	<3	70	2.56	.104	15	96	1.09	335	.09	4	1.60	.01	.17	<2
A64	2	60	5	80	<.3	100	17	574	2.92	11	<8	<2	3	55	<.5	<3	<3	73	2.56	.105	15	95	1.10	406	.10	3	1.64	.02	.16	<2
A65	2	58	5	76	<.3	97	16	599	2.90	12	<8	<2	4	53	<.5	<3	<3	66	2.00	.088	16	83	.98	339	.07	3	1.50	.01	.13	<2
A66	2	64	6	69	<.3	83	15	404	2.97	8	<8	<2	2	51	<.5	<3	<3	77	2.01	.070	13	65	.86	318	.07	3	1.36	.01	.10	<2
A67	2	59	5	67	<.3	91	16	580	2.88	11	<8	<2	3	59	<.5	<3	<3	69	2.55	.078	17	80	.92	314	.08	<3	1.48	.02	.09	<2
A68	5	63	5	61	<.3	69	15	594	2.85	6	<8	<2	2	102	.5	<3	<3	42	4.17	.069	12	37	.63	376	.02	3	.91	.01	.08	<2
STANDARD DS4	7	129	32	162	<.3	38	11	769	3.12	24	<8	<2	3	28	5.4	5	5	84	.56	.089	17	164	.58	148	.09	4	1.77	.03	.16	4

Sample type: SOIL S150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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Data ✓ FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
G-1	2	1	<3	38	<.3	6	4	473	1.78	<2	<8	<2	6	86	<.5	<3	<3	43	.63	.092	9	49	.49	197	.12	3	.89	.08	.40	<2
A69	4	140	4	43	.3	113	10	177	1.62	40	<8	<2	3	121	<.5	<3	<3	13	6.12	.073	13	22	.28	423	<.01	<3	1.50	.02	.07	<2
A70	7	69	10	77	<.3	145	15	584	3.20	6	<8	<2	5	28	<.5	<3	<3	66	.46	.051	16	92	1.07	219	.04	<3	1.42	.01	.07	<2
A71	9	80	9	90	<.3	188	20	677	4.18	14	<8	<2	7	16	<.5	<3	<3	37	.26	.070	22	76	.95	140	<.01	<3	1.20	<.01	.08	<2
A72	6	59	12	98	<.3	229	19	476	3.44	3	<8	<2	9	17	<.5	<3	<3	54	.23	.045	28	220	1.76	95	.01	<3	1.88	<.01	.08	<2
A73	3	35	10	124	.3	626	43	678	4.01	47	<8	4	2	69	.7	<3	<3	102	5.20	.038	4	502	4.10	167	.04	<3	2.61	<.01	.02	8
A74	4	62	9	103	<.3	154	15	376	3.31	24	<8	<2	4	19	<.5	<3	<3	76	.24	.027	16	90	1.19	131	.05	<3	1.58	.01	.12	<2
C75	6	77	<3	71	<.3	80	11	229	2.24	<2	<8	<2	7	9	<.5	<3	<3	23	.12	.020	12	23	.11	117	<.01	<3	.48	<.01	.09	<2
C76	7	39	9	55	<.3	141	11	297	1.88	3	<8	<2	6	163	.5	<3	<3	27	10.94	.066	29	72	.98	123	<.01	4	.57	<.01	.03	<2
C80	2	61	8	66	<.3	48	9	978	2.31	3	<8	<2	4	19	<.5	<3	<3	42	.29	.051	14	22	.21	199	.03	<3	.84	.01	.10	<2
C82	11	71	7	62	<.3	140	16	446	3.09	<2	<8	<2	7	30	<.5	<3	<3	38	.40	.044	19	46	.38	206	.01	4	.67	.01	.08	<2
C84	3	77	6	60	<.3	77	14	421	3.02	13	<8	<2	5	31	<.5	<3	<3	56	.42	.028	17	48	.71	259	.06	<3	1.26	.01	.08	<2
C86	4	73	8	66	.3	97	16	524	3.16	12	<8	<2	5	52	<.5	<3	<3	59	1.59	.046	19	57	.85	276	.06	4	1.24	.01	.09	<2
C88	4	84	9	68	<.3	102	18	471	3.57	40	<8	<2	6	29	<.5	5	<3	65	.34	.021	20	63	.72	223	.05	<3	1.47	.01	.12	<2
C89	4	111	9	71	<.3	73	19	723	3.20	16	<8	<2	5	28	<.5	<3	<3	55	.39	.028	21	40	.73	239	.06	<3	1.25	.01	.09	<2
C90	6	45	5	56	<.3	90	12	282	2.82	3	<8	<2	6	25	<.5	<3	<3	60	.31	.022	24	60	.64	206	.04	<3	1.22	.01	.07	<2
C91	2	58	9	55	<.3	51	14	714	2.57	5	<8	<2	4	66	<.5	<3	<3	50	1.90	.035	15	30	.68	292	.06	<3	1.14	.01	.07	<2
C92	5	49	7	63	<.3	121	13	414	2.39	8	<8	<2	3	136	.5	<3	<3	42	5.81	.052	13	56	.85	310	.03	3	.84	.02	.08	<2
C93	2	56	6	48	.3	56	12	546	2.51	9	<8	<2	4	86	<.5	<3	<3	60	2.28	.034	14	35	.71	294	.06	<3	1.14	.02	.07	<2
C94	9	78	10	72	<.3	582	28	610	4.11	30	<8	<2	9	32	<.5	<3	<3	55	.35	.022	35	68	.62	287	.03	3	1.36	.01	.12	<2
C95	3	58	7	58	<.3	42	8	511	2.47	7	<8	<2	4	18	<.5	<3	<3	54	.20	.019	12	28	.29	194	.03	3	1.08	.01	.08	<2
C96	15	86	10	102	<.3	257	24	632	3.87	20	<8	<2	7	41	<.5	<3	<3	32	.31	.075	31	58	.16	240	<.01	3	.70	.01	.12	<2
C97	11	55	6	56	<.3	131	13	296	2.08	<2	<8	<2	6	20	<.5	<3	<3	28	.15	.025	20	38	.11	137	<.01	<3	.38	<.01	.06	<2
C98	8	77	9	115	<.3	109	18	411	4.54	5	<8	<2	4	33	<.5	<3	<3	81	.25	.075	27	90	1.36	148	.02	<3	2.01	.01	.22	<2
RE C98	7	70	5	109	<.3	107	17	405	4.39	5	<8	<2	4	30	<.5	<3	<3	80	.24	.070	25	92	1.37	152	.02	<3	1.98	.01	.21	<2
C99	8	75	10	94	<.3	226	23	612	3.74	4	<8	<2	6	17	<.5	<3	<3	57	.27	.063	31	136	1.03	104	.01	<3	1.30	<.01	.10	<2
C100	6	63	8	56	<.3	63	13	386	2.81	3	<8	<2	5	29	<.5	<3	<3	47	.30	.046	21	48	.49	150	.05	<3	.94	.01	.09	<2
C101	1	134	<3	25	<.3	193	23	354	2.50	<2	<8	2	<2	115	.5	<3	<3	56	5.51	.102	<1	344	2.95	404	.05	<3	1.94	.01	.49	<2
C102	<1	199	<3	62	<.3	81	31	525	3.28	<2	<8	<2	<2	21	<.5	<3	<3	52	.47	.093	1	62	1.42	33	.06	<3	1.57	<.01	.11	<2
C103	2	83	7	60	<.3	92	21	659	3.20	4	<8	<2	2	157	.7	<3	<3	55	6.53	.081	7	91	1.33	320	.04	<3	1.16	.01	.19	<2
C104	2	82	6	56	<.3	68	19	610	2.94	5	<8	<2	2	151	.7	<3	<3	52	5.31	.077	8	52	1.38	260	.03	<3	1.00	.01	.18	<2
C105	7	68	12	108	<.3	95	13	280	3.02	4	<8	<2	9	26	<.5	<3	<3	36	.25	.032	24	22	.22	217	.02	<3	.72	<.01	.07	<2
C106	2	183	<3	82	<.3	117	37	803	5.31	3	<8	<2	2	17	<.5	<3	<3	149	.65	.042	5	73	1.71	153	.13	<3	2.31	<.01	.19	<2
C107	4	37	10	55	<.3	57	11	374	2.88	8	<8	<2	6	27	<.5	<3	<3	56	.29	.036	20	42	.41	200	.06	<3	1.23	.01	.18	<2
C108	<1	95	<3	39	<.3	72	26	434	3.11	<2	<8	<2	<2	58	<.5	<3	<3	88	.77	.188	1	200	2.02	363	.12	<3	2.09	.01	1.13	<2
STANDARD DS4	8	129	31	159	.3	41	12	783	3.15	22	<8	<2	3	29	5.7	5	5	82	.57	.086	17	164	.59	144	.10	<3	1.75	.04	.15	3

Sample type: SOIL S150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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Data L PA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
G-1	2	2	<3	35	<.3	4	4	459	1.86	<2	<8	<2	5	84	<.5	<3	<3	42	.60	.092	8	49	.46	191	.11	<3	.85	.08	.39	<2
C109	<1	82	3	50	<.3	37	20	638	3.87	7	<8	<2	2	39	<.5	<3	<3	65	.52	.099	5	55	1.12	59	.05	<3	1.61	<.01	.06	2
C110	10	134	12	95	<.3	154	16	207	3.72	7	<8	<2	8	46	<.5	<3	<3	37	.47	.049	21	51	.58	239	.01	3	1.02	.01	.07	<2
C111	6	105	9	74	<.3	99	17	778	3.82	17	<8	<2	6	63	<.5	<3	3	52	1.86	.069	17	54	.84	200	.04	<3	1.03	.01	.09	<2
C112	3	89	5	61	<.3	81	17	563	3.12	13	<8	<2	3	126	<.5	<3	<3	48	5.67	.045	13	52	.94	296	.03	3	1.12	.02	.08	<2
C113	6	76	9	72	<.3	80	17	833	3.44	8	<8	<2	6	22	<.5	<3	<3	48	.31	.040	14	55	.97	140	.04	<3	1.48	.01	.26	<2
C114	3	74	8	57	<.3	74	16	452	3.06	13	<8	<2	5	28	<.5	<3	3	57	.35	.023	16	46	.82	230	.05	3	1.20	.01	.07	<2
C115	3	90	5	66	<.3	75	19	662	3.12	17	<8	<2	3	94	<.5	<3	<3	53	4.06	.063	11	48	1.07	255	.04	<3	1.18	.01	.08	<2
C116	2	47	5	55	<.3	49	13	390	3.37	11	<8	<2	4	40	<.5	<3	<3	73	.76	.077	13	41	.67	189	.05	<3	.94	.01	.07	<2
C117	2	66	4	59	<.3	82	20	695	3.55	13	<8	<2	4	29	<.5	<3	<3	65	.44	.039	14	56	1.14	228	.08	<3	1.44	.02	.08	<2
C118	11	68	10	64	<.3	87	14	396	2.58	4	<8	<2	10	17	<.5	<3	<3	13	.16	.022	44	14	.17	148	<.01	<3	.42	<.01	.06	<2
C119	9	106	7	93	<.3	135	21	525	3.49	9	<8	<2	8	43	<.5	<3	<3	36	1.63	.024	30	37	.56	192	.02	<3	.87	.01	.14	<2
C120	6	101	10	79	.4	108	16	387	3.27	10	<8	<2	4	161	<.5	<3	<3	26	9.23	.032	16	36	.61	329	.01	<3	.55	.01	.07	<2
C121	4	208	5	114	<.3	236	50	1352	8.07	<2	<8	<2	4	42	.8	4	<3	208	1.30	.143	18	219	3.36	103	.08	<3	3.48	<.01	.23	<2
C122	9	60	13	89	<.3	133	17	590	3.28	7	<8	<2	6	38	<.5	<3	3	39	.22	.026	22	36	.28	220	.01	3	.86	<.01	.10	<2
C123	4	25	7	42	<.3	39	10	233	2.76	13	<8	<2	6	22	<.5	<3	<3	66	.29	.048	11	40	.42	194	.06	<3	1.24	.01	.10	<2
C124	6	98	<3	115	<.3	220	29	697	6.26	<2	<8	<2	6	23	<.5	<3	<3	133	.27	.065	27	171	.34	151	.02	<3	.89	<.01	.11	<2
C177	8	72	24	115	<.3	190	19	435	4.03	<2	<8	2	7	20	<.5	<3	<3	57	.29	.056	17	349	2.70	106	<.01	<3	2.37	<.01	.06	<2
E2	7	70	13	208	.6	630	31	1079	5.72	531	<8	<2	3	144	1.3	9	<3	25	7.34	.020	5	129	1.62	376	<.01	<3	.34	.01	.07	<2
E4	2	75	<3	90	.7	236	23	489	3.27	24	<8	<2	3	166	.6	<3	<3	56	8.48	.022	7	163	2.65	410	<.01	<3	1.96	.01	.04	<2
E5	13	55	18	133	.4	275	30	1163	5.50	50	<8	<2	8	37	<.5	<3	<3	18	.43	.046	15	35	.27	265	<.01	<3	.48	<.01	.08	<2
E6	7	69	9	76	<.3	136	19	550	3.47	9	<8	<2	8	24	<.5	<3	<3	63	.32	.048	20	73	.96	218	.04	<3	1.60	.01	.09	<2
RE E6	7	69	10	77	<.3	134	19	550	3.45	8	<8	<2	8	24	<.5	<3	<3	62	.33	.047	20	75	.95	217	.04	<3	1.61	.01	.09	<2
E7	2	57	6	69	<.3	91	17	467	2.94	8	<8	<2	5	28	<.5	<3	<3	64	.61	.113	16	85	.93	262	.08	<3	1.38	.01	.12	<2
E8	12	24	5	95	.6	179	28	1045	3.97	13	<8	<2	5	109	.6	<3	<3	27	6.20	.049	20	38	.44	396	<.01	<3	.62	.01	.08	<2
E9	6	81	9	81	.4	196	24	739	3.93	5	<8	<2	3	28	<.5	<3	<3	36	2.06	.044	8	78	.20	199	<.01	<3	.54	<.01	.08	<2
E10	6	110	<3	110	<.3	60	17	208	5.61	<2	<8	<2	4	26	<.5	<3	<3	199	.41	.045	20	51	1.12	326	.04	<3	1.98	.01	.14	<2
E11	5	46	11	47	<.3	62	10	179	2.33	13	<8	<2	4	41	<.5	<3	4	39	1.37	.046	14	28	.31	332	.03	<3	.88	.01	.09	<2
E12	10	107	7	201	<.3	787	66	912	6.33	37	<8	5	3	29	.8	<3	<3	120	.51	.051	7	696	5.79	220	<.01	<3	3.99	<.01	.03	<2
E13	1	39	5	51	<.3	50	12	429	2.97	12	<8	<2	4	36	<.5	<3	<3	74	.53	.066	16	47	.60	281	.07	<3	1.18	.02	.07	<2
E14	1	120	<3	131	<.3	222	32	691	7.70	3	<8	<2	5	28	.6	<3	<3	177	.70	.120	23	244	4.88	307	.11	<3	4.00	<.01	.05	<2
E15	7	132	13	153	<.3	206	22	344	3.76	7	<8	<2	6	18	<.5	<3	<3	92	.32	.038	27	197	2.44	249	.03	<3	2.21	<.01	.06	<2
E16	1	46	7	60	<.3	66	13	359	2.78	8	<8	<2	4	30	<.5	<3	<3	67	.61	.083	16	65	.78	278	.08	3	1.37	.02	.09	<2
E17	1	50	6	53	<.3	67	14	412	2.83	9	<8	<2	5	30	<.5	<3	<3	70	.51	.041	19	63	.65	271	.09	<3	1.54	.01	.07	<2
E18	2	60	4	70	.3	90	16	517	2.77	7	<8	<2	4	75	<.5	<3	<3	62	4.32	.076	13	83	1.00	391	.09	3	1.46	.01	.13	<2
STANDARD DS4	8	125	28	153	.3	39	12	774	3.26	24	<8	<2	3	28	5.3	5	5	80	.55	.085	16	163	.58	145	.09	<3	1.69	.04	.15	3

Sample type: SOIL S150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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Data FA

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
G-1	1	2	3	36	<.3	6	4	470	1.76	<2	<8	<2	5	86	<.5	<3	<3	42	.62	.095	8	49	.48	193	.13	<3	.87	.08	.40	<2
E19	1	58	4	61	<.3	86	15	394	2.37	10	<8	<2	3	25	<.5	<3	<3	56	.56	.088	13	77	.78	297	.07	<3	1.20	.01	.08	<2
E20	3	67	5	88	<.3	163	18	569	3.70	11	<8	<2	4	27	<.5	<3	<3	34	.55	.125	11	41	.36	400	.01	<3	.82	<.01	.07	<2
E21	2	88	4	71	.3	148	23	632	3.50	6	<8	2	5	32	<.5	<3	<3	93	.73	.112	18	162	1.54	409	.15	<3	2.03	.02	.09	<2
E22	4	136	5	177	<.3	315	35	617	4.10	5	<8	<2	4	23	<.5	<3	<3	72	.43	.050	86	145	2.95	396	.02	<3	2.73	<.01	.06	4
E23	3	46	5	79	<.3	269	22	375	3.39	9	<8	3	9	31	<.5	<3	<3	68	.41	.040	21	385	2.82	221	.02	<3	2.33	<.01	.07	<2
E24	9	87	6	108	<.3	224	24	639	4.26	10	<8	<2	7	26	<.5	<3	<3	75	.30	.059	31	166	2.58	165	.01	<3	2.46	<.01	.09	4
E25	8	109	5	111	<.3	179	19	293	4.22	4	<8	<2	6	14	<.5	<3	<3	57	.30	.056	22	102	1.53	149	.03	<3	1.69	<.01	.17	<2
E26	8	74	9	101	<.3	149	16	308	4.15	9	<8	<2	5	38	<.5	<3	<3	92	.29	.036	15	139	1.53	247	.08	<3	1.96	.01	.35	<2
E27	8	100	4	124	1.6	392	39	960	4.87	193	<8	<2	3	90	<.5	5	<3	41	2.73	.063	9	217	1.34	337	<.01	<3	1.21	<.01	.09	<2
E28	9	85	5	85	.4	125	17	436	3.08	19	<8	<2	3	68	<.5	<3	<3	34	3.33	.044	7	70	.81	238	<.01	<3	.90	.01	.07	<2
E29	10	89	9	112	1.0	58	12	826	3.99	49	<8	<2	3	98	.6	<3	<3	66	5.12	.066	17	36	.63	347	.02	<3	1.00	.01	.06	<2
E30	6	126	4	125	<.3	412	33	618	4.95	23	<8	<2	6	22	<.5	<3	<3	101	.57	.107	29	181	2.59	141	.06	<3	2.42	<.01	.08	<2
E31	1	35	4	31	<.3	412	31	320	2.39	24	<8	4	2	47	<.5	<3	<3	48	1.24	.043	9	578	1.27	172	.02	<3	.84	.01	.04	<2
E32	3	86	8	79	<.3	84	9	100	2.94	9	<8	<2	3	21	<.5	<3	<3	33	.31	.035	8	30	.23	267	<.01	<3	.75	.01	.06	<2
RE E32	3	82	6	76	<.3	80	9	92	2.82	7	<8	<2	3	20	<.5	<3	<3	32	.29	.032	7	27	.21	254	<.01	<3	.72	<.01	.06	<2
E33	4	109	14	71	<.3	83	13	219	2.99	11	<8	<2	6	20	<.5	<3	<3	41	.27	.049	15	43	.45	285	.03	<3	1.10	.01	.09	<2
E34	5	114	8	70	.4	119	25	424	2.65	82	<8	<2	3	93	<.5	<3	<3	23	4.28	.048	7	36	.28	428	<.01	<3	.73	.01	.06	<2
E35	4	83	12	87	<.3	150	16	271	3.38	4	<8	<2	4	27	<.5	<3	<3	67	.39	.048	10	95	.83	216	.03	<3	1.29	.01	.11	<2
E36	4	69	13	57	.4	131	24	338	2.43	24	<8	<2	3	119	<.5	<3	<3	32	5.53	.035	6	63	.51	333	<.01	<3	.74	<.01	.10	<2
E37	1	30	17	105	<.3	615	44	854	4.68	63	<8	5	13	14	<.5	<3	<3	163	.37	.051	66	817	5.72	77	.08	<3	3.99	<.01	.03	<2
E38	4	53	8	90	<.3	811	44	513	3.07	19	<8	4	3	23	<.5	<3	<3	74	.69	.022	6	856	3.87	103	.01	<3	2.44	<.01	.04	<2
E39	6	60	5	104	9	144	35	1243	3.47	36	<8	<2	4	151	<.5	<3	<3	11	7.24	.031	21	16	.46	612	<.01	<3	.62	.02	.08	<2
E40	6	114	8	104	.4	80	29	1482	5.68	7	<8	<2	3	32	<.5	<3	<3	115	1.25	.059	10	45	.35	348	.02	<3	.83	.01	.09	<2
E41	6	99	6	95	<.3	227	22	453	3.90	4	<8	<2	5	25	<.5	<3	3	45	.36	.068	10	110	1.00	244	<.01	<3	1.27	<.01	.08	<2
E42	4	143	8	144	1.2	363	58	1715	8.59	5	<8	2	3	53	1.6	<3	<3	93	4.49	.226	9	202	1.80	988	.13	<3	1.79	.01	.17	<2
E43	8	32	20	75	<.3	78	6	80	2.08	21	<8	<2	4	12	<.5	<3	<3	27	.14	.015	13	23	.21	458	.01	<3	.59	.01	.08	<2
E44	2	88	4	182	<.3	141	19	300	3.12	6	<8	<2	5	15	<.5	<3	<3	63	.21	.037	15	134	.88	286	.03	<3	1.33	<.01	.11	<2
G1	14	54	9	234	5	107	25	834	5.83	9	<8	<2	3	17	<.5	<3	<3	84	.27	.056	15	40	.28	111	.01	<3	.63	<.01	.08	<2
G2	4	110	7	60	5	90	23	681	3.46	27	<8	<2	3	46	<.5	3	<3	57	3.28	.071	12	59	.91	181	.03	<3	1.25	.01	.16	<2
G3	6	90	7	135	<.3	207	35	919	7.65	20	<8	<2	12	34	<.5	<3	<3	81	.49	.145	133	99	.73	213	.01	<3	1.49	.01	.23	<2
G4	2	176	3	44	<.3	47	23	386	2.73	4	<8	<2	2	24	<.5	<3	<3	55	.58	.094	4	34	.91	60	.03	<3	1.18	.03	.03	<2
G5	2	82	5	28	<.3	88	17	331	2.46	8	<8	<2	2	16	<.5	<3	<3	33	.39	.031	8	81	.74	58	.03	<3	1.15	.02	.06	<2
G6	1	14	<3	64	<.3	6	9	352	2.93	2	<8	<2	<2	20	<.5	<3	<3	44	.49	.083	3	7	.93	47	<.01	<3	1.38	.03	.06	<2
G7	<1	63	6	374	1.0	45	28	4986	8.91	<2	<8	<2	6	37	.9	<3	<3	146	.84	.131	28	25	.44	274	<.01	<3	.79	.01	.08	<2
STANDARD DS4	7	127	27	156	.4	39	12	784	3.13	23	<8	2	4	28	5.5	5	6	79	.55	.086	16	163	.58	143	.09	<3	1.71	.03	.15	3

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SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm
G-1	3	2	3	41	.3	6	5	522	1.83	<2	<8	<2	5	96	<.5	<3	<3	43	.67	.105	9	52	.53	221	.12	<3	.96	.09	.44	<2
G8	1	102	<3	44	.3	288	29	473	3.22	6	<8	4	<2	29	<.5	<3	<3	68	.77	.121	4	470	3.24	194	.08	<3	2.27	.01	.41	3
G9	<1	73	<3	24	<.3	176	20	261	1.88	<2	<8	2	<2	21	<.5	<3	<3	45	.54	.115	1	258	1.93	293	.09	<3	1.51	.01	.76	<2
G10	<1	134	<3	48	<.3	76	28	626	4.35	<2	<8	<2	<2	50	<.5	<3	<3	96	1.73	.043	3	100	1.63	112	.05	<3	1.64	<.01	.11	<2
G11	13	99	11	124	.4	159	20	711	3.48	2	<8	<2	8	22	<.5	<3	<3	39	.20	.027	35	43	.12	170	<.01	<3	.49	.01	.07	<2
G12	4	80	4	62	<.3	91	17	472	2.92	21	<8	<2	4	21	<.5	<3	<3	48	.25	.020	19	53	.63	177	.05	<3	1.01	.01	.07	<2
G13	4	77	7	60	.3	84	18	544	2.81	18	<8	<2	4	213	.5	3	<3	49	8.56	.054	10	47	1.13	450	.04	<3	1.07	.01	.07	<2
G14	3	76	5	57	<.3	75	17	491	2.65	34	<8	<2	3	118	<.5	<3	<3	45	5.46	.059	11	42	.92	331	.04	3	1.04	.01	.09	<2
G15	4	91	3	70	.3	96	18	518	3.40	16	<8	<2	3	135	.5	<3	<3	61	5.07	.041	22	64	1.18	345	.03	<3	1.38	.01	.08	<2
G16	4	84	6	65	<.3	95	19	527	3.19	14	<8	<2	3	29	<.5	<3	<3	58	.39	.032	16	62	.85	239	.05	<3	1.25	.02	.07	<2
G17	2	80	3	51	<.3	64	15	437	2.62	10	<8	<2	2	132	<.5	3	<3	44	6.21	.055	11	47	1.04	352	.04	<3	1.09	.01	.07	<2
G18	4	106	5	68	<.3	95	19	524	3.57	17	<8	<2	4	27	<.5	<3	<3	61	.34	.016	22	66	.88	249	.05	<3	1.46	.01	.08	<2
G19	3	68	5	57	<.3	70	13	392	2.89	12	<8	<2	4	25	<.5	<3	<3	54	.31	.022	21	44	.58	271	.06	<3	1.19	.02	.07	<2
G20	5	90	6	87	<.3	121	26	541	3.07	35	<8	<2	5	26	<.5	<3	<3	49	.32	.017	21	55	.64	290	.04	<3	1.09	.01	.08	<2
RE G20	5	89	8	85	<.3	120	25	534	3.01	35	<8	<2	5	25	<.5	<3	<3	48	.31	.018	21	54	.63	283	.03	<3	1.06	.01	.07	<2
G21	4	91	14	69	<.3	89	19	598	3.34	13	<8	<2	3	28	<.5	<3	<3	58	.36	.048	16	56	.87	212	.04	<3	1.22	.01	.08	<2
G22	3	93	4	58	<.3	93	16	461	3.03	15	<8	<2	3	78	<.5	<3	<3	50	2.82	.028	15	63	1.03	245	.05	<3	1.28	.01	.08	<2
G23	3	90	6	60	.4	91	16	435	2.83	21	<8	<2	3	149	.5	<3	<3	45	5.64	.052	13	69	1.06	352	.04	<3	1.11	.01	.08	<2
G24	4	115	9	73	<.3	120	22	700	3.44	37	<8	<2	3	31	<.5	3	<3	58	.37	.032	14	61	.93	270	.04	<3	1.21	.01	.07	<2
G25	3	95	8	67	.5	96	21	647	3.22	40	<8	<2	3	59	.6	5	<3	50	2.72	.040	14	54	.81	224	.04	<3	1.08	.01	.10	<2
G26	1	123	15	76	<.3	120	34	1231	5.15	5	<8	<2	<2	79	<.5	<3	<3	125	2.63	.093	7	125	1.38	175	.02	<3	1.48	.01	.25	<2
STANDARD DS4	7	120	25	149	.4	39	12	766	3.01	24	<8	3	3	27	5.6	5	5	75	.53	.085	15	159	.56	143	.09	<3	1.66	.04	.14	3

Sample type: SOIL S150 60C. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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

Data A FA

ACME A[illegible]TICAL LABORATORIES LTD. 852 E. HASTINGS ST. [illegible]OUVER BC V6A 1R6 PHONE(604)253-3158 FAX(60[illegible]3-1716
(IS[illegible]J02 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

Richards, Gordon PROJECT BRADEN File # A203849

6410 Holly Park Drive, Delta BC V4K 4W6 Submitted by: Gordon Richards

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm
G-1	1.6	2.6	2.8	42	<.1	5.2	3.9	511	1.85	<.5	2.0	<.5	5.3	102	<.1	<.1	.2	41	.55	.097	9	47.5	.52	196	.122	2	.91	.085	.50	.8	<.01	2.1	.3	<.05	5
F66	.5	6.9	4.3	45	<.1	14.8	7.3	279	4.24	2.9	.6	<.5	4.6	33	.1	.4	.1	143	.50	.106	16	54.4	.36	97	.088	1	.61	.013	.05	.7	.01	2.3	<.1	<.05	4
F70	.7	8.3	3.7	41	.2	15.5	6.7	742	2.97	4.2	.7	1738.1	3.6	41	.1	.3	.1	81	.62	.093	16	36.8	.39	145	.067	1	.64	.014	.06	.7	.01	2.3	<.1	<.05	3
STANDARD DS4	6.4	125.1	32.7	160	.2	35.3	11.8	823	3.39	23.8	6.6	25.0	3.8	33	5.4	5.4	5.0	73	.52	.097	18	163.9	.59	133	.092	4	1.79	.035	.17	3.6	.26	3.7	1.1	.07	6

GROUP 1DX - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-MS.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SILT SS80 60C

DATE RECEIVED: SEP 17 2002 **DATE REPORT MAILED:** Sept 25/02 **SIGNED BY.....** C. Leong .. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Richards, Gordon PROJECT BRADEN File # A203850 Page 1

6410 Holly Park Drive, Delta BC V4K 4W6 Submitted by: Gordon Richards

B = Black Spruce
W = White Spruce

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Fe %	As ppm	Au ppb	Sb ppm	Ba ppm	S %
B C1	.18	2.58	2.10	10.2	22	.021	.1	.8	.05	49.3	<.01
B C2	.09	3.86	2.35	84.0	26	.044	.5	.7	.06	383.5	.05
B C3	.07	2.46	1.24	38.7	16	.013	.1	<.2	.02	105.3	.02
B C4	.05	2.18	.80	36.5	17	.018	<.1	<.2	<.02	48.6	.02
B C5	.11	2.91	1.07	11.7	12	.024	.3	<.2	<.02	15.1	.03
B C6	.03	2.88	.55	117.2	13	.012	.1	.2	<.02	553.2	.03
B C7	.05	2.92	.71	35.0	17	.015	.2	<.2	.02	127.2	.02
B C8	.04	2.09	.59	81.5	17	.017	.1	<.2	<.02	129.0	.05
B C9	.09	2.41	1.17	56.3	46	.025	.3	.2	.02	164.8	.04
B C10	.16	3.82	1.45	40.4	62	.089	.4	.3	.05	85.0	.05
B C11	.04	2.58	.75	35.8	27	.014	<.1	<.2	.12	100.9	.02
B C12	.04	1.63	.81	56.5	20	.016	<.1	.4	<.02	128.2	<.01
B C13	.04	1.94	.63	67.6	18	.012	.2	<.2	<.02	75.3	.02
B C14	.10	2.58	.58	47.1	20	.019	.1	<.2	<.02	450.1	.02
B C15	.06	2.49	.73	37.4	14	.017	.2	<.2	<.02	162.4	.02
B C16	.01	1.84	.38	52.3	13	.013	.2	<.2	<.02	111.3	.01
B C17	.02	2.60	.35	104.5	13	.012	.3	<.2	<.02	185.9	.01
B C18	.05	2.44	.29	72.1	8	.010	.1	<.2	<.02	182.2	.02
W C19	.11	3.29	.93	30.0	19	.039	.2	.3	.03	180.6	<.01
W C20	.09	4.22	1.01	48.6	23	.031	.4	.2	.02	343.1	<.01
RE C20	.09	4.36	.88	47.4	21	.034	.3	<.2	.02	350.8	.01
B C21	.05	5.18	.79	90.2	15	.031	.4	<.2	.02	198.5	.04
B C22	.09	2.62	1.22	31.4	46	.059	.2	.5	.02	61.7	<.01
B C23	.03	3.09	.30	63.8	18	.014	.2	.2	.02	464.0	.02
B C24	.06	1.55	.39	39.2	11	.010	.2	<.2	<.02	144.1	<.01
BS C25	.03	2.27	.67	34.6	16	.016	.3	.2	<.02	151.2	.02
WS C26	.09	2.14	.80	13.2	18	.017	.1	<.2	.02	56.0	.01
B C27	.01	1.97	.40	42.2	11	.013	.1	<.2	<.02	152.7	.01
B C28	.13	2.24	.96	24.8	20	.077	.3	<.2	.03	90.5	<.01
B C29	.03	1.96	.47	57.6	13	.022	.2	<.2	<.02	140.4	<.01
B C30	.04	2.29	.62	36.4	15	.024	.2	.7	.02	153.4	.02
W C31	.44	4.01	1.94	21.0	29	.260	.8	1.4	.05	80.8	.01
W C32	.33	4.44	1.60	19.1	24	.191	.5	1.5	.05	49.8	.03
STANDARD V6	.28	7.71	18.60	36.7	21	.073	.5	.8	.05	9.8	.06

GROUP 1VE - 0.50 GM SAMPLE LEACHED WITH 2 ML HNO3 FOR ONE HOUR, THEN 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP/ES & MS. UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.

- SAMPLE TYPE: BARK VP100 Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 17 2002 DATE REPORT MAILED: Sept 30/02 SIGNED BY: C. Leong D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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

Data ✓ FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Fe %	As ppm	Au ppb	Sb ppm	Ba ppm	S %
B C33	.12	3.18	.88	33.6	17	.077	.1	1.8	.05	56.7	.02
B C34	.09	3.18	.88	57.1	23	.062	.3	3.7	.04	82.1	.03
B C35	.11	2.82	.63	90.3	10	.031	<.1	.8	.02	206.8	.03
B C36	.33	2.66	.43	30.2	11	.040	.3	.5	<.02	191.3	.01
B C37	.23	2.92	.60	62.2	28	.070	.2	<.2	<.02	118.9	.03
P C38	.34	2.61	.44	33.5	18	.093	.2	<.2	<.02	178.8	.01
W C39	.23	3.42	.33	54.1	14	.058	<.1	.4	<.02	188.7	.02
W C40	.37	3.65	.39	53.0	17	.110	.1	<.2	<.02	429.8	.02
W C41	.21	3.69	.38	60.2	14	.041	.1	<.2	<.02	282.2	.04
W C42	.19	4.01	.22	31.7	10	.047	.3	.5	<.02	253.7	.02
W C43	.23	4.62	.30	51.3	30	.053	<.1	<.2	.04	349.7	.03
W C44	.31	4.00	.27	44.6	15	.090	.2	.3	<.02	162.8	.02
W C45	.33	4.50	.37	64.5	12	.059	.1	.5	<.02	281.8	.02
from C38 B C46	.25	1.97	.19	60.0	15	.052	<.1	<.2	<.02	152.3	.02
B C47	.17	2.64	.32	76.8	11	.034	.2	.4	<.02	175.5	.01
B C48	.24	3.18	.51	31.3	16	.045	.2	.2	<.02	136.0	.02
W C49	.06	2.70	.32	38.7	7	.021	.1	.5	<.02	366.8	.04
P≡Pine P C50	2.78	6.01	1.48	24.3	16	.495	.6	2.5	.06	101.1	.02
RE C50	2.77	6.83	1.63	26.4	18	.563	.8	2.2	.07	100.1	.03
B C51	.04	2.24	.49	20.9	23	.033	.1	.3	<.02	103.8	.02
P C52	.02	2.97	.38	12.6	8	.007	<.1	.4	<.02	12.2	.02
B C53	.06	2.93	.41	36.1	41	.030	<.1	<.2	<.02	224.8	<.01
P C54	.03	3.96	.39	8.9	7	.009	.1	.3	<.02	17.7	.01
B C55	.06	2.65	.36	27.1	21	.028	<.1	<.2	<.02	122.2	.02
W C56	.18	4.55	1.26	24.6	29	.148	.3	.5	.03	98.4	.02
B C57	.36	2.51	.34	63.4	17	.391	.7	.4	.03	263.1	.02
P C58	.45	31.62	.46	13.0	15	.500	.8	.4	.04	29.4	.04
B C59	.07	2.81	.42	20.5	18	.046	.1	<.2	<.02	92.5	.02
B C60	.45	3.03	.39	19.4	19	.496	.9	<.2	.03	99.4	.01
B C61	.24	3.81	.32	27.5	27	.273	.6	<.2	.02	249.1	.02
B C62	.14	2.24	.42	65.2	18	.142	.3	<.2	<.02	256.3	.01
W C63	.13	3.56	.38	67.6	5	.131	.3	.4	<.02	365.5	.01
W C64	2.90	7.46	1.12	25.4	21	2.609	3.7	.3	.13	80.1	.05
STANDARD V6	.25	8.02	17.69	38.0	21	.069	.4	.5	.06	9.2	.05

Sample type: BARK VP100. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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Data A FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Fe %	As ppm	Au ppb	Sb ppm	Ba ppm	S %
W C65	.22	5.53	.57	86.3	15	.157	.3	.3	.03	212.5	.03
B C66	.36	2.58	.51	84.7	17	.338	.7	<.2	.03	142.4	.02
B C67	.20	3.86	.46	74.2	17	.238	.4	<.2	.02	118.1	.03
B C68	.07	2.90	.22	50.3	21	.069	<.1	<.2	<.02	300.5	.02
B C69	.11	2.65	.52	33.1	22	.090	.3	.3	.02	131.7	.02
W C70	.13	4.43	.28	61.0	13	.114	.2	.2	<.02	202.1	<.01
W C71	.11	3.76	.37	102.0	14	.113	.2	<.2	<.02	414.4	.03
W C72	.06	3.88	.30	54.8	24	.048	<.1	<.2	<.02	232.1	.04
B C73	.18	2.33	.27	57.7	24	.175	.2	<.2	<.02	114.0	.03
W C74	.11	4.11	.52	31.1	17	.154	.1	.3	.04	188.5	.01
B F1	.19	3.32	.69	9.6	20	.175	.3	1.9	<.02	26.9	.03
B F2	.20	3.06	.66	60.6	18	.211	.5	4	.02	89.9	.03
B F3	.11	4.15	.72	134.7	19	.107	.1	1.1	.02	172.7	.03
B F4	.12	3.25	.96	28.9	18	.123	.1	1.9	<.02	29.9	.02
B F5	.14	2.61	.45	64.3	25	.152	.1	<.2	.02	65.4	.03
B F6	.08	2.45	.24	80.0	19	.089	.1	.5	<.02	149.8	<.01
B F7	.19	4.91	.59	69.7	49	.198	.3	1.3	.02	102.7	.03
B F8	.18	3.49	.76	58.2	32	.172	.3	2.0	<.02	155.0	.02
B F9	.08	3.24	.50	71.9	25	.080	<.1	<.2	<.02	104.2	.02
B F10	.19	2.88	.64	63.7	18	.211	.2	.4	<.02	42.7	.01
RE F10	.18	3.33	.73	69.7	17	.152	.2	.9	.02	46.1	.02
B F11	.14	2.90	.82	38.4	39	.077	<.1	.2	<.02	142.1	.03
B F12	.19	3.21	.49	33.6	30	.182	.1	<.2	<.02	88.4	<.01
B F14	.08	2.68	.68	92.2	26	.081	.1	.7	<.02	288.8	.05
B F15	.30	1.99	.33	65.0	17	.319	.5	.3	<.02	136.1	<.01
WS F16	.36	4.36	.28	95.3	23	.361	.5	<.2	<.02	224.9	.01
BS F17	.10	2.06	.31	77.0	22	.101	.1	.6	<.02	147.8	.01
B F18	.14	2.28	.62	54.8	35	.145	.3	.5	<.02	227.2	.02
B F19	.16	2.47	.38	60.8	15	.169	.2	.6	<.02	111.8	<.01
B F20	.09	2.93	.61	52.8	27	.057	.2	1.0	.04	93.6	.02
BS F21	.11	2.82	.46	68.7	17	.108	.2	1.3	.02	136.6	.02
WS F22	.12	2.72	.44	51.7	17	.122	.2	.9	<.02	75.6	<.01
B F23	.15	3.12	.35	50.3	21	.156	.2	1.8	<.02	84.7	.01
STANDARD V6	.25	7.90	18.81	37.3	23	.077	.3	.6	.05	9.1	.08

Sample type: BARK VP100. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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Data h FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Fe %	As ppm	Au ppb	Sb ppm	Ba ppm	S %
B F24	.06	2.92	.94	95.9	16	.018	.3	1.3	.02	197.5	<.01
B F25	.12	2.73	.95	61.1	19	.018	.1	.9	.02	191.5	.04
B F26	.05	2.34	.84	52.1	10	.019	.1	1.1	<.02	113.0	.01
B F27	.03	1.82	.45	67.9	11	.008	<.1	.5	<.02	315.6	.01
W F28	.16	3.12	.72	50.2	18	.024	<.1	1.2	<.02	316.4	.03
B F29	.08	2.13	.68	39.3	14	.014	.2	.6	.02	64.2	.04
B F30	.17	3.14	.80	58.8	19	.022	.2	.6	.03	125.8	.03
B F31	.10	3.15	.73	53.5	10	.042	.2	.6	.02	127.7	.03
B F32	.13	2.70	.51	47.8	14	.014	<.1	.5	<.02	196.3	.03
B F33	.05	1.62	.37	42.5	12	.006	<.1	.3	<.02	110.2	.02
B F34	.02	2.34	.79	97.3	9	.008	.1	<.2	<.02	148.7	.03
B F35	.10	1.69	.52	46.8	16	.012	<.1	.2	<.02	154.5	.03
P F36	.18	4.87	2.26	18.0	31	.085	.4	1.1	.08	24.5	.04
P F37	.16	2.37	.92	14.9	12	.018	.1	.4	<.02	29.3	.03
B F38	.06	3.53	1.10	20.2	20	.019	.3	.6	.02	146.8	.01
B F39	.14	2.47	.43	67.5	10	.019	<.1	<.2	<.02	115.4	.02
W F40	.06	3.14	.74	75.1	10	.017	<.1	1.2	.02	276.0	.04
RE F40	.05	3.16	.76	77.1	9	.018	.2	.6	<.02	292.2	.03
B F41	.11	2.33	.45	77.6	19	.013	<.1	.2	<.02	127.5	.01
B F42	.04	2.40	.56	77.6	32	.016	<.1	.6	<.02	232.3	.03
B F43	.13	2.46	1.10	62.6	26	.026	.2	.4	.02	112.5	.02
W F44	.03	2.74	.50	104.3	15	.012	.3	<.2	.02	544.2	.04
B F45	.12	3.57	.49	64.9	12	.043	.1	<.2	<.02	138.7	.03
B F46	.02	3.11	.48	44.4	9	.010	<.1	.3	<.02	122.1	.03
B F47	.05	1.98	.21	60.5	12	.005	<.1	<.2	<.02	149.7	.03
B F48	.04	3.19	.60	49.9	11	.015	<.1	.4	<.02	167.2	.04
W F49	.07	2.98	.35	66.4	14	.007	<.1	.3	<.02	392.4	.03
B F50	.02	2.60	2.36	64.8	100	.013	<.1	<.2	<.02	116.5	.01
B F51	.09	2.19	.34	43.0	15	.009	<.1	.2	<.02	149.8	.02
W F52	.05	2.74	.46	47.7	11	.009	.1	<.2	<.02	153.6	<.01
W F57	.12	3.72	.14	38.0	26	.004	<.1	<.2	<.02	169.4	.04
W F58	.02	2.72	.31	26.5	11	.008	<.1	<.2	<.02	143.4	.02
W F59	.08	2.59	.49	51.6	12	.017	.1	<.2	<.02	343.1	.02
STANDARD V6	.26	7.80	18.40	36.9	17	.071	.5	.6	.06	9.5	.06

Sample type: BARK VP100. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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

Data FA

	SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Fe %	As ppm	Au ppb	Sb ppm	Ba ppm	S %
W	F60	.23	2.57	1.24	109.1	8	.183	.6	.6	.02	156.7	.01
B	F61	.12	1.87	.47	56.5	8	.068	.3	.3	.02	97.4	.02
W	F62	.15	2.55	.50	48.7	10	.104	.3	.7	<.02	150.5	.01
BS	F63	.12	2.31	.38	70.8	20	.105	.1	.4	.02	174.9	.01
WS	F64	.09	2.92	.61	80.8	17	.081	.2	.5	<.02	244.8	.02
B	F65	.18	2.37	.40	120.5	8	.165	.2	.2	.02	105.7	.03
B	F67	.12	2.76	.71	78.5	12	.081	.2	.3	.02	123.1	.02
B	F68	.07	1.91	.25	61.1	10	.061	.1	.7	<.02	77.1	.02
B	F69	.08	26.16	3.03	34.7	23	.057	.1	.8	<.02	207.1	.04
B	F71	.13	2.93	.93	60.2	15	.107	.5	1.0	.09	284.6	.01
B	F72	.07	3.02	.50	51.3	14	.053	.1	<.2	.02	155.2	.02
W	F73	.15	3.00	.65	79.6	15	.107	.3	.2	.02	565.4	.03
W	F74	.08	2.46	.22	66.4	7	.090	.3	.7	<.02	391.8	.03
B	F75	.16	2.54	.37	31.4	8	.179	.3	.6	<.02	53.4	.01
B	F76	.13	2.55	.39	69.1	13	.133	.3	.5	.02	163.7	.01
W	F77	.07	2.92	.39	73.8	9	.064	.1	.5	<.02	339.8	.04
W	F78	.05	4.05	.24	42.4	7	.061	<.1	<.2	<.02	141.5	.03
B	F79	.10	3.24	.42	41.9	30	.068	<.1	.3	<.02	156.5	.02
W	F80	.13	2.32	.32	67.7	16	.122	.3	<.2	<.02	155.5	.02
	RE F80	.15	2.57	.31	65.8	15	.154	.2	.2	<.02	152.1	.02
W	F81	.08	2.72	.25	30.5	21	.041	.1	<.2	<.02	83.7	.02
W	F82	.05	3.06	.23	77.8	10	.046	.1	<.2	<.02	323.6	.04
B	F83	.17	2.86	.29	75.8	9	.147	.3	<.2	<.02	122.2	.04
B	F84	.08	3.07	.42	53.5	12	.074	.1	.3	.02	137.2	.03
B	F85	.07	1.94	.31	40.3	8	.066	.1	.2	<.02	101.0	.02
B	F86	.03	1.76	.13	56.0	7	.050	.2	<.2	<.02	117.1	.01
B	F87	.12	2.07	.34	41.3	18	.059	<.1	<.2	<.02	126.1	.02
B	F88	.13	2.24	.37	34.7	10	.101	.2	.3	<.02	109.5	.04
B	F89	.08	2.21	.36	29.1	10	.046	.1	.5	<.02	100.5	.03
B	F90	.15	2.36	.55	66.4	12	.119	.2	<.2	.02	129.5	.03
B	F91	.16	2.81	.30	56.8	13	.059	.1	.4	<.02	194.1	.01
B	F92	.12	2.17	.35	46.6	15	.087	.1	<.2	<.02	129.0	.01
B	F93	.05	2.46	.39	70.7	9	.043	.2	.3	<.02	224.7	<.01
	STANDARD V6	.26	7.92	17.39	36.7	18	.071	.5	.5	.05	9.5	.04

Sample type: BARK VP100. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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Data h FA ___

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Fe %	As ppm	Au ppb	Sb ppm	Ba ppm	S %
B F94	.04	1.85	.36	51.6	8	.049	.2	.3	<.02	79.2	<.01
B F95	.06	2.73	.39	45.5	14	.052	.1	<.2	<.02	165.5	.01
B F96	.07	2.33	.42	46.4	10	.071	.1	.3	<.02	178.0	<.01
B F97	<.01	1.95	.23	48.6	8	.044	<.1	<.2	<.02	130.5	<.01
B F98	.10	2.35	.44	96.3	21	.105	.3	<.2	.02	149.2	.02
B F99	.07	1.89	.38	86.6	10	.090	.3	.3	<.02	124.0	.02
W F100	.04	3.06	.19	63.1	7	.068	.2	.3	<.02	278.8	.01
STANDARD V6	.26	8.06	18.21	38.5	19	.070	.4	.7	.06	10.0	.06

Sample type: BARK VP100.

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

Data FA

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Richards, Gordon PROJECT BRADEN File # A203851

6410 Holly Park Drive, Delta BC V4K 4W6 Submitted by: Gordon Richards

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Fe %	As ppm	Au ppb	Sb ppm	Ba ppm	S %
F53	2.25	8.04	5.02	69.9	16	1.342	2.4	7.0	.12	120.2	.02
F54	1.80	6.36	2.94	61.7	13	1.185	1.8	1.8	.10	205.0	.03
F55	1.16	4.86	.76	52.9	10	.678	.8	1.5	.06	94.4	.03
F56	2.84	8.33	1.68	52.5	9	1.360	1.8	1.3	.11	78.0	.05
STANDARD V6	.26	8.06	18.21	38.5	19	.070	.4	.7	.06	10.0	.06

GROUP 1VE - 0.50 GM SAMPLE LEACHED WITH 2 ML HNO3 FOR ONE HOUR, THEN 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP/ES & MS. UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: WILLOW VP100

DATE RECEIVED: SEP 17 2002 **DATE REPORT MAILED:** Sept 30/02 **SIGNED BY** ..... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Richards, Gordon PROJECT Braden File # A203417

6170 Tisdall St., Vancouver BC V5Z 3N4 Submitted by: Gordon Richards

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti ppm	B ppm	Al %	Na %	K %	W ppm	Sc ppm	Tl ppm	S %	Hg ppb	Se ppm	Te ppm	Ga ppm
C79	.11	4.14	.58	40.8	8	<.1	.11	187	.008	<.1	<.01	.6	.01	37.1	.05	<.02	<.02	<2	1.37	.023	.05	2.44	.037	150.6	3	7	.01	.001	.33	<.1	.1	<.02	.01	28	<.1	<.02	<.1
C81	.08	4.78	3.23	28.9	16	.1	.15	90	.020	<.1	.01	.8	.02	30.2	.06	.02	<.02	<2	1.31	.046	.10	2.55	.040	58.3	7	7	.01	.002	.58	<.1	.1	<.02	.03	136	.1	<.02	<.1
C83	.17	6.01	2.09	36.7	28	.7	.30	67	.056	.1	.02	.6	.06	30.2	.09	.03	<.02	<2	1.15	.085	.26	3.19	.058	73.3	16	5	.02	.001	.30	<.1	.1	<.02	.04	231	.1	<.02	.1
C85	.04	3.74	.47	124.0	20	<.1	.12	111	.008	<.1	<.01	.4	.01	47.9	.04	<.02	<.02	<2	1.17	.028	.05	2.63	.063	266.5	3	10	<.01	.001	.26	<.1	.1	<.02	.01	66	<.1	<.02	<.1
C87	.12	3.80	.86	51.7	12	<.1	.18	116	.015	<.1	<.01	.5	.01	39.1	.04	<.02	<.02	<2	1.43	.032	.07	2.64	.045	135.8	6	6	.01	.001	.15	<.1	.1	<.02	<.01	101	<.1	<.02	<.1
C125	.19	3.95	1.49	26.3	13	.3	.18	95	.033	.1	.01	5.1	.03	29.0	.05	<.02	<.02	<2	1.22	.049	.14	2.86	.040	71.4	10	4	.01	.001	.27	<.1	.1	<.02	.02	121	.1	<.02	.1
C178	.18	4.70	2.18	34.1	17	.4	.24	113	.038	.2	.01	.7	.04	28.3	.08	.02	<.02	<2	1.24	.059	.18	2.77	.054	81.4	11	5	.02	.001	.34	<.1	.1	<.02	.02	115	.1	<.02	.1
STANDARD	.25	8.12	18.35	44.7	18	3.5	.41	41	.074	.4	.05	.6	.09	31.5	.24	.05	.02	2	.72	.046	.87	3.99	.118	9.5	18	8	.05	.006	.10	<.1	.1	<.02	.03	37	.1	<.02	.2

Standard is STANDARD V6.

GROUP 1VE - 0.50 GM SAMPLE LEACHED WITH 1 ML HNO3 FOR ONE HOUR, THEN 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP/ES & MS. UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.

- SAMPLE TYPE: BARK

DATE RECEIVED: AUG 29 2002 **DATE REPORT MAILED:** Sept 6/02 **SIGNED BY** C. Leong .D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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

Data ✓ FA ___

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Richards, Gordon PROJECT Braden File # A203417

6170 Tisdall St., Vancouver BC V5Z 3N4 Submitted by: Gordon Richards

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti ppm	B ppm	Al %	Na %	K %	W ppm	Sc ppm	Tl ppm	S %	Hg ppb	Se ppm	Te ppm	Ga ppm
C79	.11	4.14	.58	40.8	8	<.1	.11	187	.008	<.1	<.01	.6	.01	37.1	.05	<.02	<.02	<2	1.37	.023	.05	2.44	.037	150.6	3	7	.01	.001	.33	<.1	.1	<.02	.01	28	<.1	<.02	<.1
C81	.08	4.78	3.23	28.9	16	.1	.15	90	.020	<.1	.01	.8	.02	30.2	.06	.02	<.02	<2	1.31	.046	.10	2.55	.040	58.3	7	7	.01	.002	.58	<.1	.1	<.02	.03	136	.1	<.02	<.1
C83	.17	6.01	2.09	36.7	28	.7	.30	67	.056	.1	.02	.6	.06	30.2	.09	.03	<.02	<2	1.15	.085	.26	3.19	.058	73.3	16	5	.02	.001	.30	<.1	.1	<.02	.04	231	.1	<.02	.1
C85	.04	3.74	.47	124.0	20	<.1	.12	111	.008	<.1	<.01	.4	.01	47.9	.04	<.02	<.02	<2	1.17	.028	.05	2.63	.063	266.5	3	10	<.01	.001	.26	<.1	.1	<.02	.01	66	<.1	<.02	<.1
C87	.12	3.80	.86	51.7	12	<.1	.18	116	.015	<.1	<.01	.5	.01	39.1	.04	<.02	<.02	<2	1.43	.032	.07	2.64	.045	135.8	6	6	.01	.001	.15	<.1	.1	<.02	<.01	101	<.1	<.02	<.1
C125	.19	3.95	1.49	26.3	13	.3	.18	95	.033	.1	.01	5.1	.03	29.0	.05	<.02	<.02	<2	1.22	.049	.14	2.86	.040	71.4	10	4	.01	.001	.27	<.1	.1	<.02	.02	121	.1	<.02	.1
C178	.18	4.70	2.18	34.1	17	.4	.24	113	.038	.2	.01	.7	.04	28.3	.08	.02	<.02	<2	1.24	.059	.18	2.77	.054	81.4	11	5	.02	.001	.34	<.1	.1	<.02	.02	115	.1	<.02	.1
STANDARD	.25	8.12	18.35	44.7	18	3.5	.41	41	.074	.4	.05	.6	.09	31.5	.24	.05	.02	2	.72	.046	.87	3.99	.118	9.5	18	8	.05	.006	.10	<.1	.1	<.02	.03	37	.1	<.02	.2

Standard is STANDARD V6.

GROUP 1VE - 0.50 GM SAMPLE LEACHED WITH 1 ML HNO3 FOR ONE HOUR, THEN 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP/ES & MS. UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.

- SAMPLE TYPE: BARK

DATE RECEIVED: AUG 29 2002 **DATE REPORT MAILED:** Sept 6/02 **SIGNED BY** ..... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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Data ✓ FA ___

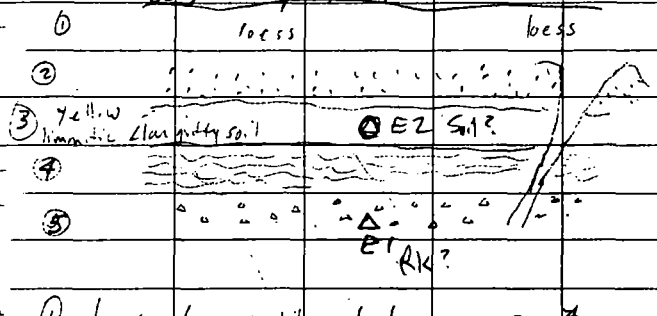
BRADEN Area "B"

Braden Area grid B.

@ B105 last yrs sample 0389,627 / 6,964,610

Trench @ B108 2½m long x 2m deep x ½m wide

0390003 / 6,965,072



① loess clumps + little pleistocene 0 – 40 cm

② gritty layer w loess cm ± roots 40 – 70 cm

③ yellow. qtz frag < 1cm rich limonitic soil little ± qtz sp? fewer? texts? w some limonite much qtz in this 70 – 110 cm musc common

④ banded grey qtz rich schist w seams graphite? rust and white compositional layering flat attitude if bedrock musc-qtz-chl 110 – 130 cm well fol^{d}

⑤ yllw qtz rich metamorphic w musc ± chl? well fol^{d} Fragm in bottom

E3 Sample if clean qtz pebbles from unit ③ 5 pcs

R D PENHALL LTD. MADE IN VANCOUVER, CANADA
DUKSBAK WATERPROOF

LEVEL

@ A3

125° 0m

200m E3 40 cm deep 100% graphitic args sch with fg grit very dark grey

035° 0m

50m E5 graphitic fine argill musc fg pelitic matrix dark grey, minor limonite qtz present

100m E6 dark grey, mainly limonitic graphitic qtz musc pelitic matrix 40 cm

150m E7 50 cm loss 60 cm chl green sandy soil w grit + pebbles chl-musc schist med green. No limonite

200 E8 very dark very graphitic sch w grits + wk limonite spots 30-40 cm deep under loess

250 E9 like E8 30 cm deep under loess

~~300 E10~~ not so graphitic?

300 E10 30 cm under loess qtz-musc sch w local limonite, felsic, very diff from E9 on flats (< 5°)

350 E11 micaceous phyllitic qtz + pelitic layers musc schist 40 cm under loss driest permafrost flat

400 E12 30 cm musc-chl sch w/ loss some pelitic sections

450 E13 40 cm gentle E facing slope Partly frozen sandy micaceous bn gritty soil

500 E14 30 cm loess very micaceous musc ± chl gritty sand soil, Limonitic colour

550 E15 30 cm sandy musc ± chl - qtz sch. Some pelitic "bands" on gentle E slope

125° 0m

200m end 0390,530/6,964,943

3 pits deep frozen loess > 70 cm

215° 0m frozen

50m E16 60 cm loess Grnish grey (till?) grit is subrnd to sub clan pit + qtzite grey wk cpx Definite E slope

100 E17 like E16

150 frozen

160 E18 chl grnish till like E16 part frozen

185 start into big trees on ridge

205 E19 chl grnish grey till mod clast pebbles 30 cm under loess

250 frozen

260 E20 grnish grey till on flank gentle E slope

305 E21 " " " " " " 30 cm under loss [All under loss]

350 frozen ~~for~~ mod loss + till

380 E22 ~~graphitic~~ sch talk @ edge big trees 20 cm loss there sch

R. D. PENHALL LTD., MADE IN VANCOUVER, CANADA
DUKSBAK WATERPROOF

LEVEL

430 E23 Blk graphitic sch. 20-30 cm deep colluvium w sand seam

490 E24 Blk graphitic sch definitely SWS qtz

545 E25 Dk grey graphitic gritty sch

600 E26 Blk graphitic sch 10 cm deep under loess

650 E27 Gn grey soil gritty
Some rusty frags
20 cm deep over bed

700 E28 Dk gush grey soil
20-30 cm under loess
0390,175 / 6,964,365

Wander towards Divide Hill

1030 E29 Grey soil
Just @ start big trees w limbs
uphill side of trees

@ B106
035° 0m

50m E30 Blk colluvium under 70 cm loess graphitic

100m E31 " " avg 100° graphitic

150 E38 Dk grey pelite frags w musc+qtz
graphitic surfaces under loess

200 B107

250 E39 med grey clay colluvium w
5-10% rusty musc frags Avg 5 cm
but grade colour smart plate

300 E40 as 1/1
gush grey sandy soil 1m deep
minor lm frags

350 E41 gush grey brn soil
no rusty frags but look guard

400 B108 0m 035°

50m E42 very limonitic clay soil w musc sch
40 cm under loess

100m E43 Blk soil w qtz grit Graphitic

150 E44 Musc rich colluvium Felsic
w qtz 60 cm under loess

R.D. PENHALL LTD. MADE IN VANCOUVER CANADA
DURASHAK WATERPROOF

LEVEL

@ B107
stake INTENTS NW June 13/2000
No 2 Post No 1+2 @ B107
SE
360 m E7

@ B107 30' from post
0389,878 / 6,964,920 alt 786 m

BRADEN AREA "C"

On lms Hill N north of swamp
with old survey tripod
078/80 S ?
084/44 S good persistent attitude of lms
200m C1 Btd. rnd cmpct fluvio
360 creek no silt 3"
400 C2 NE slope 20° 3" BS
600 C3 N " " 5-10° 4" BS
800 C4 4" BS 5-10° N slope
1000 C5 3" BS " " in
gravel bank + willows
1200 C6 5" BS 15° slope N
1400 C7 5" BS 5° slope in open area
bear hill to NW
1600 C8 5" BS 2° slope hill to N
1800 C9 5" BS 2-5° "
2000 C10 4" BS 10-15° NNW slope
2066
2035 rnd cobble (4") + sub-rnd 4" clasts
2200 C11 5" BS 15° NW slope
by tip up- dug pit + pits
246'
C12 2400 5" BS NW 15° slope
C13 2600 5" " " 10-5 "
2710 large clear blue lower gnst.

R.D PENHALL LTD., MADE IN VANCOUVER, CANADA
DUKSBAK WATERPROOF

LEVE

5-6"

2810 C14 BS in mostly WS fines
15° NW slope

2900 top up w till

3030 C15 5" BS sediments in WS fines
10-15° NW slope

3170 creek no silt running water

3240 C16 4" BS 5° slope sediments
all BS here

3350 outcrop
0405,675/6,962,973

NW

3500 C17 5" BS flats ~ mostly N slope
all BS here

3640 outcrop flowing W'ly
bowl ahead 10cm ± NE

3700 dry bank pipe - WS - bs
C18 7" BS total 2-3' wide ~ top
curling down towards ~ end

3730 clr blue-grey looking for TC dacite
mottled pale olive green colour in bank
also basalt w glassy phenocrysts ~ 1cm

3900 C19 WS 5" over BS 20° slope
into creek Burn @ top

3920 - 4070 lms mostly OC

4100 till w clasts quartz pebbles

3m
on east bank creek
C20 WS 4-5" slope w slope
70m top up much clay dk green
tspic (vc tuff?) to andes
fine ~ XRline matrix? ± chl
210 other side creek
C21 4" BS a 20° slope all BS
288°
400 C22 BS 5" in with pipe + c
in 10 cm seam
5-10° slope
600 C23 5-6" BS in ~ BS
5° slope
800 C24 4" BS flow WS?
1006 C25 5" BS 20° slope
" C26 4½" WS 15' away 20°
1200 C27 4" BS
1400 C28 5" BS
1600 C29 4" BS in swampy gul
2-5° slope
1800 C30 4" BS 10° slope
1900 top up v shallow in creek ti
2000 C31 4" WS
403,208/6,963,838
Second top up Falls

R D PENHALL LTD., MADE IN VANCOUVER, CANADA
DUKSBAK WATERPROOF

NE 0m

200m C32 5½" WS 7° slope
all WS Big trees

400m C33 4" BS all BS in flats

600 C34 4" BS " " " "

800 C35 4½" BS on flats ± WS?
beside creek flowing

1000 C36 4½" BS on solid ground
but still flat
1/4 50-100m wide visible ridge
ESkm?

1200 C37 4½" BS on slope with creek

1250 CK

1270 "trail"

Down CK

1400 C38 5" BS => typ trees?
in WS + crown grave on
sandy? open ridge

1630 C39 other side of side swamp
from E
5" WS? flat bank
all trees on flat are WS
down hillside above

1750 across hillside

4810 C40 6½" WS all WS typ
@ edge of burn

1890 grassy area Lots tree rubble in
mid till blobs - pebbles

403,351 / 6,965,310

2000 C41 6" WS on top of till bank
with pine @ edge burn

2200 C42 7" WS base till slope
into ck

2400 C43 5" WS top of bank @
edge of burn Till

2600 C44 5" WS on Till flats
in burn w Pine

2810 C45 6" WS in big trees
east of burn

3000 ± camp end of Lake

R. D. PENHALL LTD., MADE IN VANCOUVER, CANADA
DUKSBAK WATERPROOF

LEVEL

Up Creek from camp in open grassy hillside - few large Klan blds
fg. hbdite w garnet Tl blasts to 5mm
no Sp. Fault leading
in area C40 - C41 ±

@ C38 0m
up sand ridge 200m ± : then 114°
350 C46 8" BS on 5° slope just off of sandy hill edge
570 C47 6" BS in BS 5° swampy slope
Have crossed over to S side creek
760 C48 4½" BS just before burn good 5°+ slope grass + moss
810 tip up on loess w fill @ bottom
950 C49 6½" WS in grassy hillside 10° dry slope
1020 start big burn
1210 C50 Pine 2½" Dry hillside 15° slope Fine bark little sample material
1410 C51 3½" BS in burn few spruce many pike
1421 C52 2½" Pine very fine bark

1590 0405,258/6,964,433
1610 C53 3½" BS good comes above WS?
1620 C54 3½" Pine fine bark w pitch

032° 0m
200 C55 5" BS on ridge w Aspen + WS?
400 C56 3½" WS fine bark on ridge
515 tip up w loess
600 C57 6½" BS good comes on ridge
700 good (H) on small swamp
770 " (H)
840 C58 Pine cut off by flat
990 Subalp tspen - hbd gneiss
1000 C59 definite BS 4" School marm

280° 0m
10m tip up thin loess 5-10cm on till
30m mafic gneiss
125 thin loess + till
260 Q6 tspen hbd gneiss N-S strike vertical
320 C60 BS 5" 5° slope
540 C61 4½" BS good comes fairly thin
940 C62 6" BS on saddle

R. D. PENHALL LTD., MADE IN VANCOUVER CANADA DURKRAK WATERPROOF

LEVEL

1150 C63 6" WS 15° dry slope
1230 lmS OC 091/52 N
finely bedded w. ripples
start big OC
1550 veering mod OC + 30m
0404,540/6,965,516 8-2 meter
NW 0m top ups w. hill
200 C64 WS 5" Soft f. in beds
15-20' massive slope
430 C65 WS 10' in soft beds
in sea of beds + others
610 C66 8"-9" BS (fine)
7° slope
870 C67 7" BS 3 isolated trees
5° slope gullies
1090 C68 5" BS just into trees
fm old burn

@ Lake Camp
350' 0m
String line started clearing 0m
20m top up showing loose pebbles
240m big OC on open hillside
178/26 E fol^n in dark
hbd-phlg-fspar f.g gabbro? no pyx
mottled texture w more mafic segn^s
[illegible] mottled
chl + rsd "salt" common
280 top of hill, above texture thru-out
all OC.
0m 350°
450 C69 4" BS @ start of trees
690 C70 6" WS @ edge flats
OC ahead, 2 or 3 dominated
features + lines behind are (s)
710-730 160/20 E similar hbl-fspar
gabbro, Dk grey-fspar vfg dacite
5mm "marbles" in hbd + hbl rich
lenticular in OC
815-830 115/18 N similar OC
with finer grained texture on N side OC
(S) 084/60 N with fspar laminations
482,487/6,957,400

R. D. PENHALL LTD., MADE IN VANCOUVER, CANADA
DUKSBAK WATERPROOF

LEVEL

900 C71 6" WS small gouge N flats
045° ±
1130 C72 6" WS 2 trends only on small hill
1140 small OC gabbro like above
1225-1250 077/48 N OC same fg to mg
1250 top of hill N side dip slope
402,727/6,967,748

145/44 NE Big OC on Big Hill
E most traversed Mottled Gabbro
* 2m lms pods to horizon within section
Gabbro breaks to basalt as stringers and
chl-epi fabric of Mottled Gabbro
with rnables still present but smaller
2 mm± occasionally with crosscut

088/30 N schistose coinciding S
170° 0m on straight B Slope
215 C73 4" BS 5° Slope
370 open lab tea + burn tip up w less
rnd pebbles + 2 lam rusty cgs (S)
410 C74 on top dominant WS 4"
470 OC small outcrop basalt at top of hill
Pretty part of package to N

Braden Area "A"
Health
056/30 NW fol^n in schisty conglomerate OC
Some chl^d
010°/15 W fol^n in trench @ J21
depth of trench 1 shovel length 1½m±
Picture - shovel in approximate position original auger hole
Bedrock depth ~ 1 m
Bedrock is finely laminated dark (basalt) light grey and
rusty (muscovite rich) layers up to 5 mm thick
individually. Gritty Quartz layers 1 cm wide
½ cm long up to 3 cm wide. Some
fractures no vis sfd. Rock
Bedrock is decomposed and easily excavated by
shovel through most of NW end of trench.
Small Rocks extend well into bedrock > 1 m deep from
surface. Main rock mass consists of 15 cm deep
Organic layer is 5-10 cm thick
Next is variable thick; 30 cm @ top of trench
(5 cm @ bottom) of musc-qtzite clast cgs,
pebbles + fines overlying dark cgs
collectively top of grey rusty musc rich
schist. All rock is very schistose

J21 413,665/6,957,237

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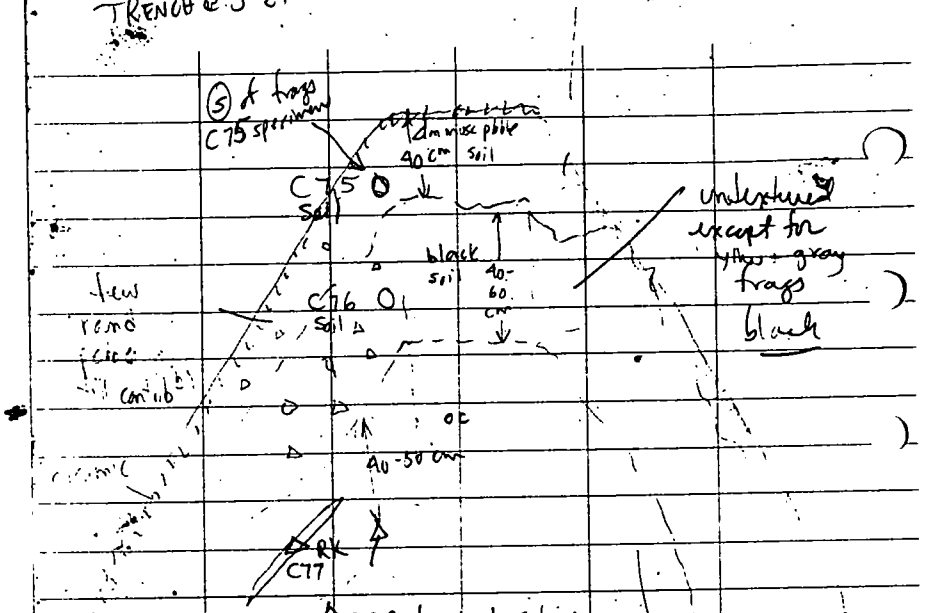
DUKSBAK WATERPROOF

TRENCH @ J21



C77 Qtz w lim⁺ frags + black sooty frags
(S) big C77 specimens.

CJ21

C79 4" WS 10°-15° slope by bank dry flux

330° 0m

50m C80 Soil musc rich w qtzite-musc cgl 5° slope 7 holes to get sample very vky coarse. T.V component in some of other holes. This one all alluv. 5cm loess.

C81 3½" WS fine felsty bank 5° slope 5m from C80

101m C82 Blk any⁵ Soil under 10 cm loess w some till (rnd pebbles)

C83 4" WS fine felsty bank 5° dry slope

150 C84 Drk olive green till w few rnd pbbles under 10-20 cm loess

C85 4½" WS Nearly flat sloping bank

200 C86 Drk grey to black colluvium w fine musc rich pebble gravel frags under 40 cm loess

C87 5" WS on flat

250 C88 Dark green + bn till under 30 cm loess Flat 5° slope

300 C89 Drk green till w musc rich frags 5° slope dry

060° 0m

160 NS break in slope (down ahead) Many Sawed Alan blks many qtzite Subcrop minor limonitic frags ± ⅓

200m C90 Blk + drk gn Colluvium + till mix gentle slope. No bedrock outcrops

150° 0m

NORPAC 1-800-480-3542 – 47 Level

50m C91 Gn + bn till w micaceous frags
same yllw
180m C92 Drk blk colluvium? w rnd pebbles
under 10 cm drk green + bn till
No loess.
150 C93 top of till chlor gn-bn w pebbles
94 + some loess? Under 50 cm loess
200 C~~100~~ Blk Colluvium Start aspen
10 m ahead Here on flats
limonitic frag in gopher hole
250 C95 Bn soil rich in musc and musc caps
1 in 2 rnd pebbles from till
At top of 10-15' scarp
300 C96 Drk blk colluvium w pale frags
shallow sample 15 cm
320 BL 2+ 40 to 66° from B21
0m
150° 0m
30m C97 Blk Colluvium w few rusty Lkn
frags No loess
80 C98 Highly micaceous light bn soil
some blk frags few
130 C122 Drk grey + bn colluvium(?)
multi colored frags with grey
180 C123 Drk olive green bn till Stg calcareous
hit shallow [illegible]
240° 0m
200m C99 Drk grey colluvium w rusty cps
5-10 cm loess

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130° 0m
60m C100 Drk grey colluvium w small scale
120m C124 Colluvium Drk blk to brn w
Lkn frags (some rusty)
C125 10 m to NE
5" WS Fine flaky bedrock
210 trench
C176 RC Rusty seam musc rich
in grey schist OC bedrock
are cm thick seams
45m back along line 150°
C177 Mid grey schist w one rnd pebble
+ Lkn frags many types schist
C178 3" WS fine flaky bedrock

E45 Rock chip 6 chips of limonitic
2 w brownish silica caps 2 km ~~east~~
from tip of 2 km E of Bicolour C
camp.

G2 soil pit on Area A Broadview

Pit dug 80 cm deep
Top 10-30 cm loose + veg mat
Then 30-60 green mica rich soil
and schist
60-65 discont? ash?
65-80 as for 30-60
Then an impenetrable layer at bottom of pit

G3 Pit 15 cm loose
50 cm pale gh like G2 mica
rich soil w/ clay ppt
muscovite + qtzite sch
Then some yellow (ammonite?
horizons
5 m from G3 soil auger holes

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BRADEN AREA WEST (ROAD CAMP)

At 01-B-105

125°
035°

for 200m - reset to 0m

- 100m A-1 dk grey green graphitic schist rich till w weak rust and angular white qtz chips (<5%)
  - Depth 100cm below silty sand.
- 150m A-2 same as A-1 only no qtz chips and more graphitic.
- 205m A-3 dk grey-graphitic till - 120cm depth
  - thin sand lenses between graphitic till layers (possible dilution w. 10-15% silty sand layers).
- 255m A-4 grey-graphitic till with angular float chips + weak rust in spots (depth 25cm - 45cm shallow) looks like decomposed bedrock.
- 300m below 25cm depth - A-5 25-40cm grey green graphitic till overlying:
  A-6 pale green, rusty chloritic/clay till (decomposed bedrock) with qtz chips. Looks clay altered and chloritized almost like fault gouge.
- 350m 25cm depth A-7 decomposed bedrock? dk grey graphitic chlorite schist
- 400m A-8 - same as A-7.
- 450m A-9 below 30cm depth - dk grey graphitic schist w. 5-10% angular white qtz chips - some rusty. One 2cm angular chip of rusty qtz with vuggy sections.
- 500m A-10 dk grey-green graphitic schist
- 550m A-11 pale grey muscovite rich ft w. 1% (decomposed qtz-musc. schist?)
- 600m A-12 dk grey-grn graphitic schist

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650 m A-13 (25-50 cm depth) pale grey to buff coloured musc-qtz rich till
(Qtz ser schist?)

-700 m A-14 (70 to 90 cm depth) buff coloured musc-qtz rich till

715 m at top of broad till

-750 m A-15 med grey till - musc-qtz-chl-grph w. chips of graphitic-chlorite-qtz schist

-800 m A-16 grey basal till - mixed chips graphitic schist, musc-qtz, musc-qtz schist

305° for 400 m

reset to 0 m

215°

0 m A-17 reddish brown till - musc qtz rich angular chips rusty musc-qtz ss.

50 m A-18 30 to 50 cm depth → pale grey brown musc rich till

100 m - A-19 30 to 50 cm depth light brown musc-qtz rich till

150 m - A-20 grey brown till 50 to 70 cm depth - musc rich - grey qtzite chips in till

200 m - A-21 " " " "

250 m - A-22 " " " "

300 m - A-23 grey brown slightly sandy till - ang. chips lt grey-green chl-qtz chips

350 m A-24 30-50 cm depth - dk grey green graphitic-chlorite schist chips - 5-10% qtzite-qtz chips

400 m A-25 till composed of dk grey green graphitic chlorite schist — 30-50 cm depth

450 m A-26 dk grey graphitic schist till

HS 15 m to 125° from A-26
5 m x 2 m wide outcrop? of massive white quartz w minor rusty wiggy spots

A-29 Predominant Fracture (possible vein of Hinzite)
@ 135/47 SW
- several smaller angular boulders of same (¼ to 1 m)

back at A-26 continueing along 215°

500 m A-27 dk grey graphitic chlorite till
- angular qtz chips in till

550 m A-28 slightly sandy but mostly dk grey till

At Sample A-28 - 305°
- 335 m crossed strong lineation 30 m @ 215° from 01-B 112

At 01-B 112 reset to 0 m
305° - 200 m reset to 0 m
035

-0 m A-30 grey brown basal till - mixed angular chlor schist, qtz musc schist
- 90 cm loess, 2 cm ash 95-110 cm till sample
-50 m below 40 cm loess - A-31 good grey-green basal - mixed rounded - sub round floats: qtz, chl schist

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NORPAC 1-800-480-3542 – 47 Level

100m - 100+ cm loess + sand - no sample
125m - A 32 grey brown slightly sandy till
below 100 cm loess
- mixed float but 10-15% white qtz
float varies from angular to rounded
175m no sample
loess to full depth of auger
- more clay rich layer with 1 cm
sub angular qtz pebbles at 1m depth

-200m no sample - thick loess
-250m " " "
-300m A-33 brown grey slightly sandy till
at 120 cm depth - mixed float but mainly
chlorite schist + qtz-musc schist
- Qtz pebble layer at 50-60 cm depth
-350m A-34 brown grey till - mixed float
of argillite + chlorite schist - depth 50 cm

-400m A-35 brown till made up almost
completely of qtz-musc schist chips + decomposed bedrock

-450m A-36 brown decomposed
qtz musc schist. - 30-40 cm depth
-500m A-37 " " " 10-20 cm depth
-550m A-38 brown decomposed musc-qtzite.
10-20 cm depth
-600m A-39 lt. brown silty soil - angular
chips of musc-qtzite. 10 cm depth
-650m A 40 lt brown soil - angular chips of
chloritic-musc qtzite. 15 cm depth
(620m at break in slope)

680m at top of ridge (fairly narrow
685m sub crop. chlorite schist w massive
700m A 41 dark green till/decomposed bedrock
argillaceous chlorite schist

125° reset to 0m
[redacted] 120-125m sub-crop weakly musc
- [redacted] white qtzite w. minor muscovite
360m 215° reset to 0m

-0m A-42 light brown soil - decomposed
muscovite qtzite (some rounded pebbles of white qtz
-50m - Thick loess (70cm the permafrost)
-75m at top of ridge
-100m A-43 dk green till/decomposed argill-c
-145m crossed strong line (from 2001 sampling)
-150m A-44 grey till mainly decomposed
chlorite schist - 10-15% angular brown
musc-qtz schist - minor qtz pebbles
-185m A-45 rock from sub crop of rusty
musc qtzite - 35% weathered at pit a
from tailings pile of 2 km. long trench
(possible cored in borehole)

-200m A-46 brown till mainly musc-qtz schi
-250m A-47 brown till mainly chl-musc-qtz sc
(20 cm depth)
-300m A-48 " " " " "
-350m A-49 wet brown till from 50-60cm d
angular chloritic qtzite chips
-400m A-50 grey till >50% decomposed chips ci
-450m E-31 brown slightly rusty till
- decomposed musc-qtz schist w. some rusty veg
& quartz.

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NORPAC 1-800-480-3542 - 47 Level

- 500m E 32 light grey HM mainly decomposed chl. musc-schist - minor qtz

- 550m thick sand - no sample
- 555m E 33 grey HM w minor qtz chips in HM (20 cm HM layer with base above and sand below)
- 600m E 34 grey HM mainly decomposed argillaceous - qtz - chl - musc schist
- 650m E 35 grey HM approx 50% argillaceous - chloritic qtz schist
- 705m E 36 grey HM mainly decomposed argil. - chl - qtz schist.
- 740m hit strong line 165m @ 305° from A-28

At sample E 28 [125°]
- 400m [055°] reset to 0m
  - 0m A 51 - decomposed bedrock till - dk grey green argillaceous - musc chl. schist w. 3-5% qtz pebbles - (sb round) [60-80 cm depth]
  - 50m A-52 dk grey green till mainly decomposed argillaceous - chl. - schist 5-10% white qtz chips [20-30 cm depth]
  - 100m A-53 light brown till mainly decomposed chlorite - musc schist [25-40 cm depth]
  - 150m A-54 dk grey-green decomposed argillaceous chlorite schist [20-30 cm depth]
  - 200m A-55 " " " " "
    only slightly more argillaceous w. 5% qtz chips

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E 29 to E 28

- 210m break in slope (flat ridge ext)
- 250m A-56 dk grey green decomposed argill-chl. sch [35-50 cm]
- 300m A-57 dk green decomp. chl. sch [25-40 cm depth]
  - at top of ridge
- 350m A-58 dk grey green decomp argill.- chl schist w. qtz chips [45-60 cm depth]
- 400m A-59 lt grey decomposed argillaceous - chlorite schist [50-60 cm depth]
- 450m A-60 grey green till mainly decomp. chl. schist [40-50 cm]
- 500m A-61 dk grey green till - 50% decomposed chloritic schist fragments - [50 cm depth partly frozen]
- 550m no sample - permo frost
- 565m A-62 grey green good clay basal till
  - 5% rounded chips of chloritic schist + lt
  - minor qtz pebbles
- 600m permo frost - no sample (N slope)

[305°] for 200m
[215°] reset to 0m
- 0m permo frost - no sample (N slope)
- 55m A-63 grey green good basal till
  - sub round float of argillite, chl.-schist, qtz [50-70 cm depth]
- 100m A-64 " " " " " "
- 150m A-65 " " " " " "

NORPAC 1-800-480-3542 - 47 Level

200m no sample - perma frost

210m A-66 brown grey basal till
mixed flour [40-50cm depth]

-255m A-67 grey green basal till
- argillaceous - chl - schist, qtz, + chl - schist frt
[40-50 cm depth]

-305m A-68 dk grey ~~till~~ mainly
decomposed argillaceous - chl - schist w,
5-10% qtz chips

-320m at top of ridge

-355m A-69 dk grey green decomposed
argillaceous - chl. - schist [30-40cm depth]

-400m A-70 " " " " "

-450m A-71 lighter grey till made of
decomposed argillaceous - musc - chl - schist
w. some qtz chips (5%)

-500m A-72 dk grey decomposed graphitic
looking schist - [10 to 30 cm depth]

-550m A-73 lighter grey - argillaceous - musc - chl - schist
- 5% qtz chips [30 to 40 cm depth]

-615m A-74 " " " " " " "
hit cross line 187m to 305° from A-51

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BRADEN AREA 'C' (NORTH)

BIOGEOCHEM SAMPLING

At 3203¼' Limestone peak (just N. of small sno

336°

250m - F-1 3-4" diam blk spr. bark.

NOTE: All samples taken over 2' length of trunk centred at chest height from complete circumference of tree.

465m F-2 4" diam blk spr.

715m F-3 4-5" diam blk spr.
(No cones visible on ground or tree - slight reddish tinge to under bark, but definite blk spr. form)

970m F-4 3" definite blk spruce
- Sm. cones still attached near trunk - all the way up tree - yellowish under bark

860m Crossed creek

-1280m F-5 3" blk spruce - bigger bark flakes

-1400m F-6 4½" blk spruce " " "

320°

-1600m F-7 3" blk spruce.

-1800m F-8 " " "

-1990m F-9 " " "

-2090 start of flatter wetter terrain

-2235 F-10 3" blk spruce - bigger bark flakes

-2330 - 2420 m Swampy area

-2450m F-11 3-4" blk spruce.

-2470m from terrain Pine dominant. (2 needle 2" cones)
South facing slope

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2610m – at top of ridge.

270°

-2675m – F-12 5-6" black spruce in amongst pine trees

-2800m stepping into Valley
- F-13 sub-crop of weak Calc Pyrox Skarn? mineraliz" w. 3% fg. diss py., traces chalcopy + malachite?, possibly up to 5% v. fgr. Sphalerite

-2900m F-14 3-4" black spruce
-2975m crossed N-S muddy creek.
-3075m F-15 5" black spruce.

300°

-3250m F-16 5" white spruce
F-17 3-4" bk spruce (1 foot from F-16)

NOTE: Bk spruce vs W.Sp
Yellow underbk ⟷ red underbk
All but tips of lower branches dipped w. bk angle here. ⟷ Clean lower branches w. needles to trunk

Outer bark more silvery white.

-3425 F-18 3-4" bk. spruce
-3680m F-19 4" bk sp
-3890m F-20 3" bk sp right at edge of burn clearing (trunk split in several places due to heat)

-4080 F-22 3-4" White sp.
4085 F-21 3-4" bk sp.
-4290m F-23 3" " "

-4510 F-24 3-4" bk. spruce.
-4720 F-25 " " "
-4950m F-26 " " "
-5190m F-27 " " "
-5300m at base of elongate hill trends NE-SW.
outcrop hbld-bist altered meta basalt.
foliation (flow lines) 060/75 NE

-5320-5380m outcrops unaltered dk green amygdaloidal basalt – flow attitude 054/50-60NE
-5370m at top of hill
-5500m F-28 5" White Spruce

5700m F-29 3-4" bk Spruce (under bk + reddish yellow)
5800m 270° Cones W. 1/4 P

-5910m F-30 3" bk spruce
-6100m F-31 3-4" "
-6300m F-32 3" bk spruce
-6520m F-33 4" bk spruce
-6840m F-34 " " "
-7060m F-35 " " "
-7260m F-36 4" pine 2 needles 2" cones Plus dwarfs
-7420 outcrop dk green amygdaloidal basalt
flow layer attitude 045/48 SE
-7480m F-37 4" PINE
-7690m F-38 3-4" black Spruce
-7950m at NW end of small lake.

NORPAC 1-800-480-3542 – 47 Level

At NW end of small Lake.

270° - 950m crossed large NW flowing creek
- 1025m crossed dry N-S creek
(50 to 100m up from lake)
- 1050m F-39 3-4" black Spruce.

250°
- 1290m F-40 4-5" white spruce.
- 1505m F-41 5" bk. sp.
- 1700m F-42 " " "
- 1900m F-43 6" bk sp.
- 2080m F-44 6" white spruce
2090m F-45 5" bk. sp.
- 2325 F-46 5" bk sp.
- 2525 F-47 5" " "

300°
- 2730m F-48 5" bk spr.
- 3000m F-49 4-5" wh. spr.
- 3270m F-50 5" bk spr.
- 3535m F-51 4" bk spr. at 3650m top of small hill
- 3780m F-52 5-6" wh spr.

360°
- 3900 - 4050 burn + swamp - no trees
- 4080m at base of hill no conifers (all alder)
- 4360m F-53 willow shoots (2 yr old wood)
- 4400 - 4435m outcrop to top of hill of well foliated biot-chl-schist - minor sections with musc-qtz.
foliation 076/50 NW
- 4445 at top of hill

1015°
4570m F-54 willow shoots 6-7' tall willows

- 4775 F-55 Willow shoots
- 4920-4950m outcrops of andesite dk-green - only weakly altered
- 4980m F-56 willow shoots
F-57 12" diam white spruce.
- 5210m F-58 4-5" diam wh spr.
- 5350m at base of hill
- 5450m F-59 5" wh. spr

Started contouring approx SE (110°)
reset to 0m.
50-70m outcrop dk green andesite - bas
210m started heading 160°
350m F-60 5" white sp.
heading 110° again
550m F-61 3" bk spruce
800m F-62 3-4" white spruce
1055m F-63 3" bk spruce
F-64 4-5" white spruce
1300m F-65 4" bk. spr
1350m F-66 f.gr. sandy silt from small creek flowing NE float mixed meta vx + mafic vx w. minor qtz, granite
1600m F-67 4" bk spr
1920m F-68 5" bk spr
2180m F-69 4" bk spr
2330m F-70 f.g. sandy silt from med creek flowing N - similar float to F-66 creek.
2555m F-71 3" bk spr.
2790m F-72 4" bk spr
3030m F-73 " wh. spr
3040 on ridge top
3310m F-74 5-6" wh. spr.
3594m hit string line approx 100m due N of center of small lake

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0m trail 500m W of NW end of small lake

240°

- 80m crossed med creek flowing W, circa 1 dia
- 650m crossed sm creek flowing S - no silt
- 1340m on top of NW-SE esker
- 1820m F-75 4" bk spruce

180° reset to 0m

- 205m F-76 4" bk spruce
- 400m F-77 5" wh spr
- 645m F-78 6-7" wh spr
- 860m F-79 5" bk spr
- 1060m F-80 4" wh spr
- 1265m F-81 4-5" wh spr
- 1470m F-82 5-6" wh spr at top of small h.

090° reset to 0m

- 200m F-83 4-5" bk spruce
- 200-350m flat swampy area
- 395m F-84 4" bk spruce
- 600m F-85 4" " "
- 800m F-86 5" bk spr
- 850m underground spring
- 995m F-87 4" bk spr
- 1200m F-88 4" " "

010° reset to 0m

- 200m F-89 3-4" bk spruce
- 400m F-90 " " "
- 600m F-91 4" bk spr
- 805m F-92 4" " "
- 1000m F-93 6" " "

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- 1200m F-94 4" bk spr
- 1350m E-W Esker
- 1425m F-95 4" bk spr
- 1625m F-96 3" bk spr
- 1845m F-97 4" bk spr
- 2035m F-98 5" bk spr
- 2230m F-99 5" " "
- 2330m hit creek out of lake right at this morning crossing

headed E towards base along N base of spt

- 2450m F-100 8" white spruce

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BRADEN A.

Put in BL-21 [060°]
- 400m started dropping into gulley
- 650m at bottom of gulley heading 030°

Back at 6+00m to 060° (From J-21)

[150°]
- 0m C-101 med green clay rich talus consisting of decomposed chlorite schist w. muscovite (50cm depth)
- 20m at center of gulley
- 50, 60, 80m thick loess no sample
- 75m sharp break in slope (possible bench boundary)
- 100m C102 grey green talus - decomposed gneiss musc chl-schist (50cm depth)
- angular boulders nearby of med green - chloritic-metavolc with 3-5mm pyroxene xtals in a fine crystalline matrix - musc - pleg? groundmass

[outcrop located access gulley at 250° - See GR NOTES]

- 115m At top of slope
- 150m C103 grey green basal till - somewhat chloritic with rounded float (mixed) - rusty soil
- 200m C104 grey green chloritic schist lithology till sandy till.

[240°] to- 200m - 73m top of gulley - 180m bottom

[330°] next to 0m
0m - C105 black graphitic schist - base of WS side of gulley
50-125m no sample - thick loess
150m C106 med green decomposed chloritic schist.
- foliated meters o.c. located 15 to 40m to 240°
205m hit BL21 @ 4+25m to 060°

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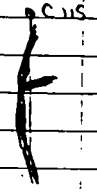
At B21 4+00m to 060° [330°]

-0m C-107 black till - decomposed argillaceous matrix? 30-40 cm depth

1-50m C-108 green chloritic till 40 cm depth
-100m C-109 same as C-101.
-150m C-110 black graphitic looking till from 40cm depth
-200m C-111 dk grey-blk argillaceous till with some chlorite -50 cm depth
-250m C-112 " " " " "
-300m C-113 grey brown till - mainly decomposed musc-qtzite - some chloritic chips ~ ang. float of musc-qtzite nearby 50cm
-350m C-114 grey basal till ~ rounded pebbles of argillite, qtz, chl-sch. 50cm
-400m C-115 dk-grey basal till ~ small chips argillite 50 cm.

[060°] -30-40 oblique xing - Fire break rd.
80-90 right angle xing " "
180-200m same rd as 30-40



[150°]
-0m C 116 brown grey slightly sandy basal till - rounded qtz + metased fill.
-50m C 117 " " " "

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100m no sample - thick loess + sand
120m " " " "
150m " " " "
200m " " " "
225m C 118 black sooty till - graphitic argillite 50 cm
260m C 119 " " " 50 cm
300m C 120 dk grey argillaceous till - lighter grey clay underneath 40cm.
350m C 121 till consists of top dk grey 10cm thick layer over 15cm lt green brown chlorite-musc rich till over near pure musc.
400m at center of gully - hit B21 @ 6+50m to 060°

At B21 0+00m
[240°] 275m - possible N-S overgrown rd.

At B21 4+00m to 240°
[150°]
0m G-1 Till consisting of 10cm of dk. grey colluvium overlying weakly limonitic brown musc-rich colluvium. Rounded pebbles of qtz in both layers

50m G-2 Till with 2 layers: 20-30cm depth dk grey till with rounded argillite, qtz, + limonitic qtzite pebbles over 30-40cm depth chlorite/muscovite rich decomposed bedrock [note: from overgrown dozer trail - fire break rd?]

-100m G-3 Green till layer with rounded pebbles over strongly limonitic - clay rich layer (20-30 cm depth) - 1m granite erratic nearby

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150m G-4 med green chlorite rich HM with some limonite 40-50cm depth - below 20cm loess + 2cm darker grey weakly limonitic colluvium

200m G-5 med green HM - angular to sub-round chips of mafic vx (andes) + argillite (30-40cm depth)

060° for 200m
330° react to 0m

-0m - G-6 green chloritic HM - minor muscovite - sub round float cfs. K-feldspar xtal in chloritic rock.

50m - G-7 reddish brown muscovite rich to lots of (some musc. flakes up to 2mm) - 5mm limonite layer at 30° angle to vertical auger hole. 50-60cm depth

100m G-8 green chloritic HM from 1m depth - 20cm loess on 10cm green to then 50cm loess

150m G-9 med green chloritic HM (30-40cm depth)

190m hit BL 21 1+75m to 240°

At BL 21 2+00m to 240°
330°

0m - G-10 green clay rich chloritic HM w muscovite - weakly limonitic throughout w several spots 2-3mm of more concentrated limonite - sub ang chips of limonitic qtzite

50m - G-11 black decomposed argillite HM starting at 5cm depth

190m G-12 dk grey clay HM same rounded pebbles as well as angular qtz + argillite chips - 100m slope flattens

150m G-13 same as G-12

160-190m crossed N-S overgrown rd. [at 160m dozer pit indicates good basal HM with sub-ang to sub-round calcareous argillite and qtz-graywacke float → HS.] 50cm

200m G-14 grey green good basal till - some sub round qtz float but mainly argillite 50cm

-250m G-15 dk green grey basal till - lots of argillite chips and some minor chloritic 50cm

-300m G-16 " " " "

-350m G-17 grey green basal till - argillite chips

-400m G-18 dk grey green basal till chloritic with limonite rich spots

240° for 200m
150° react to 0m

-0m - G-19 dk grey green basal till sub round to sub ang flt. mainly argillite + graywacke minor qtz-musc.

-50m G-20 blk argillaceous HM - sub-rounded to sub ang. argillite chips - minor musc-chl. chips

-100m G-21 dk green grey basal till - chlor-argill. 5% sections of weakly limonitic, musc. rich spots

-150m G-22 dk grey basal till 20-40cm depth

-200m G-23 " " 15-25cm depth

-250m G-24 dk grey green basal till - rounded qtz pebbles - sub ang dk grey qtzite - angular argillite

-300m G-25 dk grey basal till + rounded float - lots of decomposed dk grey argillaceous qtzite chips

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350.11 - G-26 layered silt

20% / ~5 cm upper dk green over

50% ~30 cm strongly oxidized limonitic silt

20% over ~5 cm whitish ash

10% over ~20 cm green-brown chloritic clay

10% over greenish brown chloritic, weakly limonitic silt w. qtz rock chips + 50% loess mixed in?

Sample Make-up

~395m hit B21@3.80m to 240°

3 biogeochem lines
YEGS 1996 p 79

AREA B
FIGURES 3,4

AREA C
FIGURES 5

AREA A
FIGURES 6,7

CAMP

YMIP 02-060 G. Richards
BRADEN AREA
1:50,000
Sample location Map
Dec 8/2002

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