42D15NE0034 2.6648 WALSH

010

GEOCHEMICAL SURVEY REPORT

WEST HEMLO PROPERTY

CUMBERLAND RESOURCES LIMITED

Turri and Walsh Townships
District of Thunder Bay
Ontario

RECEIVED
APR 1 0 1984
MINING LANDS SECTION

February 1984,
William McCrindle,
Geologist.

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010C

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INTRODUCTION

During the months of May through August 1983, Cumberland Resources Limited operated a line-cutting and geochemical sampling program on the combined properties in Turri and Walsh Townships of Ontario. The property is recorded in the name of Cumberland Resources Limited and owned through legal agreement by Dynamic Oil Limited, Vancouver, 50%; Redfern Resources Limited, Richmond, B.C., 20%; Saco Resources Limited, Edmonton, Alberta, 5%; and Cumberland Resources Limited, Thunder Bay, Ontario, 25%. By agreement of the partners, Cumberland Resources Limited is the manager in charge of exploration on this property.

This report is prepared to fulfil the requirements for both assessment credits and for the Ontario Mineral Exploration Program grant application.

The field survey party consisted of 2 men in May and June and 4 men for the balance of the program, with occasional assistance. The project was supervised by William McCrindle, geologist, the author of this report.

The Turri Township property consists of 75 contiguous, unpatented mining claims. The Walsh Township property consists of 18 contiguous, unpatented mining claims. The Walsh property lies 2 km east along strike from the Turri property.

The data contained in this report is derived from the analytical geochemical results determined for 1481 samples; 1254 from Turri Township and 227 from Walsh Township. All samples were analysed for 26 elements by the ICP method plus aqua-regia for gold at Min-En Laboratories in North Vancouver.

Coincident with this geochemical survey, Aerodat Limited of Mississauga, Ontario, was contracted to conduct a helicopter-borne geophysical survey. The results of this survey were filed for assessment credits with the Mining Recorder in Thunder Bay.

Preliminary plotting of the early results from Min-En indicated anomalies in a number of elements. Some of these anomalies were checked by prospecting. On an important copper-gold anomaly, a 25 meter grid on 100 meter line spacing was detailed.

A comprehensive computer analysis of all geochemical data from Turri Township claims was conducted by Control Data Canada Limited of Vancouver. Ten critical elements were then selected for computer mapping. On these maps an anomaly is assumed to occur at mean plus two standard deviations. Thus intensity lines of mean plus 2, 3, 5, and 10 standard deviations are drawn on the Turri maps. The geochemical data from Walsh Township was plotted and contoured by hand. Geochemical maps for elements, arsenic, lead, molybdenum and gold only are included with this report.

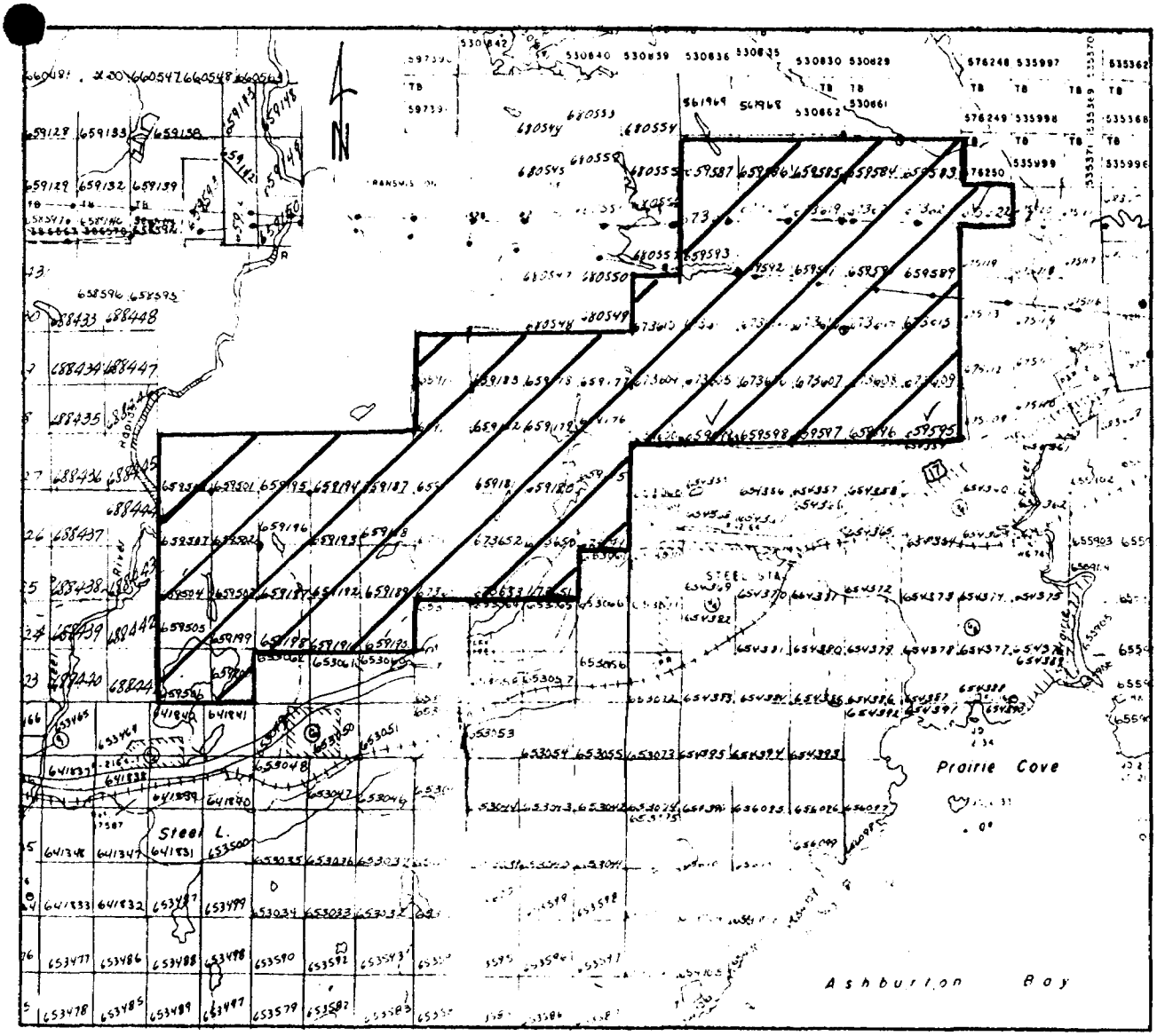
DESCRIPTION OF THE PROPERTY

The recorded holder of the property is Cumberland Resources Limited of Thunder Bay. A total of 93 claims covering approximately 3720 acres of land comprise this property. The claims cover land that is similar in geological stratigraphy and structure and thus are considered together in this report. In Turri Township, there are 75 contiguous unpatented mining claims in one group and in Walsh Township, 18 unpatented mining claims are also contiguous. The two claim groups are held in good standing by Cumberland Resources Limited.

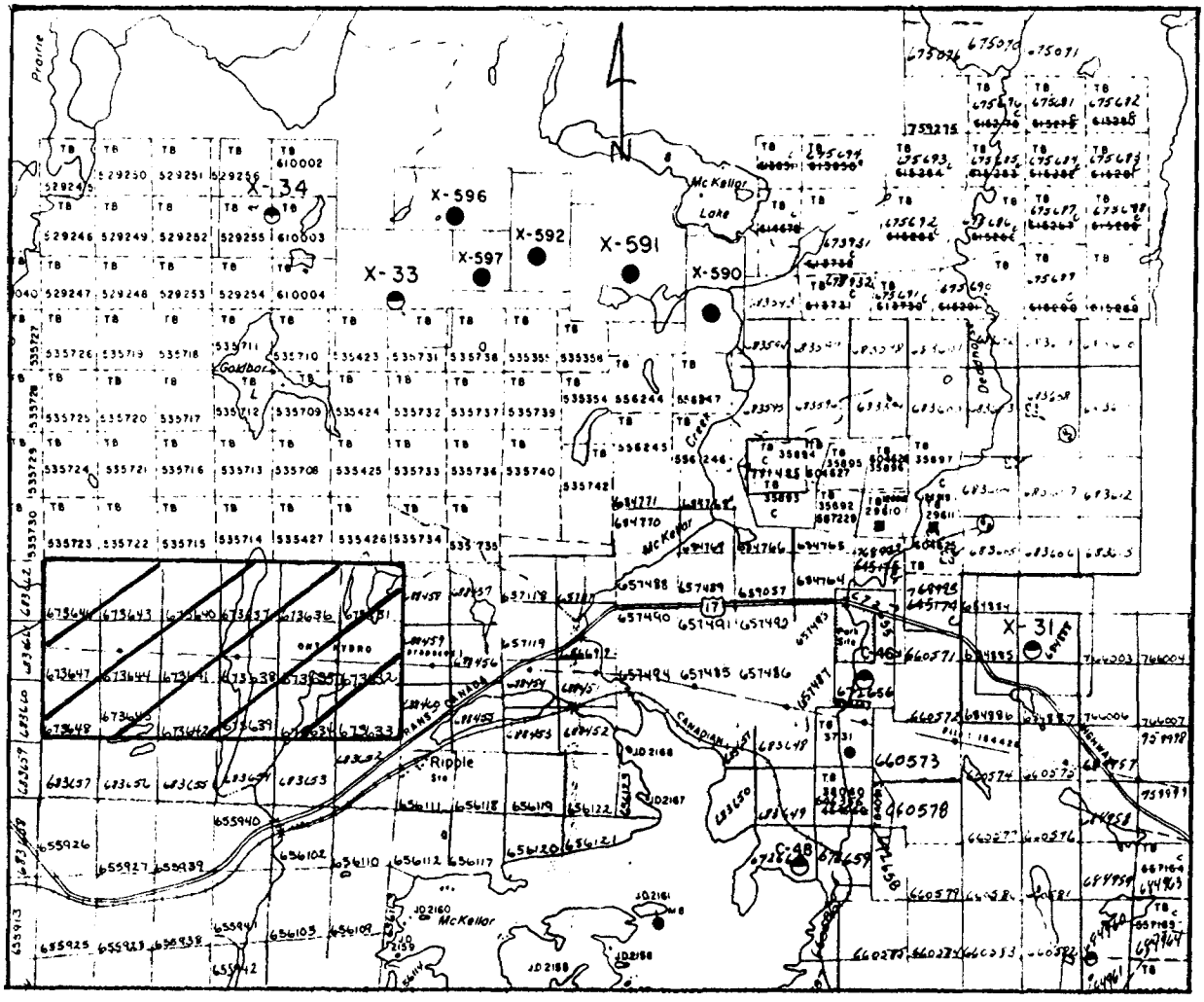
All claims were recorded in November 1982. An application has been submitted to the Mining Recorder at Thunder Bay for 80 assessment days per claim for the heliocopter-borne geophysical survey. The claim groups are outlined on the Turri Township claim map #G635 and Walsh Township claim map #G636 (Maps A and B respectively), of the Ontario Ministry of Natural Resources in the Thunder Bay Mining Division.

The Claim Numbers are as follows:

Claim number	Number of claims	Recorded date
Western group - Turri Township G635		
TB659175 - 659200 inclusive	26	Nov. 8, 1982
TB659501 - 659508 inclusive	8	Nov. 8, 1982
TB659583 - 659587 inclusive	5	Nov. 8, 1982
TB659589 - 659593 inclusive	5	Nov. 8, 1982
TB659595 - 659600 inclusive	6	Nov. 8, 1982
TB673604 - 673615 inclusive	12	Nov. 8, 1982
TB673617 - 673622 inclusive	6	Nov. 8, 1982
TB673649 - 673655 inclusive	7	Nov. 8, 1982
Eastern group - Walsh Township G636		
TB673631 - 673648 inclusive	18	Nov. 8, 1982



CUMBERLAND RESOURCES LTD.	
TURRI TOWNSHIP PROPERTY TURRI TWP., TERRACE BAY DISTRICT	
scale: 1 : 47,500	
map title CLAIM MAP	date JAN. 1984 map no. A



CUMBERLAND RESOURCES LTD.	
WALSH TOWNSHIP PROPERTY WALSH TWP., TERRACE BAY DISTRICT	
scale: 1:47,500	
map title CLAIM MAP	date JAN. 1984 map no. B

LOCATION AND ACCESS

The properties are located north of the western side of Ashburton Bay on the North shore of Lake Superior, approximately 20 kilometers east of Terrace Bay, Ontario. The Turri Twp. claims lie 2 kilometers north of Prairie Cove on Ashburton Bay within the south half of the township. The Walsh Township claims lie 1 kilometer north of Prairie Cove in the south-west quadrant of the township. Highway 17 runs nearly parallel to and contacts the claim group (Map C) on the southern boundary.

Access to the two claim groups is via the Trans Canada Highway east from Terrace Bay 20 kilometers or west from Marathon 26 kilometers. The Prairie River passes between the two groups which are 2 kilometers apart. The Prairie River access road parallels the river and is driveable to the first power line and by 4x4 to the second power line. The east end of the Turri claims is 250 meters west of the Prairie River road. The west and central parts of the Turri claim group are accessible from highway 17. The Walsh claim group is accessible from highway 17 or the east end can be reached by walking west along the north powerline from where it crosses the highway east of Ripple Lake.

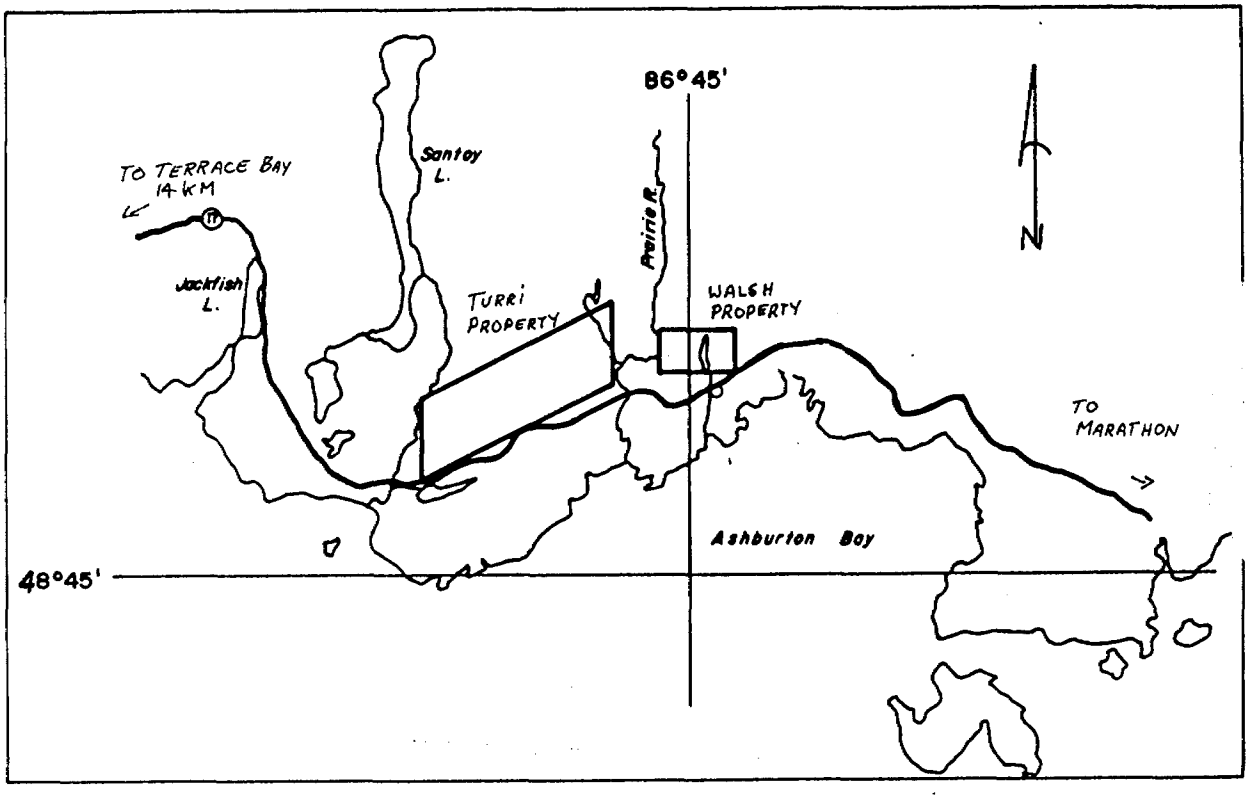
PHYSIOGRAPHY AND VEGETATION

The properties are located within the Canadian Shield Physiographic Belt of Canada. This area is one of the most rugged in the Canadian Shield with elevation changes in the order of 200 m. The property elevation ranges from 200m to 400m.

The claims are covered with a thick second growth of white birch, balsam fir, black spruce, jackpine and poplar. The underbrush is locally very dense with growths of moose maple and tag alders.

Water is readily available from the many small creeks and lakes or ponds scattered throughout the property.

The total rock exposure over the property is approximately 60%. The outcrops are best exposed on hilltops, cliff faces, and valley walls.



CUMBERLAND RESOURCES LTD.	
TURRI & WALSH TOWNSHIP PROPERTY TERRACE BAY DISTRICT	
scale: 1:250,000	
map title LOCATION MAP	date : JAN. 1984 map no. C

HISTORY AND PREVIOUS WORK

The only known record of work performed within the boundary of the property was carried out by Consolidated Mining and Smelting Limited in 1964. Five diamond drill holes tested geochemical anomalies in graphitic shear zones containing up to 40% pyrite within a siliceous greywacke sedimentary sequence. Two or three of these holes were within the northeastern boundary of the Turri Twp. property. Remnants of Cominco's grid is still visible in the area. No record of any other work was found in the assessment files or regional reports.

REGIONAL GEOLOGY

The general geology of the Turri and Walsh Township areas is shown on map #2107 "Jackfish-Middleton Area", published in 1967 at a scale of 1"=½ mile. This report accompanies Ontario Geological Survey Geological Report #50 by J.W.R. Walker.

The oldest rocks in the area comprise a system of nearly conformable Early Precambrian volcanic and sedimentary rocks, intruded by basic rocks. The area has undergone folding, regional metamorphism and intrusion by Early Precambrian granitic to syenitic bodies. Late Precambrian intrusive rocks of probable Keweenawan age include the Coldwell Syenitic Complex to the east and many diabase dykes.

The structure of the area is moderately complex. The volcanic-sedimentary sequence has been folded and intruded by irregular bodies of diorite. Transverse faulting is probably related to the Keweenawan downwarping of the Lake Superior syncline and the intrusion of the Coldwell Complex.

PROPERTY GEOLOGY

This Cumberland Resources Limited property is situated at the eastern end of the Schreiber greenstone belt. The company believes that the volcanic-sedimentary sequence on this property may well be a westward extension of the Hemlo auriferous horizon off-set and displaced by the Coldwell Syenitic Complex. The most detailed information available on the geology of the property is Map 2107 and the "Jackfish-Middleton Report" by Walker. During the past field season only a few reconnaisance geological mapping and prospecting traverses were carried out. A detailed geological mapping survey is recommended for the spring or summer of 1984.

The Walsh township claim group appears to be underlain mainly by sediments, intruded by an elongated granitic plug which broadens to about 200 meters at its widest point, and cross cut by a diabase dyke. The grade of metamorphism is between the garnet and amphibolite facies.

The Turri Township claim group is generally a lower metamorphic grade as it is further away from the Coldwell Intrusive. The metavolcanics, metasedimentary and intrusive rocks are foliated in a northeast-southwesterly direction. These rocks tend to be similar to the host rocks of the Hemlo gold deposits to the east.

GEOCHEMICAL SURVEY PROCEDURES

During the months of May though August 1983, Cumberland Resources Limited operated a line-cutting and geochemical soil sampling crew on the combined properties in Turri and Walsh Townships of Ontario. A total of 1481 samples were selected from the 93 claims; 1254 from the Turri property and 227 from the Walsh group along 65 kilometers of grid.

A baseline with an attitude of 258° was run from the eastern property boundary where it intersected the south powerline, approximately 0.5 kilometers west of Prairie River. The baseline was cut and chained parallel to the strike of the bedrock for a distance of 6000 meters or 6 kilometers to end at a cliff above the Steel River at the West property boundary. The grid system consisted of

crosslines blazed, flagged and picketed at 200 meter intervals. The crosslines each extended to the north and south property boundaries. Pickets were placed at 50 meter intervals on the crosslines.

Later geochemical samples were systematically selected from the "B" soil horizon by digging a hole in the soil profile with a grub hoe. The "B" horizon tended to vary in depth from 20cm to 40cm from the surface. The hole was then cleaned out by hand and an earth material sample of approximately 500 grams was placed into a 10cm x 17cm wet strength waterproof kraft sample bag. Whenever a crossline intersected a stream bed, a stream silt sample was collected. The samples were later dried thoroughly in the sun.

GEOCHEMICAL ANALYTICAL PROCEDURE

All samples were forwarded to Min-En Laboratories Limited, 705 West 15th Street, North Vancouver, B.C. V7M 1T2 for analysis. Each sample was seived and the -80 mesh component was analysed. The method of analysis was 26 element inductively coupled argon plasma plus aqua-regia for gold. The assays for the 26 elements were reported in P.P.M. and the gold in P.P.B.

The detection limits are as follows:
1 P.P.M. for Ag, Cd, Co, Cu, Mn, Pb, Ni, Sr, Zn, Mo
3 P.P.M. for As, Sb, U, Th, B, Bi, V
0.001% for Al, Ca, Fe, K, Mg, Na, P
5 P.P.B. for Au

On the Turri Property a computer statistical analysis was conducted on a contract basis by Control Data Canada Limited, 601 West Cordova Street, Vancouver, B.C. V6B 1G1. Due to cost constraints 10 critical elements were selected for computer mapping. On these maps an anomaly is assumed to occur at mean plus two standard deviations. Thus intensity lines of mean plus 2, 3, 5, and 10 standard deviations were contoured to locate anomalies. For the Walsh Township property selected elements have been plotted and contoured on the basis of background and anomalies.

GEOCHEMICAL MAP INTERPRETATION

Turri Township Property

Preliminary plotting of the early results from Min-En indicated anomalies in a number of elements. Some of these anomalies were checked for surface indications, geological setting and lithosamples. On one important copper-gold anomaly, a 25 meter grid on 100 meter line spacing was detailed. All results are included on the individual element geochemical maps.

The ten elements selected for mapping were gold, silver, copper, zinc, iron, barium, antimony, lead, molybdenum, and arsenic. These elements were selected based on strong anomalous indications in the statistical analysis and known mineral association with Hemlo-type deposits. Although 10 elements were selected for the anomaly mapping; only four, arsenic, gold, molybdenum and lead are enclosed with this report. The balance of the maps and detailed geochemical results are on file at Cumberland's office in Thunder Bay.

A composite element anomaly map showing only those anomalies greater than mean plus 3 standard deviations is included with this report. (Geochemical Anomaly - Frequency and Intensity Composite Map-5) Analysis of this map suggests either one wide zone (150m) or 2 narrow and parallel zones of mineralization. This zone repeatedly contains high intensity anomalies in up to 7 elements per station. Molybdenum, arsenic, antimony, zinc and lead tend to be the most prevalent. The zone appears in a high isoclinal folded structure and seems to have a strike length of up to 1600 meters. The possibility of a faulted structure also exists.

Some geochemical anomalies have been prospected on the ground. On line 0+00 at 5+50 north, a copper anomaly (not apparent on the computer map) was found over a rusted shear zone approximately 20 meters wide. To the north of this unit is a very coarse acid pyroclastic rock, possibly a volcanic vent. On line 10+00 west, at 3+50 north under the southern powerline is a wide rusted zone outcropping for over 30 meters in width and traced for 400 meters along strike. This zone is a siliceous, carbonate iron formation with stringers of pyrite. The best lithosample assay showed 130 P.P.B. gold from a surface grab sample. This zone may be part of the geochemical anomaly unit inferred from the composite geochemical map.

A detailed interpretation of the iron geochemical map combined with the results of a geological survey should aid in the understanding of the geological structure on this property.

Walsh Township Property

The Walsh Township geochemical maps were plotted by hand and contoured using the contour values and intervals similar to that used on the Turri Maps. Anomalies on this Walsh property tend to be isolated over small areas. One zone on line 80 and 82 north in claims 673640 and 673643 appears to be strong in molybdenum and arsenic. Prospecting is required to check for a favourable host rock structure. A spot-check of samples from this anomaly should be re-analysed to confirm the anomaly.

The gold anomalies, although isolated, appear strong enough to warrant further investigation in the field. The three anomalies do not seem to line up on a common strata based on present geological data.

CONCLUSIONS AND RECOMMENDATIONS

The Turri and Walsh Township property warrants further detailed examination. All anomalies must be investigated on the ground. Preliminary studies, especially in the Turri property indicate much encouragement for potential mineral deposits.

I recommend that the next step in exploring the Turri and Walsh properties be to conduct a detailed geological mapping survey of the entire claim groups. Detailed prospecting should zero in on the geochemical and geophysical anomalies. Overburden stripping on the anomalies might be useful. Further geochemical samples could be selected on a more defined grid over the known anomalous zones to attempt to more clearly define these strata. Investigations must be made into the viability of ground geophysical surveys such as I.P. and max-min under a powerline. If either will prove beneficial, grid lines must be cut clear in the target zones.

Diamond drilling of the targets deemed to have the highest potential must be carried out to effectively evaluate this property.

QUALIFICATIONS

I, William McCrindle, of 74 Winnipeg Ave., Thunder Bay, Ontario hereby certify:

1. That I supervised the project and occasionally participated in the line cutting and sample collection.

2. I am a graduate of the University of Toronto (1961) in the Faculty of Engineering and hold a B.A.Sc. degree in geological engineering.

3. I am a teacher of geology, earth sciences and prospecting and hold a type A specialist certificate in geology in the Province of Ontario.

4. I am presently the President of Cumberland Resources Ltd.; I am employed as a teacher with the Lakehead Board of Education. On a seasonal basis, I am employed as a geologist by Cumberland Resources Ltd.

5. I have been employed in field mapping and mining exploration on a full time and/or part time basis since graduation.

6. The information contained in this report was obtained from the analysis of the geochemical samples and visitations to the property. Additional data was obtained from those articles listed in the bibliography.

William McCrindle

William E. McCrindle,
Geologist and Project
Supervisor.

dated at Thunder Bay, Ontario,
February 28, 1984.

BIBLIOGRAPHY

J.W.R. Walker, O.G.S. Geological Report #50,
Jackfish Middleton Area, scale 1" = ½ mile

Assessment files, Ministry of Natural Resources,
Thunder Bay, Ontario

MAPS

Turri Township Geochemical Maps #1-4
Elements: arsenic, lead, molybdenum, gold
1:5000

Turri Township Geochemical Anomaly: Frequency and intensity
Composite map; Map#5

Walsh Township Geochemical Maps: Maps #6-9
Elements: arsenic, lead, molybdenum and gold
1:5000

MIN-EN Laboratories Ltd.

705 WEST 15th STREET,
NORTH VANCOUVER, B.C., CANADA V7M 1T2
TELEPHONE (604) 980-5814

RECEIVED
JUL 15 1983

ANALYTICAL REPORT

Project ..... West Hemlo ..... Date of report ..... July 13/83. .....

File No. ..... 3-479 ..... Date samples received ..... July 4/83. .....

Samples submitted by: ..... John Greig .....

Company: ..... Cumberland Resources .....

Report on: ..... 102 soils ..... Geochem samples

..... Assay samples

Copies sent to:

1. Cumberland Resources, Richmond, B.C.
2. .....
3. .....

Samples: Sieved to mesh ..... -80 ..... Ground to mesh .....

Prepared samples stored ☒ discarded ☐

rejects stored ☐ discarded ☒

Methods of analysis: ..... ICP Analysis. Au-aqua regia A.A. .....

Remarks: .....

SPECIALISTS IN MINERAL ENVIRONMENTS

COMPANY: CUMBERLAND RESOURCES
PROJECT NO: WEST HEMLO
ATTENTION: JOHN GREIG

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

(ACT:3ED3+4) PAGE 1 OF 3
FILE No: 3-479/S:F1-2
DATE: JULY 13, 1983

(REPORT VALUES IN PPM)		AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
02055N		0	34200	0	19	13	2400	1.4	37	45	100000	290	3680
02060N		0	25400	0	13	10	8500	.2	18	45	55900	299	3930
02065N		0	14300	0	3	12	1130	0	13	29	129000	319	4020
02070N		0	14200	0	2	5	1340	1.3	7	18	31400	314	1410
02075N	MESH 40	0	6470	0	0	6	3090	0	12	10	130000	214	2130
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02085N		0	8080	0	0	6	773	0	4	11	66500	390	914
02090N	NES												
02095N		0	22400	0	11	20	2360	0	25	16	209000	499	9270
02100N		0	8490	0	0	8	418	0	6	10	49000	226	1700
02105N	NES												
02110N		0	9270	0	0	7	597	0	5	12	47800	320	1830
02115N	MESH 40	0	37500	0	26	7	20800	1.6	15	53	44500	213	1450
02120N		1.2	21900	0	13	21	4120	3.1	63	41	109000	363	846
02125N		0	33100	0	27	35	3430	0	49	64	262000	797	19500
02130N		0	3050	0	0	0	391	0	2	4	15500	141	248
02135N	NES												
02140N		0	3300	0	0	1	1290	0	6	12	57100	211	653
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00119N	NES												
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02064N	MESH 40	0	17600	0	8	13	4890	2.2	41	19	106000	175	5820
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10010N		0	17700	88	9	16	334	5.2	23	26	86100	288	4190
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10020N	MESH 40	0	13500	0	4	19	2370	0	23	19	255000	419	3580
10025N		0	4760	0	0	4	1230	0	5	39	84500	217	221
10030N		0	14600	0	2	5	1410	0	6	18	63700	421	1480
10035N		0	31000	96	21	35	1350	6.9	86	77	129000	412	5180
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10070N		0	14400	0	14	19	990	0	13	16	165000	301	2480
10075N		0	22900	9	12	20	1440	0	19	26	136000	952	3510
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04000N		0	38600	0	25	31	1440	2.6	42	18	180000	218	23500
04005S		0	30300	0	17	9	24500	2.1	15	227	47800	180	1710
04010S	MESH 40	.1	3950	0	0	0	1620	1.4	2	20	6530	647	565
04015S		0	35100	70	20	24	8730	5.3	43	59	79600	1260	2490
04020S		2.1	39900	0	26	26	16100	4.6	44	215	108000	828	5660
04025S		0	27900	0	14	13	2700	1.2	43	51	104000	833	3240
04030S		0	23500	0	7	3	407	1.1	2	20	11800	939	1820
04035S		1.8	8590	0	10	0	117000	2.9	10	15	76700	1000	32100
04040S		0	2350	0	0	0	562	0	1	2	15500	347	414
04045S		0	17900	0	3	0	355	.2	1	8	8570	463	1210
04050S		0	7150	0	0	4	1900	0	4	5	71400	660	1950
04055S		0	17900	0	3	3	125	.2	1	6	8570	299	1300
04060S		0	23000	0	10	12	4200	.1	16	80	69000	755	5310
04065S		0	15100	0	3	3	229	.9	3	6	14700	800	2760
04070S		0	16700	0	3	6	1460	0	7	16	68600	635	3750
04075S	MESH 40	0	12800	0	1	2	294	0	1	8	6940	735	997
04080S		0	15900	0	6	12	1560	0	20	32	129000	1090	3790
04085S		0	16700	0	3	3	2890	.7	5	73	11800	520	1090

COMPANY: CUMBERLAND RESOURCES
PROJECT No: WEST MEMLO
ATTENTION: JOHN GREIG

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
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(ACT:SEDCA-1) PAGE 2 OF 3
FILE No: 3-479/S/F1+2
DATE: JULY 13, 1993

(SEDIMENT VALUES IN PPM)

		MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
02055N		535	7	49	67	975	10	0	55	0	11	91.5	137
02060N		379	4	89	67	1420	0	0	47	1	12	50.5	118
02065N		151	0	21	6	95	0	0	5	0	0	101.0	22
02070N		117	2	36	14	162	0	0	25	0	4	36.9	29
02075N	MESH 40	44	0	21	0	29	0	0	2	0	0	49.7	1
02080N		36	0	21	1	11	0	0	2	0	0	46.3	0
02085N		58	0	38	0	34	0	0	6	0	0	37.0	6
02090N	NES												
02095N		173	0	52	9	0	0	0	18	0	0	84.6	9
02100N		62	2	5	6	99	0	0	16	0	7	87.2	14
02105N	NES												
02110N		80	2	20	8	113	0	0	15	0	2	162.0	140
02115N	MESH 40	2440	6	47	42	2280	9	0	96	4	13	264.0	76
02120N		11100	6	11	50	1020	39	0	47	0	35	14.3	5
02125N		709	8	79	69	1100	0	0	78	0	0	44.4	21
02130N		135	0	15	3	93	0	0	2	0	0	17.6	189
02135N	NES												
02140N		76	0	15	0	187	0	0	0	0	0	28.1	128
00117N	MESH 40	3910	9	33	54	1770	42	3	62	6	7	65.4	149
00119N	NES												
02054N	MESH 40	981	1	59	24	431	0	0	20	0	0	68.8	193
02064N	MESH 40	2070	4	53	55	672	3	0	33	0	0	88.4	107
02107N	NES												
02113N		4390	10	67	44	2350	19	0	89	6	11	19.2	193
02141N	MESH 40	4470	7	89	64	970	45	0	50	1	14	18.1	100
10000N	NES												
10005N		397	5	124	107	817	8	0	55	0	8	88.5	230
10010N		301	12	13	52	608	51	13	44	12	6	76.5	175
10015N	NES												
10020N	MESH 40	231	0	37	0	235	0	0	0	0	0	46.2	103
10025N		37	0	38	0	80	0	0	0	0	0	52.2	13
10030N		44	0	36	4	51	0	0	19	0	0	40.6	19
10035N		1420	15	25	226	1270	54	16	76	17	12	94.6	243
10040N		158	3	44	37	570	0	0	35	0	0	51.4	23
10045N		72	2	34	1	571	0	0	45	0	0	69.3	5
10050N		155	0	44	12	166	0	0	22	0	0	69.5	17
10055N		70	13	43	14	874	21	1	72	7	7	83.6	0
10060N		60	1	18	8	65	5	0	11	1	9	27.2	6
10065N		32	0	28	0	0	0	0	2	0	0	24.7	0
10070N		46	0	87	1	12	0	0	10	0	0	104.0	3
10075N		328	1	89	12	308	0	0	38	0	1	108.0	40
10004N	MESH 40	2870	5	80	182	1010	25	0	50	5	2	70.8	225
04000N		555	8	15	45	8	5	0	60	0	0	260.0	14
04005S		494	5	28	90	1440	2	0	71	6	10	72.6	18
04010S	MESH 40	67	0	57	11	331	34	0	15	2	0	9.7	24
04015S		494	14	57	60	1290	68	12	131	16	31	60.8	266
04020S		7160	10	69	211	2980	45	0	140	7	87	63.7	124
04025S		976	8	59	27	729	23	0	75	0	14	103.0	127
04030S		53	3	46	9	302	17	0	37	3	7	39.2	17
04035S		270	3	201	13	450	35	0	36	20	0	35.0	2
04040S		21	0	67	0	0	0	0	7	0	3	8.6	0
04045S		17	1	35	2	118	0	0	21	1	1	33.5	2
04050S		29	0	42	0	0	0	0	30	0	0	24.1	0
04055S		42	1	34	3	119	9	0	26	2	7	29.4	2
04060S		219	2	84	95	487	0	0	60	0	8	47.7	18
04065S		74	5	16	13	174	19	0	24	4	3	30.7	22
04070S		123	0	44	8	151	0	0	49	0	0	44.8	17
04075S	MESH 40	29	2	38	4	171	6	0	19	1	9	24.0	12
04080S		390	3	187	8	578	0	0	30	0	0	172.0	37
04085S		71	1	21	36	1110	7	0	44	1	22	13.9	20

(REPORT VALUES IN PPM)		BA	SE	AU-PPB
02055N		50	0	10
02060N		44	33	10
02065N		38	0	5
02070N		28	0	5
02075N	MESH 40	30	0	10
02080N		26	0	10
02085N		27	0	5
02090N	NES			10
02095N		20	0	5
02100N		22	0	5
02105N	NES			5
02110N		149	0	5
02115N	MESH 40	93	0	5
02120N		14	0	25
02125N		21	0	5
02130N		88	112	10
02135N	NES			5
02140N		34	0	5
00117N	MESH 40	109	103	5
00119N	NES			5
02054N	MESH 40	62	4	10
02064N	MESH 40	40	81	5
02107N	NES			10
02113N		72	104	5
02141N	MESH 40	35	45	5
10000N	NES			5
10005N		17	98	10
10010N		89	105	35
10015N	NES			5
10020N	MESH 40	22	0	5
10025N		24	0	10
10030N		33	0	5
10035N		43	139	80
10040N		27	0	10
10045N		29	0	40
10050N		35	0	5
10055N		52	39	10
10060N		14	4	20
10065N		10	0	5
10070N		40	0	5
10075N		78	0	10
10004N	MESH 40	78	38	20
04000N		36	0	15
04005S		78	85	10
04010S	MESH 40	136	18	5
04015S		144	107	<5
04020S		182	52	20
04025S		94	0	5
04030S		62	6	30
04035S		32	36	40
04040S		8	0	5
04045S		25	7	20
04050S		33	0	10
04055S		26	7	10
04060S		59	0	10
04065S		32	12	10
04070S		32	0	5
04075S	MESH 40	26	1	20
04080S		92	0	10
04085S		96	25	25

COMPANY: CUMBERLAND RESOURCES | MIN-EN LABS ICP REPORT | (ACT:SECTION) PAGE 1 OF 3
PROJECT No: WEST HEMLO | 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE No: 3-4795/PC-4
ATTENTION: JOHN GREIG | (604)980-5814 OR (604)988-4524 | DATE: JULY 13, 1993

(REPORT VALUES IN PPM)

		AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
04090S		0	11100	0	0	6	175	.9	3	6	14200	857	2850
04095S		0	21000	0	7	13	1310	.8	12	13	79700	1480	10100
04100S		1.2	31700	0	20	15	13900	3.0	42	150	60100	550	2650
02000S		0	13200	0	0	5	575	1.3	4	12	19500	517	3240
02005S		0	42400	0	22	13	3890	2.5	20	141	29400	1010	3470
02010S		.3	7670	0	0	1	771	0	2	26	5410	553	600
02015S		0	12100	0	0	5	1440	0	4	9	28000	989	2820
02020S		.3	8590	0	0	8	761	0	6	7	54400	411	1330
02025S		0	13000	0	1	3	1050	0	2	25	9460	211	177
02030S		.4	16800	14	6	15	1260	1.8	12	16	62500	1010	4370
02035S		0	44000	15	27	16	8340	4.7	37	128	67900	401	1750
02040S		.2	25900	0	17	15	6820	1.3	23	42	64500	1340	5540
02045S		0	16300	0	1	2	286	1.0	3	8	7770	298	964
02050S		.1	11400	0	0	3	280	0	2	7	5410	461	1000
00000N		.1	13200	0	5	22	1450	0	21	16	146000	637	4080
00005N		.6	23100	0	14	16	7220	1.3	18	84	77400	1250	6160
00010N		0	27000	184	12	20	561	6.6	37	24	43600	270	16300
00015N		.5	19400	342	9	28	260	9.2	51	70	68900	412	7240
00020N		0	12900	0	2	8	1900	1.1	8	68	34500	456	1850
00025N		.6	9010	0	0	16	2750	0	15	30	93200	305	3420
00030N		0	13500	0	0	9	997	0	8	37	60900	583	2790
00035N		.2	6450	0	0	3	2500	.1	2	19	9460	554	668
00040N	MESH 40	.7	21500	0	22	13	16400	1.8	17	120	63500	673	1950
00045N		.3	10800	0	0	15	863	0	17	13	93600	270	3920
00050N		2.0	38800	0	28	52	7060	6.3	91	126	197000	377	5030
00055N		0	57500	0	34	13	11200	1.2	27	174	49000	322	735
00060N		0	13100	0	0	9	771	0	8	18	64500	462	926
00065N	MESH 40	.3	10000	0	0	0	13700	.8	5	41	10100	300	703
00070N	MESH 40	0	16100	0	4	3	5440	.7	4	51	12200	371	742
00075N		.2	6100	0	0	4	1160	0	3	14	33100	265	606
00080N		.4	14900	0	1	11	1190	0	6	18	50400	439	1590
00085N		.2	14200	0	1	6	790	0	5	24	26000	363	1890
00090N		0	27800	6	23	28	674	3.8	15	32	116000	278	774
00095N		.5	6190	0	0	8	392	0	5	6	45800	225	1150
00100N		.1	7830	0	0	4	410	.8	4	10	12700	296	1220
00105N		.6	5710	0	0	7	827	0	5	10	37800	282	1040
00110N		0	21600	128	13	39	856	8.2	30	83	148000	122	4090
00115N		.6	10900	0	0	14	788	0	10	11	78200	372	1490
00120N		.4	10400	0	0	14	1580	0	10	8	72100	411	1830
00125N		.5	16700	0	5	15	6210	1.3	18	22	71500	674	6910
00130N		0	16000	0	2	10	1960	.4	11	12	47900	395	3690
00135N		.1	9240	0	0	11	1520	0	20	17	51300	177	3880
00140N		0	6990	0	0	1	827	0	3	6	20900	253	820
00145N	NES												
00150N	MESH 40	.2	12100	0	1	1	12800	2.0	8	45	10200	109	466

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

(REPORT VALUES IN PPM)		MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
01090S		60	2	44	7	114	0	0	18	3	6	27.7	15
01095S		191	3	42	24	75	1	0	43	0	0	65.2	32
04100S		3100	8	75	52	3280	31	0	149	6	47	63.2	99
02000S		99	3	26	11	253	20	0	28	2	6	38.0	24
02005S		265	7	97	87	1210	50	0	95	10	20	41.9	41
02010S		25	0	60	9	165	27	0	21	3	13	13.5	18
02015S		75	1	41	6	175	2	0	43	0	5	28.0	18
02020S		68	0	40	1	51	0	0	15	0	8	73.6	14
02025S		30	1	40	8	671	13	0	21	0	7	10.9	9
02030S		156	8	39	21	288	28	0	42	4	8	109.0	49
02035S		815	11	46	56	1820	33	1	115	13	41	47.4	21
02040S		1250	4	177	54	739	19	0	64	4	24	51.3	69
02045S		50	2	29	9	146	4	0	27	6	11	25.7	2
02050S		35	0	29	4	218	13	0	17	2	13	14.5	12
00000N		347	0	53	18	417	0	0	21	0	3	141.0	38
00005N		744	5	99	57	543	13	0	67	2	21	68.5	131
00010N		557	13	29	254	253	65	11	62	21	17	114.0	99
00015N		423	14	11	548	415	63	20	58	21	14	122.0	172
00020N		127	1	10	14	825	7	0	22	0	4	27.0	26
00025N		217	2	131	9	1280	6	0	20	0	11	153.0	34
00030N		75	0	47	7	68	0	0	21	0	6	55.6	11
00035N		20	1	45	18	134	10	0	16	2	11	14.2	17
00040N	MESH 40	642	5	101	175	916	3	0	43	1	12	53.0	66
00045N		199	0	21	54	0	0	0	16	0	6	212.0	31
00050N		9030	19	118	204	1480	50	0	94	7	60	102.0	385
00055N		453	7	56	153	2040	0	0	90	5	25	43.9	137
00060N		73	0	54	0	12	0	0	15	0	5	95.2	8
00065N	MESH 40	161	1	249	17	954	17	0	34	2	10	11.4	24
00070N	MESH 40	93	1	252	14	1320	19	0	36	1	11	14.7	41
00075N		12	0	27	0	24	0	0	9	0	6	19.6	3
00080N		30	0	45	1	122	0	0	21	0	18	44.9	4
00085N		51	2	33	6	294	3	0	22	1	13	33.5	7
00090N		57	10	37	19	639	18	0	50	11	15	81.0	15
00095N		33	0	21	0	65	0	0	4	0	5	34.1	1
00100N		80	3	26	14	245	13	0	16	3	7	30.7	14
00105N		51	0	44	3	62	0	0	10	0	9	43.3	27
00110N		479	18	37	46	909	54	14	60	23	21	43.4	99
00115N		63	0	32	7	103	0	0	13	0	8	125.0	9
00120N		86	2	35	4	164	0	0	19	0	9	74.5	12
00125N		399	7	112	29	631	8	0	36	3	11	70.8	59
00130N		196	5	44	15	203	10	0	27	2	6	53.5	32
00135N		121	2	10	19	182	5	0	22	0	2	69.2	14
00140N		27	0	27	0	76	2	0	13	0	0	20.4	1
00145N	NES												
00150N	MESH 40	414	1	24	11	749	2	0	67	3	2	13.8	193

COMPANY: CONSOLIDATED FRONTIER RESOURCES — MIN-EN LABS ICP REPORT — PAGE 3 OF 3

PROJECT No: WEST HEMLO — 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 — FILE No: 3-479/S/P3+4

ATTENTION: JOHN GREIG — (604)980-5814 OR (604)988-4524 — DATE: JULY 13, 1988

*(REPORT VALUES IN PPM)

		MO	SE	AU-PPB
00905		18	11	20
00955		48	0	10
01005		140	106	15
02000S		30	12	10
02005S		126	83	10
02010S		64	12	5
02015S		39	0	5
02020S		28	0	10
02025S		48	21	5
02030S		74	12	10
02035S		85	132	30
02040S		104	29	5
02045S		23	12	5
02050S		25	10	10
00000N		47	0	5
00005N		83	11	10
00010N		34	105	10
00015N		71	131	5
00020N		54	0	5
00025N		38	0	5
00030N		60	0	5
00035N		44	14	10
00040N	MESH 40	128	43	5
00045N		30	0	5
00050N		120	139	5
00055N		47	99	5
00060N		28	0	10
00065N	MESH 40	55	66	
00070N	MESH 40	53	48	
00075N		39	0	10
00080N		25	0	20
00085N		28	0	10
00090N		43	0	5
00095N		10	0	10
00100N		20	0	5
00105N		15	0	10
00110N		37	43	55
00115N		23	0	5
00120N		54	0	5
00125N		49	0	5
00130N		31	0	10
00135N		16	0	10
00140N		12	0	10
00145N	NES			
00150N	MESH 40	73	50	10

MIN-EN Laboratories Ltd.

705 WEST 15th STREET,
NORTH VANCOUVER, B.C., CANADA V7M 1T2
TELEPHONE (604) 980-5814

ANALYTICAL REPORT

Project ..... Date of report July 22/83.

File No. 3-560 Date samples received July 15/83.

Samples submitted by: .....

Company: Cumberland Resources

Report on: 200 soils Geochem samples

..... Assay samples

.....

Copies sent to:

1. Cumberland Resources, Richmond, B.C.
2. .....
3. .....

Samples: Sieved to mesh -80 Ground to mesh .....

Prepared samples stored ☒ discarded ☐

rejects stored ☐ discarded ☒

Methods of analysis: 26 ICP. Au-aqua regia. A.A.

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Remarks: .....

.....

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SPECIALISTS IN MINERAL ENVIRONMENTS

COMPANY: CLEARLAND RESOURCES
PROJECT NO:
ATTENTION:

MIN-EN LABS ICP REPORT
718 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

PAGE 1 OF 2
FILE NO: 3-8636/1+2
DATE: JULY 31, 1987

SAMPLE	VALUES IN PPM	.6 MO	AG	AS	B	BI	CA	.6 CD	.5 CO	.5 CU	FE	K	MG
B01SN		.1	15600	78	6	19	940	3.1	22	18	49400	526	17900
B01ON		.2	16800	0	4	4	12200	2.2	12	80	16200	235	6250
B01SN		.1	6060	12	0	4	1490	.6	3	26	9550	355	946
B020N		.6	30900	53	13	36	8520	6.8	79	118	105000	522	32500
B025N		0	28300	0	19	38	5010	0	40	52	195000	428	5650
B030N		.2	16300	0	7	30	7160	0	30	18	243000	347	4960
B035N		.2	12500	0	6	17	3540	0	23	80	190000	431	2250
B040N		.2	22400	0	11	37	2810	0	36	23	195000	257	6070
B045N		0	16900	0	7	15	1350	0	14	24	87300	548	2490
B050N		0	12300	64	5	23	216	2.3	17	30	68200	241	687
B055N		.4	2070	4	0	4	690	0	7	18	12100	198	217
B060N	MESH 40	.9	2130	23	0	0	13610	1.4	2	17	5410	182	386
B065N		0	9170	0	1	10	1590	0	11	16	79300	217	2940
B070N		0	13900	0	4	12	925	0	10	40	71700	509	1640
B075N		.4	3960	0	0	3	488	0	3	4	24800	190	373
B080N		.3	11600	0	1	13	1280	0	14	15	77400	414	2030
B085N		0	50500	0	32	21	18400	4.0	57	49	87900	231	619
B090N		0	37400	0	19	17	1190	2.1	16	20	56700	239	3130
B095N		0	15000	0	2	7	415	0	4	7	29600	141	381
B100N		.1	12500	9	2	7	7870	.3	12	22	30900	306	2360
B105N		1.0	22900	0	16	5	34600	2.9	16	163	27100	426	1920
B110N		.4	19000	0	11	21	5770	.2	31	38	94300	633	7130
B115N		.2	16200	0	5	15	1760	.2	20	16	56100	524	3550
B120N		0	5430	0	0	5	603	0	3	5	37600	296	552
B125N		.3	12700	0	2	14	2310	0	10	18	53600	406	4110
B130N		0	23800	0	11	21	1430	0	20	20	84700	694	9480
B135N		.4	19300	0	9	35	2820	0	31	17	225000	387	10200
B140N		.2	36400	0	24	43	2620	2.0	47	45	166000	727	14900
B145N		0	10200	0	1	8	1260	0	7	15	52500	420	1990
B150N		.2	7640	0	0	12	947	0	8	13	64300	363	1640
14005N		0	17700	54	7	14	609	1.6	13	18	48700	473	1540
14010N		.5	3040	13	0	2	4890	.7	4	65	7960	302	528
14015N		1.2	7660	20	4	0	34400	1.3	7	165	14300	196	2370
14020N		0	14600	125	8	25	844	4.6	27	32	86000	426	2300
14025N		0	22800	28	11	18	5730	2.5	24	62	58000	298	2890
14030N		0	21100	0	8	2	12000	1.0	6	85	19700	107	461
14035N		0	14200	0	4	7	2000	.9	7	13	29300	377	2240
14040N		.2	9660	0	1	6	3800	.7	5	29	23900	304	694
14045N		0	22600	0	12	15	6820	3.4	27	95	59200	621	6820
14050N		0	9980	17	0	10	1690	3.9	4	330	11800	583	659
14055N		.5	18400	0	7	22	3230	0	28	68	110000	629	3670
14060N		.1	9030	0	0	9	1250	0	9	29	43900	394	1200
14065N		2.1	15700	0	12	23	4020	5.2	202	44	92400	749	2420
14070N		0	57400	0	37	21	7940	2.5	50	55	111000	532	1340
14075N		.2	5270	0	0	6	1140	0	5	12	29900	288	386
14080N		1.4	9480	6	3	0	31000	1.5	6	62	10800	143	882
14085N		.7	6250	22	0	4	4850	.4	2	19	5730	141	524
14090N		.9	24400	21	15	20	20600	3.6	29	71	71300	418	4800
14100N		2.1	37500	0	26	19	15100	7.0	78	54	79600	396	2960
14105N		.1	6520	2	0	3	824	0	2	8	13400	208	533
14110N		.2	4920	0	0	5	975	0	3	5	23600	225	475
14115N		.4	2300	0	0	3	353	0	1	4	12100	170	222
14120N		0	8800	11	0	5	1220	.6	8	19	17500	362	1730
14125N		.1	7540	13	0	0	545	.3	2	15	6370	375	591
14130N		.4	4750	2	0	5	417	0	2	4	16200	182	490
14135N		.1	4360	0	0	6	665	0	10	12	44900	299	600
14140N		.6	31200	0	9	19	2370	3.6	47	36	63100	569	3370
14145N		0	13500	0	3	11	846	0	8	12	57000	645	1610
14150N		0	31200	118	21	46	521	5.8	31	29	161000	689	13500
14155N		.1	4580	0	0	3	1080	0	4	8	31000	264	915

DIVISION OF EARTH AND RESOURCES
PROJECT No:
ATTENTION:

MIN-EN LABS ICP REPORT
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

ACTIVATION: Page 2 of 3
FILE No: D-5818 R142
DATE: July 21, 1988

(SAMPLE VALUES IN PPM)	MN	AS MO	NA	CONI	P	PB	SB	SR	TH	U	V	ZN
B100N	202	17	28	65	235	61	4	35	18	12	133.0	94
B010N	624	7	44	26	634	37	3	43	10	17	33.3	13
B115N	43	3	40	8	244	17	1	16	2	17	15.4	28
B020N	1090	27	260	454	1080	75	11	72	34	29	72.6	88
B025N	576	16	29	44	960	2	0	56	5	14	166.0	74
B030N	600	0	38	0	238	0	0	0	0	0	163.0	29
B035N	447	3	38	20	482	27	0	22	0	4	103.0	81
B040N	579	7	44	19	95	0	0	27	0	11	164.0	29
B045N	125	5	40	10	300	0	0	27	0	6	101.0	32
B050N	159	11	44	49	420	44	13	37	17	21	64.8	83
B055N	55	1	59	8	238	7	0	7	0	10	11.6	17
B060N MESH 40	65	1	60	5	623	28	3	27	2	28	5.6	44
B065N	148	0	34	4	112	0	0	12	0	4	66.6	14
B070N	160	1	62	0	302	0	0	24	0	9	113.0	25
B075N	29	0	35	0	21	0	0	10	0	20	24.5	6
B080N	124	2	47	4	113	0	0	19	0	19	143.0	13
B085N	2000	22	39	51	1200	48	6	116	19	44	85.2	122
B090N	134	10	67	26	465	12	0	59	8	21	51.0	10
B095N	24	3	22	5	161	6	0	29	2	13	39.6	1
B100N	300	5	53	28	379	22	3	38	8	27	40.8	45
B105N	2220	6	68	99	1900	28	3	83	9	31	30.0	272
B110N	481	11	74	65	506	14	0	51	8	31	108.0	86
B115N	499	7	58	23	234	14	0	37	3	37	47.4	30
B120N	31	0	23	0	49	0	0	11	0	18	26.9	0
B125N	125	5	58	14	294	0	0	28	0	29	43.2	30
B130N	323	10	35	33	260	16	0	44	6	20	121.0	60
B135N	281	0	40	11	0	0	0	17	0	7	170.0	10
B140N	4650	24	29	75	865	32	0	69	9	41	186.0	134
B145N	133	3	55	0	159	0	0	21	0	15	45.6	21
B150N	92	1	42	5	136	0	0	13	0	2	61.2	16
14005N	122	8	55	25	397	40	12	45	15	29	82.2	48
14010N	29	1	35	9	650	5	2	21	1	30	6.8	35
14015N	549	4	24	52	1020	20	3	84	9	29	19.1	32
14020N	381	19	27	58	853	74	21	53	23	31	94.5	133
14025N	460	16	36	43	1210	48	13	67	17	27	87.3	37
14030N	51	5	39	12	1160	10	2	77	5	42	13.4	0
14035N	77	3	55	12	441	13	0	32	5	17	35.7	15
14040N	72	3	29	4	964	8	0	26	0	17	28.1	9
14045N	752	13	97	66	956	36	0	54	12	31	62.4	122
14050N	45	4	27	9	611	32	2	24	2	28	18.5	32
14055N	716	6	33	21	535	0	0	35	0	14	115.0	52
14060N	104	0	27	3	141	4	0	17	0	17	65.4	23
14065N	6270	36	39	54	1910	124	17	56	17	60	166.0	71
14070N	1170	16	43	39	1970	31	2	115	16	44	107.0	82
14075N	66	0	31	4	98	0	0	15	0	19	39.3	9
14080N	673	4	34	66	1580	14	4	64	6	46	11.9	39
14085N	34	1	24	23	653	2	4	33	0	45	4.1	13
14090N	1560	15	51	72	2160	59	9	105	18	52	48.6	342
14100N	11900	19	78	98	3000	81	12	101	13	89	76.2	271
14105N	129	0	27	2	182	18	0	14	1	23	14.9	1
14110N	96	0	20	1	125	0	0	13	0	14	21.2	9
14115N	31	0	24	0	86	11	0	8	0	16	11.3	3
14120N	170	4	35	17	306	34	3	23	5	23	34.8	32
14125N	29	0	39	4	539	9	0	17	1	13	14.3	9
14130N	47	0	19	0	51	4	0	12	1	23	24.2	2
14135N	41	0	26	0	111	0	0	8	0	19	60.3	7
14140N	3210	10	35	35	1060	47	1	49	8	40	69.6	39
14145N	79	3	33	5	181	0	0	24	0	21	94.8	16
14150N	835	30	20	56	849	85	19	90	32	38	214.1	101
14155N	42	1	25	6	60	3	0	13	0	20	35.1	12

(REPORT VALUES IN PPM)

	Mo EA	MoSE	Mo-FRB PS
B000SN	29	0	10
B010N	60	27	10
B015N	33	0	5
B020N	60	25	5
B025N	61	0	5
B030N	61	0	10
B035N	72	0	5
B040N	46	0	5
B045N	29	0	10
B050N	36	30	5
B055N	58	0	5
B060N MESH 40	77	32	5
B065N	25	0	5
B070N	64	0	10
B075N	14	0	10
B080N	35	0	5
B085N	120	30	15
B090N	34	0	5
B095N	24	0	5
B100N	43	5	5
B105N	94	51	20
B110N	115	0	5
B115N	45	0	10
B120N	16	0	10
B125N	35	0	5
B130N	53	0	5
B135N	38	0	5
B140N	85	0	5
B145N	42	0	10
B150N	22	0	5
14005N	40	22	10
14010N	66	10	5
14015N	55	50	10
14020N	46	54	5
14025N	95	36	15
14030N	84	22	5
14035N	22	0	5
14040N	51	0	5
14045N	48	0	5
14050N	54	6	25
14055N	69	0	10
14060N	40	0	5
14065N	79	27	5
14070N	113	0	175
14075N	30	0	15
14080N	78	53	10
14085N	39	12	5
14090N	92	36	10
14100N	232	54	5
14105N	24	0	5
14110N	18	0	5
14115N	13	0	5
14120N	34	6	10
14125N	24	0	5
14130N	12	0	5
14135N	21	0	5
14140N	56	0	10
14145N	27	0	5
14150N	50	0	10
14155N	19	0	5

[illegible] CHEMEX LABS LTD. PEER LAKE

ICP-EA LABS ICP REPORT

[illegible] ACT. [illegible] PAGE 1 OF 2

RECEIVED: [illegible]

212 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2

FILE NO. [illegible]

[illegible] PHONE: (604)980-5814 OR (604)988-4524

DATE: [illegible]

[illegible] VALUES IN PPM		AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
14160N		0	9190	0	0	7	1340	0	7	11	34700	410	2[illegible]
14165N		0	36600	0	20	12	3290	2.0	12	43	42000	471	3[illegible]
14170N		.2	4490	0	0	4	335	0	2	4	15300	192	4[illegible]
14175N		.1	6490	0	0	2	2590	0	2	3	16500	269	7[illegible]
2005N		0	26800	0	19	22	3640	1.5	66	72	129000	522	1[illegible]
2010N		0	20900	56	13	24	3550	4.9	37	56	104000	371	1[illegible]
2015N		.1	36500	0	26	19	26800	5.4	54	388	57600	609	3[illegible]
2020N		1.1	12900	9	10	1	46800	1.4	10	433	13400	198	1[illegible]
2025N		0	53400	0	39	33	31600	6.5	32	1020	71000	680	1[illegible]
2030N		0	27500	0	12	30	3430	0	34	57	154000	233	1[illegible]
2035N		0	24600	44	15	24	2450	1.7	18	39	101000	615	2[illegible]
2040N		.1	5400	10	0	5	2030	0	5	71	19700	272	5[illegible]
2045N		1.2	23000	0	15	9	23200	3.9	43	121	35700	440	1[illegible]
2050N		.3	12900	0	3	7	4400	0	12	50	33100	585	2[illegible]
10050N		0	13600	0	2	7	2000	.7	8	21	31500	316	2[illegible]
10085N		.4	4610	10	0	4	618	0	2	6	13400	221	4[illegible]
10090N		0	32700	0	19	12	17100	2.6	34	46	47500	206	7[illegible]
10095N		0	14000	0	3	7	3840	0	7	22	26100	257	1[illegible]
10100N		0	24000	0	12	16	5970	.3	21	46	69400	412	4[illegible]
10105N		.2	14400	11	6	13	1340	1.4	17	20	43300	426	3[illegible]
10110N		0	17900	1	6	9	1560	.7	12	23	31800	631	2[illegible]
10115N		.1	14200	17	2	13	624	1.5	8	22	50300	471	1[illegible]
10120N		.4	9760	6	0	6	1070	.7	12	8	23200	235	1[illegible]
10125N		0	9730	0	0	8	789	0	5	10	37300	361	1[illegible]
10130N		.1	8420	0	0	7	1720	0	7	9	45200	383	2[illegible]
10135N		0	23400	0	12	13	6660	1.4	23	52	59900	597	4[illegible]
10140N		0	34200	0	23	22	5150	3.0	29	36	119000	818	1[illegible]
10145N		0	12800	0	4	16	1250	0	13	14	99400	438	3[illegible]
10150N		0	3910	0	0	4	755	0	3	12	37600	194	3[illegible]
10155N		0	8250	0	0	7	764	0	5	9	36000	221	1[illegible]
10160N		.1	11000	0	1	13	679	0	9	12	70400	347	1[illegible]
12000N		0	12300	33	3	16	1250	2.1	17	16	64300	257	7[illegible]
12005N		.2	11900	4	4	16	1020	.4	18	16	82100	402	4[illegible]
12010N	MESH 40	0	19100	93	8	19	1730	4.7	37	20	53200	589	13[illegible]
12015N		.5	16300	62	12	24	10900	5.0	32	107	87900	481	4[illegible]
12020N		.8	26300	0	16	13	21200	5.1	25	166	39800	511	9[illegible]
12025N		0	44300	0	23	16	2240	2.2	26	77	61800	499	2[illegible]
12030N		.5	21000	81	10	22	2100	3.4	19	42	73900	416	1[illegible]
12035N		0	5260	0	0	3	1510	0	4	10	26800	330	6[illegible]
12040N	MESH 40	1.3	4020	5	0	2	4480	1.7	3	38	82E0	548	5[illegible]
12045N		0	35100	0	18	5	15300	4.2	12	72	22300	394	2[illegible]
12050N		0	6820	0	0	4	784	0	2	7	17200	259	6[illegible]
12055N	MESH 40	.5	31200	0	18	12	23000	3.0	32	98	49000	357	2[illegible]
12060N		0	13700	0	3	9	1450	0	8	14	41400	257	1[illegible]
12065N		0	32100	0	17	19	1640	1.2	13	29	78300	320	1[illegible]
12070N		.3	26500	0	13	8	11100	2.0	24	46	35000	353	1[illegible]
12075N		0	2370	0	0	2	364	0	1	5	9920	166	1[illegible]
12080N		0	21300	0	10	17	4830	2.8	19	52	60500	713	4[illegible]
12085N		0	14500	0	5	21	1470	0	20	36	99400	371	6[illegible]
12090N		0	9290	0	0	4	407	.1	3	15	18900	184	5[illegible]
12095N		0	7670	0	0	2	734	.7	3	12	16900	318	9[illegible]
12100N		.3	5310	0	0	7	573	0	4	5	32800	221	5[illegible]
12105N		0	17900	0	7	8	3000	1.3	12	46	35300	422	2[illegible]
12110N	MESH 40	.4	4210	20	0	4	2010	1.8	4	23	6370	267	3[illegible]
12115N		.2	4250	0	0	4	774	0	2	5	16600	194	3[illegible]
12120N		0	13000	0	3	13	534	.7	8	12	48100	229	1[illegible]
12125N		0	12700	0	1	4	1230	0	4	16	26100	509	1[illegible]
12130N		0	22300	24	11	18	1960	1.5	15	33	72900	341	1[illegible]
12135N		0	33500	0	16	10	1190	1.3	13	101	37600	351	2[illegible]
12140N		.1	8570	0	0	8	517	0	6	10	41100	299	9[illegible]

COMPANY: CONSOLIDATED RESOURCES — MIN-EN LABS ICP REPORT — GEOCHEMICAL ANALYSIS — PAGE 1 OF 2

PROJECT NO: — 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 — FILE NO: 7-81 B/T&I

ATTENTION: — (604)980-5814 OR (604)988-4524 — DATE: MAY 21, 1987

SAMPLE#	ELEMENT VALUES IN PPM	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
14145N		81	3	29	3	190	6	0	19	0	14	27.8	17
14165N		554	11	66	29	764	32	1	69	11	26	49.2	25
14170N		64	1	21	1	64	0	0	12	0	13	11.0	1
14175N		53	0	30	0	57	4	0	21	1	20	20.3	5
2005N		1010	17	50	113	376	23	0	51	9	14	147.0	89
2010N		198	25	214	213	539	59	9	62	26	26	101.0	62
2015N		2670	17	56	169	2450	29	7	129	16	38	70.8	271
2020N		260	5	109	540	1500	12	4	49	10	25	19.7	25
2025N		2300	21	44	243	2280	37	9	116	24	42	94.2	84
2030N		535	13	17	31	249	3	0	42	0	15	201.0	47
2035N		183	18	39	16	709	39	4	59	16	26	140.0	50
2040N		57	2	47	7	396	25	0	19	0	22	30.1	26
2045N		4860	9	50	73	1850	58	6	64	8	45	39.0	39
2050N		133	4	52	13	598	20	0	32	4	28	36.6	33
10080N		101	4	60	13	490	9	0	27	2	26	30.9	16
10085N		41	0	22	0	43	2	0	13	2	29	17.9	5
10090N		1420	17	40	26	2230	40	6	87	12	42	66.6	39
10095N		91	5	37	18	312	20	0	31	3	21	34.5	30
10100N		365	8	56	33	704	7	0	54	6	19	79.5	49
10105N		298	7	42	34	435	27	5	37	9	20	76.8	49
10110N		234	9	61	25	614	36	4	41	8	28	58.9	50
10115N		143	6	34	20	772	22	0	29	4	33	60.6	25
10120N		198	4	31	20	97	21	1	25	3	27	47.7	27
10125N		51	1	26	3	164	5	0	16	0	16	50.5	6
10130N		71	1	61	2	98	0	0	23	0	18	34.2	9
10135N		820	9	72	54	857	18	0	57	10	29	56.1	57
10140N		1150	24	42	56	779	42	1	79	18	29	133.0	66
10145N		125	2	35	4	81	0	0	19	0	2	88.5	14
10150N		11	0	22	0	2	0	0	4	0	6	38.1	3
10155N		56	1	38	2	108	10	0	13	0	11	36.7	4
10160N		42	5	29	6	266	4	0	20	2	18	80.7	7
12000N		139	10	80	54	210	25	0	28	10	12	103.0	45
12005N		199	8	43	34	274	11	0	28	5	21	101.0	26
12010N	MESH 40	697	19	26	182	626	61	11	53	25	13	96.0	106
12015N		1490	18	26	183	1050	50	12	71	25	25	77.5	156
12020N		1520	17	45	281	1280	54	6	78	18	24	62.5	141
12025N		506	13	68	59	980	19	0	82	14	20	63.0	144
12030N		654	26	34	58	968	57	12	56	19	26	42.9	84
12035N		77	0	35	3	269	0	0	14	0	0	17.3	20
12040N	MESH 40	59	1	55	6	797	72	2	23	2	10	10.7	88
12045N		1170	10	36	108	3200	30	0	74	9	26	30.9	215
12050N		57	0	25	1	200	2	0	15	3	0	28.8	15
12055N	MESH 40	2800	9	72	74	2000	24	1	85	12	42	48.7	127
12060N		88	4	52	11	304	7	0	27	3	33	38.5	11
12065N		93	11	45	15	592	10	0	60	9	21	63.9	0
12070N		1920	8	31	42	1180	31	1	67	5	46	36.7	76
12075N		24	0	16	0	70	0	0	8	2	11	9.7	3
12080N		1220	9	54	38	1130	28	0	56	10	23	75.6	158
12085N		203	10	59	29	333	0	0	28	1	7	77.4	63
12090N		36	1	25	0	246	6	0	17	4	5	32.5	10
12095N		53	2	21	2	246	9	0	15	1	3	20.6	15
12100N		45	0	29	1	153	3	0	11	0	23	48.9	7
12105N		317	8	33	25	841	22	2	36	7	11	42.6	41
12110N	MESH 40	32	0	34	9	309	18	3	16	2	28	13.3	36
12115N		66	0	17	0	160	7	0	11	0	17	17.8	9
12120N		61	7	20	11	245	10	0	28	7	8	56.7	14
12125N		40	1	27	4	309	6	0	31	0	26	44.3	10
12130N		223	13	31	19	557	29	6	52	14	22	45.2	18
12135N		115	10	64	31	638	18	2	62	10	13	48.5	13
12140N		81	2	14	0	135	5	1	19	1	25	66.3	9

COMPANY: CHIEFLAND RESOURCES
PROJECT No:
ATTENTION:

MAX-EN LEE ICP REPORT
715 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

VERTICAL SECTION
FILE No: 8-8613/87-1
DATE: JULY 23, 1987

(REPORT VALUES IN PPM)		Ba	Be	Au-PPB
14160N		33	0	10
14165N		54	0	5
14170N		12	0	5
14175N		22	0	5
2005N		74	0	10
2010N		51	0	5
2015N		169	47	5
2020N		64	69	5
2025N		163	39	5
2030N		42	0	5
2035N		77	0	10
2040N		53	0	10
2045N		105	38	5
2050N		49	0	5
10060N		28	0	5
10065N		18	0	20
10090N		127	43	25
10095N		35	0	10
10100N		51	0	30
10105N		34	0	5
10110N		54	9	10
10115N		28	0	5
10120N		16	0	5
10125N		26	0	5
10130N		19	0	5
10135N		119	0	5
10140N		123	0	10
10145N		24	0	5
10150N		17	0	15
10155N		27	0	10
10160N		41	0	10
12000N		35	0	5
12005N		39	0	5
12010N	MESH 40	104	29	10
12015N		118	52	5
12020N		73	43	5
12025N		98	0	5
12030N		49	26	110
12035N		30	0	15
12040N	MESH 40	107	10	10
12045N		105	27	5
12050N		23	0	5
12055N	MESH 40	114	26	10
12060N		24	0	5
12065N		44	0	5
12070N		84	13	5
12075N		11	0	20
12080N		95	0	5
12085N		33	0	10
12090N		37	0	5
12095N		25	0	5
12100N		21	0	5
12105N		55	11	10
12110N	MESH 40	71	0	5
12115N		12	0	15
12120N		24	0	10
12125N		37	0	5
12130N		41	1	5
12135N		54	6	5
12140N		22	1	5

(REF. VALUES IN PPM)	AE	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
12145N	0	17700	29	5	14	864	1.8	10	18	38200	298	1470
12150N	0	18700	49	10	24	569	3.7	18	42	109000	534	1790
12155N	0	8230	0	0	9	1090	0	9	8	45900	304	2170
12160N	0	4150	7	0	5	380	.3	4	6	23200	178	1130
12165N	.2	9090	0	0	10	1100	0	8	7	52200	621	3420
12170N	.5	11500	0	4	2	16100	2.5	8	27	9870	200	819
6000N	0	37900	0	23	14	23900	3.3	29	177	52500	215	4830
6005N	0	5360	0	0	3	2410	0	3	14	24200	265	490
6010N	0	68200	0	40	23	4670	1.6	25	366	65000	371	5490
6015N	.1	3910	0	0	5	986	0	3	10	23600	129	457
6020N	1.2	8350	4	0	0	28500	.7	6	85	8280	117	560
6025N	.2	17600	0	9	32	3890	0	40	24	257000	235	4190
6030N	0	13300	0	7	23	1440	.1	19	21	120000	298	2250
6035N	0	13300	0	2	14	5310	0	15	33	112000	241	2230
6040N	.1	21200	16	10	15	10500	2.3	26	86	52900	302	2820
6045N	0	18400	0	7	20	5930	0	34	53	91700	304	4400
6050N	.1	14400	24	8	21	15400	1.5	31	86	96500	200	4540
6055N	.2	8260	0	0	11	914	0	8	13	73200	233	695
6060N	0	8010	0	0	8	1590	0	8	11	49000	316	2370
6065N	0	37900	0	21	16	9300	0	33	109	69100	371	1350
6070N	.3	7650	0	0	9	1260	0	6	8	41700	288	1500
6075N	.2	23400	0	10	5	11900	2.1	15	44	24200	308	1650
6080N	.5	14300	0	4	3	15600	0	11	27	25500	127	708
6085N	0	14200	0	4	10	932	.4	8	12	51600	198	1230
6090N	0	32200	0	17	18	905	1.5	15	22	66600	172	2350
6095N	.2	4180	16	0	6	491	.1	5	5	10500	117	600
6100N	.2	20300	7	8	5	9500	.7	9	43	24200	365	2690
6105N	0	23400	0	12	7	11800	1.8	14	44	29600	418	1460
6110N	.2	29900	0	17	11	10700	2.2	15	47	38500	495	1730
6115N	.4	5900	0	0	5	804	0	4	7	34400	235	589
6120N	.1	2820	0	0	2	457	0	1	4	8280	141	204
6125N	0	9240	0	0	4	1110	0	6	13	32800	379	1920
6130N	0	13100	0	3	7	3590	0	7	23	36000	402	2950
6135N	0	5940	0	0	3	1050	0	5	16	28300	397	809
6140N	0	8870	0	0	5	861	0	3	9	21300	361	1140
6145N	0	8940	0	2	6	1010	0	5	7	47500	408	1190
8000S	0	38100	0	26	18	20900	4.5	37	201	63700	369	10300
8005S	0	5990	168	2	20	1080	4.1	27	45	78300	194	5260
8010S	3.4	31900	0	25	28	22000	4.6	121	119	92700	452	4490
8015S	0	18900	22	8	22	3390	3.0	32	67	80300	379	17800
8020S	0	31300	135	22	34	1390	7.1	65	82	109000	524	16900
8025S	0	16900	43	4	12	3590	1.7	15	47	46200	617	3620
8030S	0	10800	0	1	3	483	1.0	5	10	11800	798	1670
8035S	0	13800	39	5	12	558	2.7	13	36	38900	518	3500
8040S	.8	7330	23	0	3	5120	1.5	5	30	11500	579	1410
8045S	0	31900	0	18	5	16700	1.1	11	127	25500	444	1860
8050S	0	19600	0	12	10	8960	.9	18	21	44300	1030	5700
8055S	0	34000	0	23	16	7590	2.2	42	79	61500	1030	5460
8060S	0	10700	0	1	4	690	1.9	4	7	12100	493	2600
8065S	0	30500	48	17	21	285	2.7	17	22	69100	532	7310
8070S	0	51600	0	28	9	8480	1.7	18	94	38900	324	1830
8075S	0	12300	0	0	2	364	0	1	6	7010	389	1160
8080S	0	47900	0	30	22	7040	4.1	44	106	70700	459	5610
8085S	0	25100	0	10	7	508	2.7	9	24	27300	690	3740
8090S	.3	37400	0	23	20	17000	3.2	49	65	92400	555	6340
8095S	0	19400	0	8	21	9740	1.5	23	26	97500	538	10500
8100S	.5	38300	0	23	13	18100	2.5	41	164	49000	357	1550
8105S	0	18200	12	7	6	6440	2.3	11	81	22300	703	4210
8110S	1	39600	1	29	16	25400	4.2	31	160	61100	371	6350
8115S	0	28600	211	13	26	1150	5.6	44	28	78300	292	20800

(SOIL VALUES IN PPM)

	MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH
6145N	174	9	21	19	480	40	8	40	10	37	21.5	24	
6150N	150	17	19	23	1010	49	10	47	18	13	104.0	21	
6155N	117	2	34	5	156	8	0	18	1	15	43.9	18	
6160N	120	2	14	3	69	10	0	13	3	15	53.8	7	
6165N	90	2	44	8	73	0	0	19	0	20	56.1	9	
6170N	655	4	19	20	2100	27	2	48	4	35	11.9	77	
6000N	1460	16	34	153	1600	28	5	89	17	35	56.1	53	
6005N	53	0	15	0	149	0	0	11	0	6	34.9	14	
6010N	209	16	33	194	893	17	0	104	15	16	55.3	3	
6015N	23	0	13	3	63	0	0	11	0	12	25.7	4	
6020N	204	2	52	65	1010	19	3	39	5	39	7.9	26	
6025N	362	0	26	14	0	0	0	11	0	0	185.0	16	
6030N	152	10	29	20	363	13	0	34	7	9	103.0	40	
6035N	155	0	24	4	285	0	0	16	0	5	75.1	24	
6040N	685	11	46	113	1420	45	6	49	11	43	46.9	107	
6045N	410	9	24	50	464	11	0	39	3	27	179.0	24	
6050N	792	10	25	62	558	18	0	45	9	24	123.0	47	
6055N	22	0	33	1	12	0	0	10	0	10	97.3	1	
6060N	112	2	39	4	77	0	0	19	0	9	48.7	18	
6065N	600	9	68	35	780	2	0	74	6	34	72.3	27	
6070N	51	1	29	4	17	0	0	17	0	30	44.4	3	
6075N	540	5	40	25	1290	6	0	53	2	36	29.2	83	
6080N	412	4	47	12	751	2	0	46	1	25	20.5	34	
6085N	113	7	27	8	223	0	0	28	3	17	55.9	17	
6090N	148	9	36	22	513	10	0	56	8	16	56.4	23	
6095N	40	1	20	4	128	6	0	14	1	29	17.3	13	
6100N	126	6	56	23	1350	19	3	51	6	42	33.0	35	
6105N	1540	8	50	30	2200	25	6	63	7	37	33.1	56	
6110N	2410	10	52	39	1510	45	1	73	7	37	42.7	88	
6115N	71	0	27	0	88	0	0	13	0	18	45.7	3	
6120N	41	0	37	0	50	1	0	10	2	17	12.8	3	
6125N	71	3	44	9	140	7	0	23	2	14	42.6	15	
6130N	169	4	52	13	277	10	0	31	4	21	41.5	17	
6135N	47	0	26	2	123	4	0	15	0	6	42.1	21	
6140N	38	2	30	5	154	7	0	21	3	18	28.9	9	
6145N	29	0	35	2	37	0	0	18	0	14	57.7	3	
8000S	1910	17	64	203	1720	38	4	97	18	41	81.6	73	
8005S	211	16	23	121	277	49	14	33	22	14	149.0	53	
8010S	17000	28	46	417	2550	71	10	137	18	29	120.0	373	
8015S	395	17	34	62	235	31	0	43	14	11	97.3	34	
8020S	1520	27	21	280	710	57	15	77	32	29	180.0	139	
8025S	181	12	43	46	547	36	6	59	14	25	75.1	85	
8030S	92	4	30	18	238	20	0	25	4	18	25.7	25	
8035S	228	10	35	24	722	36	8	36	12	16	96.6	33	
8040S	115	3	48	19	959	44	4	56	4	33	17.3	49	
8045S	385	12	47	52	3090	14	1	147	7	68	24.8	31	
8050S	399	8	127	44	581	8	0	63	9	28	39.5	31	
8055S	715	15	98	86	1220	32	1	113	14	40	60.9	68	
8060S	65	3	44	12	169	35	0	23	3	15	22.1	16	
8065S	167	20	48	38	585	48	10	62	20	26	91.8	44	
8070S	360	17	38	75	1650	40	3	147	13	54	27.8	0	
8075S	33	1	36	2	112	9	0	22	2	10	25.9	6	
8080S	2310	19	46	95	1550	54	4	137	19	42	70.6	51	
8085S	124	12	54	26	538	30	5	46	8	22	57.9	36	
8090S	863	17	226	59	2390	25	0	163	13	53	86.4	69	
8095S	129	10	328	26	1240	0	0	72	4	24	105.0	54	
8100S	2140	14	47	104	2770	45	4	154	13	60	46.0	95	
8000S	331	9	58	43	898	39	4	42	8	22	36.7	61	
8005S	1950	18	63	177	1530	37	5	95	19	31	64.3	110	
8010S	405	24	17	312	499	91	16	62	34	21	182.0	106	

COMPANY: CONSOLIDATED FIELDGATES
PROJECT No:
ATTENTION:

ACME-EX LASS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

ACME FILE # PAGE 2 OF 3
FILE No: D-8019758-6
DATE: July 24, 1987

(REQUEST VALUES IN PPM)	AU	SE	AU-FPB
12145N	34	0	15
12150N	70	9	5
12155N	20	0	10
12160N	16	0	5
12165N	20	0	5
12170N	78	37	10
6000N	115	51	20
6005N	34	0	25
6010N	80	2	5
6015N	13	0	10
6020N	47	41	5
6025N	36	0	5
6030N	55	0	10
6035N	63	0	5
6040N	81	12	5
6045N	49	0	10
6050N	40	0	5
6055N	27	0	5
6060N	28	0	20
6065N	68	0	10
6070N	14	0	5
6075N	79	6	5
6080N	89	9	5
6085N	26	0	10
6090N	24	0	5
6095N	19	0	15
6100N	43	15	5
6105N	83	26	5
6110N	90	17	5
6115N	16	0	5
6120N	17	0	5
6125N	31	0	5
6130N	59	0	5
6135N	42	0	10
6140N	25	0	5
6145N	19	0	10
B000S	119	40	5
B005S	73	6	5
B010S	358	58	15
B015S	44	0	10
B020S	62	31	5
B025S	114	30	5
B030S	39	0	20
B035S	57	6	10
B040S	60	13	5
B045S	95	30	5
B050S	76	0	10
B055S	93	15	5
B060S	32	0	10
B065S	56	10	15
B070S	79	13	5
B075S	23	0	5
B080S	122	14	5
B085S	57	5	5
B090S	129	0	5
B095S	83	0	5
S100S	117	28	10
S005S	72	19	5
S010S	131	32	10
S015S	94	35	5

COMPANY: CANFIELD RESOURCES
PROJECT No:
ATTENTION:

MIN-EN LABS ICP REPORT

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE No: 3-5818/87
DATE: JULY 21, 1987

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
60115S	1.7	169	19100	1100	2451	1.2	16200	0	13	0	41300	2.5	10	169	19100	1100	2451	1.2	16200	0	13	0	41300	2.5	10	169	19100	1100	2451	1.2
60205	.9	35	29300	265	2070	.4	7590	0	4	5	22500	2.9	17	35	29300	265	2070	.4	7590	0	4	5	22500	2.9	17	35	29300	265	2070	.4
60255	.4	15	5410	391	590	.2	3930	0	0	0	4000	1.9	3	15	5410	391	590	.2	3930	0	0	0	4000	1.9	3	15	5410	391	590	.2
60305	.1	59	18200	396	993	.1	12200	0	2	4	5850	.1	9	59	18200	396	993	.1	12200	0	2	4	5850	.1	9	59	18200	396	993	.1
60355	2.0	95	15600	215	1471	.4	14600	0	8	1	28700	2.7	11	95	15600	215	1471	.4	14600	0	8	1	28700	2.7	11	95	15600	215	1471	.4
60405	0	116	34100	298	1990	.1	30400	0	18	5	18200	3.5	12	116	34100	298	1990	.1	30400	0	18	5	18200	3.5	12	116	34100	298	1990	.1
60455	0	6	53800	235	2170	.1	7220	0	0	8	1090	.3	8	6	53800	235	2170	.1	7220	0	0	8	1090	.3	8	6	53800	235	2170	.1
60505	0	4	47100	292	3160	.1	10600	0	1	9	1210	0	6	4	47100	292	3160	.1	10600	0	1	9	1210	0	6	4	47100	292	3160	.1
60555	0	6	61900	251	1940	.1	10700	0	2	12	972	0	9	6	61900	251	1940	.1	10700	0	2	12	972	0	9	6	61900	251	1940	.1
60605	0	13	77700	249	2420	.1	44000	0	25	15	1770	1.2	17	13	77700	249	2420	.1	44000	0	25	15	1770	1.2	17	13	77700	249	2420	.1
60655	1.0	13	81900	174	798	.1	2830	0	2	8	27600	1.9	30	13	81900	174	798	.1	2830	0	2	8	27600	1.9	30	13	81900	174	798	.1
60705	.5	11	6690	221	439	.1	2410	14	0	0	9070	.3	2	11	6690	221	439	.1	2410	14	0	0	9070	.3	2	11	6690	221	439	.1
60755	0	35	114000	432	11800	.1	19300	17	10	24	765	1.9	24	35	114000	432	11800	.1	19300	17	10	24	765	1.9	24	35	114000	432	11800	.1
60805	0	12	8920	534	1470	.1	10100	0	0	3	419	.7	2	12	8920	534	1470	.1	10100	0	0	3	419	.7	2	12	8920	534	1470	.1
60855	.6	47	16200	111	547	.1	8270	8	2	0	21700	1.2	12	47	16200	111	547	.1	8270	8	2	0	21700	1.2	12	47	16200	111	547	.1
60905	.4	24	8280	387	626	.1	5630	4	0	3	7990	.7	5	24	8280	387	626	.1	5630	4	0	3	7990	.7	5	24	8280	387	626	.1
60955	2.5	94	66200	792	5470	.2	23500	0	14	23	15600	5.4	48	94	66200	792	5470	.2	23500	0	14	23	15600	5.4	48	94	66200	792	5470	.2
61005	.2	30	65300	591	2560	.1	10600	0	2	14	2160	.6	13	30	65300	591	2560	.1	10600	0	2	14	2160	.6	13	30	65300	591	2560	.1
61055	0	47	20700	713	5900	.1	17000	0	5	9	3770	1.9	10	47	20700	713	5900	.1	17000	0	5	9	3770	1.9	10	47	20700	713	5900	.1
14095N	0	40	49400	387	1740	.1	9560	0	0	7	1040	0	7	40	49400	387	1740	.1	9560	0	0	7	1040	0	7	40	49400	387	1740	.1

[illegible] RESOURCES

PROJECT [illegible]

[illegible]

MIN-EN LABS ICP REPORT

[illegible] WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2

(604)980-5814 OR (604)988-4524

[illegible] PAGE 2 OF 3

FILE # [illegible]

DATE: [illegible]

(REPORT VALUES IN PPM)	MN	MO	NA	NI	P	PB	SB	SR	TH	U	W	ZN
[illegible]5S	3270	6	127	197	2500	26	3	77	9	37	18.5	24
[illegible]0S	2550	6	56	39	1020	51	3	116	10	21	19.3	51
60255	207	1	31	8	595	51	1	29	2	11	7.7	56
60305	138	3	66	14	1120	30	1	65	5	14	20.6	37
60355	3970	5	52	60	1640	38	2	192	4	56	10.6	14
60405	720	9	51	48	2060	27	0	159	9	35	28.0	45
60455	94	3	32	10	172	0	0	19	4	6	53.8	11
60505	83	4	35	6	201	5	0	23	1	10	53.8	10
60555	71	5	34	7	225	0	0	23	3	6	73.5	9
60605	322	14	49	19	677	17	0	79	16	16	57.3	1
60655	2780	10	34	22	1390	40	9	139	13	30	13.3	30
60705	59	2	83	3	693	32	3	52	2	28	4.9	24
60755	166	15	42	72	523	39	0	49	15	7	202.0	38
60805	52	3	26	5	346	17	0	23	2	4	21.1	17
60855	169	2	35	21	825	31	2	124	5	39	12.1	47
60905	56	3	35	14	1160	29	3	95	2	27	6.5	35
60955	4890	19	40	97	1430	81	8	170	17	65	85.3	88
61005	795	7	88	6	997	25	0	39	5	36	108.0	65
61055	172	9	36	28	741	41	3	69	8	15	37.9	44
14095N	55	2	42	6	150	0	0	19	0	7	59.8	9

(REPORT VALUES IN PPM)	BF	SE	MO-PPB
6000S	95	56	20
6020S	108	36	5
6025S	69	12	10
6030S	94	20	5
6035S	105	36	10
6040S	86	22	10
6045S	18	0	5
6050S	22	0	5
6055S	35	0	5
6060S	49	0	5
6065S	227	56	5
6070S	62	27	5
6075S	47	0	10
6080S	27	0	5
6085S	78	35	10
6090S	84	27	10
6095S	176	32	5
6100S	114	0	5
6105S	114	11	5
14095N	32	0	10

MIN-EN Laboratories Ltd.

705 WEST 15th STREET,
NORTH VANCOUVER, B.C., CANADA V7M 1T2
TELEPHONE (604) 980-5814

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JUL 28 1983

ANALYTICAL REPORT

T JR?

Project ..... West Hemlo ..... Date of report ..... July 26/83.

File No. ..... 3-578 ..... Date samples received ..... July 19/83.

Samples submitted by: ..... John Greig

Company: ..... Cumberland Resources

Report on: ..... 325 soils ..... Geochem samples

..... Assay samples

Copies sent to:

1. Cumberland Resources, Richmond, B.C.
2. .....
3. .....

Samples: Sieved to mesh ..... -80 ..... Ground to mesh .....

Prepared samples stored ☒ discarded ☐

rejects stored ☐ discarded ☒

Methods of analysis: ..... ICP Analysis. Au-aqua regia A.A.

Remarks: .....

SPECIALISTS IN MINERAL ENVIRONMENTS

(REF	VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
25000-S		0	12700	0	5	16	1740	0	16	21	140000	324	4800
25005-S		0	39200	130	38	39	3370	3.9	25	47	153000	924	8070
25010-S		0	30900	0	23	19	3450	0	30	78	106000	522	3820
25015-S		0	16100	0	7	8	6500	0	10	75	57900	260	1700
25020-S		0	14700	0	7	8	3080	0	16	23	101000	366	7360
25025-S		0	34100	0	29	36	1290	0	42	33	204000	500	19300
25030-S		2.3	24200	0	14	9	20400	1.1	64	55	11400	166	1480
25035-S	MESH 40	.1	16500	18	11	6	24500	1.8	15	68	31900	216	5000
25005-N	MESH 40	.1	4320	2	0	4	5760	2.5	6	36	19300	538	778
25010-N		0	12000	0	4	10	1870	0	14	34	69300	500	2500
25015-N	MESH 40	0	15900	0	10	5	19800	0	12	99	46900	327	4330
25020-N		.6	13900	0	8	3	22200	.9	8	165	29500	333	3463
24005-S		.1	16700	0	11	11	9480	2.4	24	135	67200	578	1840
24010-S		0	12900	8	9	22	1430	0	15	12	120000	444	3100
24015-S		0	7270	0	1	7	1420	0	7	9	94100	604	1792
24020-S		0	25500	0	22	31	3060	0	28	31	167000	635	6940
24025-S		0	13200	0	9	17	11500	0	19	51	99600	686	5670
24030-S		.8	13000	105	10	26	4750	2.3	23	38	96100	553	4000
24035-S		0	3410	0	0	3	2750	0	3	21	23600	309	496
24040-S		0	13700	11	7	10	7020	1.4	17	142	32300	535	3350
10005-S		.5	7940	0	7	0	37500	2.0	7	48	18100	389	2560
10010-S	MESH 40	.2	3940	0	0	2	3820	.9	5	24	14200	413	594
10015-S		0	35300	0	30	16	18500	3.7	46	141	53500	264	6390
10020-S		0	6440	0	4	25	2150	0	22	15	341000	240	2640
10025-S	MESH 40	0	7290	0	0	5	4330	1.0	5	20	33500	851	902
10030-S	MESH 40	.2	3930	12	0	4	3310	1.5	3	21	10200	431	762
10035-S		.8	5610	0	0	0	19500	1.4	3	26	11400	497	1280
10040-S		0	29500	0	25	17	13000	.6	40	48	108000	831	8270
10045-S		0	14200	0	7	8	1510	0	9	12	99600	544	3300
10050-S		.3	52000	0	45	23	15300	4.7	17	308	57900	1070	6340
10055-S		0	12200	0	1	4	1200	0	2	30	13800	375	582
10060-S	MESH 40	0	5390	0	0	1	601	.6	2	14	4330	655	437
10065-S		0	18200	0	7	4	405	.1	3	12	11000	618	1660
10070-S		1.1	35200	12	27	19	3970	2.1	47	114	46900	913	4740
10075-S		0	13800	0	3	2	217	.4	2	6	7050	489	1510
10080-S		0	25900	0	19	16	1690	0	11	78	99600	709	1550
10085-S		0	22400	22	14	12	962	3.0	14	14	53900	466	18400
10090-S	MESH 40	.1	6110	0	0	3	781	.3	2	23	7670	509	812
10095-S		0	13100	0	5	3	423	0	2	9	20900	531	1750
10100-S		0	8230	0	0	3	319	0	2	10	20100	242	1350
10105-S	MESH 40	.1	23200	0	23	7	34900	2.4	14	236	31900	402	3030
12005-S		0	25900	112	22	28	9470	7.0	82	122	72800	398	15700
12010-S		0	8360	0	0	4	550	0	7	12	36600	206	5220
12015-S		0	35900	0	29	25	11600	1.8	31	86	114000	915	12700
12020-S		0	21000	14	17	19	5750	1.5	23	35	86600	793	12900
12025-S	MESH 40	.2	17300	14	15	13	25600	1.1	23	106	64200	322	5210
12030-S		0	19900	109	13	8	19800	3.3	16	35	33100	124	13000
12035-S	MESH 40	0	31400	10	25	8	24200	1.5	26	62	52000	98	737
12040-S	MESH 40	.2	5470	0	2	0	31700	.1	2	25	11400	166	1550
12045-S		0	23000	0	15	9	1790	0	15	20	89400	435	3750
12050-S		0	27200	0	22	24	1440	0	22	23	152000	531	4680
12055-S	MESH 40	.1	10700	0	3	2	825	.7	3	43	7870	535	739
12060-S		0	8620	0	2	2	635	.1	1	5	6690	380	703
12065-S		0	9390	14	0	3	230	.4	2	9	6200	522	1200
12070-S		0	22700	0	21	42	12000	0	39	26	267000	535	13500
12075-S		0	10150	0	2	3	267	.1	2	4	5910	297	1300
12080-S		0	5981	0	3	2	944	.1	2	9	6690	373	619
12085-S		0	21100	0	12	10	1180	0	14	21	79100	655	7610
21001-N		0	37000	0	32	23	10000	2.4	28	144	94100	871	7830
21005-N	N/S												

(REST VALUES IN PPM)		MN	MO	NA	NI	P	PB	SE	SR	TH	U	V	ZN
[illegible]-S		200	0	76	25	422	0	0	0	0	2	86.8	11
24005-S		1480	22	65	89	554	52	36	65	19	17	192.0	19
24010-S		526	3	84	56	278	0	0	36	0	9	89.4	0
24015-S		128	0	46	38	252	0	0	20	0	17	63.1	43
24020-S		264	1	46	48	57	0	0	13	0	6	63.7	0
24025-S		533	12	38	129	162	0	0	30	0	0	219.0	26
24030-S		1420	1	26	203	610	42	12	84	0	40	5.9	31
24035-S	MESH 40	1120	7	40	94	1050	21	11	73	9	11	49.7	10
24005-N	MESH 40	101	1	45	48	1290	77	1	11	0	7	17.7	41
24010-N		334	0	42	24	724	0	0	11	0	0	71.9	20
24015-N	MESH 40	149	3	116	43	1100	0	0	31	0	19	32.6	72
24020-N		90	3	105	33	855	0	1	27	2	22	21.9	33
24005-S		2180	7	48	33	556	31	11	39	5	25	77.8	50
24010-S		194	6	30	28	468	0	0	12	0	0	128.0	22
24015-S		122	0	56	7	152	0	0	4	0	1	72.9	18
24020-S		357	10	53	56	1150	0	0	28	0	5	141.0	67
24025-S		1180	7	69	83	655	0	0	28	0	21	97.5	59
24030-S		214	13	23	68	574	28	20	38	12	14	155.0	35
24035-S		25	0	42	40	319	10	0	12	0	4	17.2	9
24040-S		141	5	40	44	783	30	5	28	2	12	41.1	55
10005-S		1040	3	43	69	1220	22	4	67	4	16	16.0	26
10010-S	MESH 40	46	0	53	13	753	19	0	16	0	6	8.7	34
10015-S		1670	12	39	256	1950	32	22	90	8	51	77.0	40
10020-S		235	0	41	0	0	0	0	0	0	0	359.0	0
10025-S	MESH 40	217	1	227	1	539	6	0	13	0	20	34.3	68
10030-S	MESH 40	53	1	46	39	778	39	3	19	0	14	8.3	39
10035-S		148	1	46	24	677	14	2	82	3	19	13.6	73
10040-S		363	7	71	66	777	0	0	107	0	18	76.3	54
10045-S		113	0	65	6	0	0	0	11	0	0	56.1	0
10050-S		1140	12	115	132	3400	23	24	139	10	106	63.5	50
10055-S		16	1	52	26	550	7	1	26	0	13	19.2	0
10060-S	MESH 40	119	1	42	35	419	64	1	12	1	5	10.2	24
10065-S		45	3	26	21	225	15	6	26	2	9	34.7	7
10070-S		694	10	68	100	1130	51	20	82	7	33	57.8	29
10075-S		53	3	18	52	195	4	5	18	2	10	26.4	6
10080-S		107	2	55	43	1770	0	0	36	0	3	122.0	18
10085-S		193	15	11	91	376	38	7	38	9	10	72.9	30
10090-S	MESH 40	27	1	59	17	815	8	3	12	0	0	10.6	11
10095-S		58	1	23	15	170	0	0	15	0	2	31.7	19
10100-S		35	0	24	13	195	0	0	10	0	2	28.3	5
10105-S	MESH 40	2020	7	95	197	2780	64	10	70	7	25	36.2	113
12005-S		2380	20	43	220	1170	73	29	56	20	28	91.1	88
12010-S		50	3	19	20	133	0	0	8	0	5	34.1	11
12015-S		1880	12	50	123	753	20	5	57	4	28	103.0	136
12020-S		423	9	92	102	727	9	4	38	3	26	77.6	47
12025-S	MESH 40	1000	8	129	190	1090	18	11	63	4	28	55.0	68
12030-S		368	10	34	69	660	37	11	55	13	17	88.1	27
12035-S	MESH 40	276	3	90	26	739	18	16	67	8	12	63.7	7
12040-S	MESH 40	44	2	128	44	739	4	2	84	4	5	7.9	9
12045-S		113	4	68	56	276	0	0	25	0	0	62.0	9
12050-S		206	5	74	51	475	0	0	26	0	0	98.7	30
12055-S	MESH 40	94	1	39	28	731	40	6	19	2	11	15.7	24
12060-S		99	1	33	12	210	3	1	12	0	9	15.5	15
12065-S		55	2	22	26	249	1	6	14	1	22	15.7	9
12070-S		364	0	268	9	436	0	0	30	0	0	278.0	55
12075-S		52	2	38	17	167	7	4	14	1	11	14.5	5
12080-S		58	2	57	24	356	20	2	11	0	7	13.8	27
12085-S		233	7	61	52	353	12	1	28	0	18	59.4	21
20000-N		931	11	89	71	967	31	14	63	7	25	102.0	174
20005-N	N/S												

COMPANY: SUNBEAM RESOURCES | MIN-EN LABS ICP REPORT | PAGE 2 OF 3
PROJECT No: WEST HEMLO | 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 ✓ | FILE No: 7-[illegible]
ATTENTION: JOHN GREIG | (604)985-0514 OR (604)988-4524 | DATE: JULY 20, 1987

(REPORT VALUES IN PPM)

		PB	ZE	AU-PPB
26000-S		31	0	5
26005-S		201	157	25
26010-S		72	0	10
26015-S		54	0	15
26020-S		36	0	10
26025-S		42	0	5
26030-S		41	55	10
26035-S	MESH 40	62	82	5
26005-N	MESH 40	94	17	10
26010-N		64	0	5
26015-N	MESH 40	74	28	5
26020-N		42	46	15
24005-S		83	59	10
24010-S		33	0	5
24015-S		46	0	10
24020-S		97	0	5
24025-S		78	0	5
24030-S		94	75	60
24035-S		91	0	35
24040-S		95	30	5
10005-S		134	77	5
10010-S	MESH 40	235	10	5
10015-S		116	90	10
10020-S		59	0	10
10025-S	MESH 40	51	0	5
10030-S	MESH 40	134	18	15
10035-S		66	51	10
10040-S		131	0	25
10045-S		32	0	5
10050-S		148	108	10
10055-S		64	0	10
10060-S	MESH 40	46	6	5
10065-S		47	18	15
10070-S		147	76	5
10075-S		22	0	10
10080-S		214	0	10
10085-S		42	19	5
10090-S	MESH 40	64	17	5
10095-S		29	0	10
10100-S		25	0	15
10105-S	MESH 40	135	104	10
12005-S		99	184	5
12010-S		22	0	5
12015-S		139	17	10
12020-S		68	9	15
12025-S	MESH 40	87	67	10
12030-S		62	91	5
12035-S	MESH 40	126	107	10
12040-S	MESH 40	47	52	10
12045-S		40	0	10
12050-S		59	0	5
12055-S	MESH 40	57	4	20
12060-S		25	3	5
12065-S		20	11	5
12070-S		160	0	10
12075-S		17	3	5
12080-S		36	9	5
12085-S		60	0	10
20000-N		149	58	10
20005-N	N/S			

TREE	VALUES IN PPM	MS	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
20010-N	MESH 40	0	11600	0	2	4	2490	2.2	7	61	14600	393	1050
20015-N		0	10700	0	3	8	1250	0	15	15	115000	300	1740
20020-N		0	18200	0	13	18	1830	0	13	20	115000	335	3380
20025-N		6.2	30800	0	34	49	21200	5.7	87	83	152000	200	907
20030-N		1.5	20600	0	16	24	9100	4.7	128	137	62200	924	1980
20035-N		2.1	19000	0	12	9	3220	0	8	165	45700	584	1680
20040-N		0	14100	0	6	9	2070	0	7	21	60200	309	2540
20045-N		0	8070	0	1	4	1220	0	5	14	80300	366	1470
20050-N		0	38900	0	30	18	1410	0	14	26	123000	377	3670
20005-S		0	10600	0	1	8	575	0	5	12	43300	235	1130
20010-S		0	21500	0	15	9	14800	2.2	19	74	35000	151	1010
20015-S		0	9600	0	0	5	1220	0	5	13	55500	377	1490
20020-S		0	20000	0	13	19	1560	0	17	31	98800	290	4830
20025-S		0	7390	0	1	7	2910	0	7	21	105000	313	765
20030-S		0	22500	135	18	23	1660	4.9	29	15	54700	371	19900
24000-N		.2	13200	45	7	13	1570	2.2	23	38	29900	511	3620
24005-N		0	44800	0	36	24	2600	.9	24	71	83500	349	1790
24010-N		1.6	6210	107	3	23	802	1.7	15	17	101000	182	666
24015-N		0	6460	0	0	4	576	0	4	14	66900	258	752
24020-N		0	14600	0	7	14	3090	0	13	14	120000	335	3440
24025-N		0	8130	0	0	3	1570	0	5	34	45300	326	1280
24030-N		0	12000	0	2	6	1830	0	4	19	53900	307	687
24035-N		0	35700	0	29	20	10800	.6	32	115	91700	486	2870
24040-N		0	5530	0	0	2	526	0	1	11	11400	297	371
22000-S		0	34300	2	26	23	8560	2.8	26	136	83500	811	6330
22005-S		0	5210	0	0	4	2180	0	4	23	48700	362	495
22010-S		.2	38800	0	33	18	11100	1.7	17	195	59100	1080	3790
22015-S		0	43500	0	40	23	21300	4.9	37	112	76000	586	11400
22020-S		0	35300	22	29	22	12500	3.5	80	68	76400	582	3020
22025-S		0	5880	0	0	1	767	.5	1	20	5120	300	384
22030-S		0	11000	0	2	6	3570	0	4	61	39400	489	1290
22035-S		0	31700	39	23	20	6350	3.6	24	138	54700	386	19600
22040-S		.7	20300	0	21	7	28600	1.9	15	392	39800	757	4070
22045-S		0	9550	102	5	14	2570	3.9	16	23	33500	369	11200
22050-S		0	5830	0	0	1	714	0	2	12	42900	227	505
22005-N		.2	6970	9	0	2	378	.7	2	14	7480	252	441
22010-N		0	9240	0	0	6	1390	0	5	13	43700	437	2150
22015-N		0	4970	0	0	0	383	0	2	8	20900	182	433
22020-N		0	9600	0	0	5	1020	0	7	12	55500	238	2580
22025-N		0	8830	0	0	4	549	0	4	22	54300	346	733
22030-N		0	5850	0	0	4	1160	0	3	33	15400	206	846
22035-N		0	27400	0	20	20	6050	.7	57	98	85900	473	2850
22050-N		0	27900	0	20	5	19900	.8	9	98	26800	240	1100
04005-N		0	25000	0	16	11	6130	2.3	19	49	59800	366	13300
04010-N		0	25900	0	16	12	11300	0	13	538	36600	578	1510
04015-N	MESH 40	0	12700	0	5	6	2390	2.6	8	101	17700	764	966
04020-N		0	30500	0	25	14	27200	3.2	28	371	45700	447	2870
04025-N		0	28000	0	21	22	12900	1.9	43	128	97600	666	13600
04030-N		0	4230	0	0	1	1460	0	2	23	22400	236	506
04035-N		0	3810	0	0	2	618	0	2	10	38200	196	364
04040-N		0	6530	0	0	5	570	0	4	27	57500	349	765
04045-N		0	10900	0	2	8	635	0	6	14	72800	278	1330
04050-N		0	22300	0	17	23	1360	0	27	61	146000	553	2740
04055-N		0	8390	0	3	17	668	0	13	24	163000	202	3080
04060-N		0	9720	0	1	6	514	0	6	8	65400	169	2540
04065-N		0	16100	0	7	5	733	0	11	21	143000	369	2810
04070-N		0	19500	0	12	8	2090	0	9	20	104000	384	2100
04075-N		0	13700	0	7	13	1120	0	12	27	170000	589	1840
04080-N		0	8000	0	0	3	1230	0	3	27	52400	302	707
04085-N		0	5850	0	0	4	914	0	4	9	77600	238	1400

CONTINENTAL PRECIOUS RESOURCES — ICP-EN LABS ICP REPORT — ACTIVATION LABS — PAGE 2 OF

PROJECT NEW WEST REMLO — 795 WEST 16TH ST., NORTH VANCOUVER, B.C. V7M 1T2 — FILE # D-8758

ATTENTION: JOHN KEEN — (604)980-5814 OR (604)988-4524 — DATE: JULY 27, 1988

REPORT VALUES IN PPM		MN	MO	NA	NI	P	PB	SB	SR	TH	U		
20010-N	MESH 40	148	3	65	15	573	33	7	22	2	12	26.7	37
20015-N		168	0	43	0	151	0	0	0	0	0	107.0	5
20020-N		132	4	76	10	281	0	0	19	0	16	83.4	1
20025-N		44300	20	40	234	2360	44	26	83	0	302	75.5	271
20030-N		8400	13	77	91	1700	92	23	43	4	74	107.0	116
20035-N		195	2	58	22	940	3	0	25	0	12	40.7	59
20040-N		98	0	63	25	340	0	0	15	0	9	34.7	1
20045-N		46	0	52	3	0	0	0	3	0	0	37.3	1
20050-N		130	3	77	19	356	0	0	40	0	4	74.4	0
20005-S		28	1	38	4	109	0	0	12	0	7	53.9	2
20010-S		2630	7	92	45	1680	20	13	54	5	41	25.0	1
20015-S		40	0	43	0	42	0	0	9	0	0	42.9	1
20020-S		316	5	95	15	206	0	0	22	0	7	178.0	27
20025-S		149	0	77	0	73	0	0	3	0	0	72.9	41
20030-S		211	17	50	110	296	42	21	42	15	17	121.0	41
24000-N		311	8	69	41	584	58	15	23	8	23	85.7	49
24005-N		72	11	86	59	783	18	19	60	10	8	50.3	13
24010-N		29	13	25	11	391	33	12	12	6	15	150.0	15
24015-N		21	0	40	0	127	0	0	0	0	0	56.5	7
24020-N		81	0	53	8	91	0	0	8	0	4	83.8	17
24025-N		91	0	61	5	343	0	0	9	0	8	39.0	30
24030-N		15	0	61	5	582	0	0	9	0	17	53.5	9
24035-N		1390	7	88	46	1100	14	10	48	0	30	96.0	24
24040-N		39	0	56	5	269	2	0	6	0	12	19.8	6
22000-S		851	9	84	61	1090	38	18	58	10	31	98.3	119
22005-S		33	0	65	0	167	0	0	9	0	4	40.3	33
22010-S		1970	10	84	64	1020	15	17	69	5	52	67.8	36
22015-S		4500	19	59	125	1480	54	26	89	14	57	106.0	121
22020-S		1940	14	69	52	1470	43	23	68	9	42	98.7	22
22025-S		28	0	41	7	329	6	2	10	0	7	10.4	13
22030-S		69	0	46	3	375	0	0	22	0	14	26.4	22
22035-S		434	15	43	95	719	45	20	53	14	14	104.0	33
22040-S		2390	9	84	77	2230	44	7	87	3	37	38.1	22
22045-S		326	10	19	163	439	79	12	26	12	8	50.3	78
22050-S		26	0	36	0	77	0	0	1	0	0	37.7	1
22005-N		19	1	45	4	256	7	4	12	0	22	19.2	7
22010-N		48	0	51	5	136	0	0	12	0	0	27.0	4
22015-N		22	0	21	0	55	0	0	6	0	0	14.7	0
22020-N		64	1	32	9	65	0	0	8	0	0	38.1	4
22025-N		39	0	29	2	108	0	0	4	0	0	51.8	6
22030-N		36	1	30	4	234	5	2	10	0	8	21.7	9
22035-N		1010	7	59	34	1190	4	3	49	0	17	91.5	37
22050-N		926	4	46	27	2850	8	8	66	3	39	29.2	29
04005-N		204	9	29	38	350	32	5	35	4	9	77.6	6
04010-N		195	3	86	50	1150	4	5	33	0	28	45.0	13
04015-N	MESH 40	139	1	117	21	931	51	5	19	2	8	19.2	53
04020-N		2320	5	47	107	2460	27	14	55	6	32	68.2	62
04025-N		777	12	22	58	718	35	2	40	3	10	118.0	39
04030-N		58	0	18	7	318	0	0	5	0	1	17.7	20
04035-N		19	0	23	0	71	0	0	1	0	0	15.5	3
04040-N		45	0	54	0	326	0	0	0	0	0	34.7	1
04045-N		12	0	40	0	103	0	0	6	0	2	46.9	0
04050-N		336	0	64	97	154	0	0	18	0	5	138.0	32
04055-N		42	0	52	0	48	0	0	0	0	0	137.0	19
04060-N		54	0	56	4	90	0	0	6	0	1	48.0	14
04065-N		70	0	57	0	0	0	0	0	0	0	85.9	0
04070-N		49	0	78	7	202	0	0	16	0	2	64.0	1
04075-N		45	0	46	2	286	0	0	0	0	0	106.0	1
04080-N		66	0	53	0	96	0	0	3	0	9	24.3	0
04085-N		16	0	42	0	0	0	0	0	0	1	41.6	0

SOUTH CHILCOTIN RESOURCES
PROJECT NO: WEST HEMLO
ATTENTION: JOHN GREIG

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

(SAMPLE VALUES IN PPM)		BA	SE	AU-FEE
20010-N	MESH 40	57	24	10
20015-N		31	0	15
20020-N		35	0	10
20025-N		949	132	55
20030-N		179	121	10
20035-N		66	0	15
20040-N		20	0	5
20045-N		21	0	30
20050-N		27	0	5
20005-S		26	0	10
20010-S		97	88	10
20015-S		24	0	5
20020-S		53	0	5
20025-S		43	0	5
20030-S		39	82	10
24000-N		52	53	10
24005-N		39	65	5
24010-N		36	37	485
24015-N		27	0	5
24020-N		49	0	5
24025-N		65	0	10
24030-N		41	0	5
24035-N		105	35	5
24040-N		26	0	15
22000-S		167	72	20
22005-S		35	0	10
22010-S		99	68	5
22015-S		166	120	5
22020-S		110	125	10
22025-S		30	6	5
22030-S		70	0	15
22035-S		53	75	5
22040-S		114	77	10
22045-S		103	50	5
22050-S		31	0	5
22005-N		25	6	5
22010-N		22	0	10
22015-N		19	0	5
22020-N		39	0	5
22025-N		30	0	5
22030-N		23	3	5
22035-N		83	4	10
22050-N		134	83	5
04005-N		60	30	5
04010-N		99	32	5
04015-N	MESH 40	70	29	5
04020-N		146	89	10
04025-N		113	48	5
04030-N		25	0	10
04035-N		19	0	5
04040-N		33	0	5
04045-N		31	0	5
04050-N		66	0	5
04055-N		33	0	5
04060-N		18	0	10
04065-N		30	0	5
04070-N		32	0	5
04075-N		39	0	15
04080-N		20	0	5
04085-N		12	0	5

COMPANY: TORSEX RESOURCES

PROJECT: NEW WEST KEMLO

ATTENTION:

MIN-EN LABS ICP REPORT

1115 WEST 13th ST., NORTH VANCOUVER, B.C. V7M 1T2

(604)980-5814 OR (604)988-4521

PROJECT: [illegible] PAGE 1 OF 2

FILE NO: 0-4761 7941

DATE: JULY 24, 1987

(R... VALUES IN PPM)		GS	AL	GS	B	BI	CA	CD	CO	CU	FE	K	LA
04095-N		0	15900	0	7	7	962	0	15	17	122000	515	223
04095-N		0	4260	0	0	0	229	0	1	5	17700	144	277
04100-N	MESH 40	0	24100	0	18	9	13900	1.9	81	55	51600	508	1291
04105-N		0	41100	0	31	10	8760	1.6	69	78	90400	491	1561
04110-N		0	13900	0	5	10	826	0	9	11	91730	320	1712
04115-N		0	7710	0	0	5	699	0	4	7	55500	220	1079
04120-N		0	2850	0	0	2	327	0	2	4	42500	109	307
04125-N		0	9210	0	1	9	712	0	8	17	72400	391	1133
04130-N		0	14100	0	8	17	1870	0	13	20	101000	528	4770
04135-N	MESH 40	0	9920	0	5	9	4230	0	16	35	96100	713	7102
04140-N		0	5060	0	0	2	266	0	2	7	35500	156	719
14000-S	MESH 40	0	4740	0	0	3	5720	1.2	6	175	20100	469	692
14005-S	MESH 40	0	13200	18	8	7	14400	2.2	20	73	35400	633	2661
14010-S		0	5970	0	0	1	440	.2	1	5	5510	267	451
14015-S		.1	7900	31	0	6	1700	3.2	11	16	19700	169	7673
14020-S		0	21300	35	12	12	1250	2.7	13	21	33100	349	4113
14025-S		0	12200	121	9	29	1800	6.5	52	30	75200	249	24000
14030-S		0	5730	0	0	5	1100	0	6	7	66900	227	1763
14035-S		0	8450	0	0	6	948	0	6	6	57900	251	2331
14040-S		0	6370	0	0	4	1930	0	4	12	41300	331	909
14045-S		0	14600	0	10	6	19000	1.8	34	53	35800	453	3490
14050-S		0	10600	0	1	1	539	0	2	5	32700	218	789
14055-S		0	17700	0	11	8	1870	0	12	19	104000	824	3560
14060-S		0	22500	0	11	8	1580	1.3	10	39	22600	497	3670
14065-S		.1	9070	9	0	5	527	1.0	7	11	13400	673	586
16000-N		0	16700	0	8	7	2840	0	9	36	69100	353	2130
16005-N		0	16200	0	9	8	4900	0	11	19	96500	267	3860
16010-N		0	5720	0	0	3	971	0	4	14	34600	247	672
16015-N		0	17000	0	10	17	2550	0	29	51	135000	357	9500
16020-N		0	20300	0	10	13	749	0	7	17	54300	233	1120
16025-N		0	13900	16	4	10	491	2.6	15	14	33000	249	4620
16030-N		0	41200	10	31	10	38000	2.3	14	143	63400	182	599
16035-N		0	6410	0	0	4	715	.1	6	10	38800	189	737
16040-N		0	16200	0	6	10	2110	2.5	18	14	35600	319	3880
16045-N		5.5	5870	209	4	34	128	5.0	13	36	119000	96	782
16050-N		0	2490	0	0	0	209	1.2	1	5	5180	102	288
16055-N		.2	12500	78	11	34	3000	1.1	19	67	157000	272	803
16060-N		0	17200	80	12	23	1000	3.9	42	49	76400	390	2630
16065-N		0	10400	0	0	5	1500	0	6	20	35600	244	1810
16070-N		0	14400	8	7	8	951	1.2	16	17	75100	499	2790
16075-N		0	5310	0	0	0	892	0	6	8	35900	201	813
16080-N		0	5700	0	0	0	414	0	1	6	16800	178	526
16085-N		0	2470	0	0	0	800	0	1	6	35500	84	163
16090-N		0	21300	0	14	16	10200	.6	22	44	80900	395	2520
16095-N		0	4339	0	0	3	393	0	4	6	62100	187	519
16100-N		0	6690	0	0	2	498	.9	3	10	11000	230	923
16105-N		0	7050	0	0	2	516	.1	2	5	15100	215	1209
16110-N		0	10700	0	0	5	907	0	5	28	79300	434	1050
16115-N	MESH 40	0	9670	0	0	4	1230	0	4	71	46000	302	405
16120-N		0	9140	0	0	4	610	0	4	26	62800	455	813
16125-N		0	14100	0	4	9	800	0	11	18	69300	445	2003
16130-N		0	4240	0	0	6	751	0	13	9	51100	182	391
16135-N		0	11500	0	1	7	1200	1.0	7	40	38830	345	2350
16140-N		0	10100	0	0	0	755	.2	1	23	6470	269	424
16145-N		0	6450	0	0	4	737	0	5	13	35630	245	817
16150-N		0	40500	0	27	6	1750	0	29	52	85400	529	3960
16155-N		0	15100	0	3	6	549	0	7	14	61200	239	1223
16160-N		0	7590	0	0	3	537	0	4	11	72500	369	961
16165-N		0	21000	0	9	8	1720	0	9	16	69900	222	3071
16170-N		0	8590	0	0	5	792	0	10	15	119000	223	2163

(SOIL) VALUES IN PPM		MN	MO	CU	NI	P	PB	SB	BR	TH	U		AU
04090-N		162	0	64	13	275	0	0	1	0	2	104.0	1
04095-N		23	0	47	1	54	0	0	5	0	0	15.1	1
04100-N	MESH 40	3820	9	82	49	1970	52	11	47	2	43	74.2	71
04105-N		2240	5	57	88	1470	6	7	63	0	32	45.4	63
04110-N		109	0	43	4	135	0	0	8	0	0	54.6	10
04115-N		59	0	35	0	105	0	0	5	0	3	30.5	3
04120-N		56	0	40	0	0	0	0	0	0	0	19.4	0
04125-N		148	1	25	2	144	0	0	5	0	0	79.9	12
04130-N		139	4	61	10	228	0	0	16	0	7	160.0	21
04135-N	MESH 40	701	1	144	12	630	30	0	16	0	9	99.7	48
04140-N		14	0	42	0	29	0	0	2	0	3	20.6	0
14010-S	MESH 40	57	0	61	13	605	31	0	17	0	3	15.6	20
14005-S	MESH 40	227	5	59	29	764	20	5	40	6	6	47.4	19
14010-S		42	0	22	4	117	0	2	15	1	13	11.3	6
14015-S		112	8	24	67	174	20	5	18	6	12	34.3	31
14020-S		112	10	25	29	375	41	17	32	7	17	125.0	48
14025-S		1620	20	17	301	453	50	29	37	20	21	56.2	67
14030-S		71	0	42	5	13	0	0	4	0	8	37.8	0
14035-S		51	0	50	9	36	0	0	9	0	14	45.0	0
14040-S		112	0	48	1	124	0	0	10	0	5	27.9	18
14045-S		1380	4	70	47	678	60	2	67	0	34	29.0	156
14050-S		33	0	27	0	42	0	0	14	0	2	33.9	2
14055-S		97	0	98	13	89	0	0	23	0	4	68.4	4
14060-S		165	4	59	25	331	51	9	37	5	12	45.4	68
14065-S		97	2	32	14	256	7	5	19	3	22	16.6	27
16000-N		57	0	52	9	46	0	0	17	0	7	44.5	0
16005-N		55	1	41	19	102	0	0	20	0	11	71.1	0
16010-N		67	0	32	3	142	0	0	10	0	14	32.3	9
16015-N		301	1	26	76	254	0	0	12	0	0	89.4	50
16020-N		47	4	25	7	435	0	6	26	1	13	58.2	0
16025-N		310	8	38	30	393	35	11	19	5	10	104.0	55
16030-N		274	7	40	22	1730	17	16	51	11	25	65.3	0
16035-N		164	0	12	2	160	0	0	4	0	3	52.5	14
16040-N		2010	8	28	38	1100	29	12	23	5	20	62.9	44
16045-N		59	16	0	18	473	48	30	16	17	13	73.1	24
16050-N		24	1	9	3	67	6	0	2	0	3	9.0	3
16055-N		378	11	26	27	636	15	6	15	5	6	121.0	67
16060-N		695	14	57	61	1330	41	23	24	11	19	136.0	112
16065-N		71	0	45	10	193	0	0	14	0	1	28.4	29
16070-N		404	8	33	20	325	22	3	30	3	4	108.0	45
16075-N		90	0	19	0	73	0	0	4	0	0	26.6	7
16080-N		69	0	20	0	154	2	0	7	0	4	17.3	6
16085-N		81	0	26	0	12	0	0	0	0	0	15.2	3
16090-N		712	7	56	35	665	8	3	44	2	17	79.1	114
16095-N		49	0	12	0	48	0	0	0	0	2	35.6	3
16100-N		69	2	30	6	186	12	3	19	0	9	20.6	16
16105-N		46	1	19	4	104	0	0	11	0	10	21.1	4
16110-N		70	0	46	0	100	0	0	12	0	0	47.3	0
16115-N	MESH 40	92	0	74	0	967	0	0	8	0	0	25.1	16
16120-N		34	0	31	0	81	0	0	3	0	0	43.9	0
16125-N		588	3	19	13	216	0	0	17	0	3	91.5	31
16130-N		220	0	25	0	67	0	0	3	0	0	30.4	0
16135-N		121	2	42	22	316	35	0	15	0	4	51.4	14
16140-N		23	0	27	3	503	8	2	16	0	4	14.4	1
16145-N		323	0	10	4	193	13	0	5	0	10	24.6	12
16150-N		499	4	51	137	514	0	0	42	0	12	62.0	16
16155-N		59	0	31	3	55	0	0	11	0	3	50.4	1
16160-N		58	0	20	0	45	0	0	1	0	0	45.1	0
16165-N		90	3	39	5	161	0	0	18	0	2	41.7	2
16170-N		186	0	57	0	0	0	0	0	0	7	87.1	0

(REPORT VALUES IN PPM)		BA	SE	AU-PPB
04090-N		36	0	5
04095-N		11	0	5
04100-N	MESH 40	87	80	5
04105-N		101	36	5
04110-N		35	0	10
04115-N		21	0	10
04120-N		10	0	5
04125-N		38	0	5
04130-N		61	0	10
04135-N	MESH 40	80	0	5
04140-N		12	0	10
14000-S	MESH 40	98	17	10
14005-S	MESH 40	78	72	5
14010-S		17	7	5
14015-S		35	32	10
14020-S		43	59	5
14025-S		155	104	5
14030-S		20	0	5
14035-S		24	0	10
14040-S		38	0	5
14045-S		84	53	10
14050-S		16	0	5
14055-S		66	0	5
14060-S		56	27	5
14065-S		47	0	10
16000-N		38	0	5
16005-N		35	0	5
16010-N		31	0	10
16015-N		54	0	10
16020-N		35	7	5
16025-N		22	45	10
16030-N		59	140	5
16035-N		18	0	15
16040-N		48	60	10
16045-N		25	105	570
16050-N		12	0	10
16055-N		57	9	10
16060-N		43	93	5
16065-N		27	0	5
16070-N		59	13	10
16075-N		20	0	5
16080-N		17	0	10
16085-N		20	0	5
16090-N		61	30	10
16095-N		12	0	10
16100-N		38	9	5
16105-N		38	0	15
16110-N		60	0	5
16115-N	MESH 40	59	0	5
16120-N		36	0	5
16125-N		31	0	5
16130-N		19	0	5
16135-N		39	6	5
16140-N		24	9	10
16145-N		24	0	10
16150-N		55	0	5
16155-N		38	0	5
16160-N		19	0	5
16165-N		17	0	5
16170-N		24	6	5

[illegible] RESOURCES
PROJECT [illegible] WEST MEXICO
ATTENTION:

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

PAGE 1 OF 2
FILE No: 0-5788/87-E
DATE: JULY 26, 1987

(ROCK) VALUES IN PPM

	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
18175-N	0	5270	0	0	5	263	0	5	10	77500	194	555
18180-S	0	27000	0	17	25	946	.9	34	15	125000	342	25510
18010-S	0	8420	0	0	1	1130	.6	1	26	10400	112	357
18015-S	0	25000	0	18	25	717	.6	30	15	144000	342	15100
18020-S	0	13900	0	9	8	865	.4	17	23	72800	562	7870
18025-S	0	16100	0	7	18	2290	0	15	47	123000	625	2990
18030-S	0	41300	157	38	74	5130	6.9	77	68	135000	634	24900
18035-S	.1	12300	0	1	2	14100	4.4	4	143	15200	522	1529
18040-S	.5	7690	0	6	0	36500	3.1	15	165	20100	416	3479
18045-S	0	11900	0	7	24	1400	0	20	17	164000	389	4240
18050-S	0	10100	0	0	1	828	1.1	2	29	7440	432	772
18055-S	0	10700	0	0	2	4030	1.2	6	29	26500	561	2440
18060-S	0	6780	0	0	2	796	1.9	7	12	14200	509	516
18065-S	0	7110	0	0	5	3060	0	7	12	79900	1730	4100
18070-S	0	8290	0	0	0	2920	2.0	3	39	9410	465	656
18005-N	0	13900	37	3	11	873	2.5	19	12	49500	279	10000
18010-N	0	31200	84	25	29	483	4.2	40	56	117000	315	9210
18015-N	0	7550	0	0	9	991	0	8	13	76400	232	1330
18020-N	0	39800	0	28	17	14100	3.3	22	135	72200	416	3860
18025-N	0	14400	0	3	5	7600	3.1	17	143	29500	578	2480
18030-N	0	18200	0	7	7	1790	0	13	29	82300	780	3950
18035-N	0	10300	0	4	3	2270	.1	6	22	33700	375	926
18040-N	.2	10300	0	0	0	23400	1.6	3	55	10000	355	892
18045-N	.2	28900	46	21	27	1090	2.1	35	55	116000	474	4130
18050-N	0	9270	0	0	8	882	0	8	8	79300	300	2050
18055-N	0	7300	0	0	6	432	0	4	5	53700	215	829
18060-N	0	17100	43	7	10	576	2.2	13	15	55000	201	5980
18065-N	0	19200	14	10	9	5690	2.3	29	88	57900	242	5540
18070-N	0	26100	15	19	23	1840	3.3	36	55	87400	576	5060
18075-N	0	8300	0	0	2	704	.1	3	12	28200	312	1130
18080-N	0	3450	0	0	0	1010	0	3	7	20400	223	601
18085-N	0	11100	10	1	7	776	2.0	22	18	32400	260	2620
18090-N	0	21700	0	12	0	17900	1.3	7	47	24300	161	634
18000-S	0	35400	0	23	7	10200	1.5	17	88	60500	521	4271
18005-S	0	16500	105	12	26	805	2.8	44	41	105000	402	1670
18010-S	0	24300	0	16	20	6700	0	36	44	146000	406	14500
18015-S	0	5810	0	0	3	2310	3.2	2	32	13900	818	561
18020-S	0	26700	0	24	29	4090	2.4	51	109	141000	550	3931
18025-S	0	19200	0	11	25	3140	0	72	57	144000	305	11100
18030-S	0	5860	0	0	3	2650	.4	8	23	43700	236	3050
18035-S	0	24900	0	22	4	19300	4.9	49	74	57000	411	3330
18040-S	0	38800	0	28	7	9110	2.9	21	261	62900	972	4470
18045-S	0	19300	0	14	29	5070	0	34	29	231000	455	6470
18050-S	0	7060	0	0	3	2180	0	4	14	43000	310	999
18055-S	0	8930	0	0	4	956	0	4	11	41100	309	1730
18060-S	0	14800	0	3	3	459	.3	2	17	12600	459	1540
36005-S	.4	14300	0	2	0	18700	2.2	32	27	9710	242	1830
36010-S	0	7090	0	0	0	835	.5	2	14	11700	411	549
36015-S	0	36600	0	25	5	9530	1.5	34	101	81800	571	2950
36020-S	0	31500	0	19	5	1230	0	12	21	114000	262	2760
36025-S	0	13700	0	3	8	1750	0	11	11	79000	489	5250
36030-S	0	8750	0	0	4	972	0	5	8	47900	269	1750
36035-S	0	7500	0	0	3	924	0	5	10	56600	267	1090
36040-S	0	30400	0	20	20	1500	0	24	20	157000	362	7500
36045-S	0	12100	0	4	6	1660	0	12	21	104000	428	3250
36050-S	0	9340	0	0	1	532	.4	3	10	84000	291	915
36055-S	0	19400	0	12	3	26600	2.0	55	174	83800	284	877
36060-S	N/S											
36065-S	0	6710	0	0	2	581	0	2	12	47500	173	570
36070-S	0	4550	0	0	2	1890	1.2	6	27	21000	361	1400

SAMPLE#	VALUES IN PPM	MO	CU	PB	ZN	AG	NI	CO	MN	FE	AS	U	AU	TH	SR	CD	SB	BI	V	CA	P	LA	CR	MG	BA	TI	B	AL	NA	K	W	HG
16175-N		54	0	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82.0													
16005-S		198	13	5	130	91	12	0	23	1	0	161.0																			
16010-S		27	0	53	11	412	5	0	10	0	0	12.7																			
16015-S		178	11	19	97	74	5	0	20	0	0	188.0																			
16020-S		257	11	26	36	303	38	0	20	0	2	177.0																			
16025-S		524	2	39	7	319	0	0	15	0	10	171.0																			
16030-S		2090	25	25	235	674	65	31	72	25	35	205.0																			
16035-S		101	2	102	119	876	22	5	78	3	20	14.2																			
16040-S		952	4	40	219	1150	18	4	112	6	17	17.8																			
16045-S		230	4	44	29	302	0	0	3	0	0	176.0																			
16050-S		40	3	31	7	273	21	3	17	2	9	19.8																			
16055-S		96	4	49	15	457	15	0	46	0	10	26.7																			
16060-S		64	2	38	8	315	23	3	17	0	26	25.9																			
16065-S		72	0	141	1	326	0	0	34	0	0	38.6																			
16070-S		25	1	68	14	665	20	3	34	1	22	16.5																			
19005-N		188	9	32	63	179	34	5	18	4	14	94.7																			
19010-N		424	21	20	72	724	45	27	42	17	11	193.0																			
19015-N		56	1	26	9	90	0	0	7	0	0	145.0																			
19020-N		499	12	71	32	1240	21	17	65	11	31	132.0																			
19025-N		631	4	102	32	757	32	6	38	1	26	51.6																			
19030-N		329	2	163	17	362	0	0	25	0	12	110.0																			
19035-N		59	2	82	5	257	4	0	19	0	6	59.1																			
19040-N		224	1	48	10	966	9	1	60	2	20	10.8																			
19045-N		446	12	39	86	755	27	16	38	10	14	100.0																			
19050-N		98	0	43	3	36	0	0	4	0	4	70.7																			
19055-N		43	0	27	0	0	0	0	5	0	0	53.0																			
19060-N		196	11	39	30	279	29	9	24	6	10	98.3																			
19065-N		413	10	72	113	360	27	11	34	7	14	80.1																			
19070-N		2210	14	55	57	1190	41	18	36	9	17	144.0																			
19075-N		54	0	31	6	220	3	0	8	0	4	30.3																			
19080-N		66	0	27	1	179	8	0	3	0	1	16.3																			
19085-N		186	6	22	28	361	21	7	20	4	10	74.7																			
19090-N		172	3	63	21	1490	11	4	70	3	11	23.8																			
19000-S		605	5	57	55	936	0	3	64	1	26	50.6																			
19005-S		287	13	29	130	560	43	21	39	17	25	272.0																			
19010-S		1350	9	32	52	789	0	0	134	0	25	145.0																			
19015-S		145	1	42	4	521	101	0	14	0	14	19.3																			
19020-S		2320	23	59	39	698	22	9	39	6	12	147.0																			
19025-S		1030	10	38	58	181	0	0	23	0	9	157.0																			
19030-S		72	0	46	13	310	9	0	13	0	0	52.5																			
19035-S		4960	9	31	81	1940	73	11	51	5	35	57.1																			
19040-S		1130	7	83	130	1320	23	8	94	6	35	80.4																			
19045-S		346	7	73	33	523	0	0	10	0	0	278.0																			
19050-S		59	0	40	0	109	0	0	9	0	7	55.6																			
19055-S		62	0	44	10	99	0	0	11	0	5	40.4																			
19060-S		47	2	36	5	209	14	3	19	1	4	35.2																			
36005-S		778	8	46	71	1020	12	3	89	0	42	14.2																			
36010-S		23	1	49	6	193	6	0	14	0	5	18.0																			
36015-S		452	9	75	110	640	0	1	71	4	24	55.5																			
36020-S		86	4	44	9	337	0	0	27	0	0	69.4																			
36025-S		227	2	53	12	129	0	0	15	0	0	46.2																			
36030-S		58	0	38	2	159	0	0	9	0	5	39.3																			
36035-S		48	0	32	0	120	0	0	9	0	0	51.6																			
36040-S		318	4	64	20	551	0	0	28	0	2	86.1																			
36045-S		59	0	56	18	145	0	0	12	0	0	78.0																			
36050-S		53	2	40	2	132	5	0	15	0	6	27.5																			
36055-S		1080	4	70	134	1090	27	4	85	1	35	27.9																			
36060-S	N/S																															
36065-S		27	0	9	1	49	0	0	6	0	0	22.9																			
36070-S		60	1	66	5	548	38	0	9	0	0	31.7																			

SAMPLE	VALUES IN PPM	EA	SE	AU-PPB
16175-N		18	7	5
16035-S		29	0	10
16010-S		76	6	5
16015-S		42	0	10
16020-S		35	0	10
16025-S		81	0	10
16030-S		86	153	5
16035-S		133	31	5
16040-S		85	73	5
16045-S		53	0	10
16050-S		41	7	5
16055-S		80	11	30
16060-S		63	3	5
16065-S		65	0	5
16070-S		86	9	5
18005-N		41	7	5
18010-N		38	113	5
18015-N		30	0	10
18020-N		85	122	5
18025-N		116	46	5
18030-N		54	0	10
18035-N		56	0	5
18040-N		69	44	5
18045-N		60	43	10
18050-N		20	0	5
18055-N		17	0	5
18060-N		27	42	5
18065-N		39	56	10
18070-N		64	81	5
18075-N		26	0	10
18080-N		22	0	10
18085-N		26	4	10
18090-N		110	76	5
18000-S		77	30	5
18005-S		90	81	5
18010-S		97	0	10
18015-S		69	6	10
18020-S		101	50	50
18025-S		117	0	20
18030-S		54	0	10
18035-S		110	99	5
18040-S		110	66	5
18045-S		77	0	50
18050-S		35	0	10
18055-S		44	0	5
18060-S		34	9	5
36005-S		93	35	10
36010-S		60	0	5
36015-S		94	37	5
36020-S		38	0	10
36025-S		34	0	10
36030-S		25	0	10
36035-S		27	0	5
36040-S		41	0	5
36045-S		44	0	5
36050-S		36	0	10
36055-S		111	72	5
36060-S	N/S			
34185-S		18	0	10
36070-S		48	0	5

[illegible] CLIENT: [illegible]

PROJECT NO. WEST VENCO

(ATTENTION)

VAN-EN LABS ICP REPORT

1521 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2

(604)980-5814 OR (604)986-4524

[illegible] PAGE 1 OF 2

FILE NO. [illegible]

DATE: JULY 24, 1991

(PPM) VALUES IN PPM

		AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
34075-S		0	36900	0	27	23	5630	0	34	84	150000	672	6760
34080-S		0	8840	0	0	3	568	.9	3	24	21400	256	476
34085-S		0	19500	0	10	7	7460	.1	23	39	68600	680	4210
34090-S		0	5460	0	0	0	2190	0	2	18	27200	474	658
34095-S		0	42100	2	34	27	12700	4.4	42	128	109000	694	21500
34100-S		0	20100	0	10	17	3220	0	22	34	144000	423	8530
34105-S		0	12000	0	5	5	18600	.6	10	40	50800	524	4180
34110-S		0	27600	0	20	5	3600	0	17	16	104000	710	5960
34115-S		0	3890	0	0	0	1580	.6	1	19	10400	268	221
34051-S		0	24200	0	11	7	6920	0	11	88	73800	307	3410
34000-N		0	10400	0	1	8	2070	0	11	23	78300	358	4710
34005-N		0	10500	0	1	6	429	.8	6	7	32400	390	2260
34010-N		0	8190	0	0	9	1080	0	7	9	75100	355	2360
34015-N		0	5220	0	0	0	372	0	1	10	14300	249	677
34020-N		0	4150	0	0	1	713	0	1	8	26200	376	693
34025-N		0	8030	0	0	2	754	0	2	13	29100	260	967
34030-N		0	2550	0	0	0	1340	0	1	7	20700	272	765
34035-N		0	12700	0	2	7	787	0	5	17	53700	390	1630
34040-N		0	7820	0	0	1	911	0	3	12	24600	760	1760
34045-N		0	24700	0	15	7	7260	.3	17	37	65700	620	4470
34050-N		.4	22400	0	21	11	33600	2.8	15	24	64000	2080	11300
34055-N		0	15900	0	9	7	3320	.7	8	8	41900	821	3200
32000-S	N/S												
32005-S		0	22300	114	18	34	1340	5.4	23	57	121000	614	1870
32010-S	N/S												
32015-S		0	23700	0	13	21	7390	0	28	40	118000	2400	12600
12085-S	N/S												
28000-N		0	34600	0	24	14	12400	2.2	22	159	66700	518	4390
28005-N	MESH 40	0	27900	0	15	2	19500	1.6	28	75	15000	135	548
28010-N	MESH 40	0	17300	0	8	8	3320	1.5	8	35	29000	227	1800
28015-N		.1	7720	38	2	10	2890	3.3	12	27	36900	213	2570
28020-N		0	15600	0	8	17	2160	1.1	13	72	78000	481	1790
28025-N		1.2	9910	1	7	13	46700	1.5	13	1480	15900	183	586
28030-N		.4	4000	0	0	0	33200	1.6	2	64	9140	201	968
28035-S		0	20400	0	12	2	34400	1.0	13	160	37100	280	1550
28010-S		0	2790	0	0	1	857	0	2	8	21600	129	323
28015-S		.2	21500	0	13	5	26200	2.4	56	171	26100	132	741
28020-S		.2	20200	0	14	15	7450	2.3	84	126	78400	834	2710
28025-S		0	15200	0	5	12	1180	.2	13	16	55400	221	8150
28030-S		.5	15200	0	8	3	32500	2.8	15	83	20200	151	2010
28035-S		.5	28500	18	22	23	5810	5.7	52	86	72500	724	10700
28040-S		2.2	10500	0	6	6	26200	4.2	20	129	22900	183	1060
28045-S		0	12000	30	3	10	644	3.6	13	13	32600	132	7160
28050-S		0	7640	0	0	7	920	0	4	10	49800	185	305
28055-S		0	12400	0	4	10	1710	0	6	62	58100	511	1120
34005-S		.6	1790	4	0	1	4080	.4	3	9	3730	201	421
34010-S		0	16900	0	8	17	670	.1	10	12	82100	194	1470
34015-S		0	8450	0	0	10	999	.2	7	7	61700	225	1080
34020-S		0	10100	5	5	16	966	.8	20	18	96100	295	2150
34025-S		0	10900	0	1	6	1180	.3	6	38	29200	335	2020
34030-S		0	8200	0	0	8	2110	1.1	6	34	36900	426	1110
34035-S		.1	12200	0	6	11	4770	1.3	21	69	55900	562	2310
34040-S		.5	15900	0	9	16	3400	.7	23	35	65000	516	7760
34045-S		.2	17900	0	10	14	3320	1.5	18	62	60200	835	3910
34050-S		0	6930	0	0	2	1590	.8	1	31	8690	444	555
34055-S		0	11800	0	2	3	9830	1.9	4	89	15700	642	1130
34060-S		.2	16600	0	8	5	18800	1.9	9	153	27900	392	3060
34065-S		.1	10300	0	2	10	2460	0	11	17	71700	442	2190
34070-S		.1	4230	0	0	2	1680	.2	3	11	25400	232	290
34075-S		0	3980	0	0	1	1110	4.1	2	20	5530	631	492

COMPANY: DEVEST JOB RESOURCES — MIN-EN LABS ICP REPORT — PAGE 2 OF 2

PROJECT NOT WEST KYLE — 705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 — FILE NO: 87-0151-R1

ATTENTION: — (604)980-5814 OR (604)988-4524 — DATE: JUL 30, 1987

RE	VALUES IN PPM	MN	MO	NI	PT	P	PB	SB	SR	TH	U	V	ZN
36075-S		262	7	65	25	364	0	0	44	0	9	148.0	31
36080-S		102	2	40	6	286	18	0	11	0	7	36.0	9
36085-S		810	5	52	25	805	3	0	39	0	12	82.6	23
36090-S		74	0	44	0	141	1	0	14	0	8	23.1	10
36095-S		1360	15	60	159	571	48	14	70	13	23	151.0	83
36100-S		301	0	35	7	62	0	0	16	0	0	170.0	23
36105-S		610	1	76	21	577	7	0	47	0	20	42.5	20
36110-S		154	3	123	31	409	0	0	37	0	3	59.1	7
36115-S		33	0	40	4	159	11	0	12	0	5	12.0	11
36097-S		98	0	57	43	269	0	0	35	0	19	39.9	53
34000-N		120	1	87	28	23	0	0	11	0	0	46.4	19
34005-N		144	5	27	11	250	14	0	13	2	1	45.1	20
34010-N		69	0	44	6	60	0	0	5	0	0	55.4	8
34015-N		19	0	41	0	157	2	0	12	0	0	17.9	4
34020-N		46	0	57	0	84	3	0	8	0	0	14.7	5
34025-N		20	0	43	0	89	0	0	10	0	13	26.5	0
34030-N		55	0	74	0	174	14	0	18	0	3	9.3	10
34035-N		60	3	38	4	319	0	0	14	0	1	44.3	4
34040-N		50	2	37	9	398	5	0	16	0	3	19.3	17
34045-N		636	4	129	39	921	0	0	46	0	22	43.4	94
34050-N		376	4	278	26	426	30	0	48	13	3	57.9	25
34055-N		94	2	96	11	257	0	0	29	2	0	37.1	22
32000-S	N/S												
32005-S		100	13	35	42	831	80	13	47	21	4	76.5	163
32010-S	N/S												
32015-S		658	3	103	33	221	0	0	24	0	0	68.7	30
12085-S	N/S												
28000-N		564	8	119	60	1430	13	0	56	8	8	71.9	53
28005-N	MESH 40	384	3	66	21	1230	15	0	46	5	14	12.6	0
28010-N	MESH 40	53	5	76	16	1070	7	0	24	3	0	25.5	1
28015-N		219	9	52	23	357	27	6	19	9	3	48.7	29
28020-N		134	7	66	21	305	14	0	22	1	0	101.0	56
28025-N		201	3	84	133	831	44	1	31	7	0	10.6	33
28030-N		45	4	92	14	589	10	0	32	7	0	7.6	12
28005-S		166	2	73	29	924	0	0	30	4	0	35.6	3
28010-S		26	0	27	0	87	0	0	3	0	0	22.4	3
28015-S		2280	7	51	35	1620	25	0	46	7	7	37.4	3
28020-S		2020	8	83	30	1150	41	0	34	3	4	169.0	51
28025-S		131	4	35	36	194	0	0	17	0	0	71.0	11
28030-S		2240	5	51	66	989	26	0	50	8	5	20.4	5
28035-S		3200	13	65	113	1290	98	8	55	17	16	114.0	49
28040-S		8140	6	54	104	1160	48	4	69	4	25	15.4	65
28045-S		129	6	23	61	191	37	2	20	10	0	96.7	21
28050-S		159	0	37	0	15	0	0	3	0	0	72.4	5
28055-S		119	0	71	0	292	0	0	14	0	0	59.6	12
34005-S		19	1	46	16	410	11	0	12	1	10	5.0	12
34010-S		38	5	48	10	191	2	0	21	2	0	96.5	0
34015-S		30	3	30	3	146	0	0	19	0	0	66.6	0
34020-S		438	7	29	48	339	10	0	15	1	0	144.0	16
34025-S		60	3	35	11	228	4	0	17	1	3	33.7	7
34030-S		122	2	31	5	395	15	0	14	0	0	48.3	24
34035-S		752	4	74	15	721	110	0	33	0	1	81.8	81
34040-S		701	4	162	65	542	21	0	32	0	1	79.1	81
34045-S		348	6	76	20	609	15	0	71	2	0	88.5	40
34050-S		69	0	38	3	316	29	0	16	1	0	20.2	17
34055-S		132	2	106	23	2069	28	0	37	2	0	19.6	39
34060-S		487	2	139	58	532	6	0	44	5	6	27.8	47
34065-S		137	1	104	3	108	0	0	21	0	1	91.0	9
34070-S		26	0	31	0	110	2	0	12	0	0	37.4	10
34075-S		109	1	44	9	909	137	0	19	1	0	10.0	75

[illegible] VALUES IN PPM		Ba	Se	Au-FA/AA
34075-S		122	0	5
34080-S		23	5	5
34085-S		78	0	10
34090-S		44	0	5
34095-S		103	102	10
34100-S		80	0	5
34105-S		59	9	5
34110-S		49	0	5
34115-S		53	0	10
34059-S		62	0	5
34000-N		26	0	5
34005-N		29	6	5
34010-N		25	0	5
34015-N		26	0	5
34020-N		30	0	5
34025-N		19	0	10
34030-N		20	0	5
34035-N		30	0	5
34040-N		34	0	5
34045-N		80	0	5
34050-N		76	45	5
34055-N		36	0	5
32000-S	N/S			
32005-S		69	76	5
32010-S	N/S			
32015-S		56	0	5
12085-S	N/S			
29000-N		68	50	5
29005-N	MESH 40	59	64	5
29010-N	MESH 40	40	17	5
29015-N		25	49	5
29020-N		29	0	5
29025-N		23	79	25
29030-N		20	66	10
29005-S		35	47	10
29010-S		19	0	95
29015-S		74	84	15
29020-S		87	20	5
29025-S		28	0	20
29030-S		111	87	10
29035-S		98	70	5
29040-S		155	93	10
29045-S		20	28	15
29050-S		19	0	5
29055-S		55	0	10
34005-S		67	35	5
34010-S		21	0	5
34015-S		32	0	5
34020-S		50	0	15
34025-S		28	0	10
34030-S		61	0	10
34035-S		52	0	5
34040-S		41	0	5
34045-S		62	0	10
34050-S		37	6	10
34055-S		88	34	10
34060-S		64	46	5
34065-S		37	0	5
34070-S		23	0	15
34075-S		93	20	5

MIN-EN LABS ICP REPORT

[illegible]
705 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE NO: [illegible]
DATE: JULY 26, 1985

[illegible]	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
34080-S	0	14200	0	4	13	2610	.5	13	15	66300	359	5190
34085-S	.1	7410	0	0	13	2320	0	9	13	99200	264	1490
34090-S	0	39900	0	26	13	7580	.1	27	62	101000	861	9260
34095-S	0	6400	0	0	8	1590	0	3	11	38000	285	847
34100-S	0	37500	124	29	37	4090	7.0	73	54	114000	580	14500
34105-S	0	29800	0	21	36	6270	1.3	45	31	167000	774	20100
34110-S	0	15200	0	9	13	2360	.5	12	12	63500	1040	4540
34115-S	0	14200	0	10	10	7360	.8	15	18	58800	1360	6120
34120-S	0	8770	0	2	8	4260	1.0	11	11	48400	654	4480
34125-S	0	5710	0	0	6	1250	0	5	7	42300	263	2110
32000-N	0	14600	0	6	7	17300	.9	13	64	44100	385	2010
32005-N	0	14800	0	8	27	1110	0	15	24	128000	290	2780
32010-N	0	8390	0	0	5	2550	.4	7	20	33700	239	2730
32015-N	.8	1990	4	0	0	37800	1.0	1	24	5310	130	709
32020-N	.3	11900	0	8	6	13700	.7	11	19	47100	996	5010
32025-N	0	17900	0	10	7	3510	.5	11	10	50900	1010	3730
32030-N	0	12600	0	7	12	2380	.7	9	9	52800	747	3230
32035-N	0	10300	0	2	8	1120	0	5	9	41900	240	1530
32040-N	0	17900	0	8	15	881	.5	14	17	70100	909	4690
32045-N	.2	4730	0	0	3	845	.5	2	9	13900	337	582
32010-N	.5	7900	0	8	0	41500	1.4	3	95	11200	128	695
30000-N	0	33400	0	22	11	11800	3.9	15	81	33700	569	3890
30005-S	0	16800	0	7	13	1420	0	11	26	80700	361	2590
30005-N	.3	28400	0	18	17	3980	2.7	24	85	65400	662	5400
30010-N	.1	9460	0	0	5	1720	1.8	7	43	11200	564	1010
30015-N	0	12100	0	7	7	2620	2.8	11	28	27000	599	3130
30020-N	0	23000	0	16	17	2980	2.0	30	38	70800	929	6160
30025-N	0	13000	0	6	11	5570	1.2	14	12	59000	509	5780
30030-N	0	7570	0	0	7	986	0	5	7	48900	337	1360
30035-N	.1	15900	0	7	10	7680	.8	23	15	57900	523	5950

SAMPLE #	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Ge	Au	Hg	Sc	Tl	S	Ga	Se	Te	Ge
34080-S	161	3	61	22	57	0	0	24	0	0	72.0	17																																				
34085-S	35	0	43	0	0	0	0	73	0	0	134.0	3																																				
34090-S	249	5	176	66	343	0	0	64	2	1	87.2	18																																				
34095-S	50	1	45	0	73	0	0	12	0	0	41.6	3																																				
34100-S	1220	19	45	272	874	87	12	64	26	14	123.0	119																																				
34105-S	605	6	67	38	178	0	0	45	0	0	214.0	24																																				
34110-S	144	3	92	21	347	8	0	28	3	0	60.0	39																																				
34115-S	269	3	199	27	713	5	0	32	7	4	51.4	51																																				
34120-S	277	2	136	23	693	1	0	23	4	2	40.9	13																																				
34125-S	45	1	53	5	103	0	0	10	0	0	49.9	4																																				
32000-N	93	3	69	28	549	0	0	37	3	0	49.8	61																																				
32005-N	92	6	51	7	206	0	0	16	0	0	165.0	17																																				
32010-N	91	0	61	5	382	0	0	13	1	0	28.1	11																																				
32015-N	136	2	60	7	493	25	0	37	7	0	4.8	43																																				
32020-N	916	2	269	31	630	19	0	32	5	7	34.8	56																																				
32025-N	287	2	161	13	459	6	0	31	2	3	40.5	38																																				
32030-N	128	3	98	15	238	0	0	22	0	0	47.9	24																																				
32035-N	99	3	41	7	367	12	0	16	1	0	41.9	12																																				
32040-N	246	5	69	19	325	6	0	24	2	0	79.0	22																																				
32045-N	45	0	56	3	189	21	0	9	0	3	17.2	17																																				
32010-N	725	3	68	102	928	14	0	42	7	0	8.9	43																																				
30000-N	1250	8	139	43	1970	36	0	55	6	19	36.5	135																																				
30005-S	92	3	59	4	225	0	0	23	0	0	84.7	0																																				
30005-N	1720	10	84	45	957	26	0	48	8	15	78.6	110																																				
30010-N	137	1	82	10	535	34	0	16	1	5	26.3	41																																				
30015-N	268	3	68	17	575	39	0	23	4	0	63.7	96																																				
30020-N	1270	7	77	26	353	31	0	40	6	3	77.7	59																																				
30025-N	245	4	105	21	356	1	0	29	2	2	50.5	35																																				
30030-N	49	1	43	3	112	0	0	12	0	0	71.8	5																																				
30035-N	729	6	194	41	817	16	0	45	5	15	53.3	53																																				

SAME

COMPANY: CUMBERLAND RESOURCES | MIN-EN LABS ICP REPORT | (ACT-93007-1) PAGE 3 OF 3

PROJECT No: WEST KEVIN | 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE No: 3-5783/93

ATTENTION: | (604)980-5814 OR (604)988-4524 | DATE: JULY 26, 1993

ACME #	VALUES IN PPM	Ba	Se	Bi-209
	34080-S	39	0	10
	34085-S	27	0	5
	34090-S	78	0	25
	34095-S	45	0	50
	34100-S	87	93	20
	34105-S	57	0	10
	34110-S	61	0	5
	34115-S	57	0	15
	34120-S	29	0	10
	34125-S	25	0	10
	32000-N	88	21	5
	32005-N	37	0	5
	32010-N	26	0	5
	32015-N	38	78	10
	32020-N	61	18	10
	32025-N	53	0	5
	32030-N	49	0	10
	32035-N	26	0	15
	32040-N	50	0	10
	32045-N	33	0	10
	32010-N	102	84	5
	30000-N	66	70	5
	30005-S	33	0	5
	30005-N	76	24	10
	30010-N	45	11	5
	30015-N	69	16	5
	30020-N	60	0	10
	30025-N	33	0	10
	30030-N	23	0	5
	30035-N	52	0	10

MIN-EN Laboratories Ltd.

705 WEST 15th STREET,
NORTH VANCOUVER, B.C., CANADA V7M 1T2
TELEPHONE (604) 980-5814

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ANALYTICAL REPORT

Project ..... West Hemlo ..... Date of report ..... Aug. 15/83.

File No. ..... 3-695 ..... Date samples received ..... Aug. 4/83.

Samples submitted by: .....

Company: ..... Cumberland Resources .....

Report on: ..... 439 soils ..... Geochem samples

..... Assay samples

Copies sent to:

1. Cumberland Resources, Richmond, B.C.
2. .....
3. .....

Samples: Sieved to mesh ..... -80 ..... Ground to mesh .....

Prepared samples stored ☒ discarded ☐

rejects stored ☐ discarded ☒

Methods of analysis: ..... 26 element ICP. Au-aqua regia.A.A. .....

Remarks: .....

SPECIALISTS IN MINERAL ENVIRONMENTS

MIN-EN Laboratories Ltd.

705 WEST 15th STREET,
NORTH VANCOUVER, B.C., CANADA V7M 1T2
TELEPHONE (604) 980-5814

ANALYTICAL REPORT

Project ..... West Hemlo ..... Date of report ..... Aug.15/83.

File No. ..... 3-695 ..... Date samples received ..... Aug.4/83.

Samples submitted by: .....

Company: ..... Cumberland Resources .....

Report on: ..... 439 soils ~~cores~~ ..... Geochem samples

..... Assay samples

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Copies sent to:

1. Cumberland Resources, Richmond, B.C.
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Samples: Sieved to mesh ..... -80 ..... Ground to mesh .....

Prepared samples stored ☒ discarded ☐

rejects stored ☐ discarded ☒

Methods of analysis: ..... 26 element ICP. Au-aqua regia A.A. .....

.....

Remarks: .....

.....

.....

SPECIALISTS IN MINERAL ENVIRONMENTS

COMPANY: CUMBERLAND RESOURCES
PROJECT No: WEST HEMLO
ATTENTION:

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

(ACT:GEO3A+) PAGE 1 OF 3
FILE No: 3-6955/P1+2
DATE: AUGUST 15, 1983

(REPO[illegible]ALUES IN PPM)		AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
46000N		0	28400	0	23	16	1060	.1	9	14	68500	102	2130
46005S		0	6050	0	5	4	603	0	2	6	19400	143	725
46010S		0	12200	0	11	12	677	0	5	7	52000	130	1250
46015S		0	41700	0	35	21	1370	.3	14	14	91700	136	3130
46020S		0	19300	0	16	8	645	0	4	7	35300	129	887
46025S		0	41500	0	34	16	963	.5	10	12	76000	141	1550
46030S		0	33400	0	40	20	1470	.9	13	20	82600	183	4790
46035S		0	10900	0	11	11	991	0	7	6	61500	195	1530
46040S		0	11500	0	11	15	929	0	7	9	62500	147	1890
46045S	MESH 40	0	6980	0	9	0	2110	1.1	1	30	7570	204	395
46050S		0	31900	0	27	12	700	0	8	9	60200	125	1110
46055S		0	14300	0	12	8	253	0	4	5	43100	86	963
46060S		0	30900	0	29	22	701	1.3	16	16	94800	220	3840
46065S		0	15400	0	17	21	1010	.6	11	13	94800	154	1750
46070S		0	19900	0	18	12	1060	0	9	10	70500	165	1920
46075S		0	17700	0	17	13	3630	0	14	44	56000	216	4680
46080S		0	18800	0	21	7	15000	5.3	59	50	37000	215	1730
46085S		0	29300	0	24	10	2610	.1	15	43	38700	122	3990
46090S		0	17800	0	19	21	681	0	11	12	103000	123	1470
46095S	MESH 40	0	15800	0	13	3	4340	1.7	5	36	18100	123	2260
46100S		0	8860	0	9	7	991	0	4	10	30800	210	1070
46105S		0	22500	0	23	11	2030	.7	17	25	82300	221	3790
46110S	MESH 40	0	22100	0	20	4	10800	1.2	7	263	15000	228	1400
46115S		0	10300	0	12	11	925	0	8	12	78600	127	1170
46120S		0	24500	0	24	12	7720	1.4	31	37	50100	194	3690
46125S		.5	12700	0	23	0	46500	2.2	11	102	16300	110	1120
46130S		0	6830	0	7	6	1760	0	7	27	26400	158	1640
46135S		0	24400	0	26	39	922	.4	33	36	163000	109	15400
52000N		0	30300	0	29	31	1440	2.5	28	24	107000	249	19000
52005S		.2	40200	0	36	21	14100	2.4	12	97	56500	217	1930
52010S		0	17300	0	17	14	1140	.5	11	9	48800	459	4110
52015S		0	11400	0	13	11	838	0	11	9	87000	151	1960
52020S		0	19300	0	19	21	960	0	11	8	96800	142	1820
52025S		0	30500	0	29	32	9180	1.3	44	27	126000	1460	30500
52030S	MESH 40	0	17300	0	20	9	12100	3.3	14	37	41100	338	4750
52035S		0	21500	0	25	21	13800	3.2	27	47	75500	241	5600
52040S		0	18100	0	20	21	8730	3.0	51	147	79100	244	7290
52045S	MESH 40	0	5220	0	11	0	21700	1.1	4	25	6690	122	790
52050S		0	13600	0	15	11	1520	0	10	13	83400	163	2150
52055S		0	25000	0	23	11	1450	0	10	7	78200	166	1990
52060S		0	9760	0	10	7	1000	0	5	6	41100	116	1240
52065S		0	25300	0	31	32	1200	2.4	79	36	126000	384	1770
52070S		0	11100	0	11	12	1300	.4	11	24	55800	142	2950
52075S		0	9450	0	10	10	999	0	9	11	62200	156	2200
52080S		0	12600	0	14	10	1010	0	11	9	93500	155	2380
52085S		0	21600	0	19	12	1490	.2	8	13	54100	158	2330
52090S		0	16600	0	16	12	2300	0	11	14	63900	162	2750
52095S		0	26900	0	24	11	1140	0	13	8	78600	180	2290
52100S		0	25400	0	24	13	1060	.4	8	10	55400	157	1820
52105S		0	20800	36	25	37	2840	1.2	28	107	144000	264	4690
52110S		0	37700	0	35	9	11300	1.9	28	129	42400	279	1760
52115S		0	13600	0	14	9	5450	1.4	10	71	39100	260	1050
52120S		1.5	28200	0	31	22	15600	3.2	36	82	70300	182	1320
52125S		0	9520	0	10	11	864	0	9	8	67400	166	1950
52130S		1.0	18900	0	20	8	15800	2.9	57	96	37000	176	864
52135S		0	14300	0	17	9	8930	0	20	40	90500	362	3500
52140S		0	13300	0	16	21	1430	0	13	11	104000	189	2840
52145S		0	13700	0	20	29	1210	0	17	27	128000	627	3170
52150S		0	14500	0	15	13	3130	.1	15	25	54900	344	2940
58005N		0	12000	0	12	8	908	0	5	10	42000	108	951

COMPANY: CUMBERLAND RESOURCES
PROJECT No: WEST HEMLO
ATTENTION: >

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

(ACT:GE03A+) PAGE 2 OF 3
FILE No: 3-695S/P1+2
DATE: AUGUST 15, 1983

(REPO[illegible]ALUES IN PPM)		MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
46000N		112	6	43	10	475	0	0	25	3	0	67.6	0
46005S		40	0	31	0	251	2	0	5	1	0	22.1	5
46010S		44	2	39	3	138	0	0	11	0	0	57.6	0
46015S		203	8	62	19	550	0	0	40	5	0	86.5	12
46020S		44	1	47	0	244	0	0	18	1	0	36.6	0
46025S		47	6	57	9	358	0	0	38	3	1	67.1	0
46030S		160	5	112	24	694	0	0	35	3	0	72.3	11
46035S		57	1	53	0	191	0	0	10	0	0	85.2	4
46040S		72	4	49	7	335	9	0	12	0	0	74.6	8
46045S	MESH 40	70	1	96	9	833	54	1	15	1	0	8.7	34
46050S		135	5	46	10	261	0	0	24	4	0	69.3	0
46055S		31	2	27	3	125	0	0	8	2	0	49.2	6
46060S		183	8	35	21	361	0	2	25	8	0	67.3	10
46065S		59	6	42	13	359	0	0	12	7	0	93.9	6
46070S		91	3	52	7	317	0	0	17	3	0	78.2	9
46075S		185	5	112	52	326	0	0	24	4	3	39.8	20
46080S		1830	7	96	73	915	90	7	63	7	23	33.9	110
46085S		166	3	68	42	271	0	0	32	7	9	31.5	48
46090S		42	6	36	8	90	0	0	12	3	0	100.0	0
46095S	MESH 40	73	3	81	28	686	0	1	33	1	13	19.4	21
46100S		45	1	55	5	273	9	0	12	0	0	34.0	8
46105S		267	6	77	24	503	11	0	23	6	0	72.2	10
46110S	MESH 40	88	3	67	40	1330	3	5	54	1	36	24.7	37
46115S		43	1	43	5	109	0	0	6	0	0	109.0	3
46120S		875	6	102	49	964	0	5	45	5	26	48.3	66
46125S		1350	3	48	19	1270	5	3	44	7	19	17.3	119
46130S		173	2	28	4	296	19	0	7	4	0	43.6	25
46135S		212	11	27	29	227	0	0	7	8	0	302.0	10
52000N		478	11	34	65	459	28	0	35	14	0	131.0	70
52005S		1590	33	64	32	1290	59	8	386	11	46	60.3	212
52010S		300	8	47	14	735	17	3	20	10	0	93.5	67
52015S		99	9	44	10	310	0	0	8	3	0	96.6	23
52020S		69	5	51	9	411	0	0	11	2	0	95.7	3
52025S		696	6	216	109	629	0	0	54	10	0	149.0	49
52030S	MESH 40	1030	7	89	41	1180	39	7	57	10	8	51.0	126
52035S		2860	15	120	52	1550	29	13	68	13	33	82.8	144
52040S		2610	9	1130	78	877	15	8	48	13	1	145.0	38
52045S	MESH 40	390	4	147	15	834	17	0	54	4	0	10.0	66
52050S		96	3	68	10	280	1	0	11	3	0	109.0	11
52055S		92	4	81	8	324	0	0	20	3	0	67.6	1
52060S		56	1	50	4	83	0	0	11	0	0	42.7	6
52065S		4470	32	47	36	1740	30	17	23	19	13	193.0	59
52070S		163	2	69	17	114	0	0	12	0	0	57.2	11
52075S		96	2	61	11	148	0	0	6	0	0	82.9	5
52080S		94	5	55	9	236	0	0	9	2	0	95.8	9
52085S		111	3	62	14	429	0	0	19	5	0	57.9	19
52090S		149	3	71	13	354	0	0	18	4	0	60.4	22
52095S		419	4	60	14	619	0	0	21	6	0	81.2	28
52100S		87	4	61	11	352	0	1	20	4	4	59.3	7
52105S		421	13	126	21	1210	2	0	18	15	3	216.0	83
52110S		568	8	81	117	1470	8	11	79	8	23	42.0	76
52115S		68	5	71	37	528	26	2	34	5	0	37.7	69
52120S		10400	19	76	148	1560	28	17	78	8	77	69.1	90
52125S		224	3	33	15	126	0	0	1	0	0	78.9	11
52130S		3860	10	73	77	1710	26	9	75	5	44	37.9	13
52135S		300	4	61	33	462	0	0	44	0	0	115.0	55
52140S		142	3	48	13	156	0	0	10	0	0	113.0	11
52145S		105	11	49	23	453	9	0	5	2	5	68.4	57
52150S		456	4	65	19	263	0	0	27	3	8	68.5	57
58005N		64	0	63	4	74	0	0	11	0	0	49.2	5

COMPANY: CUMBERLAND RESOURCES
PROJECT No: WEST HEMLO
ATTENTION:

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

(ACT:GEO3A+) PAGE 3 OF 3
FILE No: 3-695S/P1+2
DATE: AUGUST 15, 1983

(REPO[illegible]ALUES IN PPM)		BA	SE	AU-PPB
46000N		25	0	10
46005S		15	0	5
46010S		21	0	5
46015S		40	0	5
46020S		25	0	15
46025S		29	0	10
46030S		33	0	10
46035S		24	0	15
46040S		25	0	5
46045S	MESH 40	47	10	10
46050S		25	0	10
46055S		22	0	5
46060S		52	0	5
46065S		45	0	20
46070S		26	0	5
46075S		37	0	10
46080S		111	29	30
46085S		60	0	25
46090S		40	0	25
46095S	MESH 40	53	5	15
46100S		27	0	10
46105S		52	0	175
46110S	MESH 40	105	12	5
46115S		28	0	5
46120S		59	0	10
46125S		86	52	10
46130S		30	0	5
46135S		31	0	15
52000N		68	0	15
52005S		482	31	5
52010S		60	4	5
52015S		29	0	5
52020S		44	0	5
52025S		126	0	5
52030S	MESH 40	116	24	5
52035S		146	48	5
52040S		95	38	<5
52045S	MESH 40	82	20	5
52050S		40	0	5
52055S		43	0	10
52060S		23	0	5
52065S		80	44	5
52070S		33	0	5
52075S		26	0	10
52080S		40	0	5
52085S		34	0	5
52090S		43	0	15
52095S		37	0	5
52100S		28	0	10
52105S		67	5	5
52110S		113	19	<5
52115S		118	0	5
52120S		223	82	5
52125S		26	0	5
52130S		123	29	5
52135S		112	0	10
52140S		35	0	10
52145S		62	0	10
52150S		87	0	5
58005N		24	0	5

COMPANY: CUMBERLAND RESOURCES
PROJECT No: WEST HEMLO
ATTE[illegible]:

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

(ACT:GE03A+) PAGE 1 OF 3
FILE No: 3-6955/P3+4
DATE: AUGUST 15, 1993

(REPORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
58010N	0	7590	0	8	7	1370	0	5	13	39600	178	1340
58015N	0	26500	0	25	11	3580	.3	27	68	73100	319	4260
58020N	0	9300	0	9	11	2050	0	7	9	57600	287	1790
58025N	0	23000	0	25	12	2910	.2	13	12	53000	595	4460
58030N	.7	9600	1	20	0	93100	2.3	8	10	40900	754	21700
58035N	.6	4360	24	14	0	94500	3.4	5	7	29500	310	27800
58040N	.9	7530	12	16	0	103000	2.1	8	9	38900	529	22400
58045N	.3	9790	0	17	1	54700	1.7	6	11	34300	380	20800
58050N	.8	5550	9	14	0	68200	2.8	6	10	33900	283	25200
58055N	0	22200	0	21	10	4350	0	10	6	47900	264	3100
58060N	.2	11300	0	19	6	28100	1.9	9	11	42900	523	13000
08099N	0	29200	0	28	11	12400	3.8	21	52	43500	174	3390
32003N	0	31500	0	30	9	14900	2.2	24	87	58400	259	4050
08081S	0	44500	0	41	9	8500	4.5	54	75	64600	263	5420
56027S	0	39000	0	36	8	17300	2.6	28	60	37200	229	4800
18032S	0	24200	35	30	8	18600	5.5	30	50	60600	190	7280
54044N	0	14600	0	19	10	10900	.7	12	15	50800	529	5430
06097N	2.6	34500	0	35	30	11700	8.2	68	57	87200	174	4870
34043S	0	20600	0	22	11	7640	1.2	31	61	64600	284	6650
08091S	0	27300	0	29	26	14400	2.6	46	47	117000	272	8150
06061N	0	22200	0	24	24	4100	.4	63	67	98400	354	2740
38054N	.2	9920	0	18	5	40100	2.1	11	15	43800	440	17700
34113S	0	8870	0	13	10	8660	.7	10	11	40700	281	4860
06047S	0	20100	0	23	12	10500	2.3	15	26	46800	615	5760
52143S	0	26800	0	28	9	14100	2.8	78	54	55400	257	2940
44106S	.6	25500	0	28	24	11400	3.7	77	31	82800	198	3030
12167N	0	31100	0	30	10	6810	2.7	43	28	61100	222	2250
06108N	.9	37200	0	36	6	14200	5.5	33	49	59300	232	2030
12017S	0	24500	0	27	28	8240	3.8	42	39	103000	194	9510
12147N	1.7	30200	0	35	32	6030	5.2	80	37	91300	300	3690
46087S	0	13100	0	13	10	5830	.2	18	15	53200	170	4410
12071N	0	47700	0	43	9	17800	1.9	23	69	42700	230	1910
10143N	0	35100	0	36	31	15800	3.0	45	67	143000	411	11500
08049S	0	24400	0	28	10	12000	2.0	20	30	51400	605	5660
54033N	.2	10800	0	19	5	39400	3.1	11	18	45300	501	19300
56014S	0	37600	0	35	11	13400	2.7	27	53	40000	234	2810
04073N	0	27000	0	29	27	9480	6.7	114	20	94400	134	4470
12047N	3.5	28900	0	34	28	18200	13.6	76	48	74700	275	1750
38110S	0	39400	1	39	37	9980	6.3	58	40	111000	300	33800
58000N	0	7360	0	8	11	1370	0	9	5	65500	116	1770
58005S	0	22500	0	27	0	39400	2.3	14	81	19200	108	1730
58010S	0	8590	0	9	5	9570	0	6	9	44400	197	2820
58015S	0	38300	0	35	10	2370	.1	13	13	76600	249	3330
58020S	0	9950	0	11	11	1560	0	8	7	68500	190	1910
58025S	.8	6890	5	12	7	2180	.4	4	31	33900	177	618
58030S	.4	3520	4	3	2	795	0	1	4	7790	119	328
58035S	0	17700	0	18	10	1650	0	13	26	89600	283	3030
58040S	0	41800	0	37	10	6080	1.2	47	91	63500	217	2470
58045S	0	15100	0	13	10	1190	0	7	10	47500	197	2080
58050S	0	7340	0	8	3	749	1.2	2	21	10200	251	607
58055S	0	14500	0	13	10	944	0	6	5	46800	339	2710
58060S	0	19900	0	19	11	1320	0	9	9	74500	182	2550
58065S	0	22300	0	21	11	1810	.2	12	16	74700	102	3090
58070S	0	21700	41	23	21	915	2.2	15	22	92000	248	1670
58075S	0	9770	0	12	3	1460	1.1	3	29	12000	292	713
58080S	0	17500	16	19	29	840	0	16	30	120000	192	1930
58085S	0	9820	0	11	11	928	0	6	12	54700	193	1050
58090S	0	14900	0	12	6	1510	0	4	28	23400	311	957
58095S	0	15400	0	15	12	1890	0	13	30	53600	275	2840
58100S	0	16300	0	14	7	306	1.6	5	11	25300	240	3190

(REPOR[illegible]LUES IN PPM)	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
58010N	52	0	61	11	197	0	0	9	0	0	43.7	5
58015N	400	7	87	97	393	14	3	29	10	0	78.4	62
58020N	61	1	60	10	37	0	0	13	0	0	79.3	0
58025N	191	3	144	23	387	0	0	26	7	2	44.5	12
58030N	314	3	222	16	343	27	1	21	22	0	33.8	4
58035N	192	5	141	12	330	35	0	8	25	0	23.2	0
58040N	347	4	207	15	382	28	0	19	23	0	29.9	3
58045N	195	5	139	17	374	26	0	11	18	0	29.5	2
58050N	270	4	147	11	427	24	1	8	20	0	26.6	3
58055N	84	3	117	14	289	0	0	23	4	2	35.2	0
58060N	226	4	181	13	557	13	0	17	13	8	33.6	8
08099N	2450	5	73	59	1490	18	8	37	9	30	43.6	214
32003N	1080	7	108	69	967	10	7	42	11	17	57.5	144
08081S	3100	13	55	84	1660	43	21	94	13	40	70.1	75
56027S	1040	10	126	96	1490	20	11	69	11	25	39.4	167
18032S	1850	11	61	68	1750	88	17	52	17	28	85.4	100
54044N	881	3	178	26	558	4	0	98	6	17	41.7	42
06097N	18700	16	85	190	1360	45	19	48	7	97	86.4	351
34043S	1040	5	117	98	745	10	0	33	10	8	57.8	133
08091S	1360	11	263	48	2690	16	3	74	10	31	127.0	111
06061N	2600	9	69	30	794	17	0	29	4	22	157.0	69
38054N	480	5	199	28	546	25	0	19	15	4	36.2	37
34113S	850	2	114	25	597	0	0	18	5	13	35.3	47
06047S	583	3	161	50	710	8	3	48	8	23	42.7	74
52143S	3390	9	104	89	990	30	6	76	7	39	58.3	132
44106S	7650	16	68	92	1130	26	10	51	10	53	82.3	223
12167N	2570	9	62	41	1890	19	15	39	9	36	52.5	97
06108N	11500	11	72	103	1650	25	14	55	6	74	58.0	232
12017S	4030	11	108	116	1140	12	9	37	15	29	87.3	269
12147N	14700	17	50	94	1690	67	23	34	11	78	70.2	175
46087S	461	3	97	35	414	3	0	30	3	1	39.0	71
12071N	1850	5	71	67	1330	7	11	64	7	22	37.7	149
10143N	6240	9	71	95	1510	6	0	40	3	24	97.1	230
08049S	2400	5	160	57	885	14	4	58	10	25	44.3	133
54033N	542	5	176	26	612	23	0	49	17	1	37.7	40
56014S	1050	7	119	74	1400	7	12	69	8	35	40.9	207
04073N	7970	15	65	84	1250	84	20	39	15	41	108.0	204
12047N	21200	16	61	396	2320	85	22	49	4	108	72.8	526
38110S	3080	14	39	266	609	48	17	44	26	10	159.0	155
58000N	334	1	67	12	46	0	0	5	0	6	80.5	10
58005S	217	5	199	122	938	3	4	79	5	9	33.7	44
58010S	119	1	107	15	161	10	0	24	0	0	38.6	6
58015S	162	5	119	27	537	0	2	36	7	0	59.0	24
58020S	72	0	69	8	9	0	0	10	0	0	106.0	4
58025S	203	3	89	14	348	14	0	10	0	14	42.7	55
58030S	34	0	42	4	75	3	1	7	0	19	12.0	12
58035S	97	3	76	24	139	0	0	22	2	2	102.0	49
58040S	923	9	94	108	916	3	10	41	9	15	51.0	177
58045S	80	1	66	9	226	1	0	16	1	4	52.5	9
58050S	79	0	61	3	387	40	2	12	1	0	15.6	22
58055S	84	0	44	4	262	0	0	8	1	0	43.8	16
58060S	101	2	101	9	252	0	0	20	1	0	76.1	4
58065S	119	5	107	21	192	0	0	21	3	2	65.8	3
58070S	51	12	50	38	426	22	9	21	12	3	73.1	47
58075S	65	1	58	12	388	40	3	18	1	12	23.8	47
58080S	423	9	73	12	530	0	2	9	7	16	208.0	84
58085S	52	4	49	2	192	2	0	12	0	1	81.6	11
58090S	38	1	68	12	384	17	2	20	1	9	42.8	17
58095S	155	4	123	21	331	2	0	17	1	8	68.6	41
58100S	96	6	47	19	269	28	8	16	10	0	47.9	20

(REPOR[illegible]LUES IN PPM)	BA	SE	AU-PPB
58010N	42	0	10
58015N	73	0	5
58020N	51	0	5
58025N	74	0	5
58030N	43	35	5
58035N	17	37	5
58040N	33	11	10
58045N	32	31	5
58050N	21	36	15
58055N	41	0	5
58060N	44	17	5
08099N	104	39	20
32003N	88	35	5
08081S	140	55	5
56027S	96	22	5
18032S	115	67	5
54044N	163	2	5
06097N	463	66	5
34043S	60	0	10
08091S	118	1	5
06061N	103	0	5
38054N	48	19	5
34113S	39	0	10
06047S	93	4	5
52143S	145	23	5
44106S	172	55	5
12167N	97	38	15
06108N	246	39	10
12017S	131	33	25
12147N	144	79	5
46087S	49	0	10
12071N	105	15	5
10143N	263	0	5
08049S	118	19	15
54033N	80	13	5
56014S	107	23	10
04073N	151	82	5
12047N	250	84	5
38110S	94	47	5
58000N	22	0	10
58005S	110	46	5
58010S	50	0	5
58015S	45	0	15
58020S	35	0	5
58025S	47	0	5
58030S	24	5	5
58035S	36	0	10
58040S	55	5	10
58045S	29	0	5
58050S	37	1	5
58055S	40	0	5
58060S	31	0	10
58065S	54	0	5
58070S	65	21	5
58075S	67	4	10
58080S	49	0	5
58085S	33	0	10
58090S	73	0	5
58095S	61	0	5
58100S	47	10	5

COMPANY: CUMBERLAND RESOURCES LTD. | MIN-EN LABS ICP REPORT | (ACT:GE03A+) PAGE 1 OF 3

PROJECT No: WEST HEMLO | 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE No: 3-695S/P5+6

ATTENTION: | (604)980-5814 OR (604)988-4524 | DATE: AUGUST 15, 1983

(REPORT VALUES IN PPM)

		AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
58105S		0	26300	0	24	2	7770	1.2	13	77	16100	292	1040
58110S		0	9490	0	7	3	783	0	1	8	14100	166	653
58115S		0	12700	0	16	10	1360	.1	11	11	97500	164	2400
58120S		0	29300	0	29	22	1630	1.6	23	33	79900	607	4240
58125S		0	33000	0	29	12	630	1.3	7	21	63300	173	779
58130S		0	17500	0	15	7	853	0	4	11	34100	228	1360
58135S		0	14500	0	11	0	701	.9	2	18	9320	307	1030
60020N		0	8560	0	7	9	1670	0	6	11	45300	234	2020
60015N		0	28300	0	27	27	1800	.7	18	38	110000	180	5710
60010N		0	16600	0	17	11	1910	0	12	17	78200	394	4740
60005N		.1	16600	0	20	7	20900	2.8	11	59	27700	259	2390
60000N		0	14700	0	14	10	2080	0	8	12	60000	260	3830
60005S		0	35100	0	32	10	2870	0	18	36	85400	200	4780
60010S		0	20800	0	19	11	2890	0	22	28	71800	159	5570
60015S		0	27000	0	25	11	3770	.1	21	29	70700	205	5010
60020S		0	16700	0	16	10	4280	0	11	8	40900	335	2750
60025S		0	13800	0	14	10	1650	0	7	5	45900	265	1410
60030S		0	25800	0	28	11	2580	2.0	26	23	66800	785	4580
60035S		0	12300	0	12	11	2170	0	8	9	54900	222	2820
60040S		0	7200	0	7	10	1500	0	6	7	62800	181	1930
60045S		0	22300	0	21	11	2910	.4	17	30	71800	225	5710
54000S		0	14900	0	17	9	8370	.4	11	36	39600	337	3630
54005S		0	17200	0	17	10	5170	.2	14	56	48400	367	4590
54010S		0	8580	0	12	7	2060	.6	7	10	36100	331	2410
54015S		0	26600	0	25	12	2550	.4	14	13	61700	232	4240
54020S	MESH 40	0	19200	0	20	7	8220	2.8	30	59	27700	181	1430
54025S		0	34600	0	30	9	2130	1.6	15	96	31300	194	616
54030S		0	22000	0	20	12	998	.1	9	14	65500	98	1890
54035S		0	2260	0	3	1	446	.1	1	4	11500	45	148
54040S		0	6240	0	9	13	1530	0	8	8	65500	174	1100
54045S		0	13200	0	13	10	2750	0	9	12	59500	178	2170
54050S		0	15800	0	17	11	895	0	6	9	48400	189	1330
54055S		0	40900	0	38	11	1080	0	12	10	76600	104	2670
54060S		0	7390	0	8	6	1050	0	4	7	37400	166	1010
54065S		0	14900	0	17	23	989	0	13	13	110000	192	2020
54070S		0	33700	0	36	10	12100	2.4	40	85	61300	224	4750
54075S		0	23900	0	27	10	12100	1.4	38	72	55400	204	4440
50005N		0	5200	0	7	0	5180	.1	2	9	22000	292	794
50010N		0	14600	0	14	13	1470	0	11	15	57600	157	2840
50015N		0	15700	0	14	8	818	0	7	10	46200	119	2590
50020N		0	30400	0	28	11	1650	.5	18	17	75300	205	7480
50025N		0	22300	0	27	10	665	.6	6	8	41600	124	1970
50030N		0	21300	0	20	11	1220	0	12	14	74000	180	3780
50035N		0	14000	0	14	13	1160	0	11	11	63300	158	3330
52005N		0	12600	0	16	21	1210	0	11	9	101000	260	2340
52010N		0	10400	0	12	10	1140	0	11	6	94600	213	2470
52015N		0	6140	0	8	6	1530	0	5	4	52100	223	1390
52020N		0	14400	0	14	9	1770	0	7	5	45300	282	3260
52025N		0	11500	0	12	12	1370	0	9	6	71200	99	2340
52030N		0	19600	0	18	10	2150	0	10	5	48600	292	3580
52035N		0	17000	0	17	6	3740	0	12	11	41100	259	3720
52040N		0	30900	0	28	20	1940	0	13	11	84500	159	2900
52045N		0	20900	0	20	12	1870	0	11	9	69000	197	3150
54005N		0	8220	0	11	11	761	0	10	6	89800	167	1660
54010N		0	15000	0	15	12	1580	.2	10	7	69600	162	2700
54015N		0	8050	0	9	10	787	0	7	4	65900	138	1720
54020N		0	13200	0	14	7	2270	0	6	3	41100	304	2270
54025N		0	4650	0	4	2	1010	0	2	2	26600	143	961
54030N		0	14000	0	15	6	8460	1.3	11	27	35900	173	3800
54035N		.7	6330	16	15	0	80900	3.0	6	8	35200	390	23200

(REPORT VALUES IN PPM)		MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
55S		232	5	108	55	1450	12	5	54	4	14	17.2	35
58110S		29	0	41	2	157	0	0	10	1	0	23.1	8
58115S		91	4	64	8	279	0	0	11	1	0	115.0	14
58120S		860	8	81	57	712	2	0	28	7	0	79.7	161
58125S		54	6	45	8	455	0	9	29	10	0	59.7	0
58130S		51	1	44	3	281	0	0	22	1	0	41.2	6
58135S		35	2	57	5	437	14	3	19	2	0	26.5	20
60020N		77	1	58	5	224	0	0	14	0	0	58.0	13
60015N		242	9	91	33	641	0	0	25	9	0	109.0	10
60010N		133	2	92	20	237	0	0	15	0	0	117.0	31
60005N		2370	6	103	79	1370	14	5	31	8	17	30.0	91
60000N		144	1	99	19	107	0	0	17	0	0	92.7	21
60005S		232	5	122	45	424	0	0	34	5	0	73.6	19
60010S		198	3	134	49	193	0	0	25	3	12	58.0	12
60015S		185	5	113	52	368	0	0	31	4	7	61.6	23
60020S		183	2	111	18	295	0	0	20	3	10	35.9	19
60025S		80	2	76	10	209	0	0	15	2	6	43.9	17
60030S		2580	8	100	35	700	7	8	33	9	17	78.2	113
60035S		131	1	98	10	481	0	0	16	0	11	57.9	18
60040S		79	0	63	6	0	0	0	5	0	0	115.0	7
60045S		189	6	123	50	447	0	0	27	4	18	59.4	18
54000S		578	4	169	39	583	4	0	31	6	6	35.4	57
54005S		500	4	172	74	565	4	0	25	5	9	40.5	101
54010S		97	2	94	14	280	6	0	17	2	0	31.3	21
54015S		143	4	118	30	437	0	1	27	5	8	48.8	13
54020S	MESH 40	2600	7	71	44	1130	39	8	42	4	26	32.1	66
54025S		170	6	58	29	1090	18	12	42	6	18	23.9	8
54030S		64	5	60	11	345	11	4	21	5	14	70.0	0
54035S		40	0	34	0	66	0	0	4	1	0	8.1	8
54040S		79	1	42	4	362	4	0	6	0	0	105.0	31
54045S		78	2	71	11	111	0	0	18	1	0	61.5	6
54050S		53	4	55	12	424	7	0	16	5	0	59.3	7
54055S		102	5	71	17	474	0	1	33	7	0	65.5	0
54060S		53	2	44	5	197	6	0	10	2	0	55.5	18
54065S		62	5	47	8	314	0	0	10	1	0	104.0	0
54070S		1110	8	96	96	1590	7	8	69	13	9	68.1	199
54075S		1530	7	106	86	1420	26	6	61	11	9	54.5	148
50005N		63	0	63	3	359	20	0	32	1	0	16.0	26
50010N		133	5	83	19	181	0	0	16	4	0	53.4	25
50015N		75	3	48	13	123	0	0	14	4	0	55.7	2
50020N		355	7	65	40	477	0	4	29	11	0	74.0	22
50025N		88	3	81	11	346	3	6	22	6	4	55.0	4
50030N		98	6	49	24	207	0	0	23	7	0	87.9	8
50035N		157	3	48	17	361	0	0	11	3	0	73.1	21
52005N		78	4	71	8	760	0	0	10	0	0	166.0	12
52010N		88	4	57	8	1000	0	0	3	0	0	142.0	15
52015N		63	0	60	6	178	0	0	12	0	0	65.0	3
52020N		132	2	91	18	126	0	0	16	4	0	37.1	33
52025N		66	2	51	12	454	0	0	10	1	0	82.3	7
52030N		139	3	106	20	258	1	0	20	7	0	41.4	52
52035N		265	2	118	29	381	0	0	30	7	0	38.4	66
52040N		190	5	80	15	407	0	0	27	6	0	81.5	17
52045N		124	3	79	20	224	0	0	24	3	0	65.3	8
54005N		81	4	40	3	396	0	0	3	0	0	122.0	16
54010N		163	4	62	14	457	0	0	17	3	0	70.0	16
54015N		99	4	40	5	728	0	0	5	4	0	101.0	14
54020N		135	1	108	11	401	0	0	15	3	0	35.4	21
54025N		39	0	55	2	67	0	0	7	0	0	24.7	3
54030N		664	5	89	31	795	5	0	95	5	18	37.4	61
54035N		284	3	151	15	423	27	1	12	21	0	28.5	5

(REPORT VALUES IN PPM)		BA	SE	AU-PPB
05S		90	0	5
59110S		26	0	5
58115S		36	0	5
58120S		89	0	10
58125S		38	0	5
58130S		33	0	5
58135S		43	0	5
60020N		22	0	5
60015N		27	0	5
60010N		34	0	10
60005N		112	41	5
60000N		31	0	<5
60005S		36	0	5
60010S		26	0	5
60015S		57	0	10
60020S		58	0	5
60025S		47	0	5
60030S		120	0	5
60035S		30	0	5
60040S		23	0	5
60045S		40	0	10
54000S		64	0	5
54005S		71	0	5
54010S		66	0	5
54015S		39	0	5
54020S	MESH 40	67	42	5
54025S		97	1	<5
54030S		40	0	5
54035S		20	0	5
54040S		27	0	5
54045S		54	0	5
54050S		49	0	10
54055S		47	0	5
54060S		39	0	10
54065S		35	0	5
54070S		81	42	10
54075S		87	30	5
50005N		84	0	5
50010N		42	0	5
50015N		28	0	10
50020N		51	0	10
50025N		28	0	5
50030N		57	0	10
50035N		43	0	10
52005N		45	0	5
52010N		37	0	15
52015N		72	0	10
52020N		65	0	5
52025N		36	0	5
52030N		111	0	10
52035N		111	0	5
52040N		61	0	5
52045N		51	0	5
54005N		37	0	10
54010N		35	0	5
54015N		21	0	10
54020N		59	0	5
54025N		35	0	5
54030N		101	16	10
54035N		28	28	5

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PROJECT No: WEST HEMLO — 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 — FILE No: 3-695S/P7+8

ATTENTION: — (604)980-5814 OR (604)988-4524 — DATE: AUGUST 15, 1983

(REPO[illegible]ALUES IN PPM)		AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
[illegible]4040N		0	12500	0	18	5	31800	1.4	7	11	39100	561	13000
54045N		0	28800	0	28	12	2910	.4	14	12	55800	466	4030
54050N		0	5600	0	7	3	1360	0	3	1	30400	186	994
56005N		.2	7340	1	14	2	45700	2.6	8	14	37000	276	20500
56010N		0	19500	0	21	10	4590	.7	11	12	51400	586	5470
56015N		0	16200	0	17	8	2960	0	10	6	39800	412	3120
56020N		0	14400	0	15	8	3900	0	9	10	40900	312	3610
56025N		0	11400	0	11	5	1490	.5	5	2	27700	180	1630
56030N		.7	6030	15	15	0	88000	3.7	6	11	29300	379	25100
56035N		0	7680	0	9	5	8300	1.1	7	8	28600	268	3630
56040N		.5	7440	9	18	0	61600	3.1	8	7	39100	443	24800
56045N		.9	5120	16	14	0	102000	2.7	6	7	34800	353	27200
56050N		0	6140	1	13	1	39400	2.0	6	10	30800	260	17700
56055N		0	16700	0	19	10	6890	0	11	8	49500	504	5050
56060N		.4	13100	0	21	4	44900	2.2	9	17	43500	668	17000
56000S		0	9370	0	10	7	2420	0	9	14	53200	224	2800
56005S		0	38400	0	36	11	13600	3.6	26	54	36100	194	2960
56010S		0	35100	0	32	8	12600	2.3	25	51	36100	202	2690
56015S		0	30300	0	27	10	4010	1.9	29	47	31000	154	1760
56020S		0	28400	0	25	5	8010	2.1	24	44	27500	132	1860
56025S		0	29000	0	24	5	9080	2.2	15	46	22000	106	1470
56030S		0	19300	0	19	12	990	1.1	9	45	50100	213	1180
56035S		0	18600	0	18	11	1370	0	7	9	47000	107	1270
56040S		0	27400	0	27	11	7450	1.5	39	39	59100	220	1300
56045S		0	21200	0	22	11	6410	2.3	52	27	46800	202	1230
56050S		0	24400	0	22	12	782	.3	9	9	67200	116	1510
56055S		0	10500	0	11	7	623	.6	4	4	41300	104	600
56060S		0	20800	0	20	12	664	.9	8	12	74900	128	1200
56065S		0	3240	0	5	2	504	0	1	2	18800	69	199
56070S	MESH 40	0	6160	0	6	1	803	.3	1	10	8440	119	335
56075S		0	8360	0	7	3	1310	0	3	7	28200	144	1060
56080S		0	42500	0	35	12	1100	.5	11	19	65500	99	2790
56085S	MESH 40	0	14600	0	12	0	3280	.4	12	35	12400	96	606
56090S		0	27500	0	25	10	710	0	9	9	86300	133	931
56095S		0	16000	0	17	4	10800	2.1	10	65	17200	167	891
56100S		0	24800	0	20	3	1750	.1	4	51	11700	77	330
56105S		0	27400	0	26	5	10900	1.9	58	42	26600	91	549
56110S		0	6230	0	9	12	1340	0	8	6	67200	130	1370
56115S		0	9530	0	11	9	2130	0	8	17	44800	166	2880
56120S		0	27700	0	25	11	1030	.4	10	9	76900	127	2110
56125S		0	16200	0	16	8	926	0	16	31	40500	354	1400
56130S		0	22900	0	22	13	1980	1.0	14	62	56300	419	3450
56135S		0	19700	0	17	5	1230	0	4	7	28600	366	1740
48000N		0	7490	0	8	8	1070	0	5	5	46600	179	1040
48005N		0	29800	0	28	10	10700	2.0	22	73	30400	217	1530
48010N		0	21400	0	20	10	8070	1.5	17	76	33000	258	1920
48015N		0	4100	0	4	3	1120	.5	1	3	10900	175	337
48020N		0	19800	0	19	12	3230	0	14	20	65200	221	3990
48025N		0	13200	0	14	9	3610	.1	11	12	49500	295	3690
46005N		0	26600	0	23	13	1730	.1	11	25	55800	157	3400
46010N		0	2400	0	2	3	488	0	1	0	17200	72	187
46015N		0	20100	0	21	10	7770	3.1	10	122	33900	306	4060
54080S		0	4560	0	6	0	6420	2.8	5	22	6690	166	692
54085S		0	3380	0	6	0	6660	1.8	2	21	6250	96	617
54090S		0	7420	0	8	3	1320	2.6	4	16	15200	266	499
54095S		0	6780	0	5	3	538	0	1	8	16300	139	378
54100S	MESH 40	0	17700	0	17	6	3800	.8	19	51	22500	186	939
54105S		0	11300	11	20	8	431	1.5	4	17	32100	115	202
54110S		.1	17000	0	21	11	8590	3.5	73	43	48400	88	473
54115S		0	27300	0	25	11	5610	2.5	17	46	38700	217	690

COMPANY: CUMBERLAND RESOURCES
PROJECT No: WEST HEMLO
ATTENTION:

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

(ACT:GE03A+) PAGE 2 OF 3
FILE No: 3-6955/P7+8
DATE: AUGUST 15, 1983

(REPORT VALUES IN PPM)		MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
[illegible]0N		219	3	138	18	383	18	0	14	16	0	37.7	14
54045N		146	3	122	25	432	0	2	30	9	0	46.4	5
54050N		33	0	66	2	125	0	0	6	0	0	27.6	3
56005N		244	4	145	30	539	24	0	8	18	0	30.7	24
56010N		190	4	146	28	597	1	0	22	8	0	46.8	48
56015N		147	1	111	16	419	0	0	18	5	0	34.4	14
56020N		219	3	143	15	343	0	0	16	6	0	33.7	32
56025N		57	1	57	11	136	0	0	12	4	0	31.3	8
56030N		225	5	141	16	384	41	2	9	26	0	25.6	7
56035N		228	2	107	12	506	3	0	11	7	3	26.6	14
56040N		1070	6	168	18	561	33	3	10	23	0	30.7	7
56045N		243	4	178	13	414	30	0	8	25	0	26.5	1
56050N		348	5	116	16	509	24	0	6	19	0	25.4	7
56055N		235	2	159	17	420	0	0	19	7	0	41.3	18
56060N		419	4	211	19	504	13	0	18	19	0	38.6	23
56000S		147	1	88	13	233	4	0	11	1	0	46.4	38
56005S		952	8	107	85	1230	17	13	73	10	17	42.8	247
56010S		1100	7	86	76	1180	24	10	66	9	11	40.8	234
56015S		787	8	59	50	955	10	11	39	8	5	35.7	102
56020S		843	6	66	54	1090	7	10	48	9	6	34.4	117
56025S		516	6	52	60	1220	6	10	45	8	4	27.4	120
56030S		113	8	44	23	636	16	7	21	7	1	66.2	47
56035S		53	3	47	9	246	0	0	17	3	0	52.5	10
56040S		1340	14	86	39	2170	35	10	42	10	8	87.9	79
56045S		1710	11	58	35	1250	38	10	39	8	14	73.6	67
56050S		88	5	53	10	212	0	3	20	5	3	80.0	0
56055S		49	2	37	0	120	0	0	9	1	0	56.4	2
56060S		63	5	46	8	291	0	5	18	7	0	96.1	0
56065S		36	0	29	0	82	0	0	3	0	0	17.1	6
56070S	MESH 40	21	1	78	4	550	13	0	6	1	0	8.4	10
56075S		54	0	54	5	170	0	0	11	0	0	33.9	6
56080S		85	5	61	18	492	0	1	32	8	0	64.0	0
56085S	MESH 40	360	1	28	18	1060	0	0	19	4	0	20.6	29
56090S		19	6	48	3	380	0	0	20	7	0	111.0	0
56095S		765	3	61	71	817	17	5	57	4	14	18.8	32
56100S		16	2	65	29	799	8	7	28	0	15	9.5	0
56105S		617	17	48	50	1200	5	11	54	8	23	36.9	30
56110S		72	2	50	6	383	0	0	4	0	0	88.4	10
56115S		119	0	71	18	317	0	0	14	2	0	40.7	14
56120S		102	5	65	12	472	2	4	24	8	0	75.1	7
56125S		202	5	65	21	403	10	1	20	3	0	64.7	16
56130S		144	7	86	58	490	5	3	28	7	0	58.0	36
56135S		59	1	47	9	226	0	0	34	0	0	53.9	13
48000N		43	0	64	2	68	0	0	8	0	5	59.3	0
48005N		1470	14	76	61	1500	33	12	56	8	41	35.5	109
48010N		503	11	81	35	920	10	7	41	8	19	45.9	15
48015N		80	1	47	1	167	7	0	12	3	2	12.1	10
48020N		139	5	102	27	286	0	0	79	1	11	54.0	38
48025N		200	2	146	17	268	0	0	24	2	2	43.8	48
46005N		134	4	84	19	342	0	0	26	5	0	52.4	5
46010N		32	0	34	0	55	0	0	3	0	0	11.8	0
46015N		633	13	97	65	916	9	6	44	8	8	40.8	215
54080S		135	0	75	12	512	32	1	38	3	0	8.4	62
54085S		142	1	86	12	419	44	0	28	2	0	7.9	104
54090S		89	2	81	16	482	41	2	14	3	0	27.3	43
54095S		48	0	53	0	146	5	0	9	0	0	19.3	5
54100S	MESH 40	449	5	63	35	896	19	6	30	5	11	30.9	39
54105S		10	5	109	22	721	5	6	9	5	0	25.3	5
54110S		3110	14	52	61	894	34	18	49	13	33	56.5	48
54115S		273	9	65	42	685	30	13	44	9	18	56.5	139

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

(REPORT VALUES IN PPM)

		BA	SE	AU-PPB
54040N		50	28	5
54045N		101	9	5
54050N		18	0	5
56005N		30	36	5
56010N		78	0	10
56015N		47	0	<5
56020N		46	0	5
56025N		34	0	5
56030N		29	37	5
56035N		23	11	10
56040N		56	54	5
56045N		23	22	5
56050N		38	43	5
56055N		44	0	5
56060N		57	31	<5
56000S		42	0	5
56005S		114	28	10
56010S		107	38	5
56015S		58	12	5
56020S		67	23	5
56025S		67	35	5
56030S		72	7	10
56035S		31	0	5
56040S		90	17	5
56045S		89	39	5
56050S		28	0	5
56055S		19	0	10
56060S		31	0	5
56065S		16	0	5
56070S	MESH 40	27	0	5
56075S		25	0	5
56080S		23	0	5
56085S	MESH 40	51	0	10
56090S		26	0	10
56095S		70	25	5
56100S		52	0	5
56105S		107	28	5
56110S		37	0	5
56115S		34	0	5
56120S		29	0	10
56125S		94	0	5
56130S		81	0	5
56135S		35	0	5
48000N		27	0	10
48005N		89	34	5
48010N		83	22	5
48015N		43	0	10
48020N		77	0	10
48025N		76	0	5
46005N		33	0	5
46010N		9	0	10
46015N		128	14	10
54080S		119	20	5
54085S		76	26	5
54090S		51	1	5
54095S		35	0	5
54100S	MESH 40	79	13	5
54105S		34	13	10
54110S		123	67	5
54115S		100	37	10

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

REPORT (VALUES IN PPM)		AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
54120S		0	17600	0	16	5	941	1.1	5	33	22300	240	879
54125S		0	14800	0	12	2	492	0	1	47	13500	265	738
54130S		0	12400	0	12	3	1100	1.1	5	44	17700	267	595
54135S		0	14800	0	12	1	537	.8	3	50	16100	271	927
54140S		0	13400	0	10	3	546	0	3	14	12800	150	902
54145S		0	15400	0	12	4	1820	1.6	4	68	15200	320	861
38000N		0	11600	0	13	11	741	0	11	8	80400	186	2370
38005N		0	16400	0	15	13	673	0	7	11	54100	172	1120
38010N		0	5280	0	5	3	482	0	2	0	26900	93	390
38015N		0	18500	0	19	19	1570	0	11	12	87200	538	4960
38020N		0	7100	0	7	4	530	1.1	6	6	17900	298	1290
38025N		0	13200	0	14	12	1900	.9	8	13	47500	394	3950
38030N		0	8600	0	7	5	2520	0	4	3	32800	600	2770
38035N		0	18200	0	17	10	1300	0	7	5	44200	186	2220
38040N		0	8900	0	9	6	761	0	4	4	38700	147	1010
38045N		0	13700	0	15	6	3710	0	8	6	40700	327	3060
38050N		.2	6010	0	14	0	69100	2.9	5	7	32100	306	21600
38055N		0	9870	0	11	6	6200	.2	6	4	38000	294	3020
48005S		0	6370	0	9	2	1740	1.2	3	22	21600	310	864
48010S		0	11700	0	11	11	1100	.1	7	7	49700	161	1610
48015S		0	12200	0	12	10	1270	0	7	9	51200	224	2330
48020S		0	13500	0	15	12	862	0	9	5	66800	158	1600
48025S		0	17500	0	17	13	828	0	9	6	62600	88	2160
48030S		0	5660	0	6	7	548	0	4	3	45700	99	724
48035S		0	10700	0	10	8	575	0	5	3	48800	118	868
48040S		0	36900	0	34	12	4300	2.9	18	43	47900	346	7200
48045S		0	12000	0	12	12	1570	0	9	7	64100	203	2850
48050S		0	21800	0	22	12	1160	1.0	9	13	61700	157	2070
48055S		0	32200	0	28	13	1060	1.0	19	39	46600	190	2700
48060S		0	47900	0	39	11	2580	1.3	23	32	35600	163	1690
48065S		0	12300	0	12	12	1020	0	6	6	78100	174	1370
48070S		0	10400	0	10	12	979	0	9	15	80200	135	2490
48075S		0	5580	0	7	3	1220	1.6	3	18	21000	203	724
48080S	MESH 40	0	2770	0	4	1	2790	.9	2	18	8380	127	325
48085S		0	20900	0	18	3	6560	.1	8	27	34100	170	1390
48090S		0	20900	0	21	15	2070	2.1	19	50	65300	317	1690
48095S		0	21500	0	21	12	5370	1.0	23	28	71900	248	5420
48100S		0	27700	0	25	14	1490	0	15	21	79600	150	3310
48105S		0	20100	0	18	10	1100	0	7	10	59000	170	3200
48110S		0	9880	0	9	4	621	.1	2	7	28100	181	699
48115S		0	26900	0	26	12	917	0	11	15	99100	252	3060
48120S	MESH 40	.1	19100	0	17	4	8310	.6	7	56	13200	108	1050
48125S		0	17700	0	16	3	695	0	2	7	29600	183	1580
48130S		0	33900	0	32	14	6440	2.3	52	93	55700	169	998
48135S		0	11900	0	14	12	1710	0	15	22	101000	185	3660
48140S		0	34800	0	34	30	6150	1.7	62	123	112000	230	2730
48145S		0	10400	0	10	6	1610	0	6	30	40700	241	2350
48150S		0	41000	52	42	40	6530	8.4	63	67	103000	245	31700
44000S		0	14500	0	14	9	2290	0	10	21	62300	183	4110
44005S		0	10400	0	12	9	1030	0	7	11	58700	242	1740
44010S	MESH 40	.4	7210	0	11	1	16200	1.5	2	37	10800	186	948
44015S		0	12000	0	12	11	2790	0	11	18	69500	182	4160
44020S	MESH 40	0	11000	0	10	5	809	0	4	3	46400	92	929
44025S		0	24200	0	21	14	833	0	8	13	67100	105	1420
44030S		0	21600	0	21	14	1110	0	8	9	82300	228	1810
44035S		0	14600	0	13	11	1280	0	7	7	64700	141	2410
44040S		0	18300	0	17	11	966	0	7	8	65300	144	1290
44045S		0	25900	0	25	13	1080	0	10	8	91000	186	2340
44050S		0	39400	0	36	25	1050	0	16	13	124000	228	4510
44055S		0	25300	0	22	11	675	0	7	9	65900	141	1780

COMPANY: CUMBERLAND RESOURCES
PROJECT No: WEST HEMLO
ATTENTION:

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

(ACT:GEO3A+) PAGE 2 OF 3
FILE No: 3-6955/F9+10
DATE: AUGUST 15, 1983

(REPORT VALUES IN PPM)		MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
[illegible]20S		38	4	47	17	404	15	5	22	7	0	29.9	11
54125S		41	1	53	6	325	12	0	14	3	0	28.0	10
54130S		24	4	39	25	1130	17	5	15	5	0	19.6	21
54135S		28	2	45	10	401	14	0	16	2	0	32.5	9
54140S		27	1	33	8	217	12	0	13	3	0	29.1	3
54145S		37	2	74	23	619	19	2	21	3	0	25.8	31
38000N		99	4	36	22	213	0	0	6	3	0	108.0	11
38005N		65	4	32	14	351	0	1	16	6	0	68.6	2
38010N		19	0	34	4	56	0	0	7	1	0	23.9	1
38015N		152	6	61	16	283	0	0	17	4	0	96.7	11
38020N		71	5	44	9	322	10	3	10	5	0	33.7	21
38025N		193	5	64	20	733	11	0	21	5	0	52.1	39
38030N		65	1	57	7	128	0	0	15	0	0	25.7	3
38035N		86	3	94	15	332	0	0	15	6	0	41.3	4
38040N		30	1	52	6	158	0	0	7	2	0	43.1	2
38045N		173	2	154	16	494	0	0	16	6	0	33.4	38
38050N		202	4	149	18	445	25	0	8	21	0	25.6	11
38055N		121	1	103	12	205	0	0	14	4	0	32.8	11
48005S		116	0	52	8	550	64	0	14	0	0	23.6	42
48010S		68	2	47	8	200	1	0	12	5	0	59.5	5
48015S		153	4	44	12	322	1	0	14	1	0	56.3	22
48020S		91	4	47	10	283	0	0	10	2	0	72.4	6
48025S		65	4	38	14	190	0	1	14	6	0	65.2	2
48030S		26	2	26	0	117	0	0	5	0	0	55.9	1
48035S		53	1	28	5	210	0	0	7	4	0	68.0	2
48040S		514	12	46	54	1260	13	14	68	12	3	59.0	207
48045S		106	2	52	14	222	0	0	17	2	0	93.2	13
48050S		91	5	57	14	369	0	5	19	7	0	67.1	4
48055S		307	7	61	35	490	0	10	29	12	0	50.3	35
48060S		652	8	49	47	1020	1	19	51	10	19	43.1	60
48065S		45	0	51	2	141	0	0	6	0	0	86.9	0
48070S		73	1	45	6	116	0	0	3	0	0	85.9	2
48075S		90	0	34	8	277	26	0	13	1	0	19.8	69
48080S	MESH 40	39	0	37	15	429	14	0	17	2	0	6.9	29
48085S		36	2	45	27	518	0	0	38	4	0	22.7	0
48090S		165	8	51	34	464	25	3	29	9	0	50.4	12
48095S		422	6	77	47	446	0	0	32	5	0	58.5	48
48100S		143	1	59	29	318	0	0	19	3	0	59.3	7
48105S		109	1	45	15	196	0	0	15	0	0	51.9	28
48110S		24	0	48	2	218	12	0	9	0	4	25.2	4
48115S		72	3	66	9	153	0	0	19	0	5	95.3	1
48120S	MESH 40	77	2	48	32	1070	8	5	49	0	41	13.3	0
48125S		39	0	34	1	100	0	0	18	0	0	42.0	0
48130S		1070	9	43	56	1340	18	14	57	10	32	59.8	38
48135S		203	4	54	17	223	0	0	9	0	0	88.4	9
48140S		1870	10	67	83	719	9	9	35	11	12	125.0	101
48145S		126	2	36	5	344	7	0	7	0	1	42.0	26
48150S		2400	16	32	161	501	65	24	52	30	12	212.0	63
44000S		150	1	79	13	399	0	0	15	0	0	44.9	10
44005S		98	1	58	5	149	0	0	10	0	8	57.8	13
44010S	MESH 40	169	4	148	36	906	26	0	58	3	21	11.1	63
44015S		140	3	77	21	171	0	0	13	0	0	50.4	33
44020S	MESH 40	43	1	32	2	107	0	0	7	0	0	41.5	0
44025S		54	2	59	7	233	0	0	16	0	6	63.5	6
44030S		78	3	56	3	292	0	0	14	0	2	85.9	27
44035S		71	1	57	7	135	0	0	9	0	4	54.3	0
44040S		38	3	55	5	269	0	0	15	1	13	55.3	0
44045S		89	2	57	6	328	0	0	16	0	2	79.8	1
44050S		121	6	40	20	310	0	0	27	0	0	51.6	0
44055S		45	2	49	3	249	0	0	16	0	0	56.5	0

(REPORT VALUES IN PPM)

		BA	SE	AU-PPB
20S		80	14	5
54125S		54	0	5
54130S		51	18	10
54135S		51	0	5
54140S		37	0	5
54145S		97	0	5
38000N		55	0	10
38005N		41	0	5
38010N		16	0	15
38015N		36	0	5
38020N		35	0	<5
38025N		47	0	5
38030N		40	0	5
38035N		43	0	5
38040N		26	0	10
38045N		47	0	5
38050N		32	40	5
38055N		28	0	5
48005S		59	0	5
48010S		33	0	15
48015S		27	0	10
48020S		33	0	5
48025S		32	0	5
48030S		19	0	10
48035S		21	0	10
48040S		79	9	5
48045S		38	0	5
48050S		34	0	20
48055S		52	8	5
48060S		57	7	5
48065S		25	0	5
48070S		23	0	5
48075S		97	0	10
48080S	MESH 40	104	0	<5
48085S		57	0	5
48090S		110	2	5
48095S		69	0	5
48100S		44	0	5
48105S		43	0	5
48110S		31	0	10
48115S		32	0	5
48120S	MESH 40	74	18	5
48125S		28	0	5
48130S		117	15	5
48135S		49	0	5
48140S		113	10	<5
48145S		42	0	5
48150S		115	73	5
44000S		26	0	5
44005S		38	0	<5
44010S	MESH 40	115	39	5
44015S		31	0	5
44020S	MESH 40	28	0	5
44025S		32	0	5
44030S		31	0	5
44035S		23	0	10
44040S		23	0	5
44045S		28	0	5
44050S		96	0	5
44055S		32	0	5

COMPANY: CUMBERLAND RESOURCES
PROJECT No: WEST HEMLO
ATTENTION:

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

(ACT:GE03A+) PAGE 1 OF 3
FILE No: 3-695S/P11+12
DATE: AUGUST 15, 1983

(REPORT VALUES IN PPM)		AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
44060S		0	14800	0	15	12	2340	0	11	11	85300	259	4580
44065S		0	9070	0	10	11	807	0	5	6	55400	151	1240
44070S		0	15800	0	15	9	721	0	5	10	57200	157	967
44075S		0	51000	0	45	25	1180	.6	14	29	101000	157	3250
44080S		0	39200	0	34	14	903	.1	14	23	73400	115	4980
44085S		0	62400	0	51	14	640	.7	9	21	64400	122	1540
44090S		0	10400	0	11	13	755	0	6	4	63200	144	1040
44095S		0	13600	0	15	13	2600	0	12	30	91600	241	4500
44100S		0	16200	0	16	11	2670	1.1	9	110	46700	306	2460
44105S	MESH 40	0	8040	0	7	9	1330	0	5	6	63200	183	1750
44110S		0	7460	0	9	6	3870	0	4	20	53900	202	862
44115S		0	16500	0	14	7	942	0	4	14	47900	127	1330
44120S		0	4280	0	6	0	6240	1.8	4	42	12000	151	927
44125S		0	13600	51	16	12	3170	2.9	18	16	46100	177	9770
40000S		0	25500	0	24	13	1530	.5	9	11	68300	126	2680
40005S		0	9990	0	11	12	3570	0	10	11	58100	220	4140
40010S		0	17100	0	19	12	8090	0	17	25	81100	356	5770
40015S		0	13700	0	14	13	774	0	8	5	93100	306	2030
40020S		0	12000	0	12	13	1850	0	7	11	65300	97	2000
40025S		0	19300	0	22	29	1020	0	13	16	120000	169	2140
40030S		0	6330	0	7	3	646	0	1	3	18900	248	588
40035S		0	49600	0	41	14	464	0	8	7	70700	105	979
40040S		0	13800	0	16	13	898	0	11	12	97600	130	2350
40045S		0	24700	0	24	14	2200	0	12	9	75200	127	3400
40050S		0	17900	0	18	14	1280	0	9	4	80800	154	2140
40055S		0	19800	0	21	13	1650	1.1	9	18	58700	374	3510
40060S		0	25200	0	25	26	1360	0	15	10	117000	152	3020
40065S	N/S												
40070S		0	20000	0	20	13	1290	.4	10	9	86800	148	2190
40075S		0	20500	0	21	24	1860	0	13	10	107000	183	3930
40080S		0	8690	0	9	7	1610	0	6	8	53300	195	1580
40085S		0	26800	0	27	23	5960	.9	52	29	95500	357	7060
40090S		0	19400	112	26	41	854	2.5	44	36	146000	349	4540
40095S	N/S												
40100S	MESH 40	0	7610	0	7	0	13700	.9	2	71	9580	65	513
40105S		0	21200	0	22	24	2160	0	29	33	109000	238	9100
40110S	MESH 40	0	7760	0	8	1	13100	.2	4	42	14100	80	1140
40115S		0	16300	0	17	14	5480	0	13	28	76300	253	5210
40120S		0	28400	122	29	29	1010	6.1	38	21	64100	162	22600
40125S		0	43000	117	45	44	7030	5.6	49	52	119000	322	14400
40130S		0	31600	88	35	31	9660	5.9	41	89	80200	451	10600
40135S		0	31500	0	32	32	3550	1.3	36	27	135000	162	21300
40140S		0	20300	0	24	14	4340	1.7	19	27	71600	520	8180
40145S		0	26000	0	26	15	4410	.2	18	18	61100	360	4500
40150S		0	12800	8	14	14	589	.1	9	10	84700	156	1450
38005S		0	7700	0	9	9	1130	0	6	5	62900	233	1700
38010S		0	15500	0	15	8	2380	0	9	10	66200	407	4340
38015S		0	18800	0	21	15	1120	1.0	16	22	53600	464	3520
38020S		0	16500	9	16	14	681	.6	6	8	53900	154	695
38025S		0	35500	0	31	13	924	.8	8	9	57500	160	1940
38030S		0	4170	0	4	2	977	0	2	2	32300	141	555
38035S		0	27900	0	27	14	1070	.7	12	9	75400	140	2880
38040S		0	15500	0	15	15	1530	0	11	8	68900	196	3920
38045S		0	25500	7	27	25	1320	0	15	9	106000	165	3230
38050S		0	24200	0	23	15	1020	.9	10	8	72200	183	2560
38055S		0	20700	0	21	14	1490	0	11	5	76600	161	1980
38060S		0	27900	0	28	16	2770	2.3	38	28	50300	357	2650
38065S		0	11500	0	12	8	4660	.4	13	22	46700	210	3430
38070S		0	26900	0	27	14	6220	1.6	23	48	60800	366	6210
38075S		0	18300	0	16	6	7100	.8	10	72	34400	139	2040

(REPORT VALUES IN PPM)

		MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
0060S		144	0	92	14	76	0	0	12	0	0	59.5	17
44065S		48	2	37	3	191	0	0	7	0	0	52.6	6
44070S		22	2	45	5	124	0	0	11	1	0	60.7	0
44075S		142	7	84	20	566	0	7	36	8	0	70.9	0
44080S		184	5	64	28	427	0	1	27	7	0	59.0	1
44085S		69	4	61	10	636	0	13	48	8	1	56.5	0
44090S		96	2	50	2	774	2	0	6	1	0	77.0	7
44095S		141	0	107	19	160	0	0	9	0	0	62.7	7
44100S		92	5	74	20	375	8	1	24	5	20	39.3	31
44105S	MESH 40	46	0	61	0	49	0	0	4	0	0	43.2	2
44110S		46	0	58	0	130	0	0	75	0	12	42.0	9
44115S		39	0	61	3	64	0	0	13	0	0	44.0	0
44120S		40	1	75	26	286	46	0	18	4	1	14.8	11
44125S		176	7	34	75	364	32	7	23	13	0	125.0	17
40000S		77	1	79	13	303	0	0	19	0	5	53.6	0
40005S		238	2	91	14	489	3	0	13	0	12	42.7	22
40010S		724	2	151	27	502	0	0	54	0	26	60.7	75
40015S		67	0	64	3	100	0	0	4	0	10	66.7	2
40020S		105	0	67	11	244	0	0	9	0	8	46.7	10
40025S		74	4	56	11	326	0	0	9	1	5	105.0	0
40030S		24	0	48	1	155	4	0	9	0	3	19.5	6
40035S		19	4	51	6	381	0	10	36	5	8	70.1	0
40040S		73	6	51	17	113	0	0	6	2	0	92.6	0
40045S		219	3	75	18	520	0	0	19	3	4	56.0	0
40050S		159	4	59	7	438	0	0	10	0	4	74.6	5
40055S		753	4	81	19	369	0	0	20	3	10	53.1	41
40060S		178	4	79	15	589	0	0	14	0	0	114.0	0
40065S	N/S												
40070S		69	5	62	9	226	0	0	15	5	5	70.9	0
40075S		136	2	88	16	295	0	0	14	0	10	88.1	18
40080S		121	1	69	6	325	0	0	7	0	0	50.6	17
40085S		2790	7	101	48	743	7	0	35	4	21	84.7	102
40090S		889	16	51	103	1140	14	9	11	16	0	201.0	86
40095S	N/S												
40100S	MESH 40	63	2	41	9	530	1	0	12	4	0	9.9	0
40105S		629	6	53	74	214	0	0	15	2	0	123.0	53
40110S	MESH 40	125	1	55	15	613	6	0	21	5	0	16.3	2
40115S		190	3	69	30	310	0	0	15	5	0	80.7	28
40120S		375	15	35	140	256	62	26	35	31	0	214.0	104
40125S		2850	18	61	300	526	74	36	49	35	19	159.0	58
40130S		1700	14	86	242	1070	43	23	44	24	26	102.0	509
40135S		527	7	41	138	209	0	0	17	8	0	165.0	61
40140S		490	4	107	59	350	9	0	21	6	3	68.1	62
40145S		217	6	107	29	440	6	2	27	7	5	53.8	39
40150S		36	5	60	6	215	0	0	9	3	0	120.0	0
39005S		85	0	61	6	85	0	0	4	0	6	50.4	9
38010S		156	1	81	12	146	0	0	16	0	1	47.9	26
38015S		834	9	60	19	502	18	5	19	9	0	65.4	48
38020S		21	5	45	5	302	1	6	14	5	12	60.2	2
38025S		130	4	59	13	711	0	6	26	6	0	56.5	9
38030S		33	0	42	0	72	0	0	2	0	0	16.5	3
38035S		131	4	66	16	428	0	2	20	4	4	77.0	1
38040S		212	3	68	17	379	0	0	10	3	0	56.3	23
38045S		244	8	86	25	1370	0	2	14	8	0	120.0	3
38050S		105	5	67	15	548	0	1	18	3	0	80.2	29
38055S		254	5	66	9	544	0	0	15	2	13	66.7	33
38060S		1340	10	80	34	897	16	12	33	6	33	60.5	95
38065S		423	4	79	20	578	0	0	19	1	16	41.2	22
38070S		536	7	88	43	1100	14	9	37	9	24	63.9	64
38075S		85	1	79	45	615	1	1	31	2	22	24.0	10

(REPORT VALUES IN PPM)		BA	SE	AU-PPB
44060S		31	0	10
44065S		22	0	5
44070S		26	0	5
44075S		31	0	10
44080S		24	0	5
44085S		31	0	5
44090S		25	0	5
44095S		31	0	5
44100S		85	0	5
44105S	MESH 40	24	0	5
44110S		49	0	5
44115S		31	0	5
44120S		102	12	5
44125S		68	29	10
40000S		24	0	5
40005S		30	0	5
40010S		57	0	5
40015S		42	0	10
40020S		29	0	<5
40025S		29	0	5
40030S		24	0	5
40035S		30	0	5
40040S		30	0	5
40045S		21	0	5
40050S		28	0	5
40055S		40	0	5
40060S		39	0	10
40065S	N/S			
40070S		49	0	5
40075S		43	0	5
40080S		32	0	5
40085S		87	0	5
40090S		82	2	5
40095S	N/S			
40100S	MESH 40	43	26	5
40105S		65	0	5
40110S	MESH 40	64	27	5
40115S		50	0	10
40120S		40	95	10
40125S		211	115	50
40130S		85	75	5
40135S		33	0	10
40140S		59	0	5
40145S		78	0	5
40150S		29	0	5
38005S		23	0	5
38010S		54	0	5
38015S		67	2	5
38020S		43	0	5
38025S		28	0	5
38030S		17	0	5
38035S		31	0	10
38040S		29	0	5
38045S		46	0	<5
38050S		48	0	5
38055S		38	0	5
38060S		96	7	5
38065S		55	0	5
38070S		85	20	5
38075S		58	0	5

COMPANY: CUMBERLAND RESOURCES
PROJECT No: WEST HEMLO
ATTENTION:

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

(ACT:GEOJA+) PAGE 1 OF 3
FILE No: 3-695S/P13+14
DATE: AUGUST 15, 1983

(REP VALUES IN PPM)		AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
38080S		0	8500	0	7	4	1330	0	2	7	23700	169	548
38085S		0	10500	0	9	5	791	0	6	10	42800	171	2880
38090S		0	5560	0	5	3	2320	0	3	8	29300	151	831
38095S		0	21600	0	22	25	2860	0	18	20	107000	171	9860
38100S		0	12200	0	13	3	12600	1.1	5	69	12000	75	642
38105S	MESH 40	0	6020	0	6	5	1060	0	4	8	34700	102	1310
38110S	MESH 40	.3	7660	0	13	0	36600	.9	6	26	8980	85	604
38115S		0	5200	0	6	2	1230	0	2	16	29300	158	490
38120S		0	15400	80	20	26	1800	2.5	35	68	81400	143	8040
38125S		0	34300	21	38	29	16200	3.3	54	106	85600	318	16100
42005S		0	7330	0	8	7	1040	0	6	9	49700	551	2100
42010S		0	13300	0	13	12	1010	0	8	8	45800	133	1970
42015S		0	20600	0	19	13	1110	.4	8	9	58100	152	2700
42020S		0	8930	0	10	14	1160	0	9	5	89500	183	3120
42025S		0	4710	0	5	3	575	0	2	12	22800	101	352
42030S		0	4800	0	4	4	946	0	2	2	22200	135	470
42035S		0	5040	0	4	1	203	.3	1	2	12000	97	284
42040S		0	5240	0	5	2	183	0	1	3	17700	101	296
42045S		0	4450	0	4	4	400	0	2	2	24600	106	404
42050S		0	12400	5	13	15	801	.2	8	9	71600	134	1910
42055S	MESH 40	0	12300	0	14	7	2520	.2	6	32	31700	604	2790
42060S		0	9480	0	9	9	872	0	4	3	51800	116	892
42065S		0	23300	0	22	14	1080	.4	9	11	74300	144	2510
42070S		0	9690	0	10	9	2390	0	8	15	61400	181	3430
42075S		0	9850	0	12	12	1340	0	7	6	79900	130	1440
42080S		0	10200	0	10	8	573	0	2	11	36800	302	800
42085S		.2	15100	0	20	3	33700	2.3	40	35	21300	104	2050
42090S		0	7890	0	8	5	2240	0	6	5	39500	202	1640
42095S		0	21700	0	23	19	1180	0	13	11	100000	188	2690
42100S		0	15100	0	15	13	2030	0	11	23	62300	595	2330
42105S		0	2890	0	3	3	964	0	2	4	24000	151	376
42110S		0	4340	0	5	4	875	0	2	8	25200	98	467
42115S		0	25500	0	29	34	7370	0	26	43	167000	408	6950
42120S		0	25100	0	27	12	16800	1.1	21	125	69500	305	2200
42125S		0	10600	0	10	4	7590	.6	5	74	19500	72	428
42130S		0	20800	59	22	23	3430	3.1	25	13	83800	191	14800
42135S		.3	8630	0	13	3	17900	4.5	16	97	14400	219	1900
50000S		.2	14000	0	18	2	18700	1.8	6	31	18000	323	1790
50005S		0	9850	0	11	11	3390	0	8	7	62900	232	2030
50010S		0	16500	0	17	10	1640	0	10	23	40700	204	1930
50015S		0	18400	0	20	14	1440	1.0	16	15	82900	193	3850
50020S		0	11600	0	13	14	1200	0	10	5	87100	186	2280
50025S		0	11000	0	10	10	2110	0	6	8	49100	163	2750
50030S		0	8580	0	11	13	787	0	8	6	92800	112	1180
50035S		0	5390	0	6	4	934	0	2	1	38000	162	589
50040S		0	12700	0	13	12	2470	0	11	9	69500	195	5160
50045S		0	9700	0	9	9	867	0	5	2	49700	105	1290
50050S		0	16300	0	17	15	695	0	8	9	69500	130	1480
50055S		0	7740	0	7	5	515	0	3	8	34700	207	921
50060S		0	27900	0	25	16	596	.7	6	8	59300	93	1030
50065S		0	19600	0	19	14	1090	0	10	8	75200	119	2330
50070S		0	6880	0	6	3	972	0	3	3	35900	110	656
50075S		0	12400	0	13	11	1070	0	6	6	66500	170	1380
50080S		.4	13000	0	14	9	4510	1.6	17	29	38300	269	2060
50085S		0	20400	0	21	14	3030	1.1	16	70	76000	272	3270
50090S		0	22500	0	24	12	6730	1.0	10	73	41600	382	2860
50095S		.3	9220	0	14	7	24600	1.2	60	280	32300	135	2420
50100S		0	6060	0	7	8	1910	0	6	8	60500	153	1840
50105S		0	6360	0	7	7	1330	0	3	8	38900	134	684
50110S		.8	18700	0	25	7	9460	2.3	72	54	21600	293	1350

(REPORT VALUES IN PPM)		MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
38080S		40	0	49	0	14	2	0	10	0	14	26.2	2
38085S		75	1	38	16	167	3	0	5	0	0	46.4	8
38090S		99	0	45	4	108	9	0	6	0	0	31.6	15
38095S		153	6	75	22	44	0	0	14	4	0	135.0	13
38100S		44	2	150	9	623	6	3	21	3	7	24.7	0
38105S	MESH 40	56	0	32	0	89	6	0	3	0	0	37.0	5
38110S	MESH 40	251	4	118	195	901	13	4	75	6	10	8.9	102
38115S		27	0	42	5	194	0	0	0	0	0	26.4	12
38120S		421	10	34	50	269	23	13	15	16	0	164.0	56
38125S		1170	10	98	181	403	31	15	41	20	14	110.0	267
42005S		66	5	42	7	101	0	0	5	0	0	33.1	14
42010S		114	4	49	12	208	3	1	10	3	1	44.7	10
42015S		113	3	53	14	298	0	0	15	4	0	59.3	6
42020S		98	1	61	5	60	0	0	0	0	0	76.0	7
42025S		20	0	62	1	96	0	0	7	0	3	21.2	2
42030S		39	0	49	0	68	4	0	5	0	1	18.0	4
42035S		15	0	47	0	39	4	0	4	1	4	14.1	1
42040S		16	0	43	0	82	0	0	3	0	5	16.5	2
42045S		21	0	51	0	55	6	0	3	0	9	16.1	0
42050S		67	6	54	11	221	0	0	9	3	0	82.0	0
42055S	MESH 40	94	3	161	14	905	18	1	23	0	0	25.7	18
42060S		41	0	53	0	34	0	0	4	0	4	50.1	5
42065S		84	4	63	9	227	0	0	19	2	10	67.2	0
42070S		99	0	66	15	300	0	0	7	0	8	34.6	16
42075S		49	0	50	2	96	0	0	5	0	4	84.4	2
42080S		23	0	50	0	167	1	0	7	0	3	35.8	12
42085S		310	11	114	50	1120	21	8	68	6	35	31.6	73
42090S		138	2	65	5	248	1	0	8	0	0	29.1	14
42095S		122	4	55	10	164	0	0	14	2	0	94.8	15
42100S		238	1	65	15	391	6	0	22	0	14	56.3	47
42105S		36	0	50	1	57	0	0	2	0	0	18.0	3
42110S		30	0	46	0	46	0	0	3	1	0	24.4	0
42115S		254	6	134	23	505	0	0	19	0	0	165.0	43
42120S		191	5	77	45	412	2	3	37	8	7	83.7	31
42125S		15	3	74	39	840	13	3	15	8	0	14.3	0
42130S		301	8	36	113	192	16	2	17	13	0	131.0	18
42135S		434	3	90	86	838	26	3	13	8	4	16.1	131
50000S		733	4	58	18	957	31	4	168	5	23	24.7	47
50005S		149	4	47	4	145	0	0	30	0	1	65.4	27
50010S		146	6	55	13	238	4	1	17	5	3	33.3	29
50015S		313	8	58	17	585	0	0	13	4	0	78.3	42
50020S		132	1	54	4	251	0	0	5	0	1	74.3	15
50025S		99	1	63	10	481	0	0	10	0	0	36.5	13
50030S		40	2	45	6	190	0	0	0	0	0	91.8	3
50035S		28	0	42	0	40	0	0	4	0	0	24.2	2
50040S		217	1	118	16	158	0	0	10	1	0	47.2	16
50045S		74	0	45	1	140	2	0	6	0	0	42.5	1
50050S		97	5	34	7	431	8	0	10	3	4	77.0	2
50055S		34	0	47	5	232	9	0	3	0	0	31.6	8
50060S		43	6	35	5	442	2	8	21	7	0	72.3	0
50065S		208	4	61	12	324	0	0	12	1	7	66.7	2
50070S		30	0	39	0	26	0	0	5	0	8	16.1	1
50075S		43	1	61	1	112	0	0	8	0	3	66.9	0
50080S		968	5	66	35	508	15	2	29	1	34	40.5	81
50085S		656	5	71	49	435	1	0	23	1	30	67.2	104
50090S		928	6	98	58	494	8	4	41	4	36	44.0	92
50095S		291	3	86	151	516	17	0	54	2	40	21.2	212
50100S		68	0	63	4	10	0	0	5	0	11	30.1	3
50105S		35	0	57	0	111	0	0	9	0	5	28.2	5
50110S		939	5	88	49	840	45	11	56	3	47	23.7	17

(REPORT VALUES IN PPM)		BA	SE	AU-PPB
38080S		27	0	5
38085S		23	0	10
38090S		39	0	5
38095S		48	0	5
38100S		45	15	5
38105S	MESH 40	24	0	5
38110S	MESH 40	73	49	5
38115S		28	0	5
38120S		47	34	5
38125S		72	50	5
42005S		31	0	<5
42010S		25	0	5
42015S		39	0	5
42020S		27	0	10
42025S		31	0	5
42030S		29	0	5
42035S		19	0	<5
42040S		15	0	5
42045S		14	0	10
42050S		21	0	5
42055S	MESH 40	58	0	5
42060S		24	0	5
42065S		26	0	5
42070S		24	0	10
42075S		22	0	5
42080S		35	0	5
42085S		73	50	10
42090S		36	0	5
42095S		38	0	5
42100S		92	0	5
42105S		20	0	5
42110S		37	0	10
42115S		125	0	5
42120S		136	1	5
42125S		97	35	10
42130S		64	0	5
42135S		116	35	5
50000S		268	29	5
50005S		92	0	10
50010S		51	0	5
50015S		35	0	5
50020S		43	0	5
50025S		44	0	5
50030S		28	0	10
50035S		19	0	10
50040S		27	0	5
50045S		23	0	5
50050S		23	0	5
50055S		32	0	10
50060S		22	0	5
50065S		25	0	<5
50070S		24	0	5
50075S		44	0	15
50080S		97	0	10
50085S		72	0	5
50090S		70	0	5
50095S		70	9	5
50100S		18	0	5
50105S		52	0	10
50110S		112	31	5

COMPANY: CUMBERLAND RESOURCES
PROJECT No: WEST HEMLO
ATTENTION:

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE No: 3-6955/P15
DATE: AUGUST 15, 1983

(REPORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
50115S	0	8780	0	9	3	1750	.4	3	10	16200	257	936
50120S	0	18100	0	17	13	928	.2	6	10	49100	200	1350
50125S	0	19200	0	20	7	1900	.5	5	47	33500	466	1430
50130S	.4	25100	15	24	16	681	2.5	10	68	41900	359	3190
50135S	0	16300	0	17	11	1890	.1	16	34	62300	319	2350
50140S	0	26800	0	27	11	13900	2.3	50	90	26300	111	963
50145S	0	18300	12	20	13	9010	1.8	23	97	40100	245	3420
36000N	0	8840	0	12	12	1110	0	11	10	104000	182	2080
36005N	0	10100	0	17	9	566	0	6	6	46100	93	1250
36010N	.1	10000	143	16	32	1730	6.7	45	51	78700	86	22500
36015N	.1	7570	10	10	0	29200	1.6	9	54	8980	80	1080
36020N	.3	26800	10	26	12	14000	2.6	15	53	33500	216	1480
36025N	0	13400	4	16	14	1330	.5	13	20	78400	182	3740
36030N	0	11200	0	13	15	1250	0	8	10	75200	204	2710
36035N	0	20000	0	24	29	851	0	15	32	148000	195	1130
36040N	0	17100	0	19	14	5070	0	14	16	70400	392	4430
36045N	0	28100	0	29	15	1860	0	11	6	68000	332	3060
36050N	0	11800	0	13	8	2090	.8	9	9	50900	241	2870
36055N	.9	7960	30	17	3	57400	3.4	7	9	44000	354	23800
36060N	0	15600	0	18	8	7310	1.2	10	11	45500	385	4460

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

(REPORT VALUES IN PPM)	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
50115S	58	1	49	7	176	10	0	15	2	0	17.8	15
50120S	107	3	42	9	335	5	0	15	3	0	57.3	15
50125S	40	3	55	18	688	23	0	21	1	0	46.2	28
50130S	110	10	59	33	622	53	15	23	10	5	55.8	27
50135S	108	2	59	27	166	1	0	18	0	0	61.7	36
50140S	778	7	43	97	970	29	16	65	8	36	29.6	58
50145S	412	8	61	86	703	21	8	48	9	23	47.7	93
36000N	129	1	36	7	146	0	0	0	0	0	109.0	16
36005N	61	2	53	7	106	5	0	6	2	0	48.9	5
36010N	682	16	81	298	610	56	21	15	29	1	82.7	62
36015N	136	5	96	71	801	17	3	70	5	16	8.6	27
36020N	281	21	63	42	910	26	17	61	13	24	48.6	97
36025N	138	7	57	25	275	4	0	10	3	0	63.7	15
36030N	91	4	65	9	141	5	0	5	0	0	68.6	9
36035N	50	10	49	3	430	0	0	2	0	3	136.0	6
36040N	289	2	208	27	552	0	0	16	0	25	44.9	26
36045N	111	4	105	17	350	0	2	21	4	0	51.4	2
36050N	127	2	101	19	254	0	0	10	1	11	36.5	15
36055N	231	4	139	14	527	33	0	1	19	0	31.9	8
36060N	192	3	107	21	458	10	0	13	7	17	37.0	29

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

(REPORT VALUES IN PPM)	BA	SE	AU-PPB
15S	56	0	5
30120S	33	0	5
50125S	80	0	10
50130S	88	11	5
50135S	63	0	5
50140S	85	52	15
50145S	81	27	10
36000N	33	0	5
36005N	24	0	5
36010N	41	76	5
36015N	54	44	10
36020N	74	58	10
36025N	36	0	5
36030N	24	0	10
36035N	54	0	5
36040N	60	0	10
36045N	46	0	10
36050N	36	0	5
36055N	26	47	10
36060N	45	0	10

MIN-EN Laboratories Ltd.

705 WEST 15th STREET,
NORTH VANCOUVER, B.C., CANADA V7M 1T2
TELEPHONE (604) 980-5814

ANALYTICAL REPORT

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Project ..... West Hemlo ..... Date of report ..... Sept.12/83.

File No. ..... 3-900 ..... Date samples received ..... Aug.29/83.

Samples submitted by: ..... John Greig .....

Company: ..... Cumberland Resources .....

Report on: ..... 134 soils ..... Geochem samples

..... Assay samples

Copies sent to:

1. ..... Cumberland Resources, Richmond, B.C. .....
2. .....
3. .....

Samples: Sieved to mesh ..... -80 ..... Ground to mesh .....

Prepared samples stored ☒ discarded ☐

rejects stored ☐ discarded ☒

Methods of analysis: ..... 26 ICP Analysis. Au-aqua regia.A.A. .....

Remarks: .....

SPECIALISTS IN MINERAL ENVIRONMENTS

COMPANY: CUMBERLAND RESOURCES | MIN-EN LABS ICP REPORT | (ACT:GEO3A+) PAGE 1 OF 3

PROJECT No: WEST HEMLO | 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE No: 3-900/P1+2

ATTENTION: JOHN GREIG | (604)980-5814 OR (604)988-4524 | DATE: SEPTEMBER 12, 1983

(REPORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
10N	2.2	20100	71	24	39	11500	2.7	33	48	88600	185	7160
13012N	18.6	21200	287	33	56	12400	7.0	38	131	138000	484	1300
13015N	.4	40800	73	41	72	7200	.2	84	97	229000	893	30800
13017N	.9	33300	178	35	57	10400	4.8	51	41	136000	159	34100
13020N	.7	35800	64	36	42	13600	4.5	27	90	77100	271	5570
13022N	1.3	13600	73	13	35	4960	1.2	18	32	76800	196	5940
13025N	.6	14600	91	15	35	845	1.5	16	11	54000	132	4770
13027N	3.6	44400	266	52	75	11000	10.7	69	145	151000	175	1830
13030N	0	33200	117	32	42	3270	4.0	56	57	77100	142	2280
13032N	0	18200	0	18	20	7060	1.0	18	42	52200	127	4610
13035N	0	17400	2	17	27	4040	0	31	34	105000	278	7160
13037N	0	10600	0	9	16	6270	0	16	22	39500	135	3920
13040N 40MESH	0	15300	0	13	16	6960	1.8	19	29	39200	157	3320
09020N	0	14200	0	9	4	1160	0	1	42	13800	328	784
09022N	0	3290	0	0	13	1660	0	9	12	132000	119	244
09025N 40MESH	0	12600	0	13	13	16100	1.1	17	34	23500	156	1040
09027N	0	8910	0	6	19	1260	0	9	10	117000	125	1050
09030N	0	12400	0	9	15	2240	0	7	38	66100	150	2180
09032N	0	27500	0	22	19	7840	1.4	36	81	36200	142	1760
09035N	.5	21800	46	23	27	12300	2.7	24	41	51900	104	1670
09037N 40MESH	1.1	15600	53	17	18	13400	2.4	19	37	30300	103	1570
09040N	1.6	27100	261	33	54	9550	6.1	64	35	106000	83	5620
09042N	1.1	20800	30	22	28	1550	1.0	32	37	61100	185	2770
09045N 40MESH	3.5	12900	22	18	30	16400	3.4	42	31	50400	135	1310
09047N	2.0	18100	0	18	44	3850	0	22	13	181000	110	6790
09050N 40MESH	2.4	8170	51	14	19	22100	2.7	20	23	25600	129	708
11020N	3.6	20300	344	35	89	1700	.5	49	58	268000	180	22300
11022N	0	38100	0	33	21	10300	2.1	15	83	34800	342	2310
11025N	1.1	11700	0	12	32	1060	0	10	15	93600	230	1600
11027N	1.5	12600	0	11	24	1310	0	7	29	59300	271	951
11030N	1.8	5040	0	5	14	3430	0	10	24	63200	99	711
11032N	.5	8810	4	8	10	1340	0	7	16	30500	355	2520
11035N	.2	4000	0	3	3	1330	0	3	9	22400	136	512
11037N	2.5	17100	149	23	43	1780	2.5	43	46	115000	380	7890
11040N N/S												
11042N	.8	5460	0	5	10	916	0	7	10	34800	111	553
11045N	1.1	8050	0	7	8	1150	0	6	10	25100	156	1330
11047N	0	8820	14	9	6	790	1.0	10	13	15600	195	1940
11050N	.1	2720	0	0	0	368	0	1	2	13700	61	289
10022N	0	6280	0	3	1	1220	0	5	13	25800	141	435
10027N	.5	34400	0	30	11	11000	4.1	56	170	36500	196	1580
10032N	0	8470	0	7	5	1190	.1	8	12	28800	126	1850
10037N	0	13600	0	12	4	492	.7	7	10	38200	106	1080
10042N	0	3620	0	1	0	470	0	1	4	15100	79	558
10047N	0	4700	0	2	0	438	0	2	6	28000	88	678
03000N	0	31900	106	30	38	783	3.2	38	28	114000	94	25000
03002N	0	20200	0	16	3	8830	1.1	22	148	31700	146	1260
03005N	0	44400	0	39	37	9030	5.8	83	126	108000	1800	26800
03007N	0	11500	7	10	12	867	.4	9	41	59900	350	3720
03010N 40MESH	0	8220	0	7	0	6990	0	2	37	6890	136	1350
03012N N/S												
03015N	0	24400	0	22	6	16500	3.4	14	171	29500	275	5990
03017N	.2	22300	33	23	30	3370	2.3	30	40	91200	289	15700
03020N	.4	32500	0	31	12	18000	2.8	14	202	38900	177	2220
03022N	1.1	36300	7	36	34	11300	4.9	47	159	77800	266	7090
03025N	1.1	23100	0	24	16	15600	1.9	32	229	35800	183	1920
03027N	.9	4460	0	3	6	1470	0	3	16	20800	141	457
03030N	1.4	7580	18	7	14	1560	0	8	17	41900	320	2200
03032N 40MESH	.4	8920	0	7	0	1680	0	1	36	6380	101	355
03035N	.9	7080	10	6	7	788	0	2	16	13200	133	566

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

(REPORT VALUES IN PPM)

	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
[redacted]0N	2180	22	52	90	1500	41	14	41	16	56	184.0	156
13012N	1000	34	149	94	1910	81	38	50	34	39	172.0	479
13015N	1740	27	14	234	356	28	0	34	16	0	525.0	39
13017N	639	30	6	198	383	49	11	43	31	12	430.0	48
13020N	1490	21	39	87	1500	63	29	56	25	29	201.0	199
13022N	134	14	41	50	361	11	0	29	6	36	184.0	5
13025N	492	16	23	35	338	21	11	19	11	16	294.0	56
13027N	3030	47	20	180	2580	109	62	73	46	82	123.0	1150
13030N	1230	24	10	113	1340	40	36	38	28	16	205.0	98
13032N	788	14	29	42	831	23	6	28	15	0	128.0	54
13035N	1070	13	17	52	560	9	0	15	6	0	260.0	71
13037N	1210	8	44	49	683	18	0	16	8	0	93.9	64
13040N 40MESH	1570	11	37	46	807	19	8	23	10	0	129.0	63
09020N	51	1	36	9	877	0	0	8	2	0	66.6	7
09022N	257	0	18	0	0	0	0	0	0	0	256.0	0
09025N 40MESH	1960	10	29	61	1170	22	6	25	9	0	54.8	86
09027N	91	0	3	0	0	0	0	0	0	0	193.0	0
09030N	104	1	18	12	232	0	0	1	0	0	95.7	8
09032N	517	12	13	68	1390	13	16	28	10	20	106.0	56
09035N	1650	16	17	80	1990	37	25	32	15	25	117.0	124
09037N 40MESH	632	12	32	64	1860	37	16	26	9	32	82.9	128
09040N	2520	36	18	120	2210	85	51	44	34	66	239.0	149
09042N	965	18	30	115	460	23	15	23	10	35	118.0	67
09045N 40MESH	5000	16	23	87	1370	54	20	34	9	85	110.0	144
09047N	554	5	26	15	0	0	0	0	0	28	275.0	24
09050N 40MESH	2870	8	41	42	1170	52	11	36	5	77	50.6	80
11020N	566	41	70	156	1180	72	7	19	34	48	911.0	70
11022N	64	10	52	78	1170	33	23	56	10	65	121.0	0
11025N	116	5	22	8	153	0	0	7	0	29	300.0	1
11027N	51	4	20	0	442	0	0	6	0	30	141.0	6
11030N	58	0	16	0	164	0	0	0	0	10	117.0	19
11032N	137	5	15	10	713	26	0	12	3	5	92.8	32
11035N	46	0	3	0	233	6	0	3	0	0	47.0	6
11037N	1670	27	53	92	1470	57	11	23	21	22	438.0	69
11040N N/S												
11042N	49	1	7	4	206	3	0	3	0	11	125.0	1
11045N	214	2	13	9	396	18	0	9	0	22	78.4	15
11047N	202	5	12	14	450	38	3	12	5	7	94.1	27
11050N	22	0	3	0	53	0	0	1	0	1	47.0	0
10022N	32	0	10	0	217	0	0	4	0	0	144.0	0
10027N	2310	11	14	207	1600	41	14	35	10	21	64.0	206
10032N	142	6	4	18	300	12	0	9	7	0	110.0	44
10037N	169	11	6	22	569	22	5	13	9	0	97.9	16
10042N	37	3	6	7	504	0	0	0	1	0	62.1	5
10047N	43	1	2	2	138	0	0	0	1	0	91.5	1
03000N	486	29	0	157	378	71	11	23	29	0	442.0	16
03002N	540	6	9	74	1240	18	6	22	10	0	133.0	0
03005N	1210	30	3	58	1950	60	17	45	30	0	440.0	43
03007N	79	13	41	14	348	24	0	9	7	0	224.0	4
03010N 40MESH	71	1	25	14	1300	28	0	9	3	0	33.6	12
03012N N/S												
03015N	706	14	37	109	1910	38	12	37	14	11	134.0	84
03017N	533	31	19	35	386	56	1	19	15	0	380.0	27
03020N	1230	16	46	74	1710	24	14	38	13	32	133.0	16
03022N	2960	22	18	107	1520	40	23	44	18	36	262.0	179
03025N	666	11	28	39	1180	33	14	33	9	30	107.0	14
03027N	46	0	19	1	186	7	0	6	0	25	89.9	2
03030N	88	1	21	0	284	5	0	8	0	27	117.0	7
03032N 40MESH	49	2	28	6	1190	10	1	7	0	11	36.5	3
03035N	25	2	17	3	242	15	0	8	1	33	72.0	0

(REPORT VALUES IN PPM)	BA	SE	AU-PPB
[redacted]0N	79	287	10
13012N	93	607	5
13015N	128	274	10
13017N	56	329	5
13020N	79	328	10
13022N	113	137	5
13025N	16	176	5
13027N	83	789	5
13030N	69	419	5
13032N	39	201	10
13035N	57	147	5
13037N	31	120	10
13040N 40MESH	45	108	5
09020N	31	0	5
09022N	24	0	5
09025N 40MESH	56	146	5
09027N	20	0	<5
09030N	22	0	5
09032N	45	186	5
09035N	61	242	5
09037N 40MESH	63	124	10
09040N	62	596	5
09042N	28	152	5
09045N 40MESH	167	241	5
09047N	23	0	5
09050N 40MESH	111	141	5
11020N	74	517	10
11022N	65	186	5
11025N	25	3	5
11027N	29	0	5
11030N	41	0	5
11032N	22	68	5
11035N	10	0	10
11037N	103	369	<5
11040N N/S			
11042N	16	0	10
11045N	23	0	5
11047N	22	72	5
11050N	2	0	10
10022N	14	0	15
10027N	53	202	20
10032N	20	83	10
10037N	20	97	25
10042N	8	8	5
10047N	6	0	10
03000N	11	337	10
03002N	61	175	5
03005N	145	340	5
03007N	24	165	15
03010N 40MESH	55	8	5
03012N N/S			
03015N	78	192	5
03017N	73	236	5
03020N	125	200	10
03022N	159	366	5
03025N	133	233	<5
03027N	30	0	5
03030N	19	49	25
03032N 40MESH	32	10	10
03035N	29	2	10

COMPANY: CUMBERLAND RESOURCES
PROJECT No: WEST HEMLO
ATTENTION: JOHN GREIG

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

(ACT:GE03A+) PAGE 1 OF 3
FILE No: 3-900S/P3+4
DATE: SEPTEMBER 12, 1983

(REPORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
02S 40MESH	.8	25000	0	24	19	9490	3.6	37	142	30300	115	828
03005S	.1	12900	0	11	0	11600	1.6	6	58	11700	128	905
03007S	5.8	20400	0	24	30	17700	9.1	41	91	55800	200	1720
03010S	2.5	21300	0	20	19	12600	5.6	37	83	36100	171	1340
03012S	0	23100	0	22	18	9680	3.9	22	83	38300	182	1200
03015S 40MESH	0	5060	0	1	0	629	0	0	5	912	196	252
30017S N/S												
01002S	0	4970	0	2	0	514	0	0	2	730	148	243
01005S	0	8360	0	1	0	834	0	0	4	2560	192	1050
01007S	0	6000	0	0	0	455	1.3	0	7	4020	244	1100
01010S 40MESH	0	15300	0	11	0	15100	2.0	3	78	6020	105	993
01000N	1.1	36800	0	31	30	5080	7.3	87	111	59900	252	1570
01002N	0	7730	0	3	0	550	.5	1	15	5470	324	936
01005N 40MESH	0	21900	14	19	23	11700	5.8	22	92	45800	177	13100
01007N	0	23800	69	22	31	1990	5.0	35	37	71000	251	6240
01010N	.6	12900	35	13	20	1210	2.1	17	19	42300	345	3760
01012N	2.0	25200	0	24	15	33000	3.5	12	303	19000	136	949
01015N	2.1	55600	0	48	44	11300	9.9	94	281	67500	190	2890
01017N	1.3	3790	0	2	0	1540	.1	5	12	24500	82	581
01020N	.8	30000	120	22	31	4300	4.5	25	176	40900	161	4310
01022N	1.3	14400	96	12	26	1630	3.0	18	22	40100	280	4640
01025N	.2	9290	0	5	0	1140	2.1	2	39	4200	170	454
01027N	1.6	8540	58	8	28	571	1.4	9	26	53800	180	1330
01030N	1.7	31700	64	29	35	6320	5.3	33	68	53500	169	5620
01032N	3.8	25700	128	24	33	4720	5.3	29	50	41400	122	3480
01035N	3.7	12400	134	14	39	1860	2.7	18	15	57100	131	4750
01037N	2.2	10800	22	8	22	1010	.8	5	21	25000	200	635
01040N	2.3	21800	64	19	33	2330	4.4	17	56	56200	321	4710
12017N N/S												
12022N	2.2	28300	94	27	35	3290	6.0	104	57	55100	271	3140
12027N	.7	16900	2	15	22	1610	1.8	14	49	26400	243	2100
12032N	0	2720	0	3	0	118	1.7	3	3	5570	64	168
12037N	.6	10100	39	11	22	690	2.2	6	8	41200	139	870
12042N	.5	29600	0	28	20	16000	6.2	15	80	32700	187	2140
12047N 40MESH	1.5	21200	0	21	25	11600	6.2	33	38	43800	117	1370
13036N 40MESH	0	7420	8	7	0	2740	2.2	12	12	29900	105	5040
00007N	0	17100	0	16	15	6810	4.0	12	111	35000	322	3180
00012N	0	9560	2	6	0	275	3.1	8	3	15400	69	4350
00017N	.3	18500	0	18	19	12800	5.1	25	247	27200	171	5100
00022N	0	2270	0	0	0	295	0	0	5	2080	53	246
00027N	0	7760	0	5	0	389	.5	2	31	14400	198	1070
00032N	0	2000	0	0	0	69	0	0	1	83	82	213
00037N	0	26800	41	24	18	7580	3.5	51	146	53200	148	3210
00002S	0	9440	0	9	0	1400	1.7	7	5	38500	114	2210
00005S	0	20300	0	21	0	7270	4.4	27	32	39700	353	3610
02002N	0	4020	0	2	0	220	1.6	1	4	7740	134	1190
02007N	.4	26000	131	26	36	3330	3.8	46	96	70600	78	9140
02017N	1.3	18100	44	20	28	18200	4.3	26	158	40000	268	8160
02022N	.3	19200	228	20	40	524	5.2	35	25	69800	204	14200
02027N 40MESH	.3	12400	51	12	27	1310	2.8	14	21	42000	140	5590
02032N	.4	9480	76	11	29	1210	3.8	10	32	48000	149	932
02037N	.2	13100	39	13	24	1090	1.8	7	36	48500	89	689
02002S	0	9770	7	9	0	264	1.2	5	12	13700	161	978
02007S	.7	28500	0	22	17	4800	1.2	4	130	14400	138	1120
02012S	2.1	25700	0	25	0	17200	1.7	7	91	15900	114	1250
08002S	2.6	24900	0	28	25	23800	4.4	15	261	28000	219	3930
08007S	2.2	14600	16	28	26	15800	6.4	20	105	28400	269	5890
08012S	1.5	18300	27	23	25	17700	4.4	36	82	39700	157	2520
08017S 40MESH	.8	11800	96	15	18	12800	3.8	15	71	16600	109	6060
08022S	0	861	7	3	0	2300	1.2	1	9	2250	70	250

PROJECT No: WEST HEMLO | 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE No: 3-900S/P3+4

ATTENTION: JOHN GREIG | (604)980-5814 OR (604)988-4524 | DATE: SEPTEMBER 12, 1983

(REPORT VALUES IN PPM)	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
03002S 40MESH	868	10	26	160	1680	40	8	44	8	21	55.4	22
03005S	279	5	39	50	1330	37	0	42	3	7	31.6	21
03007S	16800	22	30	313	1910	130	14	48	10	41	95.3	244
03010S	7630	13	40	157	1580	70	4	47	8	27	81.2	105
03012S	2540	11	42	96	1570	49	6	44	7	8	87.0	85
03015S 40MESH	111	0	14	2	149	18	0	0	0	0	17.3	2
30017S N/S												
01002S	55	0	11	1	76	2	0	2	0	0	17.6	2
01005S	37	0	23	5	132	3	0	8	0	0	32.0	3
01007S	48	0	12	14	209	12	0	4	1	0	28.8	15
01010S 40MESH	469	2	59	38	1350	14	0	93	3	0	30.9	19
01000N	4730	21	47	139	1490	111	10	70	13	11	118.0	60
01002N	111	0	27	10	362	25	0	6	1	0	36.0	22
01005N 40MESH	508	16	50	171	1110	57	2	43	18	1	98.5	55
01007N	752	23	20	112	779	61	5	34	15	0	251.0	76
01010N	797	11	23	62	448	58	0	22	9	11	199.0	232
01012N	2530	8	23	464	1410	33	5	46	8	24	52.8	59
01015N	6660	26	16	602	1570	76	21	73	15	43	166.0	181
01017N	101	2	9	8	183	11	0	7	0	18	138.0	22
01020N	237	17	23	159	702	41	14	40	13	29	145.0	23
01022N	364	9	9	105	410	41	1	23	6	15	182.0	53
01025N	43	2	21	14	857	18	0	16	0	10	36.0	12
01027N	137	10	31	10	309	15	0	16	4	23	423.0	18
01030N	276	16	55	93	1420	58	13	54	14	47	188.0	169
01032N	276	18	27	77	1070	56	23	43	9	87	135.0	177
01035N	345	15	7	40	371	42	8	24	4	64	299.0	46
01037N	126	3	18	8	264	11	0	16	0	36	142.0	11
01040N	292	13	29	25	470	44	5	31	7	37	300.0	30
12017N N/S												
12022N	1310	22	38	99	988	69	21	53	13	44	158.0	157
12027N	286	9	35	37	466	25	3	27	7	4	104.0	145
12032N	40	2	18	3	106	0	0	3	1	0	45.6	9
12037N	61	23	38	6	584	36	1	16	4	0	97.8	40
12042N	2780	12	38	194	2290	35	4	50	9	10	96.8	393
12047N 40MESH	5610	20	50	168	2270	63	12	40	9	11	130.0	187
13036N 40MESH	651	8	47	60	411	42	0	13	6	0	74.0	62
00007N	1580	16	34	77	1120	41	3	42	10	0	110.0	145
00012N	158	8	7	61	195	29	0	10	7	0	143.0	25
00017N	4640	14	16	279	911	60	4	28	11	0	113.0	117
00022N	43	0	8	1	177	0	0	0	0	0	15.5	9
00027N	63	5	23	9	448	14	0	7	2	0	145.0	11
00032N	17	0	12	0	61	0	0	0	0	0	5.3	6
00037N	1250	17	27	170	912	39	3	36	12	0	153.0	38
00002S	137	8	30	17	357	15	0	16	5	0	144.0	22
00005S	2730	15	89	69	1180	54	4	59	9	0	161.0	91
02002N	41	1	26	3	117	0	0	2	1	0	28.8	11
02007N	1120	22	21	181	519	45	7	36	14	0	208.0	44
02017N	1240	18	43	136	886	46	8	44	15	9	153.0	70
02022N	562	24	13	239	258	66	8	29	16	0	447.0	43
02027N 40MESH	330	10	15	21	366	43	6	19	6	0	243.0	30
02032N	590	17	20	18	868	41	11	18	7	0	238.0	39
02037N	61	13	38	4	567	27	2	23	6	4	422.0	8
02002S	73	8	27	11	309	35	2	13	5	1	95.5	24
02007S	43	9	57	58	1870	22	1	64	6	13	26.4	0
02012S	1350	11	49	57	2370	35	1	112	6	41	43.6	9
08002S	2710	13	64	171	2130	47	7	50	14	19	96.8	12
08007S	4690	16	50	193	1100	82	12	34	11	17	83.3	65
08012S	1750	16	43	80	1450	56	8	69	11	10	157.0	103
08017S 40MESH	649	16	35	92	1000	44	7	42	12	7	76.4	50
08022S	43	2	14	0	305	15	0	6	2	0	7.9	33

PROJECT No: WEST HEMLO — 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 — FILE No: 3-900S/P3+4

ATTENTION: JOHN GRE16 — (604)980-5814 OR (604)988-4524 — DATE: SEPTEMBER 12, 1983

(REPORT VALUES IN PPM)	BA	SE	AU-PPB
03002S 40MESH	60	172	10
03005S	77	38	5
03007S	434	335	5
03010S	168	297	<5
03012S	127	270	5
03015S 40MESH	21	0	5
30017S N/S			
01002S	25	0	<5
01005S	36	21	10
01007S	24	6	30
01010S 40MESH	63	41	10
01000N	121	381	5
01002N	31	17	5
01005N 40MESH	58	299	15
01007N	53	297	10
01010N	55	183	10
01012N	74	186	20
01015N	123	419	5
01017N	21	23	5
01020N	77	244	5
01022N	45	131	<5
01025N	43	47	10
01027N	43	149	15
01030N	54	296	50
01032N	35	148	20
01035N	26	154	15
01037N	47	21	25
01040N	91	129	30
12017N N/S			
12022N	70	318	25
12027N	74	163	<5
12032N	12	15	5
12037N	25	141	10
12042N	134	290	5
12047N 40MESH	102	331	5
13036N 40MESH	25	155	5
00007N	76	180	25
00012N	22	41	10
00017N	109	274	5
00022N	21	0	5
00027N	37	51	5
00032N	11	0	15
00037N	91	315	10
00002S	28	147	<5
00005S	106	291	10
02002N	22	12	5
02007N	37	279	15
02017N	82	320	5
02022N	39	285	<5
02027N 40MESH	49	179	5
02032N	40	179	10
02037N	57	168	5
02002S	29	47	10
02007S	65	147	5
02012S	81	191	5
08002S	133	327	30
08007S	155	195	15
08012S	97	350	20
08017S 40MESH	52	189	15
08022S	54	32	5

COMPANY: CUMBERLAND RESOURCES
PROJECT No: WEST HEMLO
ATTENTION: JOHN GREIG

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

(ACT:GEO3A+) PAGE 1 OF 3
FILE No: 3-900S/P5
DATE: SEPTEMBER 12, 1983

(REPORT VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
07S 40MESH	0	23600	0	21	19	3130	1.6	17	134	29200	177	769
08002N	1.1	13000	367	22	57	1600	11.4	62	33	102000	129	18000
08007N 40MESH	.1	4470	0	11	0	15700	1.9	10	48	12900	90	982
08012N	0	2750	0	3	0	558	1.0	1	11	6070	100	278
08017N N/S												
08022N N/S												
08027N N/S												
04002N	0	40900	0	38	40	8200	4.4	35	210	72600	258	3540
04007N	0	28900	167	28	43	742	9.1	28	7	62800	110	26500
04012N N/S												
04017N 40MESH	.3	9680	0	16	0	28000	1.6	3	128	7400	180	1320
04022N	0	26900	0	26	26	16900	4.5	21	267	36700	202	2560
04027N	1.1	17300	93	21	37	1220	5.9	38	26	70600	288	8850
04002S 40MESH	0	26400	0	25	19	18100	3.5	7	298	20700	149	1930
04012S 40MESH	1.8	17200	0	21	17	14600	3.9	20	73	25500	130	1750
04022S	0	25800	0	24	20	9060	2.3	34	72	28500	146	1030
02007S	0	6190	0	3	0	1860	0	1	4	2080	132	352
02017S	2.1	26600	0	25	19	19500	2.8	11	213	20700	245	1930
02007N DUP	.9	17700	89	20	37	3300	4.7	33	221	67100	239	5460
02017N	0	4010	45	5	0	303	.9	4	13	17900	149	879
02022N	1.2	10200	53	13	29	2830	3.0	13	53	40500	327	2570
02027N	1.1	4870	0	11	0	20500	1.6	6	30	8240	175	2170

PROJECT No: WEST HEMLO | 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE No: 3-900S/P5

ATTENTION: JOHN GREIG | (604)980-5814 OR (604)988-4524 | DATE: SEPTEMBER 12, 1983

(REPORT VALUES IN PPM)	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
08027S 40MESH	220	6	73	40	1130	5	0	28	5	0	59.5	37
02N	2420	43	34	283	722	151	32	48	35	3	146.0	54
08007N 40MESH	1080	5	61	22	692	42	1	22	7	0	19.5	47
08012N	36	1	13	0	81	1	0	3	2	0	38.3	11
08017N N/S												
08022N N/S												
08027N N/S												
04002N	1060	23	36	59	867	40	5	57	14	0	284.0	10
04007N	377	31	17	91	275	91	10	38	26	0	386.0	22
04012N N/S												
04017N 40MESH	646	1	48	63	1090	45	0	38	8	0	30.4	25
04022N	977	13	39	91	1070	29	3	43	12	0	132.0	15
04027N	1940	25	22	84	627	81	5	28	12	0	276.0	59
04002S 40MESH	931	6	33	81	1460	27	1	40	9	2	70.4	5
04012S 40MESH	2070	10	35	69	1290	62	4	67	9	11	55.5	25
04022S	903	11	52	43	1630	15	2	66	8	11	56.9	23
02007S	32	1	25	0	126	4	0	14	2	0	17.5	6
02017S	1860	12	73	118	2310	42	2	104	10	33	51.2	45
02007N DUP	1120	26	36	42	838	71	12	42	13	0	271.0	56
02017N	79	8	19	20	295	14	1	9	5	0	137.0	21
02022N	215	10	46	31	540	37	1	29	8	0	206.0	76
02027N	1660	5	56	44	759	54	0	50	8	0	19.5	64

PROJECT No: WEST HEMLO | 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE No: 3-900S/P5

ATTENTION: JOHN GREIG | (604)980-5814 OR (604)988-4524 | DATE: SEPTEMBER 12, 1983

(REPORT VALUES IN PPM)	BA	SE	AU-PPB
08027S 40MESH	66	164	10
[redacted]2N	87	644	5
08007N 40MESH	70	58	5
08012N	18	14	10
08017N N/S			
08022N N/S			
08027N N/S			
04002N	101	398	15
04007N	17	274	30
04012N N/S			
04017N 40MESH	83	181	5
04022N	117	314	5
04027N	56	305	5
04002S 40MESH	111	179	10
04012S 40MESH	77	197	15
04022S	87	169	5
02007S	27	30	5
02017S	87	178	10
02007N DUP	44	312	5
02017N	18	55	10
02022N	104	171	5
02027N	67	64	10

MIN-EN Laboratories Ltd.

705 WEST 15th STREET,
NORTH VANCOUVER, B.C., CANADA V7M 1T2
TELEPHONE (604) 980-5814

ANALYTICAL REPORT

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Project West Hemlo Date of report Sept.12/83.

File No. 3-917 Date samples received Aug.29/83.

Samples submitted by: John Greig

Company: Cumberland Resources

Report on: 54 soils Geochem samples

Assay samples

Copies sent to:

1. Cumberland Resources, Richmond, B.C.
2.
3.

Samples: Sieved to mesh -80 Ground to mesh

Prepared samples stored ☒ discarded ☐

rejects stored ☐ discarded ☒

Methods of analysis: 26 ICP Analysis. Au-aqua regia. A.A.

Remarks:

SPECIALISTS IN MINERAL ENVIRONMENTS

COMPANY: CUMBERLAND RESOURCES
PROJECT No: WEST HEMLO
ATTENTION: JOHN GRE16

MIN-EN LABS ICP REPORT
705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

(ACT:GE03A+) PAGE 1 OF 3
FILE No: 3-9175/P1+2
DATE: SEPTEMBER 12, 1983

(REPORT VALUES IN PPM)

	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
[illegible]0S	0	7120	0	7	0	866	1.1	6	4	34700	166	4360
05002S 40MESH	1.1	9880	0	25	19	19400	3.0	25	81	27600	127	1030
05005S	0	6180	0	10	17	1880	1.4	7	14	30300	208	2530
05007S	0	7810	8	9	17	922	1.5	7	11	28800	203	4290
05010S	2.0	30000	0	32	38	13800	6.3	40	77	67400	344	3230
05012S	5.1	9710	173	24	57	14000	9.8	111	26	116000	111	2030
05015S	0	20800	204	26	44	652	5.7	22	16	89000	346	5400
05017S	0	6310	0	8	0	3660	2.6	4	14	11000	185	1570
05020S	.2	5430	26	5	0	1160	1.1	3	10	11600	208	579
05022S	0	22500	0	19	23	2360	3.4	8	55	21700	370	1790
05025S	.2	9930	0	10	0	5820	3.9	8	36	12500	199	2480
05000N N/S												
0502N	0	29600	95	29	33	4300	6.2	30	179	69100	167	5740
05005N N/S												
05007N	.4	24400	59	26	48	2140	.1	20	50	144000	181	5800
05010N	0	57900	0	49	34	10000	4.1	33	286	67700	264	2290
05012N	.6	8110	15	9	23	929	.7	10	11	65000	134	3750
05015N	.5	11900	83	14	33	733	.2	25	22	119000	125	5530
05017N	.7	8460	18	12	22	2850	2.5	8	28	35300	305	3200
05020N	.5	18500	70	21	27	16200	4.4	26	111	51000	221	9570
05022N	0	10100	0	8	22	1860	.8	5	17	39500	186	2190
05025N	0	5570	0	8	0	1940	1.1	4	14	23700	222	1530
05027N	.6	20200	55	20	33	5110	3.1	36	112	72100	238	8320
05030N	0	16500	0	15	24	5710	3.0	19	102	38600	332	4380
06000N	.7	35500	63	35	46	14200	5.3	72	220	95300	163	10600
06002N N/S												
06007N	.2	31000	137	30	49	3770	5.5	48	70	126000	199	15700
06010N N/S												
06012N	0	5070	0	17	0	1760	.5	5	19	32300	127	1880
06015N N/S												
06017N	.2	9240	0	10	0	10600	1.6	6	42	14400	142	2370
06020N N/S												
0622N	1.1	7750	0	8	20	3850	0	11	14	51400	122	1090
06025N	0	12100	75	12	22	4620	4.4	26	31	22900	215	6970
06002S N/S												
06007S	0	7100	15	8	20	1470	0	5	55	27300	146	897
06012S	3.9	20200	0	25	19	33500	7.8	23	89	34200	215	2120
06015S N/S												
06017S	1.5	21100	259	28	50	3040	10.1	22	34	104000	350	15200
06020S N/S												
06022S	.4	6710	35	9	0	478	1.2	7	7	8050	153	538
06025S N/S												
07002S	3.8	22100	10	24	31	12500	5.3	36	186	47700	364	3980
07005S	1.0	15300	149	17	28	9920	6.0	20	97	36400	192	10900
07007S	1.4	16100	453	21	51	211	11.3	44	22	96500	84	16500
07010S	1.5	19200	65	20	24	12100	5.4	22	44	32500	286	6280
07012S	0	18100	249	17	33	554	7.3	26	8	41900	120	18200
07015S	.1	22200	188	21	32	3550	8.0	39	6	71100	142	21200
07017S 40MESH	0	2280	0	9	0	27900	1.3	0	68	5930	75	3260
07020S 40MESH	2.6	1630	0	12	10	25400	2.3	4	15	29600	72	2370
07022S	28.4	1980	0	22	52	27500	9.7	10	19	40500	240	3000
07025S	.7	4980	6	8	19	1160	2.4	10	22	17500	172	527
07027S	0	5140	0	6	0	839	1.5	1	11	4240	140	624
07030S	.3	3390	0	4	0	511	0	1	4	3890	74	261
07000N	1.2	13600	151	16	34	973	2.8	18	21	66100	260	3710
07002N	0	3810	0	3	0	622	0	3	3	19400	85	1360
07005N	1.9	19500	150	17	41	1980	3.8	34	24	92000	190	10500
07007N	0	25000	105	24	36	140	5.0	22	13	72600	217	11900
07010N	0	8650	0	6	0	6240	1.5	5	29	18600	158	1340
07012N	.1	22500	48	21	23	8830	5.1	31	69	57200	275	9890

REPORT VALUES IN PPM	MN	MO	NA	NI	P	PB	SB	SR	TH	U	V	ZN
05000S	91	6	15	27	126	4	0	4	2	0	121.0	17
05002S 40MESH	2890	9	77	59	702	37	1	25	5	7	63.2	59
05005S	128	5	21	21	433	13	0	8	0	0	83.5	22
05007S	118	7	20	33	286	48	0	9	3	0	97.2	32
05010S	7680	28	43	150	935	102	17	55	14	45	202.0	103
05012S	11100	46	29	142	1600	157	37	62	26	83	157.0	84
05015S	507	33	31	30	748	93	24	37	21	6	418.0	68
05017S	93	5	26	19	425	26	1	27	6	0	57.3	17
05020S	104	3	18	8	192	17	2	12	4	4	120.0	11
05022S	85	11	47	18	571	66	8	45	9	4	82.0	49
05025S	1490	7	31	31	526	38	4	39	7	4	44.8	64
05000N N/S												
0502N	908	20	27	53	1310	58	12	46	13	14	293.0	19
05005N N/S												
05007N	77	23	101	20	298	0	0	31	0	4	282.0	2
05010N	910	19	48	133	1190	32	15	71	14	21	174.0	33
05012N	99	11	10	19	144	0	0	3	0	0	307.0	4
05015N	248	18	3	51	170	0	0	11	0	0	292.0	13
05017N	222	8	44	20	408	35	1	15	5	0	172.0	44
05020N	733	20	102	122	1060	50	3	35	13	9	171.0	70
05022N	61	4	25	14	66	0	0	16	0	0	122.0	8
05025N	54	2	25	8	303	18	0	11	0	0	66.3	21
05027N	1300	19	43	111	816	64	4	36	10	1	183.0	68
05030N	485	9	55	74	445	42	0	28	6	0	108.0	80
06000N	2370	25	28	254	831	47	8	54	14	19	256.0	40
06002N N/S												
06007N	506	31	19	177	446	60	3	36	13	0	369.0	16
06010N N/S												
06012N	39	6	30	23	373	0	0	0	0	0	156.0	7
06015N N/S												
06017N	89	8	50	38	958	26	2	27	6	1	44.8	17
06020N N/S												
0622N	170	5	18	11	203	0	0	11	0	0	195.0	17
06025N	426	18	16	75	629	61	8	25	13	0	131.0	35
06002S N/S												
06007S	81	5	18	4	216	17	0	14	4	0	122.0	6
06012S	5110	19	61	109	1680	69	12	64	12	30	142.0	156
06015S N/S												
06017S	348	49	65	47	1370	109	33	70	25	22	424.0	70
06020S N/S												
06022S	53	4	23	0	282	13	4	13	3	28	59.9	13
06025S N/S												
07002S	4380	24	36	128	1500	74	15	53	13	32	192.0	247
07005S	438	25	16	106	848	60	17	50	15	14	181.0	44
07007S	627	54	3	206	727	143	38	56	30	21	304.0	48
07010S	2810	24	20	81	1310	75	11	40	14	18	136.0	94
07012S	253	39	3	184	438	95	20	37	19	5	277.0	54
07015S	154	36	7	153	344	78	11	40	16	0	333.0	42
07017S 40MESH	136	5	92	64	833	3	0	42	7	0	13.6	12
07020S 40MESH	6190	19	77	68	877	81	7	47	9	12	22.2	32
07022S	50500	79	62	664	808	272	32	89	0	159	57.5	90
07025S	1340	11	26	38	335	39	7	18	6	3	78.5	54
07027S	564	3	25	8	234	24	1	12	2	2	34.5	9
07030S	371	2	32	8	121	6	0	8	1	3	23.4	12
07000N	468	25	49	53	584	81	12	34	13	8	364.0	58
07002N	86	3	18	5	124	25	0	6	1	0	143.0	19
07005N	306	37	4	98	302	51	0	37	9	0	278.0	25
07007N	273	43	18	48	358	85	16	44	16	0	379.0	37
07010N	59	4	30	8	367	26	0	16	3	0	67.0	17
07012N	939	31	64	115	735	61	5	47	14	0	179.0	44

PROJECT No: WEST HEMLO | 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE No: 3-917S/P1+2

ATTENTION: JOHN GREIG | (604)980-5814 OR (604)988-4524 | DATE: SEPTEMBER 12, 1983

(REPORT VALUES IN PPM)	BA	SE	AU-PPB
05000S	25	0	5
[redacted]2S 40MESH	107	314	5
05005S	34	7	10
05007S	35	4	5
05010S	151	463	15
05012S	450	740	5
05015S	60	371	10
05017S	61	149	10
05020S	40	48	15
05022S	121	166	5
05025S	79	179	5
05000N N/S			
0502N	86	275	10
05005N N/S			
05007N	45	227	15
05010N	133	400	5
05012N	41	68	10
05015N	32	118	15
05017N	59	158	5
05020N	82	335	10
05022N	39	49	5
05025N	26	22	5
05027N	89	254	10
05030N	126	153	5
06000N	82	406	5
06002N N/S			
06007N	107	357	5
06010N N/S			
06012N	59	7	5
06015N N/S			
06017N	84	187	5
06020N N/S			
0622N	29	71	10
06025N	51	229	5
06002S N/S			
06007S	28	40	5
06012S	142	372	10
06015S N/S			
06017S	116	551	5
06020S N/S			
06022S	33	42	5
06025S N/S			
07002S	158	353	5
07005S	72	333	5
07007S	43	579	10
07010S	86	326	5
07012S	25	311	5
07015S	25	295	10
07017S 40MESH	22	236	5
07020S 40MESH	160	342	5
07022S	1280	448	5
07025S	63	51	10
07027S	49	35	5
07030S	22	6	5
07000N	64	297	5
07002N	12	15	10
07005N	26	261	5
07007N	26	322	5
07010N	58	113	10
07012N	55	338	5

COMPANY: CUMBERLAND RESOURCES | MIN-EN LABS ICP REPORT | (ACT:GE03A+) PAGE 1 OF 3

PROJECT No: WEST HEMLO | 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE No: 3-9175/P3

ATTENTION: JOHN GREIG | (604)980-5814 OR (604)988-4524 | DATE: SEPTEMBER 12, 1983

(REPORT [illegible]LUES IN PPM)

	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
[illegible]5N	.6	15600	131	20	38	7540	2.3	37	26	113000	258	1830
07017N	1.3	27400	136	31	63	1900	2.4	42	53	202000	190	8050
07020N	.3	25700	7	24	24	2810	2.2	26	116	62600	373	2380
06027S	.3	14900	25	13	0	4340	1.7	7	23	18100	301	1930

PROJECT No: WEST HEMLO | 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE No: 3-917S/P3

ATTENTION: JOHN GREIG | (604)980-5814 OR (604)988-4524 | DATE: SEPTEMBER 12, 1983

(REPORT VALUES IN PPM)	MN	MO	MA	NI	P	PB	SB	SR	TH	U	V	ZN
07015N	485	22	33	51	492	61	4	32	11	6	190.0	66
[illegible]7N	1030	31	23	57	431	41	0	39	3	0	426.0	73
07020N	1420	16	49	31	1040	41	3	35	6	3	193.0	81
06027S	220	10	42	13	411	41	7	51	7	16	113.0	20

No: WEST HEMLO
N: JOHN GREIG

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2
(604)980-5814 OR (604)988-4524

FILE No: 3-917S/P3
DATE: SEPTEMBER 12, 1983

VALUES IN PPM	BA	SE	AU-PPB
7015N	63	407	5
7017N	77	415	5
7020N	102	242	5
6027S	103	181	5

MIN-EN Laboratories Ltd.

705 WEST 15th STREET,
NORTH VANCOUVER, B.C., CANADA V7M 1T2
TELEPHONE (604) 980-5814

ANALYTICAL REPORT

Project ..... Walsh Township ..... Date of report ..... Sept.5/83.

File No. ..... 3-819 ..... Date samples received ..... Aug.22/83.

Samples submitted by: ..... John Greig

Company: ..... Cumberland Resources

Report on: ..... 227 soils ..... Geochem samples

..... Assay samples

Copies sent to:

1. Cumberland Resources, Richmond, B.C.
2. .....
3. .....

Samples: Sieved to mesh ..... -80 ..... Ground to mesh .....

Prepared samples stored ☒ discarded ☐

rejects stored ☐ discarded ☒

Methods of analysis: 26 ICP. Au-aqua regia.A.A.

Remarks: .....

SPECIALISTS IN MINERAL ENVIRONMENTS

	0	6800	1	6	8	720	.4	1	5	23500	175	1160
620105S	0	52700	0	43	21	2620	2.2	23	112	80700	187	1241
620110S	0	5840	0	5	4	457	.7	2	12	12500	179	1472
620115S	0	7710	0	5	3	210	.2	1	6	6560	138	917
620120S	.6	10700	20	12	20	486	0	8	8	71800	209	2372
620125S	0	6750	0	5	1	37	.7	1	1	5360	93	851
620130S	0	11400	27	9	9	90	1.2	4	7	17000	175	2454
620135S	0	8290	0	6	1	59	0	1	2	4530	106	812
620140S	0	14000	47	12	13	59	1.3	5	6	29000	189	4140
620145S	.3	10500	0	12	13	3200	1.5	11	14	37600	261	4.70
620150S	.9	20300	18	23	14	22600	2.8	16	73	45500	419	8050
620155S	0	20700	55	19	19	348	3.4	9	14	41900	191	7550
620160N	.7	16800	259	24	48	392	5.6	49	96	105000	158	7010
620165S	.1	5280	0	3	1	515	0	2	39	17200	103	276
620170N	0	8640	13	8	7	292	1.7	3	37	16300	266	1440
620175N	.5	7170	0	6	13	762	0	4	9	53600	169	709
620180N	.5	11300	0	11	19	892	0	10	7	70400	991	5550
620185N	0	25600	0	23	13	491	1.8	6	31	41400	198	913
620140N	0	20600	24	18	18	536	.7	8	33	52800	268	1506
620145N	0	9410	14	8	9	613	1.7	5	20	16700	259	2503
620150S	0	8550	0	6	7	514	0	4	6	19500	208	2270
620155N	0	52700	0	47	40	763	1.4	19	22	130000	207	3010
620160N 40MESH	0	5000	6	6	0	963	.4	2	9	10800	133	393
640105S	0	20600	65	19	23	368	4.8	10	13	61000	150	17500
640110S	.4	10200	0	12	12	791	0	7	9	58100	377	2540
640115S	0	19500	55	20	19	494	2.8	14	29	73400	380	5090
640120S 40MESH	.3	7890	0	5	0	14200	.6	2	31	7930	61	858
640125S 40MESH	0	5490	0	6	0	16500	1.1	2	22	5180	27	1193
640130S	.2	6850	0	5	1	8830	1.5	3	44	5990	230	855
640135S	0	12300	18	11	7	440	1.8	4	3	14100	121	3600
640140S	0	5030	0	6	3	165	.7	1	0	4950	95	1110
640145S	0	13100	30	11	12	141	1.9	4	1	15900	173	6030
640150S	0	5530	0	4	1	191	.4	1	6	3720	195	713
640155S	.4	16500	30	14	19	3740	.9	11	15	62100	419	7290
660030N	0	9240	6	8	7	451	1.7	3	16	9500	239	2003
660035N	.8	12100	55	13	19	2330	2.5	13	12	42700	590	7060
660040N	0	25900	79	27	22	421	3.2	13	26	71200	319	5350
660045N	0	5650	0	6	11	573	0	4	17	37200	203	838
660020N	0	8350	0	6	8	1210	0	6	6	41300	761	3500
660025N 40MESH	0	5080	0	7	1	351	2.4	1	15	5340	314	592
660030N	0	19600	1	21	20	733	1.2	12	21	71000	554	3213
660035N	0	17900	10	15	14	376	1.4	6	14	54800	296	2770
660040N 40MESH	0	4400	0	6	2	293	.1	1	5	8580	147	607
660045N	0	10600	0	10	6	104	1.4	3	5	7440	191	1470
660050N	0	10900	0	7	6	157	1.7	2	5	5550	196	1830
660055N	0	8320	0	9	2	1260	1.1	3	17	6630	264	571
660005S	0	11700	0	10	7	599	1.9	3	58	12600	325	961
660010S	.2	12300	0	14	12	1100	0	7	16	40900	325	2920
660015S	0	5770	6	6	0	657	1.4	3	19	8250	187	1050
660020S	.3	20400	0	19	7	6910	2.4	8	47	17600	292	4100
660025S	0	15400	107	17	21	1150	3.9	14	17	55700	331	2973
660030S	1.6	32100	49	32	21	3200	3.7	14	48	69400	398	2011
660035S	0	9350	0	9	2	2720	1.0	2	36	9710	373	963
660040S	0	15100	0	12	5	2900	1.5	4	59	17100	369	2240
660045S	.1	7300	2	6	3	467	1.9	4	12	15000	350	2012
660050S	0	4740	0	5	1	137	.4	0	6	3400	169	819
660055S	.1	8160	0	10	8	521	1.8	5	11	20600	758	3550
700100N	0	21300	1	21	6	6750	2.5	9	67	25500	271	2510
700105N	0	11900	32	14	22	508	.7	9	11	71200	170	2760
700110N	.9	18100	3	19	21	1330	.7	13	11	78000	314	9570

COMINCO LIMITED LAND RESOURCES — MIN-EN LABS ICP REPORT — PAGE 2 OF

PROJECT: NEW WELSH TOWNSHIP — 212 WEST 15TH ST., NORTH VANCOUVER, B.C. V7M 1T2 — FILE NO: 0-0512 R-2

ATTENTION: JOHN GREG — (604)984-5814 OR (604)988-4524 — DATE: SEPTEMBER 2, 1987

SAMPLE	MO	CU	PB	ZN	NI	P	FE	MN	AS	SR	TH	U	V	CA
620105	43	6	37	6	125	15	0	6	3	0	77.2	2		
620155	151	15	37	59	1250	74	28	47	16	16	177.0			
620205	51	4	43	4	247	19	2	6	2	0	35.2	12		
620255	39	2	35	5	163	9	3	6	2	1	41.0	2		
620305	49	7	51	10	159	0	0	2	0	6	338.0	0		
620355	17	0	21	2	97	0	1	6	2	3	33.3	0		
620405	46	9	18	16	199	24	8	9	7	0	86.8	9		
620455	22	2	23	4	197	7	1	6	1	2	32.8	0		
620505	96	11	25	19	234	33	13	12	10	7	159.0	7		
620555	255	9 ✓	97	26	576	22	0	18	5	3	91.6	31		
620605	591	15 ✓	164	82	1030	33	8	115	10	33	141.0	11		
620655	145	17	55	32	249	42	16	18	14	0	151.0	20		
620705	982	36	23	121	717	101	33	21	35	17	211.0	68		
620755	44	0	47	1	284	1	0	3	0	6	33.3	1		
620805	65	2	46	11	559	32	2	6	3	0	67.5	16		
620855	80	2	35	0	80	0	0	0	0	0	245.0	0		
620905	146	8	52	18	86	0	0	2	0	0	193.0	3		
620955	50	13	34	11	662	38	15	20	10	10	235.0	5		
621005	82	12	53	11	321	18	7	15	6	8	359.0	1		
621055	91	5	33	15	383	22	4	10	5	0	124.0	30		
621105	63	3	37	13	195	9	0	9	1	10	67.5	4		
621155	122	14	54	26	568	30	19	32	14	4	355.0	0		
621205 40MESH	21	1 ✓	45	1	282	4 ✓	1	11	0	8	36.7	7		
640055	148	25	33	57	328	75	9	18	13	0	224.0	33		
640105	61	4	50	8	273	0	0	3	0	0	185.0	1		
640155	322	14	29	45	577	52	20	20	19	40	130.0	47		
640205 40MESH	25	2	53	17	739	6	2	90	2	17	32.3	1		
640255 40MESH	64	3	39	14	463	7	2	93	4	2	18.3	7		
640305	309	2	31	22	290	8	2	41	3	12	23.6	13		
640355	64	9	31	13	163	16	7	11	7	9	76.2	5		
640405	30	2	20	6	77	7	2	5	4	4	23.6	1		
640455	105	11	23	22	157	20	8	10	11	0	59.8	11		
640505	24	2 ✓	33	3	153	5	3	5	2	11	26.0	2		
640555	92	14 ✓	37	28	303	6	0	176	2	15	235.0	0		
640605	68	5	41	14	463	31	6	11	2	11	64.4	16		
660055	353	14	43	30	634	59	7	22	8	15	163.0	42		
660105	260	23	31	30	819	52	22	18	19	6	256.0	71		
660155	133	2	45	1	576	11	0	1	2	0	111.0	7		
660205	107	4	68	17	120	0	0	14	0	0	79.6	2		
660255 40MESH	31	1	55	8	484	59	1	14	1	0	23.2	46		
660705	397	13	54	18	554	29	5	13	7	0	266.0	33		
660755	88	10	39	13	207	35	9	15	8	3	176.0	17		
660805 40MESH	45	2	45	2	161	9	0	3	0	6	30.9	6		
660855	48	4	36	8	193	13	6	9	3	5	57.4	3		
660905	48	3 ✓	49	16	206	15	6	8	2	8	55.9	0		
660955	31	3 ✓	37	9	282	19	5	12	3	9	54.5	7		
661005	42	6	44	14	1090	40	6	13	3	0	47.3	18		
661055	77	7	69	14	206	4	0	13	1	5	100.0	0		
661105	50	2	51	11	479	44	1	11	1	2	84.7	17		
661205	146	6	105	42	1620	43	9	56	3	32	65.6	11		
661255	209	15	40	28	515	33	19	25	16	20	91.5	19		
661305	495	18	48	21	1460	41	24	44	16	24	228.0	0		
661355	29	4	59	13	974	30	2	27	1	15	38.5	10		
661405	62	6	51	24	1580	40	7	29	3	14	62.7	14		
661455	41	5	30	13	517	17	7	9	3	10	41.5	13		
661505	15	0	29	1	155	5	1	5	0	20	20.3	1		
661555	87	6 ✓	33	22	792	27 ✓	3	11	3	9	59.8	23		
700005	107	5	63	36	843	12	9	42	4	20	62.3	11		
700055	108	9	38	23	284	14	0	6	5	0	287.0	5		
700105	192	16	49	25	1388	20 ✓	1	15	3	14	228.0	17		

	SAMPLE (# EPM)	Au	Au	AU-PRE
	62000S	28	24	30
	62005S	105	132	10
	62010S	30	28	5
	62015S	26	7	5
	62020S	31	25	5
	62025S	17	0	5
	62030S	18	66	10
	62035S	15	5	5
	62040S	24	78	5
	62045S	37	51	10
	62050S	105	170	10
	62055N	25	108	10
	62010N	32	311	210
	62015N	32	0	5
	62020N	36	30	10
	62025N	41	0	5
	62030N	55	0	5
	62035N	52	103	5
	62040N	47	36	10
	62045N	46	40	5
	62050N	28	28	5
	62055N	42	131	<5
	62060N 40MESH	48	19	5 ✓
	64005S	20	98	5
	64010S	25	0	5
	64015S	63	137	5
	64020S 40MESH	114	88	10
	64025S 40MESH	117	72	5
	64030S	44	61	5
	64035S	15	40	5
	64040S	8	0	5
	64045S	17	64	10
	64050S	25	17	5
	64055S	72	49	5 ✓
	66000N	35	30	5
	66005N	92	74	5
	66010N	38	140	10
	66015N	29	9	15
	66020N	88	0	10
	66025N 40MESH	72	0	10
	66030N	54	62	10
	66035N	31	69	5
	66040N 40MESH	19	0	5
	66045N	35	18	40
	66050N	21	13	5
	66055N	58	21	10
	66005S	56	40	10
	66010S	43	13	5
	66015S	48	22	5
	66020S	109	83	5
	66025S	50	137	5
	66030S	79	157	10
	66035S	63	42	5
	66040S	80	34	10
	66045S	30	38	5
	66050S	22	0	10
	66055S	90	33	10 ✓
	70000N	79	78	10
	70005N	33	54	5
	70010N	43	54	5 ✓

[illegible] RESOURCES | MIN-EN LABS ICP REPORT | [illegible]
PROJECT NO: [illegible] TOWNSHIP | 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2 | FILE NO: [illegible]
ATTENTION: [illegible] | (604)980-5814 OR (604)988-4524 | DATE: [illegible]

(VALUES IN PPM)	AG	AL	AS	B	BI	CA	CD	CO	CU	FE	K	MG
[illegible] 20MESH	.7	17900	0	15	1	10900	1.7	2	96	9200	152	919
[illegible]20N	0	10200	0	9	3	5050	1.5	3	92	13000	254	1150
70025N	1.1	19900	0	19	17	7210	2.9	21	52	42700	469	3610
70030N	.1	13400	0	12	17	2300	.2	9	16	60400	305	4040
70035N	.3	11300	0	12	11	1900	0	7	8	43900	240	3010
70040N	.5	11000	0	8	7	450	.4	3	7	11000	234	1510
70045N	.1	18100	8	17	18	1720	1.2	14	31	51000	359	3890
70050N	0	9070	0	5	2	470	.1	2	10	15000	192	735
70055N	.2	2520	0	1	3	137	0	1	1	3400	118	309
70060N	.3	29400	0	29	19	7220	3.5	26	50	80700	217	5000
70065N	0	9640	0	9	7	439	.4	3	14	11000	254	1410
70070N	0	13000	0	11	7	7370	1.0	9	35	21200	300	2050
70005S	0	17000	0	13	8	302	.4	2	40	16500	462	1410
70010S	0	7280	0	6	7	231	.6	2	5	14600	255	2450
70015S	.5	19200	82	18	23	576	2.0	13	7	63500	241	14400
70020S	.5	20800	32	20	20	7500	2.0	11	32	57400	255	3920
68005S	.6	9660	30	11	19	939	.4	7	8	63600	265	1960
68000N	.3	22800	40	22	21	2700	2.4	29	43	78300	566	9700
68005N	0	33800	52	32	35	404	2.5	18	32	109000	788	8450
68010N	1.2	11300	43	10	16	575	1.4	9	5	54500	140	6300
68015N	.3	3290	0	3	2	470	.6	1	1	7280	150	352
68020N	0	5440	0	4	2	454	0	1	2	5990	126	246
68025N	.9	12900	0	15	4	18300	.9	7	52	9250	137	919
68030N	1.2	17800	44	20	21	3670	1.6	19	35	70400	356	7950
68035N	.2	18900	20	18	15	7240	2.3	10	131	45500	334	1570
68040N	1.3	22600	4	23	13	11800	2.8	19	91	37500	287	2570
68045N 40MESH	1.4	27300	0	27	11	10100	3.4	30	107	34600	346	1490
68050N	0	13700	27	12	12	459	1.7	4	11	36100	121	1300
68055N	.4	7960	16	5	8	745	1.3	5	15	21700	181	2570
68060N N/S												
68065N 40MESH	0	14300	0	11	0	3300	.3	1	39	4850	120	415
80000S N/S												
80005S	0	29300	0	25	17	8720	2.4	16	65	44200	138	4220
80010S	1.3	37500	0	36	16	20100	3.5	22	177	40300	179	2830
80015S	.1	8970	22	8	9	972	1.7	7	12	36700	217	4200
80020S	.3	16300	0	14	12	3020	.7	10	25	38700	393	2870
80025S	0	22400	0	19	21	686	.7	12	21	78000	212	6530
80030S	0	4600	0	3	1	84	0	0	5	4530	163	1050
80035S	0	29000	0	25	22	2700	3.8	27	104	55800	297	4070
80040S	0	10200	0	9	5	3240	.1	6	21	34300	167	2470
80045S N/S												
80050S N/S												
80055S	0	6270	0	7	0	8820	1.7	5	23	9060	104	890
72000N	0	17600	11	17	22	966	1.1	10	12	72700	272	3520
72005N	0	33500	0	31	21	1990	1.7	18	55	56100	434	4120
72010N 40MESH	0	2440	0	1	0	2760	.8	0	6	3240	99	350
72015N 40MESH	0	29200	0	25	0	30000	1.2	46	41	18100	42	547
72020N N/S												
72025N	.2	33500	0	30	19	4250	2.7	34	117	86200	340	9030
72030N	0	10300	0	8	9	1010	1.0	5	53	27900	330	1250
72035N	0	7810	0	6	2	487	.7	2	28	11800	189	729
72040N	0	9740	0	6	2	550	.1	2	32	8090	193	943
72045N	.2	6010	0	6	0	23800	1.0	1	29	7280	109	848
72050N	0	5450	0	3	7	636	0	3	7	11300	124	834
72055N	0	5750	0	5	2	370	.6	2	16	7930	145	1140
72005S	1.1	16700	20	17	21	601	1.1	11	46	64500	280	1740
72010S	.1	5120	0	5	2	415	.9	1	17	9220	249	725
72015S	1.4	12000	0	9	7	775	1.9	5	63	15000	344	1000
72020S	.9	9150	8	10	21	415	.0	9	9	85500	205	2470
72025S	.2	26500	20	26	15	11500	2.0	18	49	70400	170	6000
80000S 20MESH	0	3260	0	3	0	4690	.8	1	8	4690	195	510

(RESULT VALUES IN PPM)		MN	MG	NK	NI	P	PB	SR	SO	TH	U	V	ZN
70015N	20MESH	104	4	100	18	1440	15	9	55	0	65	71.2	4
[illegible]		45	3	68	27	454	17	4	36	2	14	74.7	3
70025N		769	13	54	36	1283	27	13	43	9	29	141.0	23
70030N		125	12	53	20	411	17	1	14	4	7	215.0	17
70035N		107	6	62	6	140	0	0	13	0	0	121.0	1
70040N		49	4	29	9	177	9	7	11	2	19	56.4	2
70045N		337	11	69	34	1230	36	4	18	6	16	202.0	19
70050N		33	2	44	3	225	1	2	10	1	3	45.3	0
700E5N		20	0	32	3	81	3	2	3	0	27	15.0	1
70060N		1590	18	91	49	1650	42	19	44	13	30	193.0	49
70065N		64	3	57	11	310	15	4	11	5	6	51.1	4
70070N		300	5	64	31	750	25	3	38	4	19	74.5	22
70035S		38	4	50	7	235	27	6	15	3	0	85.8	3
70010S		71	5	33	10	157	7	1	6	3	0	18.0	5
70015S		141	19	49	85	261	27	9	22	9	6	305.0	17
70020S		118	13	69	28	513	30	9	47	9	19	197.0	9
68005S		54	9	49	13	170	8	0	7	2	9	214.0	0
68030N		494	17	47	97	673	55	9	23	7	24	225.0	61
680C5N		227	22	54	47	461	42	10	17	9	12	283.0	25
68010N		76	11	30	28	151	11	1	10	0	31	125.0	3
68015N		34	0	49	1	95	4	2	12	0	19	13.8	0
68020N		45	0	55	2	212	0	1	13	0	12	17.8	0
68025N		278	2	67	27	1160	26	7	76	0	59	24.6	15
68030N		313	16	69	65	448	23	9	20	6	33	164.0	63
68035N		52	10	61	36	994	27	12	58	7	35	113.0	20
68040N		825	10	71	47	1500	43	14	42	7	56	126.0	69
6804SN	40MESH	1519	9	76	47	1730	44	14	61	7	55	86.7	33
68050N		41	7	35	11	279	23	9	12	6	16	185.0	0
6805SN		84	5	42	15	282	30	4	16	1	20	68.5	17
68060N	N/S												
68065N	40MESH	57	2	57	14	1810	9 ✓	1	19	1	0	24.1	14
80000S	N/S												
80005S		449	14	57	92	1530	22	13	49	10	7	112.0	83
80010S		1320	12	56	292	1890	32	23	56	6	73	97.6	252
80015S		163	10	26	19	299	16	2	9	3	2	125.0	23
80020S		101	6	40	25	535	10	0	30	4	0	90.4	35
80025S		166	12	45	33	269	14	0	17	4	0	166.0	6
80030S		19	3	50	4	238	8	0	4	2	0	17.6	3
80035S		626	15	67	68	994	43	16	40	13	0	148.0	59
80040S		141	5	43	16	226	8	0	26	3	0	87.0	9
80045S	N/S												
80050S	N/S												
80055S		204	5 ✓	97	14	694	22 ✓	3	62	3	0	15.0	27
72000N		154	12	48	16	440	14	3	14	5	0	294.0	7
72005N		165	12	63	42	402	24	12	38	9	0	130.0	3
72010N	40MESH	15	0	58	4	347	11	0	25	1	0	9.9	7
72015N	40MESH	850	3	52	27	677	6	11	59	5	30	35.6	0
72020N	N/S												
7202SN		423	19	42	81	777	34	12	43	11	23	229.0	31
72030N		77	6	49	17	661	21	0	11	2	0	80.3	23
7203SN		33	2	31	13	267	14	1	8	1	0	44.1	5
72040N		38	2	32	9	328	17	3	8	2	0	44.6	5
7204SN		32	3	49	16	845	5	1	94	4	12	13.8	21
72050N		29	1	27	6	150	9	0	8	0	1	43.4	3
7205SN		42	3	31	8	304	31 ✓	1	8	1	0	30.1	12
72060S		292	14	34	33	1030	21	5	12	3	5	210.0	7
72010S		23	2	36	7	363	12	2	11	0	8	39.8	5
72015S		41	6	44	25	651	49	7	19	3	5	55.7	17
72020S		53	9	51	8	230	0	0	3	0	0	334.0	0
72025S		261	17	45	52	695	29	10	70	10	28	217.0	19
81010S	20MESH	93	1	166	5	560	24 ✓	0	40	1	0	11.1	23

		85	80	5
	20MESH	93	70	5
		72	43	10
		109	130	10
70020N		72	37	5
70025N		59	9	5
70040N		35	16	10
70045N		139	44	5
70050N		52	11	5
70055N		14	0	10
70060N		66	167	5
70065N		50	14	5
70070N		105	72	5
70005S		71	15	10
70010S		21	25	5
70015S		43	72	5
70020S		74	115	10
65010S		36	35	5
65010N		74	65	5
65010E		49	102	5
65010W		19	36	10
65015E		30	0	5
65020W		30	0	5
65020E		121	102	10
65030W		67	93	5
65035E		109	123	5
65040W		119	123	10
65045W	40MESH	119	142	5
65050W		36	70	5
65055E		38	25	5
65060W	N/S			
65065W	40MESH	67	36	10 ✓
80000S	N/S			
80005S		109	117	5
80010S		130	178	5
80015S		53	41	5
80020S		92	64	10
80025S		31	37	5
80030S		21	0	5
80035S		137	146	10
80040S		53	5	5
80045S	N/S			
80050S	N/S			
80055S		105	44	5
72000W		43	52	5
72005W		117	85	10
72010W	40MESH	85	0	5
72015W	40MESH	52	135	5
72020W	N/S			
72025W		171	113	5
72030W		95	20	10
72035W		56	18	5
72040W		39	23	5
72045W		101	106	5
72050W		25	0	5
72055W		29	0	5 ✓
72060S		67	95	5
72010S		45	15	5
72015S		101	40	5
72020S		38	0	5
72025S		69	197	5
72030S	20MESH	53	44	5 ✓

[illegible] CONSULTANTS LTD.

[illegible] AND [illegible] TOWNSHIP

ATTENTION: JOHN SMITH

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	0	24700	52	22	21	816	2.7	9	17	52400	[illegible]	[illegible]
[illegible]	.6	19400	0	19	13	2970	1.7	17	25	36400	[illegible]	[illegible]
[illegible]	.5	7250	0	6	12	522	0	6	9	44700	[illegible]	[illegible]
[illegible]	.2	24700	35	22	18	6700	3.3	16	37	57100	[illegible]	[illegible]
[illegible]	1.1	20900	✓	25	20	7440	2.9	56	45	65100	[illegible]	[illegible]
[illegible]	0	10100	0	8	9	744	0	5	12	32800	[illegible]	[illegible]
[illegible]	0	9540	0	6	7	439	0	3	7	16300	167	[illegible]
[illegible]	0	29000	0	19	18	707	0	10	24	69100	[illegible]	[illegible]
[illegible]	0	20700	24	19	21	952	3.2	13	66	59100	[illegible]	[illegible]
[illegible]	.2	3710	0	1	1	546	0	2	6	20900	[illegible]	[illegible]
[illegible]	0	29400	33	30	41	907	2.8	20	21	124000	[illegible]	[illegible]
[illegible]	0	16600	21	16	27	1010	1.4	8	37	61300	[illegible]	[illegible]
[illegible]	0	3300	✓	2	3	154	.7	1	14	5950	[illegible]	[illegible]
[illegible]	.5	18900	15	19	17	9060	1.7	13	35	49400	[illegible]	[illegible]
[illegible]	.2	24700	0	24	20	11200	2.5	14	58	57100	[illegible]	[illegible]
[illegible]	.1	10500	0	9	9	1210	0	4	5	34800	[illegible]	[illegible]
[illegible]	.1	5030	0	4	7	2170	0	4	5	27300	117	[illegible]
[illegible]	.2	14400	0	13	18	4140	.4	13	28	62800	[illegible]	[illegible]
[illegible]	.2	9370	0	9	19	1240	.7	12	12	65900	[illegible]	[illegible]
[illegible]	1.5	9950	0	9	19	503	0	9	5	110000	[illegible]	[illegible]
[illegible]	0	8050	0	7	3	1340	1.5	4	33	12800	[illegible]	[illegible]
[illegible]	.2	4890	8	4	3	1330	.5	9	15	16300	[illegible]	[illegible]
[illegible]	0	40400	0	35	17	16700	3.1	20	109	40000	[illegible]	[illegible]
[illegible]	0	18900	0	16	9	1770	1.5	6	71	25100	[illegible]	[illegible]
[illegible]	0	20400	24	20	19	1080	3.9	26	39	59700	[illegible]	[illegible]
[illegible]	0	7040	0	6	2	1210	1.2	2	13	1.700	[illegible]	[illegible]
[illegible]	0	48800	0	42	20	3600	2.0	28	31	71100	[illegible]	[illegible]
[illegible]	0	8900	0	5	7	646	0	4	6	22400	[illegible]	[illegible]
[illegible]	0	3140	0	6	4	2050	1.2	1	10	7290	[illegible]	[illegible]
[illegible]	0	3780	0	4	3	121	.4	1	3	3886	[illegible]	[illegible]
[illegible]	0	2420	0	2	1	464	.9	1	2	3670	[illegible]	[illegible]
[illegible]	.3	11400	0	11	6	4290	2.7	9	28	12900	[illegible]	[illegible]
[illegible]	0	25700	90	25	21	4210	5.0	26	9	69900	[illegible]	[illegible]
[illegible]	1.6	14900	0	15	6	1740	1.1	5	27	25400	[illegible]	[illegible]
[illegible]	0	5150	0	5	2	214	.1	2	3	8886	[illegible]	[illegible]
[illegible]	.2	5390	0	6	2	699	.6	1	13	7120	[illegible]	[illegible]
[illegible]	0	434	✓	0	0	0	0	0	0	1130	18	[illegible]
[illegible]	0	3820	0	5	0	625	.4	0	9	3540	[illegible]	[illegible]
[illegible]	0	14100	0	13	19	4910	0	11	12	70100	[illegible]	[illegible]
[illegible]	0	5420	0	5	2	1720	1.2	3	10	24400	[illegible]	[illegible]
[illegible]	0	3840	0	6	0	959	0	0	1	14200	[illegible]	[illegible]
[illegible]	0	15590	0	16	21	1390	1.0	13	4	80500	[illegible]	[illegible]
[illegible]	0	20000	0	21	17	2240	1.8	15	35	64900	[illegible]	[illegible]
[illegible]	0	6700	0	4	10	105	0	6	3	84500	[illegible]	[illegible]
[illegible]	0	12400	0	10	0	1283	.7	2	8	18800	[illegible]	[illegible]
[illegible]	0	3050	0	1	0	426	.2	0	1	6630	[illegible]	[illegible]
[illegible]	0	23600	0	22	18	315	1.0	8	13	53900	[illegible]	[illegible]
[illegible]	1.0	27500	0	27	10	4940	3.4	20	87	75100	[illegible]	[illegible]
[illegible]	0	14700	25	14	13	709	2.8	13	14	45300	[illegible]	[illegible]
[illegible]	0	18200	103	20	22	396	3.6	11	17	65500	[illegible]	[illegible]
[illegible]	0	9980	0	8	6	817	0	3	3	27300	[illegible]	[illegible]
[illegible]	0	3150	0	4	0	3500	1.1	1	14	6830	[illegible]	[illegible]
[illegible]	.2	10400	0	9	12	1640	0	7	4	88200	[illegible]	[illegible]
[illegible]	0	5200	0	6	0	2540	2.5	2	15	10300	[illegible]	[illegible]
[illegible]	0	2550	0	3	1	833	.7	2	5	16600	[illegible]	[illegible]
[illegible]	.1	5100	0	6	6	1240	0	4	7	31100	[illegible]	[illegible]
[illegible]	.2	8970	0	9	6	740	0	2	9	27700	[illegible]	[illegible]
[illegible]	0	6680	0	5	2	240	0	1	4	13600	[illegible]	[illegible]
[illegible]	1	4780	✓	5	2	1330	1.5	2	7	6630	[illegible]	[illegible]
[illegible]	0	5990	0	4	1	154	0	0	2	3870	[illegible]	[illegible]

		113	17	31	30	286	11	23	27	18	7	190.0		23
		452	12	68	25	904	37	11	73	5	11	176.0		2
		85	1	39	4	187	2	0	3	0	0	114.0		14
7213BS		497	14	40	35	825	47	19	74	15	21	143.0		42
7205BS		2600	13	45	82	1460	43 ✓	18	59	11	25	227.0		20
84015N		100	5	54	8	177	0	0	7	0	6	66.8		1
84010N		100	4	39	2	210	6	2	7	1	1	46.3		4
84015N		93	11	52	16	269	18	2	13	6	0	219.0		7
84020N		249	14	40	23	779	43	13	19	9	13	215.0		27
8402EN		19	1	37	0	105	0	0	0	0	1	39.3		0
84030N		193	23	21	66	319	30	5	18	4	2	420.0		0
84035N		37	13	30	18	632	27	8	15	9	9	173.0		0
84040N		23	1	32	5	152	6 ✓	0	4	0	4	23.2		4
76005N		325	16	93	53	1010	25	8	50	9	19	132.0		54
76010N		1240	27	79	33	1800	21	21	120	9	43	152.0		63
7621EN		57	5	54	5	178	0	2	12	1	9	84.6		0
76020N		71	3	46	6	319	0	0	9	0	1	63.7		6
7602EN		225	11	48	28	443	11	0	25	2	0	180.0		28
76030N		255	7	47	13	196	1	0	9	0	0	158.0		41
7603EN		260	9	132	0	11	0	0	12	0	3	36.4		24
76040N		66	5	45	16	426	20	3	16	2	9	41.0		19
76045N		47	4	39	14	593	26	3	12	2	7	61.6		13
7604EN		258	11	53	90	1280	23	23	88	11	37	85.6		34
76055N		86	9	58	49	678	37	12	25	7	12	71.4		19
76060N		346	16	48	29	988	47	15	21	10	8	188.0		18
7606EC		69	2	53	5	245	28	0	14	2	0	25.4		49
7606ES		517	13	47	41	1070	19	19	48	9	10	181.0		0
7607EC		48	2	26	2	143	0	0	12	0	2	87.3		0
7607ES		45	3	27	10	953	43	0	9	1	0	20.7		49
7608EC		24	1	30	1	206	11	1	3	0	5	20.7		4
7608ES		56	1	28	5	253	16	1	5	1	0	16.4		16
76030S		578	4	51	19	997	34	5	59	3	9	47.5		39
7603EE		204	24	50	165	633	54	16	70	17	5	267.0		25
76040S		65	9	51	13	1140	28	4	26	3	0	82.9		19
7604ES		36	0	36	7	104	2	0	5	0	2	31.8		6
7605EC		76	1	43	4	425	67 ✓	3	10	0	11	37.4		19
7605ES		3	0 ✓	7	0	14	0 ✓	0	0	0	4	2.9		0
79000N		47	0	30	3	386	61	0	6	2	0	23.6		12
7900EN		136	5	95	20	122	10	0	31	0	0	171.0		19
79010N		65	0	40	10	437	23	0	23	0	0	57.6		25
7901EN		59	0	51	0	259	14	0	10	0	0	26.3		16
79120N		907	7	44	15	697	20	0	14	3	0	185.6		66
7902EN		388	19	59	22	793	44	17	45	16	0	249.0		4
79030N		94	0	15	0	46	0	0	0	0	0	207.0		11
7903EN		71	2	82	8	386	9	0	8	4	0	66.7		11
79040N		41	0	30	2	94	0	0	0	0	0	21.0		4
79045N		111	9	35	17	282	16	12	14	10	0	220.0		0
79050N	40NEEH	2060	15	87	55	2210	29	21	43	8	17	118.0		7
7905EN		133	14	45	22	298	26	7	14	10	0	231.0		15
79060N		115	17	31	26	750	44 ✓	23	15	18	0	147.0		10
7906EN		32	1	47	1	116	0 ✓	0	7	0	0	61.7		0
79006S	40NEEH	19	1	34	11	454	15	0	20	2	0	22.4		10
7901CS		120	5	56	14	107	1	0	17	0	0	135.0		3
7901ES	40NEEH	59	3	69	8	742	46	3	14	1	5	32.8		19
790209		16	1	40	4	269	19	0	4	0	0	27.2		16
7902BS		55	2	61	8	149	0	0	12	0	6	67.5		2
7903CS		34	0	52	1	421	10	0	9	0	0	73.1		0
7903DS		25	0	32	0	162	1	0	7	0	2	47.3		1
7903ES		37	2	31	10	537	28	4	15	2	0	26.8		25
7904BS		31	1	36	4	115	1 ✓	1	6	1	9	21.9		1

[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	33	115	110
[illegible] 40MESH	99	69	10
720410	41	0	5
720458	92	177	5
720508	113	175	10
64005N	29	10	5
64010N	31	12	5
64015N	47	56	5
64020N	71	82	5
64025N	14	0	5
64030N	68	48	5
64035N	69	91	5
64040N	24	0	15
76005N	94	123	5
76010N	126	165	5
76015N	49	6	5
76020N	24	16	5
76025N	114	27	5
76030N	125	9	10
76035N	44	0	5
76040N	51	32	5
76045N	59	26	5
76050N	115	181	5
76055N	151	52	5
76060N	71	116	5 ✓
76005S	71	17	10
76010S	122	87	5
76015S	34	0	10
76020S	67	37	10
76025S	21	0	5
76030S	34	0	5
76035S	118	45	5
76040S	53	155	10
76045S	79	55	5
76050S	19	0	5
76055S	60	0	15
76060S	3	0	5 ✓
78005N	58	0	10
78010N	90	14	5
78015N	75	31	5
78015N	74	0	5
78022N	57	65	10
78025N	97	191	5
78030N	31	0	10
78035N	48	29	5
78040N	25	0	5
78045N	29	85	5
78050N 40MESH	85	143	<5
78055N	64	60	5
78060N	45	167	15
78005S	18	4	5
78010S 40MESH	149	52	5
78015S	69	0	10
78015S 40MESH	95	46	10
78020S	41	9	5
78025S	32	0	5
78030S	33	0	5
78035S	31	0	10
78040S	67	48	10 ✓
78045S	24	0	145 ✓

[illegible] ANALYTICAL LABORATORIES

[illegible] ANALYTICAL LABORATORIES

705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2

ATTENTION: [illegible]

(604)986-5814 OR (604)988-4524

SAMPLE #	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U
[illegible]	.1	5000	0	4	7	686	0	2	2	20400	201	700
730955	0	4730	0	4	1	350	0	1	3	4050	220	610
730609	.1	8920	0	10	6	2720	1.6	13	14	17600	356	1470
B0000N	.9	24900	0	24	43	4990	.9	28	26	135300	714	15000
B0005N	0	15000	26	21	19	609	.9	11	14	102000	377	1990
B0010N	0	18100	5	17	12	453	1.3	8	8	49000	121	1250
B0015N	0	4170	0	4	2	105	0	0	1	7440	117	700
B0020N	.2	31300	170	35	54	2410	2.1	29	132	159000	293	5120
B0025N LOWEST	0	7050	0	5	4	937	0	3	12	20900	239	870
B0030N	0	11800	53	12	14	372	2.1	19	12	40900	255	1870
B0035N	0	5760	0	4	7	70	.2	2	2	13900	109	2150
B0040N LOWEST	0	17600	0	13	9	4930	1.9	9	36	6630	71	710
B0045N	0	21600	163	24	20	1070	4.0	23	33	91600	330	7470
B0050N	0	6450	0	6	3	1220	.4	3	22	10900	276	1070
B0055N	.1	20000	124	24	28	1030	3.4	24	27	94500	535	7240
B0060N	.1	5480	0	3	3	624	.7	1	7	18400	192	940
B0105S LOWEST	0	12900	0	14	5	11700	1.1	5	45	12900	114	1160
B0100S LOWEST	0	22900	0	18	4	14400	1.1	5	55	11800	117	1240
B0095S	0	8340	0	6	5	510	.3	2	24	13100	297	1151
B0090S	0	17700	0	15	8	1930	1.3	9	79	22300	257	2141
B0085S	.1	12200	37	17	21	577	1.1	12	12	79000	447	5441
B0080S	0	18500	81	22	35	633	2.0	16	16	110000	383	4230
B0075S	N/S											
B0070S	0	17400	40	15	15	37	2.2	6	8	27500	175	4800
B0065S	0	15600	8	12	8	76	1.7	5	13	22800	172	3540
B0060S	.8	14000	0	12	6	5310	1.8	8	99	15000	209	1763
B0105E	.6	16200	5	16	18	1520	.9	20	29	49400	391	1790
B0100E	0	17300	0	14	17	1250	0	8	9	65200	314	4090
B0095E	0	22600	102	25	20	1100	3.3	15	27	89200	198	1670
B0090E	.4	24500	0	23	19	1040	.5	16	10	102000	709	10810
B0085E	0	17300	52	15	14	475	2.4	7	10	38000	155	4930
B0080E	0	4470	0	4	1	315	.6	1	1	7120	133	1010
B0075E	0	23100	13	23	19	5990	2.0	20	16	90800	1110	10810
B0040S	.2	16300	31	16	19	3780	2.6	12	31	41300	374	4540
B0045S	1.9	22000	16	22	15	3940	2.8	13	37	44700	442	6760
B2000N	0	8870	0	6	7	2210	.4	6	8	29900	159	2850
B2005N	0	11800	0	8	12	896	.1	6	9	41900	260	3100
B2010N	.3	10200	0	9	12	594	0	10	11	79100	255	3671
B2015N	0	6210	0	3	0	508	.1	0	9	7770	126	368
B2020N	0	3570	0	0	0	226	0	0	2	12100	82	340
B2025N	0	27500	28	25	22	3360	2.9	12	32	57000	203	2810
B2030N	0	7250	0	4	0	194	0	0	6	3890	217	720
B2035N	0	35830	5	33	20	8920	4.8	31	69	66700	800	12800
B2040N	0	10900	0	9	6	2010	1.3	4	20	22300	283	3510
B2045N	0	35700	109	36	42	1910	4.3	21	58	108000	244	5030
B2050N	0	27500	169	34	49	3120	5.6	45	27	126000	279	2590
B2055N	0	29000	219	34	54	1360	7.6	43	29	140000	191	2690
B2060N	0	11600	57	12	16	589	1.9	11	18	39000	249	1790
B4000N	0	25000	0	24	20	5470	2.7	28	34	52800	180	2950
B4005N	0	5870	0	3	1	309	0	2	10	27100	155	450
B4010N	0	5030	0	2	3	248	.1	3	3	22500	160	1560
B4015N	0	8460	0	5	2	532	.7	1	19	12300	755	960
B4020N	0	14700	0	11	6	105	.8	5	5	27500	225	2250

[illegible] THE WEST 15th ST., NORTH VANCOUVER, B.C. [illegible]

[illegible] (604)980-5814 OR (604)986-4524

[illegible]

[illegible]	MP	AB	H	BB	R	PA	SB	BF	PO	A	W	AV
[illegible]	72	0	40	3	111	10	0	6	2	1	28.1	0
[illegible]	36	0	24	2	177	15	0	5	2	0	24.0	5
[illegible]	520	5	45	17	1100	42	5	21	7	0	67.8	23
90000N	712	17	91	25	706	4	0	34	5	0	323.0	21
[illegible]	79	11	31	10	440	12	6	13	9	0	301.0	6
90010N	39	5	32	4	356	17	7	12	6	0	159.0	0
90015N	22	0	24	0	92	0	0	4	1	1	27.0	0
90020N	402	26	80	25	1280	39	22	18	26	10	741.0	54
90025N 40MESH	28	2	47	6	332	17	0	9	0	2	53.3	4
90030N	123	12	26	25	239	29	8	11	12	0	123.0	22
90035N	42	3	26	5	101	8	1	4	1	2	49.7	1
90040N 40MESH	176	2	49	14	1080	14	7	42	2	8	21.9	4
90045N	454	25	25	43	739	52	25	25	24	6	310.0	26
90050N	74	4	33	14	547	39	2	12	2	0	64.9	23
90055N	1081	20	57	31	965	51	20	23	16	19	398.0	27
90060N	42	1	40	2	148	1 ✓	0	1	0	10	53.0	0
82005S 40MESH	269	2	97	27	1253	27	5	54	2	14	41.7	31
82010S 40MESH	51	3	49	28	1570	14	9	88	1	49	27.0	0
82015S	28	1	31	6	505	11	0	8	0	0	51.1	6
82020S	92	6	38	29	1030	31	8	25	7	0	66.8	25
82025S	193	13	44	20	402	20	1	10	8	0	253.0	27
82030S	251	17	51	24	587	34	11	14	15	0	243.0	15
82035S N/S												
82040S	74	8	29	24	240	25	13	13	11	6	82.7	9
82045S	46	7	28	17	229	24	10	11	9	7	75.1	7
82050S	136	8 ✓	77	67	1140	17 ✓	8	61	4	19	33.8	6
84035S	546	10	49	17	707	49	6	23	5	9	180.0	16
84010S	73	3	59	9	255	4	0	19	0	0	176.0	0
84015S	74	21	41	31	482	43	19	26	20	10	164.0	0
84020S	148	13	48	24	219	25	0	29	2	0	355.0	2
84025S	91	14	30	22	370	41	16	15	15	0	126.0	11
84030S	45	1	22	4	127	4	0	2	2	0	21.6	3
84035S	491	15	68	32	587	15	4	49	11	0	221.0	67
84040S	162	10	44	45	477	16	11	42	11	15	102.0	15
84045S	425	13	58	42	970	32 ✓	13	46	10	7	186.0	15
82000N	87	3	57	13	460	0	0	10	3	2	77.6	3
82005N	69	7	47	10	187	8	0	8	1	2	97.9	2
82010N	66	5	62	2	187	3	0	1	0	0	340.0	1
82015N	13	0	36	5	427	4	0	7	0	0	21.2	2
82020N	9	0	17	0	70	0	0	1	0	0	31.8	1
82025N	24	12	28	33	1150	19	15	37	13	4	181.0	9
82030N	22	0	26	2	213	6	2	8	2	1	27.0	4
82035N	971	17	42	62	1200	47	20	72	15	20	225.0	46
82040N	90	5	50	17	329	11	1	15	7	5	56.7	15
82045N	356	26	45	46	963	57	37	57	29	13	145.0	87
82050N	1640	29	37	52	1140	69	37	33	32	14	176.0	82
82055N	869	35	32	51	1610	70	39	29	36	13	223.0	78
82060N	342	15	19	31	787	47	15	13	12	1	107.0	33
84000N	1640	15	48	49	1150	62	19	42	12	11	171.0	45
84005N	26	0	22	1	206	5	0	5	0	0	74.7	0
84010N	44	1	22	4	67	1	0	2	0	0	62.7	0
84015N	32	2	41	8	634	15	0	8	1	0	44.9	6
84020N	52	5	24	11	168	9	7	11	6	2	92.3	2

		17	1	5
		71	9	15
		46	43	5 ✓
B0603N		114	97	10
B0605N		49	101	15
B0610N		24	50	5
B0615N		21	0	10
B0620N		64	261	5
B0625N	40MESH	44	0	5
B0630N		22	75	5
B0635N		14	14	10
B0640N	40MESH	67	97	10
B0645N		68	231	5
B0650N		55	35	5
B0655N		44	217	10
B0660N		25	1	5
B0805S	40MESH	126	119	5
B0810S	40MESH	215	138	5
B0815S		53	10	5
B0820S		87	73	5
B0825S		42	77	10
B0830S		63	113	30
B0835S	N/S			
B0840S		25	86	5
B0845S		32	67	10
B0850S		107	92	25
B1005S		93	54	5
B1010S		35	9	5
B1015S		99	215	10
B1020S		67	57	5
B1025S		29	121	10
B1030S		21	0	5
B1035S		118	129	5
B1040S		59	129	10
B1045S		73	130	10
B2005N		28	19	5
B2010N		39	0	15
B2015N		45	3	10
B2020N		38	0	5
B2025N		19	0	5
B2030N		91	176	5
B2035N		27	0	10
B2040N		144	217	5
B2045N		65	29	5
B2050N		76	311	15
B2055N		92	339	10
B2060N		86	374	5
B4005N		43	87	5
B4010N		106	184	5
B4015N		27	0	25
B4020N		21	0	15
B4025N		38	23	10
B4030N		28	15	5

W8404.176

#17

2.6(

Ministry of Natural Resources
Ontario

Report of Work
(Geophysical, Geological, Geochemical and Expenditures)

42D15NE0034 2.6648 WALSH

900

File: 659175

The Mining Act

— Do not use shaded areas below.

Type of Survey(s): GEOCHEMICAL	Township or Area: TURRI (G-635) + WALSH TWPS. (G-636)
Claim Holder(s): CUMBERLAND RESOURCES LIMITED	Prospector's Licence No.: T-1303
Address: 74 WINNIPEG AVE. THUNDER BAY P7B3P9	
Survey Company: CUMBERLAND RESOURCES LIMITED	Date of Survey (from & to): 11 MAY 83 / 19 AUG 83 (Day / Mo. / Yr.)
Total Miles of line Cut: 65.4KM	
Name and Address of Author (of Geo-Technical report): WILLIAM McCRINDLE, 74 WINNIPEG AVE, THUNDER BAY P7B3P9	

Credits Requested per Each Claim in Columns at right

		Days per Claim
Special Provisions: For first survey: Enter 40 days. (This includes line cutting) For each additional survey: using the same grid: Enter 20 days (for each)	Geophysical	
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	40
Man Days: Complete reverse side and enter total(s) here	Geophysical	Days per Claim
	- Electromagnetic	
	- Magnetometer	
	- Radiometric	
	- Other	
	Geological	
	Geochemical	
Airborne Credits: Note: Special provisions credits do not apply to Airborne Surveys.		Days per Claim
	Electromagnetic	
	Magnetometer	
	Radiometric	

Mining Claims Traversed (List in numerical sequence)

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.
T.B.	673631	
	673632	
	673633	
	673634	
	673635	
	673636	
	673637	
	673638	
	673639	
	673640	
	673641	
	673642	
	673643	
	673644	
	673645	
	673646	
	673647	
	673648	
	75 CLAIMS ON ATTACHED LIST	
	See Revised Statement	

Mining Claim Prefix	Mining Claim Number	Expend. Days Cr.

Total number of mining claims covered by this report of work: 93

Expenditures (excludes power stripping)

Type of Work Performed:

Performed on Claim(s):

Calculation of Expenditure Days Credits

Total Expenditures: $ ÷ 15 = Total Days Credits

Instructions
Total Days Credits may be apportioned at the claim holder's choice. Enter number of days credits per claim selected in columns at right.

For Office Use Only

Total Days Cr. Recorded	Date Recorded	Mining Recorder
3720	Sept. 4/84	Audrey M. Hawes

Date	Recorded Holder or Agent (Signature)
MAR. 5, 1983	W McCrindle

Certification Verifying Report of Work

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

Name and Postal Address of Person Certifying:
WILLIAM McCRINDLE 74 WINNIPEG AVE.
THUNDER BAY. ONT. P7B3P9

Date Certified	Certified by (Signature)
MAR. 5, 1983	William McCrindle

1362 (81/9)

CUMBERLAND RESOURCES LTD.

AREA PROJECT	CLAIM NUMBER
Sturgeon Lake Property	PA604159
Sturgeon Lake Property	PA604160
Sturgeon Lake Property	PA604161
Sturgeon Lake Property	PA604162
West Hemlo - Tuuri Property	TB659175
West Hemlo - Tuuri Property	TB659176
West Hemlo - Tuuri Property	TB659177
West Hemlo - Tuuri Property	TB659178
West Hemlo - Tuuri Property	TB659179
West Hemlo - Tuuri Property	TB659180
West Hemlo - Tuuri Property	TB659181
West Hemlo - Tuuri Property	TB659182
West Hemlo - Tuuri Property	TB659183
West Hemlo - Tuuri Property	TB659184
West Hemlo - Tuuri Property	TB659185
West Hemlo - Tuuri Property	TB659186
West Hemlo - Tuuri Property	TB569187
West Hemlo - Tuuri Property	TB659188
West Hemlo - Tuuri Property	TB659189
West Hemlo - Tuuri Property	TB659190
West Hemlo - Tuuri Property	TB659191
West Hemlo - Tuuri Property	TB659192
West Hemlo - Tuuri Property	TB659193
West Hemlo - Tuuri Property	TB659194
West Hemlo - Tuuri Property	TB659195
West Hemlo - Tuuri Property	TB659196
West Hemlo - Tuuri Property	TB659197
West Hemlo - Tuuri Property	TB659198
West Hemlo - Tuuri Property	TB659199

CUMBERLAND RESOURCES LTD.

AREA PROJECT	CLAIM NUMBER
est Hemlo - Tuuri Property	TB659200
West Hemlo - Tuuri Property	TB659501
West Hemlo - Tuuri Property	TB659502
West Hemlo - Tuuri Property	TB659503
West Hemlo - Tuuri Property	TB659504
West Hemlo - Tuuri Property	TB659505
West Hemlo - Tuuri Property	TB659506
West Hemlo - Tuuri Property	TB659507
West Hemlo - Tuuri Property	TB659508
West Hemlo - Tuuri Property	TB659583
West Hemlo - Tuuri Property	TB659584
West Hemlo - Tuuri Property	TB659585
West Hemlo - Tuuri Property	TB659586
West Hemlo - Tuuri Property	TB659587
West Hemlo - Tuuri Property	TB659589
West Hemlo - Tuuri Property	TB659590
West Hemlo - Tuuri Property	TB659591
.st Hemlo - Tuuri Property	TB659592
West Hemlo - Tuuri Property	TB659593
West Hemlo - Tuuri Property	TB659595
West Hemlo - Tuuri Property	TB659596
West Hemlo - Tuuri Property	TB659597
West Hemlo - Tuuri Property	TB659598
West Hemlo - Tuuri Property	TB659599
West Hemlo - Tuuri Property	TB659600
West Hemlo - Tuuri Property	TB673604
West Hemlo - Tuuri Property	TB673605
West Hemlo - Tuuri Property	TB673606
West Hemlo - Tuuri Property	TB673607

CUMBERLAND RESOURCES LTD.

AREA PROJECT	CLAIM NUMBER
West Hemlo - Tuuri Property	TB673608
West Hemlo - Tuuri Property	TB673609
West Hemlo - Tuuri Property	TB673610
West Hemlo - Tuuri Property	TB673611
West Hemlo - Tuuri Property	TB673612
West Hemlo - Tuuri Property	TB673613
West Hemlo - Tuuri Property	TB673614
West Hemlo - Tuuri Property	TB673615
West Hemlo - Tuuri Property	TB673617
West Hemlo - Tuuri Property	TB673618
West Hemlo - Tuuri Property	TB673619
West Hemlo - Tuuri Property	TB673620
West Hemlo - Tuuri Property	TB673621
West Hemlo - Tuuri Property	TB673622
West Hemlo - Tuuri Property	TB673649
West Hemlo - Tuuri Property	TB673650
West Hemlo - Tuuri Property	TB673651
West Hemlo - Tuuri Property	TB673652
West Hemlo - Tuuri Property	TB673653
West Hemlo - Tuuri Property	TB673654
West Hemlo - Tuuri Property	TB673655
West Hemlo - Walsh Property	TB673631
West Hemlo - Walsh Property	TB673632
West Hemlo - Walsh Property	TB673633
West Hemlo - Walsh Property	TB673634
West Hemlo - Walsh Property	TB673635
West Hemlo - Walsh Property	TB673636
West Hemlo - Walsh Property	TB673637
West Hemlo - Walsh Property	TB673638

Ontario

Ministry of Natural Resources

File _____

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT
FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT
TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

Type of Survey(s) GEOCHEMICAL

Township or Area TURRIFF & WALSH TOWNSHIPS

Claim Holder(s) CUMBERLAND RESOURCES LTD.

Survey Company CUMBERLAND RESOURCES LTD

Author of Report WILLIAM McCRINDLE

Address of Author 74 WINNIPEG AVE. THUNDER BAY

Covering Dates of Survey MAY 11 - AUG. 19, 1983
(linecutting to office)

Total Miles of Line Cut 65 KM

SPECIAL PROVISIONS CREDITS REQUESTED

ENTER 40 days (includes line cutting) for first survey.

ENTER 20 days for each additional survey using same grid.

DAYS per claim

Geophysical
–Electromagnetic _____
–Magnetometer _____
–Radiometric _____
–Other _____
Geological _____
Geochemical 40

AIRBORNE CREDITS (Special provision credits do not apply to airborne surveys)

Magnetometer _____ Electromagnetic _____ Radiometric _____
(enter days per claim)

DATE: MARCH 5, 1984 SIGNATURE: William McCrindle
Author of Report or Agent

Res. Geol. _____ Qualifications _____

Previous Surveys

File No.	Type	Date	Claim Holder

THUNDER BAY MINING DIVISION
RECEIVED
1984
AM 7 8 9 10 11 12 1 2 3 4 5 6 PM
25080

MINING CLAIMS TRAVERSED
List numerically

If space insufficient, attach list

(prefix)	(number)
T.B.	673631
	673632
	673633
	673634
	673635
	673636
	673639
	673638
	673639
	673640
	673641
	673642
	673643
	673644
	673645
	673646
	673647
	673648

+75 CLAIMS ON ATTACHED LIST

TOTAL CLAIMS 93

OFFICE USE ONLY

837 (5/79)

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS – If more than one survey, specify data for each type of survey

Number of Stations _____ Number of Readings _____

Station interval _____ Line spacing _____

Profile scale _____

Contour interval _____

MAGNETIC

Instrument _____

Accuracy – Scale constant _____

Diurnal correction method _____

Base Station check-in interval (hours) _____

Base Station location and value _____

_____

ELECTROMAGNETIC

Instrument _____

Coil configuration _____

Coil separation _____

Accuracy _____

Method: ☐ Fixed transmitter ☐ Shoot back ☐ In line ☐ Parallel line

Frequency _____
(specify V.L.F. station)

Parameters measured _____

GRAVITY

Instrument _____

Scale constant _____

Corrections made _____

_____

Base station value and location _____

_____

Elevation accuracy _____

INDUCED POLARIZATION RESISTIVITY

Instrument _____

Method ☐ Time Domain ☐ Frequency Domain

Parameters – On time _____ Frequency _____

– Off time _____ Range _____

– Delay time _____

– Integration time _____

Power _____

Electrode array _____

Electrode spacing _____

Type of electrode _____

SELF POTENTIAL

Instrument _____ Range _____

Survey Method _____

_____

Corrections made _____

_____

RADIOMETRIC

Instrument _____

Values measured _____

Energy windows (levels) _____

Height of instrument _____ Background Count _____

Size of detector _____

Overburden _____

(type, depth – include outcrop map)

OTHERS (SEISMIC, DRILL WELL LOGGING ETC.)

Type of survey _____

Instrument _____

Accuracy _____

Parameters measured _____

_____

Additional information (for understanding results) _____

_____

_____

AIRBORNE SURVEYS

Type of survey(s) _____

Instrument(s) _____

(specify for each type of survey)

Accuracy _____

(specify for each type of survey)

Aircraft used _____

Sensor altitude _____

Navigation and flight path recovery method _____

_____

Aircraft altitude _____ Line Spacing _____

Miles flown over total area _____ Over claims only _____

GEOCHEMICAL SURVEY – PROCEDURE RECORD

Numbers of claims from which samples taken 93

Total Number of Samples 1481

Type of Sample B HORIZON SOIL
(Nature of Material)

Average Sample Weight 400 gr.

Method of Collection GRUB HOE & HAND

Soil Horizon Sampled B

Horizon Development WELL DEVELOPED

Sample Depth 25-50 CM

Terrain RELIEF 200M.

Drainage Development YOUTHFUL

Estimated Range of Overburden Thickness 0-3M

SAMPLE PREPARATION
(Includes drying, screening, crushing, ashing)

Mesh size of fraction used for analysis SUN DRIED IN THE FIELD SCREENED -80 MESH

General

ANALYTICAL METHODS

Values expressed in: per cent ☐ p. p. m. ☑ p. p. b. ☑ Au ONLY

(Cu) (Pb) (Zn) (Ni) (Co) (Ag) (Mo) (As) (circle)

Others AL B Ba Bi Ca Cd Fe K Mg Mn

Field Analysis (NA P Sb Sr Th V U S tests)

Extraction Method

Analytical Method

Reagents Used

Field Laboratory Analysis

No. (tests)

Extraction Method

Analytical Method

Reagents Used

Commercial Laboratory (tests)

Name of Laboratory MIN-EN LAB (UBC.)

Extraction Method I.C.P } 26 elements

Analytical Method I.C.P

Reagents Used I.C.P

General

I.C.P = Inductively coupled argon plasma

GOLD - AQUA-REGIA

CUMBERLAND RESOURCES LTD.

AREA PROJECT	CLAIM NUMBER
Sturgeon Lake Property	PA604159
Sturgeon Lake Property	PA604160
Sturgeon Lake Property	PA604161
Sturgeon Lake Property	PA604162
West Hemlo - Tuuri Property	TB659175
West Hemlo - Tuuri Property	TB659176
West Hemlo - Tuuri Property	TB659177
West Hemlo - Tuuri Property	TB659178
West Hemlo - Tuuri Property	TB659179
West Hemlo - Tuuri Property	TB659180
West Hemlo - Tuuri Property	TB659181
West Hemlo - Tuuri Property	TB659182
West Hemlo - Tuuri Property	TB659183
West Hemlo - Tuuri Property	TB659184
West Hemlo - Tuuri Property	TB659185
West Hemlo - Tuuri Property	TB659186
West Hemlo - Tuuri Property	TB569187
West Hemlo - Tuuri Property	TB659188
West Hemlo - Tuuri Property	TB659189
West Hemlo - Tuuri Property	TB659190
West Hemlo - Tuuri Property	TB659191
West Hemlo - Tuuri Property	TB659192
West Hemlo - Tuuri Property	TB659193
West Hemlo - Tuuri Property	TB659194
West Hemlo - Tuuri Property	TB659195
West Hemlo - Tuuri Property	TB659196
West Hemlo - Tuuri Property	TB659197
West Hemlo - Tuuri Property	TB659198
West Hemlo - Tuuri Property	TB659199

CUMBERLAND RESOURCES LTD.

AREA PROJECT	CLAIM NUMBER
West Hemlo - Tuuri Property	TB659200
West Hemlo - Tuuri Property	TB659501
West Hemlo - Tuuri Property	TB659502
West Hemlo - Tuuri Property	TB659503
West Hemlo - Tuuri Property	TB659504
West Hemlo - Tuuri Property	TB659505
West Hemlo - Tuuri Property	TB659506
West Hemlo - Tuuri Property	TB659507
West Hemlo - Tuuri Property	TB659508
West Hemlo - Tuuri Property	TB659583
West Hemlo - Tuuri Property	TB659584
West Hemlo - Tuuri Property	TB659585
West Hemlo - Tuuri Property	TB659586
West Hemlo - Tuuri Property	TB659587
West Hemlo - Tuuri Property	TB659589
West Hemlo - Tuuri Property	TB659590
West Hemlo - Tuuri Property	TB659591
West Hemlo - Tuuri Property	TB659592
West Hemlo - Tuuri Property	TB659593
West Hemlo - Tuuri Property	TB659595
West Hemlo - Tuuri Property	TB659596
West Hemlo - Tuuri Property	TB659597
West Hemlo - Tuuri Property	TB659598
West Hemlo - Tuuri Property	TB659599
West Hemlo - Tuuri Property	TB659600
West Hemlo - Tuuri Property	TB673604
West Hemlo - Tuuri Property	TB673605
West Hemlo - Tuuri Property	TB673606
West Hemlo - Tuuri Property	TB673607

CUMBERLAND RESOURCES LTD.

AREA PROJECT	CLAIM NUMBER
West Hemlo - Tuuri Property	TB673608
West Hemlo - Tuuri Property	TB673609
West Hemlo - Tuuri Property	TB673610
West Hemlo - Tuuri Property	TB673611
West Hemlo - Tuuri Property	TB673612
West Hemlo - Tuuri Property	TB673613
West Hemlo - Tuuri Property	TB673614
West Hemlo - Tuuri Property	TB673615
West Hemlo - Tuuri Property	TB673617
West Hemlo - Tuuri Property	TB673618
West Hemlo - Tuuri Property	TB673619
West Hemlo - Tuuri Property	TB673620
West Hemlo - Tuuri Property	TB673621
West Hemlo - Tuuri Property	TB673622
West Hemlo - Tuuri Property	TB673649
West Hemlo - Tuuri Property	TB673650
West Hemlo - Tuuri Property	TB673651
West Hemlo - Tuuri Property	TB673652
West Hemlo - Tuuri Property	TB673653
West Hemlo - Tuuri Property	TB673654
West Hemlo - Tuuri Property	TB673655
West Hemlo - Walsh Property	TB673631
West Hemlo - Walsh Property	TB673632
West Hemlo - Walsh Property	TB673633
West Hemlo - Walsh Property	TB673634
West Hemlo - Walsh Property	TB673635
West Hemlo - Walsh Property	TB673636
West Hemlo - Walsh Property	TB673637
West Hemlo - Walsh Property	TB673638

Mining Lands Section

File No 2.6648

Control Sheet

TYPE OF SURVEY

____ GEOPHYSICAL

____ GEOLOGICAL

✓ GEOCHEMICAL

____ EXPENDITURE

MINING LANDS COMMENTS:

maps not signed

L.D. Logd.

J. Hurst

Signature of Assessor

July 2/84.

Date

1984 10 10

Your File: 176
Our File: 2.6648

Mining Recorder
Ministry of Natural Resources
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Madam:

RE: Notice of Intent dated September 14, 1984
Geochemical Survey on Mining Claims TB 673631
et al in the Townships of Turri and Walsh

The assessment work credits, as listed with the above-mentioned Notice of Intent, have been approved as of the above date.

Please inform the recorded holder of these mining claims and so indicate on your records.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-4888

S. Hurst:mc

cc: Cumberland Resources Limited
74 Winnipeg Avenue
Thunder Bay, Ontario
P7B 3P9

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

cc: Resident Geolggist
Thunder Bay, Ontario

Encl.

Ministry of Natural Resources
Ontario

Technical Assessment Work Credits

AMENDED

File 2.6648

Date 1984 09 14

Mining Recorder's Report of Work No. 176

Recorded Holder
CUMBERLAND RESOURCES LIMITED

Township or Area
TURRI AND WALSH TOWNSHIPS

Type of survey and number of Assessment days credit per claim	Mining Claims Assessed
Geophysical Electromagnetic _____ days Magnetometer _____ days Radiometric _____ days Induced polarization _____ days Other _____ days Section 77 (19) See "Mining Claims Assessed" column Geological _____ days Geochemical 26 days Man days ☐ Airborne ☐ Special provision ☒ Ground ☒ ☒ Credits have been reduced because of partial coverage of claims. ☐ Credits have been reduced because of corrections to work dates and figures of applicant.	TB 673631 to 645 inclusive 659176-77-78 659181 to 199 inclusive 659501 to 504 inclusive 659507-08 659584-85-86-87 659589 to 593 inclusive 659595 to 600 inclusive 673604 to 615 inclusive 673617 to 621 inclusive 673650 to 655 inclusive

Special credits under section 77 (16) for the following mining claims

No credits have been allowed for the following mining claims

☒ not sufficiently covered by the survey

TB 673646-47-48
659175-79-80
659200
659505
659583
673649

☒ Insufficient technical data filed

TB 659506
673622

The Mining Recorder may reduce the above credits if necessary in order that the total number of approved assessment days recorded on each claim does not exceed the maximum allowed as follows: Geophysical — 80; Geological — 40; Geochemical — 40; Section 77(19)—60:

828 (83/6)

Ministry of Natural Resources

Oct 1/84

AMENDED

1984 09 14

Your File: 176
Our File: 2.6648

Mining Recorder
Ministry of Natural Resources
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Madam:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

RJP S. Hurst:mc

Encls.

cc: Cumberland Resources Limited
74 Winnipeg Avenue
Thunder Bay, Ontario
P7B 3P9

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

845

Ministry of Natural Resources
Ontario

AMENDED

Notice of Intent

for Technical Reports

1984 09 14

2.6648/176

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

Ministry of
Natural
Resources

Ontario

Sept 20/84

1984 09 05

Your File: 176
Our File: 2.6648

Mrs. A.M. Hayes
Mining Recorder
Ministry of Natural Resources
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Madam:

Enclosed are two copies of a Notice of Intent with statements listing a reduced rate of assessment work credits to be allowed for a technical survey. Please forward one copy to the recorded holder of the claims and retain the other. In approximately fifteen days from the above date, a final letter of approval of these credits will be sent to you. On receipt of the approval letter, you may then change the work entries on the claim record sheets.

For further information, if required, please contact Mr. R.J. Pichette at 416/965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3

S. Hurst:mc

Encls.

cc: Cumberland Resources Limited
74 Winnipeg Avenue
Thunder Bay, Ontario
P7B 3P9

cc: Mr. G.H. Ferguson
Mining & Lands Commissioner
Toronto, Ontario

Ministry of Natural Resources

Ontario

Notice of Intent

for Technical Reports

1984 09 05

2.6648/176

An examination of your survey report indicates that the requirements of The Ontario Mining Act have not been fully met to warrant maximum assessment work credits. This notice is merely a warning that you will not be allowed the number of assessment work days credits that you expected and also that in approximately 15 days from the above date, the mining recorder will be authorized to change the entries on his record sheets to agree with the enclosed statement. Please note that until such time as the recorder actually changes the entry on the record sheet, the status of the claim remains unchanged.

If you are of the opinion that these changes by the mining recorder will jeopardize your claims, you may during the next fifteen days apply to the Mining and Lands Commissioner for an extension of time. Abstracts should be sent with your application.

If the reduced rate of credits does not jeopardize the status of the claims then you need not seek relief from the Mining and Lands Commissioner and this Notice of Intent may be disregarded.

If your survey was submitted and assessed under the "Special Provision-Performance and Coverage" method and you are of the opinion that a re-appraisal under the "Man-days" method would result in the approval of a greater number of days credit per claim, you may, within the said fifteen day period, submit assessment work breakdowns listing the employees names, addresses and the dates and hours they worked. The new work breakdowns should be submitted direct to the Land Management Branch, Toronto. The report will be re-assessed and a new statement of credits based on actual days worked will be issued.

Telephone
(807) 344-6150

Cumberland Resources Limited
74 Winnipeg Avenue,
THUNDER BAY, ONTARIO
P7B 3P9

2.6648
dup

Aug. 24/84

S.E. Yunot,
Land Management Branch
Whitney Block, Rm 6643
Queen's Park
Toronto

RECEIVED
AUG 28 1984
MINING LANDS SECTION

Dear Mr. Yunot:

Re: File #2.6648

Your department returned the enclosed maps for signatures today. All signatures are now in place as requested.

Yours truly

William McArdle

August 20, 1984 File: 2.6648

Cumberland Resources Limited
74 Winnipeg Avenue
Thunder Bay, Ontario
P7B 3P9

Dear Sirs:

RE: Geochemical Survey submitted on Mining Claims
TB 678631 et al in the Township of Turri and
Walsh

Returned herein are the plans (in duplicate) for the above-mentioned survey. Please have the author of the report sign each copy and return the material to this office quoting file 2.6648.

For further information, please contact Mr. Ray Pichette at (416)965-4888.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone:(416)965-4888

S. Hurst:mc

cc: Mining Recorder
Thunder Bay, Ontario

Encl.

1984 05 09

Your File: 176
Our File: 2.6648

Mrs. Audrey Hayes
Mining Recorder
Ministry of Natural Resources
P.O. Box 5000
Thunder Bay, Ontario
P7C 5G6

Dear Madam:

We have received reports and maps for a Geochemical Survey submitted under Special Provisions (credit for Performance and Coverage) on Mining Claims TB 673631 et al in the Townships of Turri and Walsh.

This material will be examined and assessed and a statement of assessment work credits will be issued.

Yours sincerely,

S.E. Yundt
Director
Land Management Branch

Whitney Block, Room 6643
Queen's Park
Toronto, Ontario
M7A 1W3
Phone: (416) 965-6918

A. Barr:sc

cc: Cumberland Resources Limited
74 Winnipeg Avenue
Thunder Bay,. Ontario
P7B 3P9
Attn: William McCrindle.

2.6648

673631	1/2			659189	1/2			659597	1/2		
32	1/2			90	1/2			98	3/4		
33	1/2			91	1/4			99	1/2		
34	3/4			92	1/2			600	1/2		
35	1/2			93	1/2			673604	3/4		
36	1/2			94	3/4			5	1/2		
37	1/2			95	1/4			6	3/4		
38	3/4			96	1/2			7	3/4		
39	3/4			97	1/2			8	1/2		
40	1/2			98	1/2			9	1/2		
41	1/2			99	1/2			10	3/4		
42	1/2			200	Ø			11	1/2		
43	3/4			659501	3/4			12	1/2		
44	1/2			2	1/2			13	1/2		
45	1/2			3	1/2			14	✓		
46	Ø			4	3/4			15	✓		
47	Ø			5	Ø			* 17	1/4		
48	Ø			6	N.S.			18	3/4		
659175	Ø			7	1/2			19	3/4		
76	1/2			8	3/4			20	1/2		
77	1/2			659583	Ø			21	3/4		
78	1/2			84	1/2			22	N.S		
79	Ø			85	1/2			49	Ø		
80	Ø			86	1/2			50	3/4		
81	3/4			* 87	1/2			51	3/4		
82	1/2			* 89	1/2			52	1/2		
83	1/2			90	1/2			53	3/4		
84	1/2			91	1/2			54	1/2		
85	1/2			92	1/2			55	1/2		
86	3/4			93	1/2						
87	3/4			* 95	1/2						
88	1/2			96	1/2						

93 claims
2 ~~not shown~~
10 ~~NC~~

~~91 claims~~

81 claims

55 x 1/2 = 27.5
19 x 3/4 = 14.25
3 x 1/4 = .75

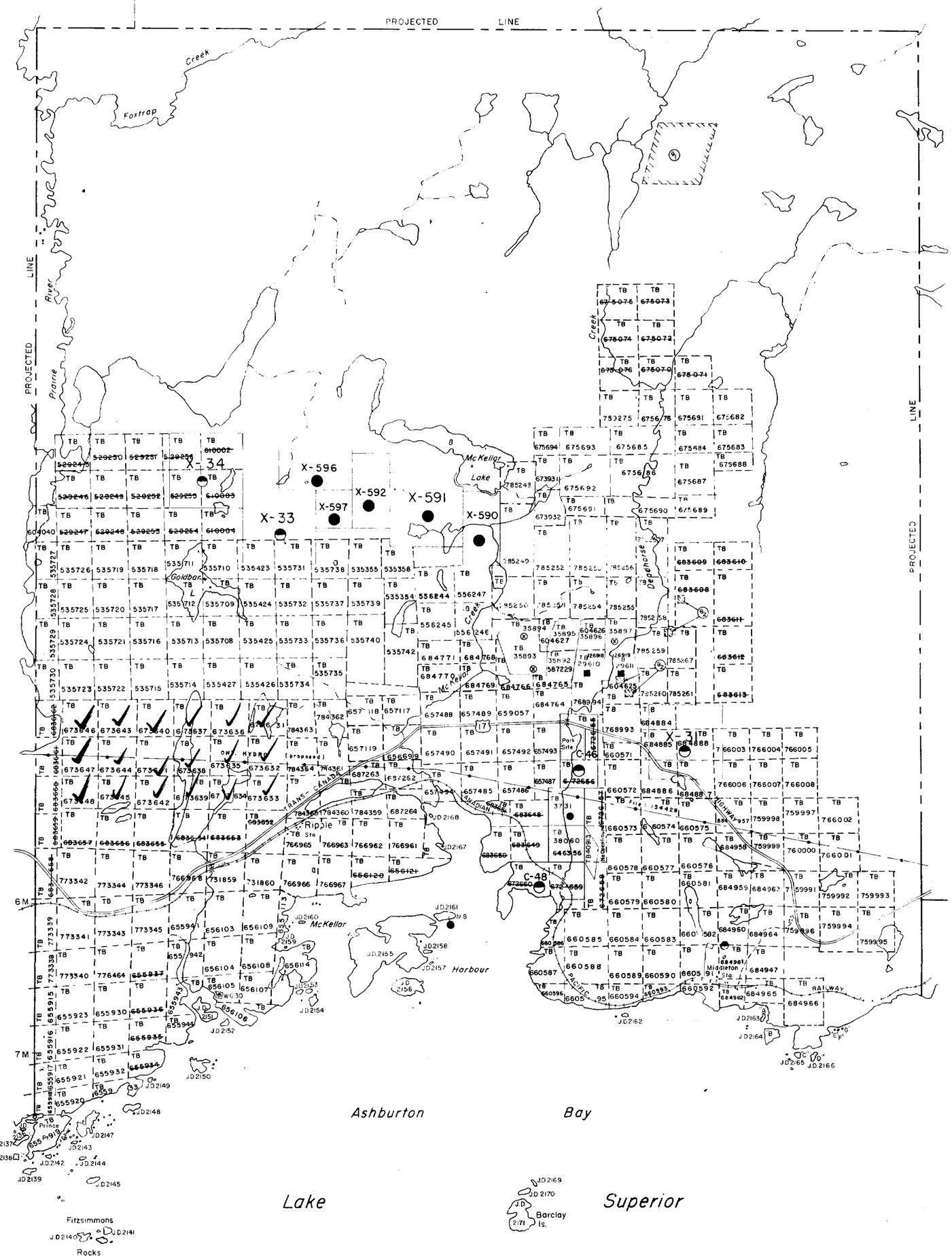
42.5
81

123.5

81 x 40 = 3240

3240 ÷ 123.5 = 26

Foxtrap Lake Area G-592



TUURI TP. G-635

GRAIN TP. G-628

COLDWELL TP. G-613&G-598

SAND & GRAVEL

(S1) M.N.R. GRAVEL RES. No. 220 FILE 126338
(S2) GRAVEL FILE 126338

AREAS WITHDRAWN FROM DISPOSITION

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

Description	Order No.	Date	Disposition	File

DATE OF ISSUE
AUG 1 1984
Ministry of Natural Resources
TORONTO

LEGEND

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

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" , SURFACE RIGHTS ONLY	◒
" , MINING RIGHTS ONLY	◒
LEASE, SURFACE & MINING RIGHTS	■
" , SURFACE RIGHTS ONLY	■
" , MINING RIGHTS ONLY	■
LICENCE OF OCCUPATION	▼
ORDER-IN-COUNCIL	OC
RESERVATION	(R)
CANCELLED	⊗
SAND & GRAVEL	(S)

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC 1.

SCALE: 1 INCH = 40 CHAINS

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

TOWNSHIP

WALSH TWP

M.N.R. ADMINISTRATIVE DISTRICT

TERRACE BAY

MINING DIVISION

THUNDER BAY

LAND TITLES / REGISTRY DIVISION

THUNDER BAY

Ontario Ministry of Natural Resources — Land Management Branch

Date	Number
MARCH 1982	G-636

Bob K

42D15NE0034 2.6648 WALSH

SANTOY LAKE G-612

(TWP 82) SYINE G-634

(TWP 80) WALSH G-636

PROJECTED LINE

PROJECTED LINE

Santoy Lake

Steel L.

Prairie Cove

Prince Pt.

Ashburton Bay

Lake Superior

Bottle Cove

Bottle Pt.

Cork Cove

Steel River

Rapids

STEEL STA.

TRANSMISSION LINE

PARK SITE

CPR

49°45'

86°45'

JBK

REFERENCES

SAND & GRAVEL

(9₁) M.T.C GRAVEL PIT 44
(9₂) " " " 121
(9₃) " " " 122
(9₄) " " " 89

DATE OF ISSUE
AUG 7 1984
Ministry of Natural Resources
TORONTO

LEGEND

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

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT, SURFACE & MINING RIGHTS	●
" SURFACE RIGHTS ONLY	◒
" MINING RIGHTS ONLY	◓
LEASE, SURFACE & MINING RIGHTS	■
" SURFACE RIGHTS ONLY	◪
" MINING RIGHTS ONLY	◨
ORDER IN COUNCIL	▼
RESERVATIONS	®
CANCELLED	⊗
SAND & GRAVEL	⑥

NOTE: MINING RIGHTS IN PARCELS PATENTED PRIOR TO MAY 6, 1913, VESTED IN ORIGINAL PATENTEE BY THE PUBLIC LANDS ACT, R.S.O. 1970, CHAP. 380, SEC. 63, SUBSEC. 1

SCALE: 1 INCH = 40 CHAINS

1 : 20000
0 1000 2000 4000 6000 8000 METRES
0 500 1000 2000 FEET
0 1 KM. 2 KMS.

TOWNSHIP

TUURI

M.N.R. ADMINISTRATIVE DISTRICT

TERRACE BAY

MINING DIVISION

THUNDER BAY

LAND TITLES / REGISTRY DIVISION

THUNDER BAY

Ontario Ministry of Natural Resources — Land Management Branch

Date: MARCH 1982

Number: G-635

42015NE0034 2.6648 WALSH

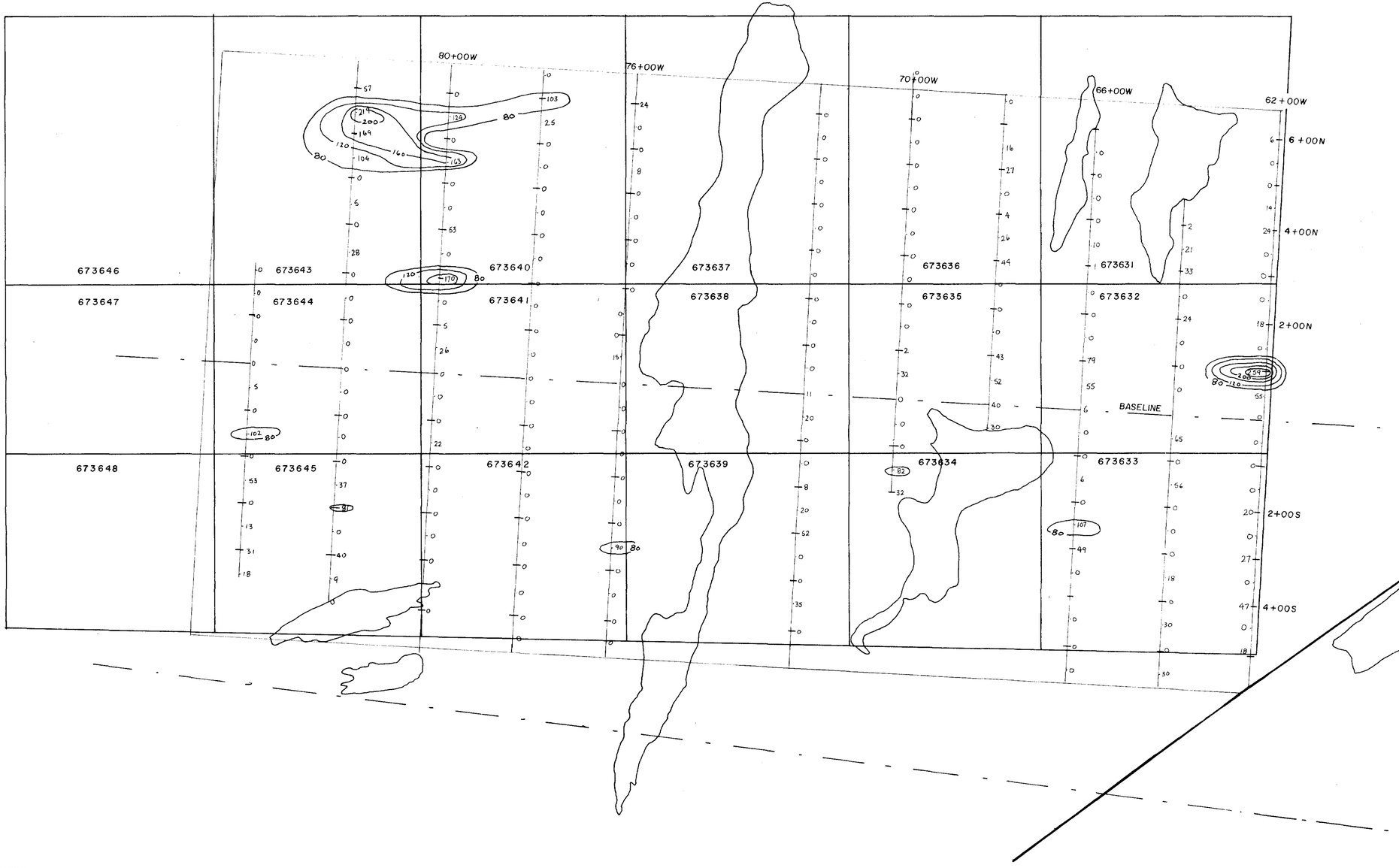
LEGEND

- Geochemical Anomaly
- Mo — element anomaly, mean + 3 standard deviations
- BA/5 — element anomaly, mean + 5 standard deviations
- AS/10 — element anomaly, mean + 10 standard deviations
- property boundary

Cumberland Resources Limited

TURRI TOWNSHIP
EASTERN PORTION OF PROPERTY

map title: GEOCHEMICAL ANOMALY FREQUENCY & INTENSITY COMPOSITE MAP	scale: 1:5000
	date: JAN 1984
	interpretation by: WMC
	map no.: 5



LEGEND

- powerline
- grid line / soil sample location
- 12 Geochemical Assay P.P.M.
- >80 Anomaly
- 40 P.P.M. Isoline Interval

N

NOTES

SAMPLE INTERVAL - 50.M.
GRID LINES MEASURED AND PICKETED
'B' HORIZON - 80 MESH SAMPLE
I.C.P. LABORATORY ANALYSIS (INDUCTION COUPLED ARGON PLASMA)

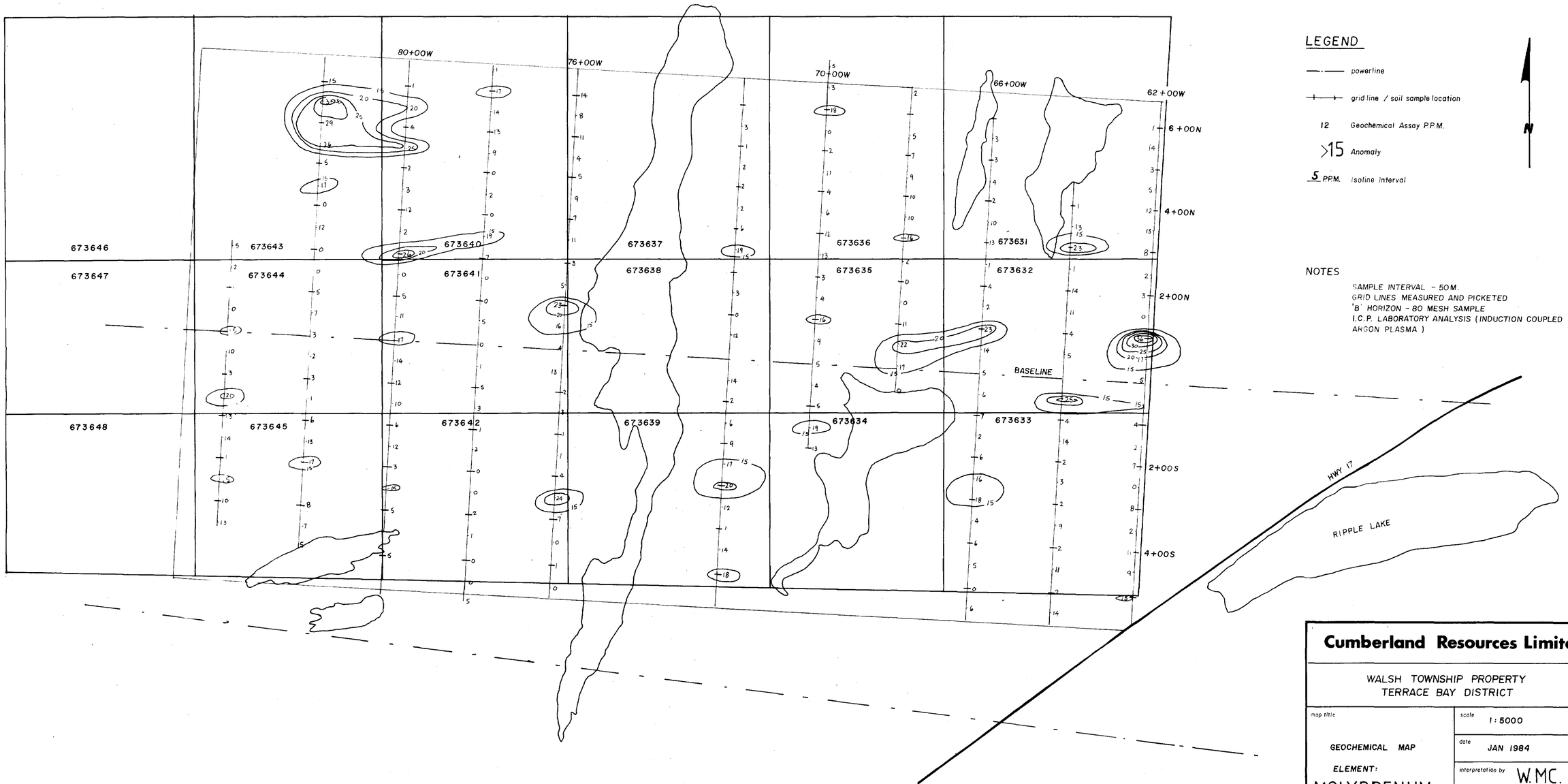
Cumberland Resources Limited

WALSH TOWNSHIP PROPERTY
TERRACE BAY DISTRICT

map title	scale
GEOCHEMICAL MAP ELEMENT: ARSENIC	1 : 5000
	date JAN 1984
	interpretation by W.M.C.
	map no. 6

42D15NE0034 2.6648 WALSH

230



LEGEND

- powerline
- grid line / soil sample location
- 12 Geochemical Assay P.P.M.
- >15 Anomaly
- 5 P.P.M. Isoline Interval

N

NOTES

SAMPLE INTERVAL - 50M.
GRID LINES MEASURED AND PICKETED
'B' HORIZON - 80 MESH SAMPLE
I.C.P. LABORATORY ANALYSIS (INDUCTION COUPLED ARGON PLASMA)

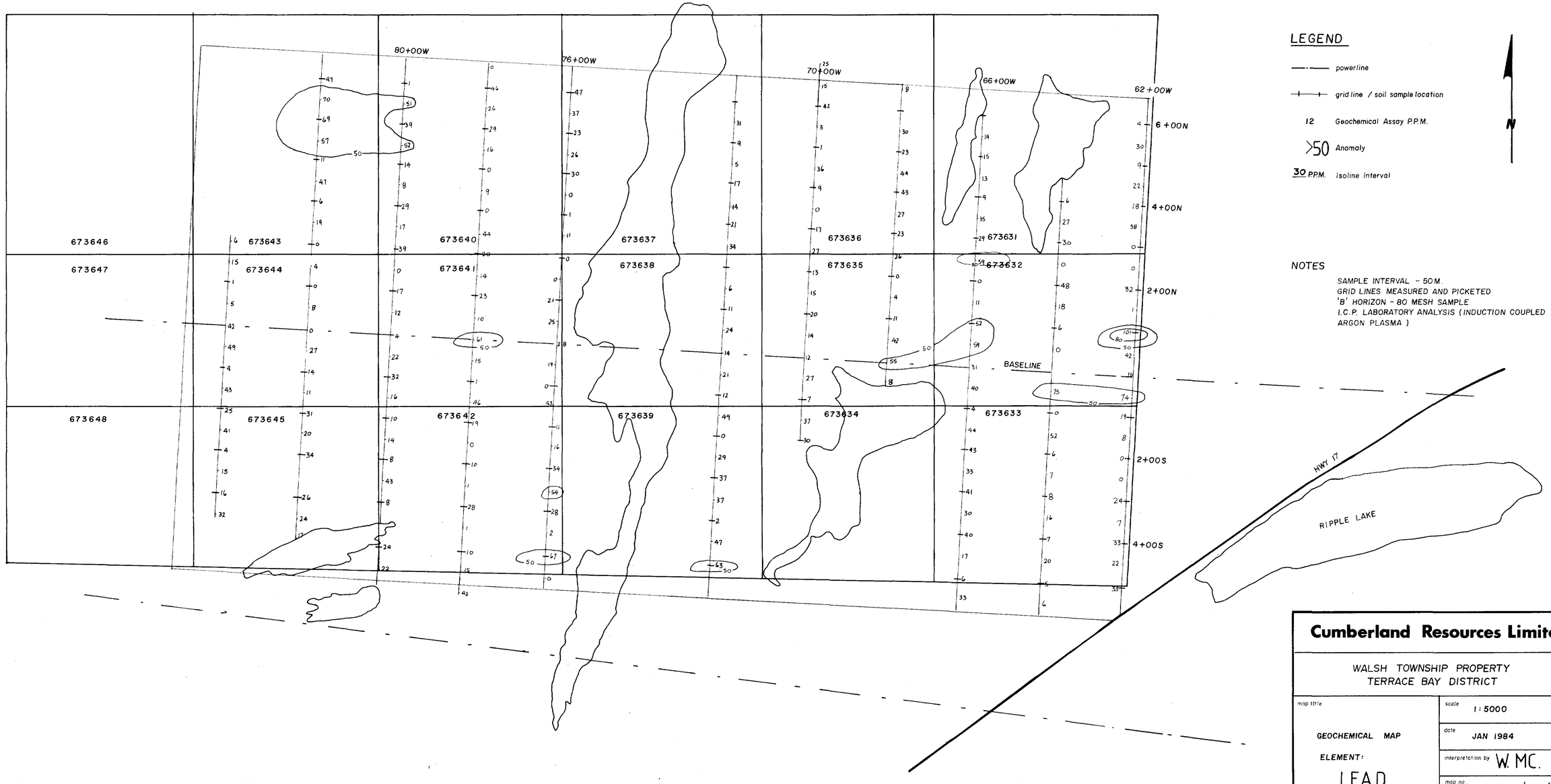
Cumberland Resources Limited

WALSH TOWNSHIP PROPERTY
TERRACE BAY DISTRICT

map title: GEOCHEMICAL MAP ELEMENT: MOLYBDENUM	scale: 1:5000 date: JAN 1984 interpretation by: W.MC. map no: 7

42D15NE0034 2.6848 WALSH

240



LEGEND

- powerline
- grid line / soil sample location
- 12 Geochemical Assay P.P.M.
- >50 Anomaly
- 30 P.P.M. Isoline Interval

N

NOTES

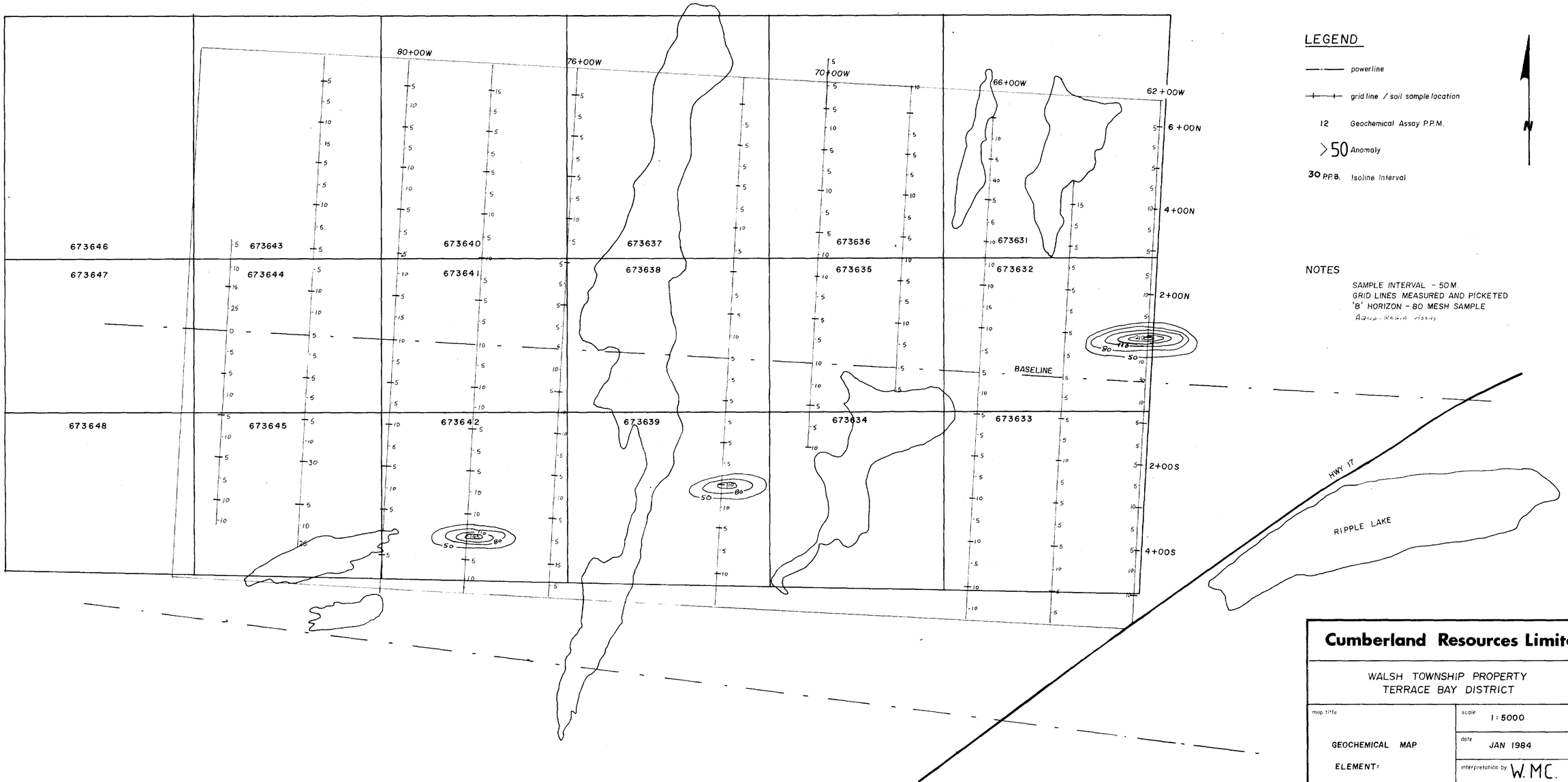
SAMPLE INTERVAL - 50 M.
GRID LINES MEASURED AND PICKETED
'B' HORIZON - 80 MESH SAMPLE
I.C.P. LABORATORY ANALYSIS (INDUCTION COUPLED ARGON PLASMA)

Cumberland Resources Limited

WALSH TOWNSHIP PROPERTY
TERRACE BAY DISTRICT

map title: GEOCHEMICAL MAP ELEMENT: LEAD	scale: 1 : 5000
	date: JAN 1984
	interpretation by: W. MC.
	map no.: 8

42J15NE0034 2.6648 WALSH



LEGEND

- powerline
- grid line / soil sample location
- 12 Geochemical Assay P.P.M.
- >50 Anomaly
- 30 PP.B. Isoline Interval

N

NOTES

SAMPLE INTERVAL - 50 M.
GRID LINES MEASURED AND PICKETED
'B' HORIZON - 80 MESH SAMPLE
AQUA-REGIA ASSAY

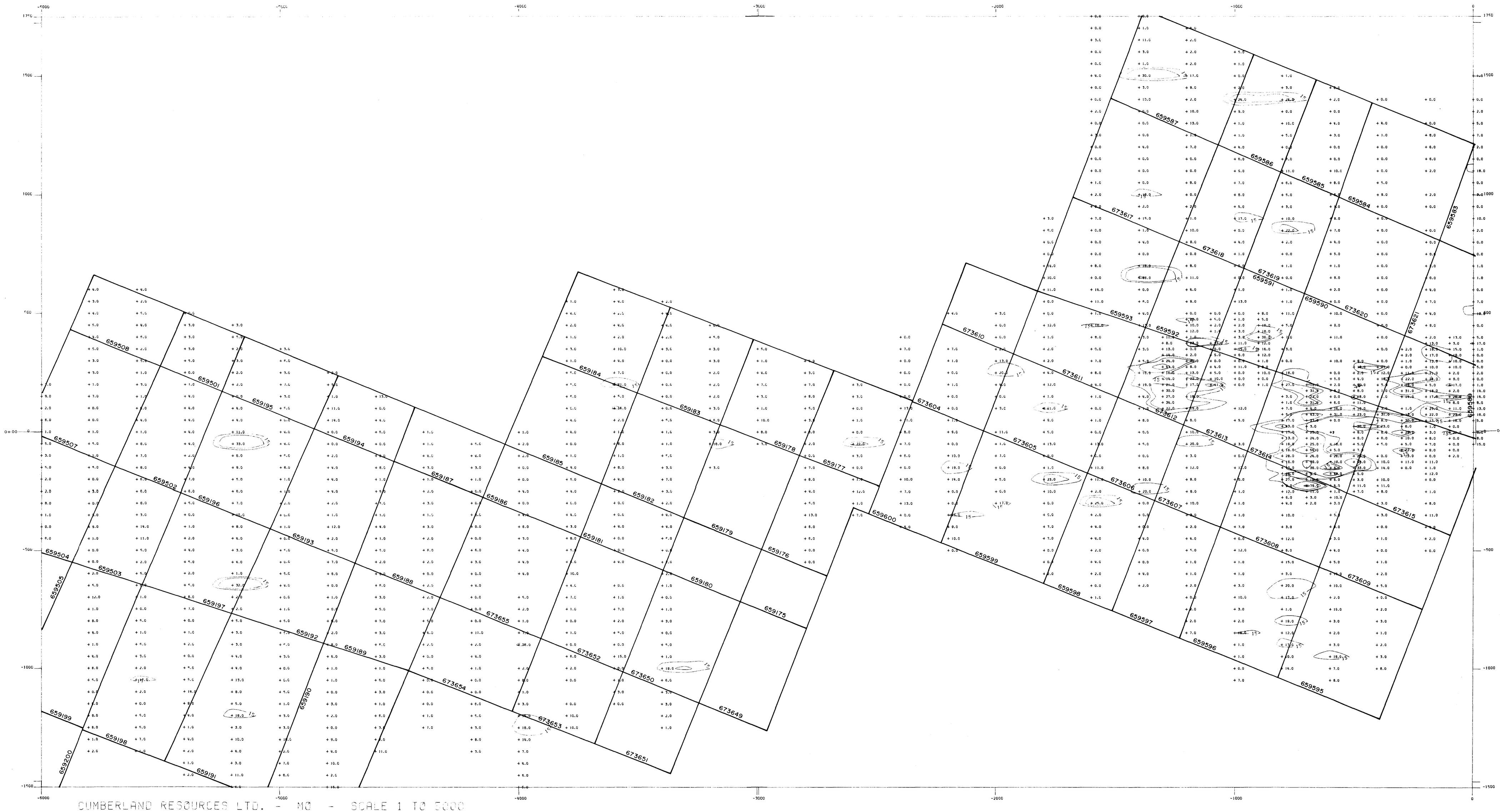
Cumberland Resources Limited

WALSH TOWNSHIP PROPERTY
TERRACE BAY DISTRICT

map title: GEOCHEMICAL MAP ELEMENT: GOLD	scale: 1:5000
	date: JAN 1984
	interpretation by: W.MC.
	map no: 9

42015NE0034 2.6648 WALSH

260


CUMBERLAND RESOURCES LTD. - MC - SCALE 1 TO 5000
659508
659501
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659585
659584
659583

270

CUMBERLAND RESOURCES LTD. - PB - SCALE 1 TO 5000

B Horizontal Scale - 80 meters

CONTOUR INTERVAL = 5

X-SCALE 1:1000 / Y-SCALE 1:1000
METRIC GRID

8A 076

280

CUMBERLAND RESOURCES LTD. - BB - SCALE 1 IN = 200'

B HORIZON SOIL -80 MASH

CONTOUR INTERVAL = 5

290

CUMBERLAND RESOURCES LTD. - AU - SCALE 1 TO 5000

CONTOUR INTERVAL= 5

B Hutchison Soil - Borden

CCM