

Hudson Bay Exploration & Development Co. Ltd.
800 – 700 West Pender Street
Vancouver, British Columbia
V6C 1G8

**Assessment Report
Geochemical Survey
Hab Property**

Located within the **Hab Claims Group**,
NTS 105H/9, H/16
Latitude: 61.79°
Longitude: 128.42°

Mining District: Watson Lake

Written by: M. Buchanan

Work Performed from July to September 1999



This report has been examined by
the Geological Evaluation Unit
under Section 53 (4) Yukon Quartz
Mining Act and is allowed as
representation work in the amount
of \$ 11,312.50.

M. Buck
for Regional Manager, Exploration and
Geological Services for Commissioner
of Yukon Territory.

Summary

The Hab property is located northwest of the Little Hyland river, approximately 225 km north of the town of Watson Lake along the Nahanni Range road. Physiography on the property consists moderate to rugged terrain with elevations ranging from 1200 m to 2000 m. Vegetation on the property is comprised of conifer trees, willows and alders. During the summer of 1999 geologic mapping and a geochemical survey was conducted on the Hab claims. As a result of the survey a total of 105 geochemical samples were collected over traverse lines and a compilation of the property scale geology was completed. Preliminary results of the geochemical survey have failed to indicate any anomalies.

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Introduction

During the summer of 1998, while following up exploration targets in the regional geochemical silt samples (GSC Open File 1649), a geochemical silt survey was conducted in the area now covered by the Hab claims. This preliminary survey confirmed the area as having anomalous gold & arsenic values. During the months of July to September 1999, 4-6 personnel from Hudson Bay Exploration & Development investigated the Hab claims through geologic mapping and soil/rock sampling. This report details the results of the geological mapping and geochemical sampling on the Hab claims.

Location & Access

The Hab claims are entirely located northwest of the Little Hyland river approximately 125 km north of the Robert Campbell turn off along the Cantung road. Watson Lake is the closest major centre with air service and other facilities and is 200 km south of the property. Elevations on the property range from 1200 m to 2000 m. Access to all of the Hab claims is best accomplished by helicopter.

Physiography

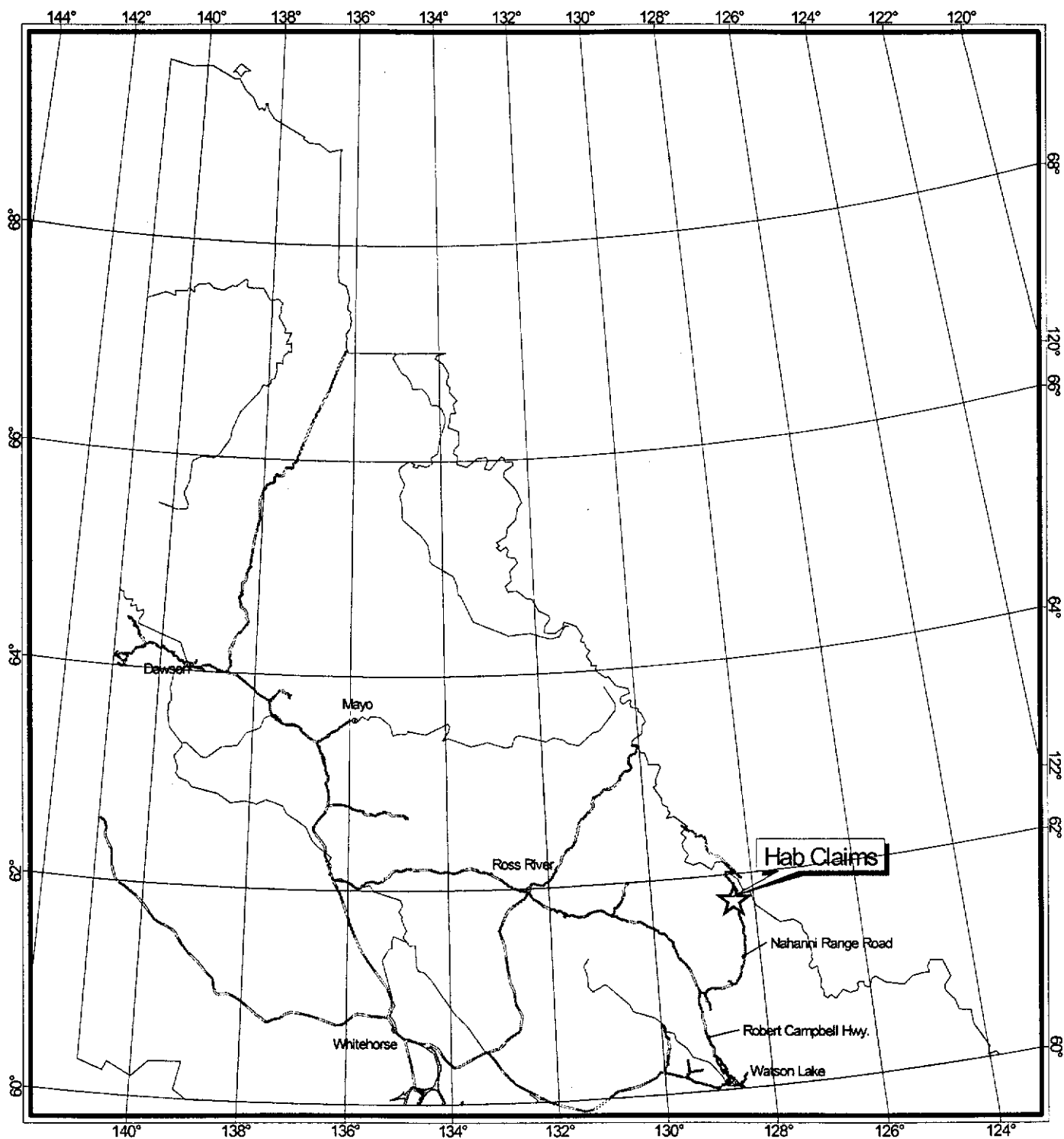
The Hab claims are situated in an area of moderate to rugged topographic relief with elevations ranging from 1200 m to 2000m. Vegetation on the property is variable consisting of conifer trees, willows and alders in the valleys and minor scrub brush, blueberries, abundant mosses, lichens and grasses on the hill tops. Outcrop is best observed on the hilltops, steeper slopes and in creek cuts of the property.

History of Exploration

The area around the Hab claims has been the focus of a number of gold exploration programs. Starting in 1996-97 Westmin, Noranda and Phelps Dodge explored the region and staked the Fer, Sprogge and Hy properties respectively. In 1997-98 Hudson Bay Exploration and Development Company Limited staked the Hab, Hat & Hit properties. All companies have completed work that includes geological mapping and geochemical sampling. At the time of this report Hudson Bay Exploration and Development Co. Ltd. had also completed first phase drilling on the Hit property.

Property Status & Ownership

The Hab property is composed of 129 two-post claims staked in a north/south direction (Figure 2). The property is 100% owned by Hudson Bay Exploration & Development Co. Ltd. Table I outlines the grant numbers and expiry dates of all the claims referred to in this report.



50 0 50 100 150 200 Kilometers

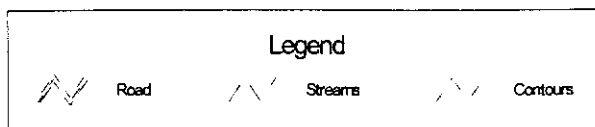
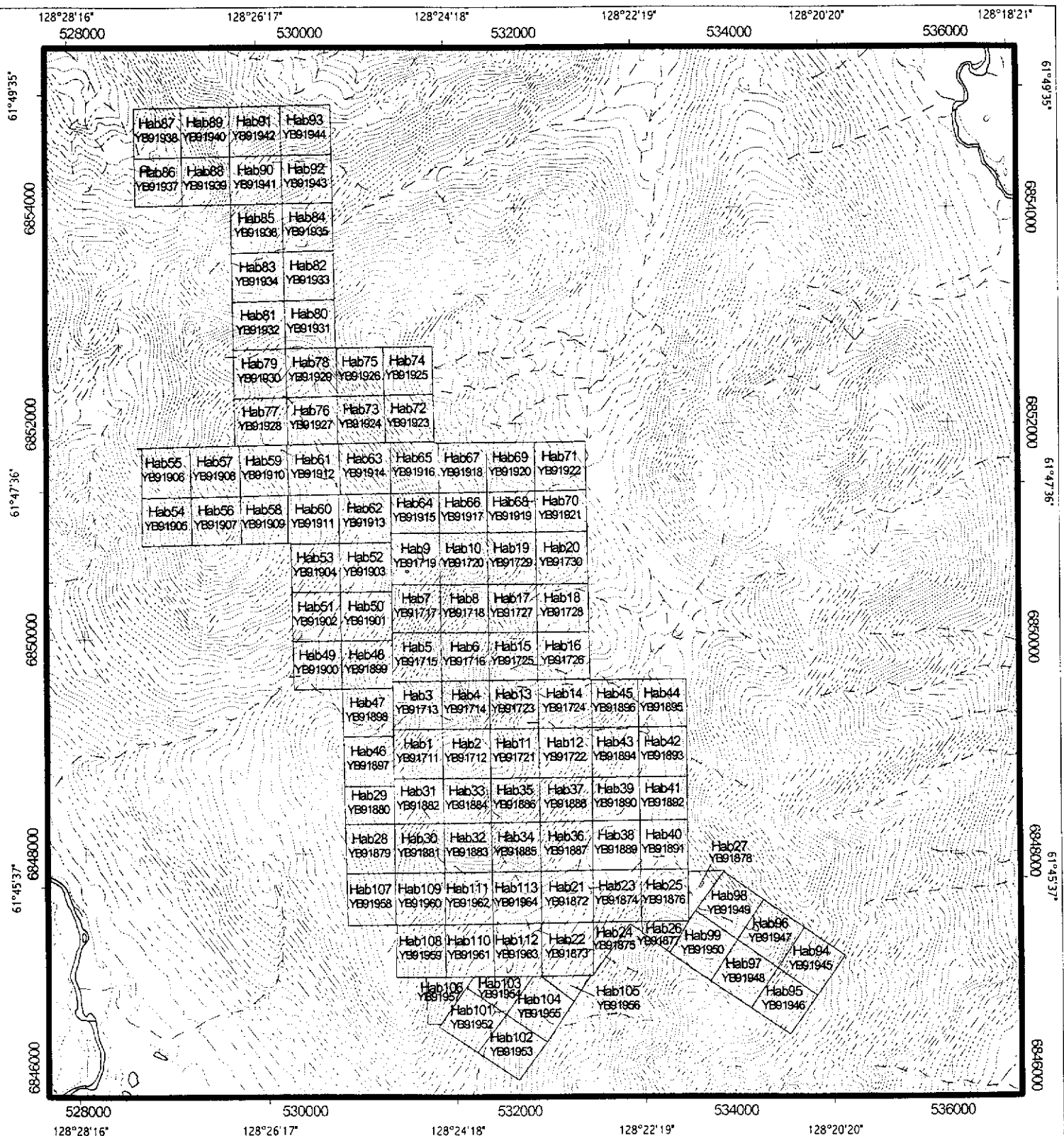
Hudson Bay Exploration & Dev. Co. Ltd.
Vancouver Office

Location Map
Hab 1-113 Claims

FIGURE - 1
AUTHOR: MDB

SCALE
1:6000000

DATE: January 17, 1999
FILE: hablocationmap.apr



50 0 50 100 150 200 Kilometers

Hudson Bay Exploration & Dev. Co. Ltd.
Vancouver Office

Hab 1-113 Claims
UTM Zone 9
NAD 83

FIGURE - 2
AUTHOR: MDB

SCALE
1:50000

DATE: January 17, 1999
FILE: habclaimmap.apr

Table 1					
Claim Status					
Claim	Grant #	Date	Mapsheet	Hec.	Expiry Date
<u>Name</u>		<u>Staked</u>			
HAB1	YB91711	08-Sep-98	105H/16	21	15-Feb-02*
HAB2	YB91712	08-Sep-98	105H/16	21	15-Feb-02*
HAB3	YB91713	08-Sep-98	105H/16	21	15-Feb-02*
HAB4	YB91714	08-Sep-98	105H/16	21	15-Feb-02*
HAB5	YB91715	08-Sep-98	105H/16	21	15-Feb-02*
HAB6	YB91716	08-Sep-98	105H/16	21	15-Feb-02*
HAB7	YB91717	08-Sep-98	105H/16	21	15-Feb-02*
HAB8	YB91718	08-Sep-98	105H/16	21	15-Feb-02*
HAB9	YB91719	08-Sep-98	105H/16	21	15-Feb-02*
HAB10	YB91720	08-Sep-98	105H/16	21	15-Feb-02*
HAB11	YB91721	08-Sep-98	105H/16	21	15-Feb-02*
HAB12	YB91722	08-Sep-98	105H/16	21	15-Feb-02*
HAB13	YB91723	08-Sep-98	105H/16	21	15-Feb-02*
HAB14	YB91724	08-Sep-98	105H/16	21	15-Feb-02*
HAB15	YB91725	08-Sep-98	105H/16	21	15-Feb-02*
HAB16	YB91726	08-Sep-98	105H/16	21	15-Feb-02*
HAB17	YB91727	08-Sep-98	105H/16	21	15-Feb-02*
HAB18	YB91728	08-Sep-98	105H/16	21	15-Feb-02*
HAB19	YB91729	08-Sep-98	105H/16	21	15-Feb-02*
HAB20	YB91730	08-Sep-98	105H/16	21	15-Feb-02*
HAB21	YB91872	05-Dec-98	105H/16	21	15-Feb-02*
HAB22	YB91873	05-Dec-98	105H/16	21	15-Feb-02*
HAB23	YB91874	05-Dec-98	105H/16	21	15-Feb-02*
HAB24Fr	YB91875	05-Dec-98	105H/16	21	15-Feb-02*
HAB25	YB91876	05-Dec-98	105H/16	21	15-Feb-02*
HAB26Fr	YB91877	05-Dec-98	105H/16	21	15-Feb-02*
HAB27Fr	YB91878	05-Dec-98	105H/16	21	15-Feb-02*
HAB28	YB91879	05-Dec-98	105H/16	21	15-Feb-02*
HAB29	YB91880	05-Dec-98	105H/16	21	23-Dec-01*
HAB30	YB91881	05-Dec-98	105H/16	21	15-Feb-02*
HAB31	YB91882	05-Dec-98	105H/16	21	23-Dec-01*
HAB32	YB91883	05-Dec-98	105H/16	21	15-Feb-02*
HAB33	YB91884	05-Dec-98	105H/16	21	23-Dec-01*
HAB34	YB91885	05-Dec-98	105H/16	21	15-Feb-02*
HAB35	YB91886	05-Dec-98	105H/16	21	15-Feb-02*
HAB36	YB91887	05-Dec-98	105H/16	21	15-Feb-02*
HAB37	YB91888	05-Dec-98	105H/16	21	15-Feb-02*
HAB38	YB91889	05-Dec-98	105H/16	21	15-Feb-02*
HAB39	YB91890	05-Dec-98	105H/16	21	15-Feb-02*
HAB40	YB91891	05-Dec-98	105H/16	21	15-Feb-02*
HAB41	YB91892	05-Dec-98	105H/16	21	15-Feb-02*

<u>Claim Name</u>	<u>Grant #</u>	<u>Date Staked</u>	<u>Mapsheet</u>	<u>Hec.</u>	<u>Expiry Date</u>
HAB42	YB91893	05-Dec-98	105H/16	21	15-Feb-02*
HAB43	YB91894	05-Dec-98	105H/16	21	15-Feb-02*
HAB44	YB91895	05-Dec-98	105H/16	21	15-Feb-02*
HAB45	YB91896	05-Dec-98	105H/16	21	15-Feb-02*
HAB46	YB91897	05-Dec-98	105H/16	21	23-Dec-01*
HAB47	YB91898	05-Dec-98	105H/16	21	23-Dec-01*
HAB48	YB91899	05-Dec-98	105H/16	21	23-Dec-01*
HAB49	YB91900	05-Dec-98	105H/16	21	15-Feb-02*
HAB50	YB91901	19-Dec-98	105H/16	21	23-Dec-01*
HAB51	YB91902	19-Dec-98	105H/16	21	15-Feb-02*
HAB52	YB91903	19-Dec-98	105H/16	21	23-Dec-01*
HAB53	YB91904	19-Dec-98	105H/16	21	15-Feb-02*
HAB54	YB91905	05-Dec-98	105H/16	21	15-Feb-02*
HAB55	YB91906	05-Dec-98	105H/16	21	23-Dec-01*
HAB56	YB91907	05-Dec-98	105H/16	21	15-Feb-02*
HAB57	YB91908	05-Dec-98	105H/16	21	23-Dec-01*
HAB58	YB91909	05-Dec-98	105H/16	21	15-Feb-02*
HAB59	YB91910	05-Dec-98	105H/16	21	23-Dec-01*
HAB60	YB91911	05-Dec-98	105H/16	21	15-Feb-02*
HAB61	YB91912	05-Dec-98	105H/16	21	15-Feb-02*
HAB62	YB91913	05-Dec-98	105H/16	21	23-Dec-01*
HAB63	YB91914	05-Dec-98	105H/16	21	15-Feb-02*
HAB64	YB91915	05-Dec-98	105H/16	21	23-Dec-01*
HAB65	YB91916	05-Dec-98	105H/16	21	23-Dec-01*
HAB66	YB91917	05-Dec-98	105H/16	21	23-Dec-01*
HAB67	YB91918	05-Dec-98	105H/16	21	15-Feb-02*
HAB68	YB91919	05-Dec-98	105H/16	21	23-Dec-01*
HAB69	YB91920	05-Dec-98	105H/16	21	15-Feb-02*
HAB70	YB91921	05-Dec-98	105H/16	21	23-Dec-01*
HAB71	YB91922	05-Dec-98	105H/16	21	15-Feb-02*
HAB76	YB91927	19-Dec-98	105H/16	21	15-Feb-02*
HAB77	YB91928	19-Dec-98	105H/16	21	23-Dec-01*
HAB78	YB91929	19-Dec-98	105H/16	21	15-Feb-02*
HAB79	YB91930	19-Dec-98	105H/16	21	23-Dec-01*
HAB81	YB91932	19-Dec-98	105H/16	21	23-Dec-01*
HAB83	YB91934	19-Dec-98	105H/16	21	23-Dec-01*

<u>Claim Name</u>	<u>Grant #</u>	<u>Date Staked</u>	<u>Mapsheet</u>	<u>Hec.</u>	<u>Expiry Date</u>
HAB85	YB91936	19-Dec-98	105H/16	21	23-Dec-01*
HAB86	YB91937	19-Dec-98	105H/16	21	23-Dec-01*
HAB88	YB91939	19-Dec-98	105H/16	21	23-Dec-01*
HAB90	YB91941	19-Dec-98	105H/16	21	23-Dec-01*
HAB94	YB91945	05-Dec-98	105H/09	21	15-Feb-02*
HAB95	YB91946	05-Dec-98	105H/09	21	15-Feb-02*
HAB96	YB91947	05-Dec-98	105H/16	21	15-Feb-02*
HAB97	YB91948	05-Dec-98	105H/09	21	15-Feb-02*
HAB98	YB91949	05-Dec-98	105H/16	21	15-Feb-02*
HAB99	YB91950	05-Dec-98	105H/16	21	15-Feb-02*
HAB100	YB91951	05-Dec-98	105H/09	21	15-Feb-02*
HAB101	YB91952	05-Dec-98	105H/09	21	15-Feb-02*
HAB102	YB91953	05-Dec-98	105H/09	21	15-Feb-02*
HAB103	YB91954	05-Dec-98	105H/09	21	15-Feb-02*
HAB104	YB91955	05-Dec-98	105H/09	21	15-Feb-02*
HAB105	YB91956	05-Dec-98	105H/16	21	15-Feb-02*
HAB106	YB91957	19-Dec-98	105H/09	21	15-Feb-02*
HAB107	YB91958	19-Dec-98	105H/16	21	15-Feb-02*
HAB108	YB91959	05-Dec-98	105H/16	21	15-Feb-02*
HAB109	YB91960	05-Dec-98	105H/16	21	15-Feb-02*
HAB110	YB91961	05-Dec-98	105H/16	21	15-Feb-02*
HAB111	YB91962	05-Dec-98	105H/16	21	15-Feb-02*
HAB112	YB91963	05-Dec-98	105H/16	21	15-Feb-02*
HAB113	YB91964	05-Dec-98	105H/16	21	15-Feb-02*

*** Pending acceptance of this assessment report**

Work Performed

Work performed on the Hab claims was completed from July 15th to September 2nd by S. de Wit, A. Fonseca, G. Mulligan, D. Simms, J. Sparling & A. Tessier of Hudson Bay Exploration & Development Co. Ltd. (See Appendix 3). The work program included geological mapping and collection of geochemical samples. A total of 105 soil samples were collected at 50 to 100m station spacing and sent to Acme Labs in Vancouver, BC for 48 element ICP+MS.

Regional & Property Geology

Regionally the Hab claims are underlain by Lower Cambrian aged limestones, shales, quartzites, quartz grits, and pebble chert conglomerates of the Hyland Group. The sediment package generally strikes to the northwest with a moderate dip between 40 - 60 degrees to the northeast (GSC Map 6-1966). The Hyland Group of sediments as defined by Gordey and Anderson, 1993 can be further divided into the Yusezyu and Narchilla formations. The table below (after A. Tessier, 1999) summarises the formations seen in the region.

Narchilla Formation of the Hyland Group:

- 830 m thick (Gordey and Anderson, 1993),
- Precambrian to lower Cambrian,
- Blue, Maroon and Green shale with typically non-calcareous sandstone.

Yusezyu Formation of the Hyland Group:

- > 3000 m thick (Gordey and Anderson, 1993),
- Precambrian,
- Thick sequence dominated by coarse-grained quartz-sandstone with minor shale (underlying only a minor part of the area). The quartz-sandstone of the Yusezyu Formation is characterized by the bluish color of the quartz. The top of the Yusezyu Formation is characterized by a thin and discontinuous Unit of limestone.

The geology at a property scale is very much the same as what has been recognised regionally. Detailed mapping by A. Fonseca and A. Tessier indicate that the Hab claims are underlain by north/northwest striking sediments of the Narchilla formation which show varying degrees of dip to the north/northeast. The structures recognised on the property consist of NW and NE trending thrusts and normal faults. Complete results of the mapping can be on a modified geological map in the back pocket of this report.

Geochemical Survey

A total of 105 samples were collected from on the Hab property during the 1999 summer field season. The soil samples were collected from a homogenized 'A' horizon typically ranging in depth from 10 to 20 cm using geo-tools. Samples were placed into labeled kraft wet strength paper bags and sent to Acme Labs in Vancouver, British Columbia for 48 element ICP+MS. Complete analytical results can be found in the Appendix 4 in the back of this report.

Results

The sampling on the Hab claims failed to indicate any significant gold mineralisation in the soils or rocks collected. The only anomalous response from the 1999 geochemical sampling on the Hab property was found at samples SDW S003816 and JES S003645 which assayed 31ppb and 59ppb gold respectively.

Conclusion & Recommendations

Results from the Hab property indicate that no significant gold mineralisation was found along the *limited soil traverse lines* taken on the property. Much of the property remains to be sampled in an organised fashion. It is recommended that follow-up on the Hab property should include the following.

1. More detailed geochemical sampling on other areas of the property.
2. If sampling proves to be effective at delineating targets further follow-up should include geophysics and sampling by trenching and/or drilling.

References

Geological Survey of Canada, 1966. Geology of the Frances Lake Sheet (NTS 105H), Yukon Territory & District of Mackenzie, Map 6-1966, 1" to 4 miles.

Gordey, S.P. & Anderson, R.G. 1993. Evolution of the Northern Cordilleran Miogeocline, Nahanni Map Area (105I) Yukon and Northwest Territories.

Hornbrook, E.H.W. and Friske, P.W.B., 1989. Regional Stream and Water Geochemical Data, Southeast Yukon, Map 105H: Open File 1649, Geological Survey of Canada.

Tessier, Andre C., 1999. Yukon Gold Project: Reconnaissance Geological mapping of the Hyland Block, 105H9/15/16 (In house report)

APPENDIX 1

Hab 1-20 Expenditures
Sept 8th to Sept 9th

Geochemical Survey

Sampling				
Soil samples	@ \$25/sample	x	50	=\$1250
Rock samples	@ \$25/sample	x	2	<u>=\$50</u>
				\$1300

Manpower				
2 – Geologists @ \$200/day		x	1day	= \$400
1 – Junior Geologist @ \$175/day		x	1day	= <u>\$175</u>
			Total	\$575

Accommodations & Food (includes pilot)				
4 Persons @ \$50/day		x	1day	= \$200

Air Support				
1 Helicopter @ \$675/hr		x	2hrs	= \$1350
			Total	<u>\$3425</u>

Approx. \$65/sample

Geological Mapping

Manpower				
1Geologist @ \$250/day		x	2 days=	\$500
1 Assistant @ \$175/day		x	2 days=	\$350

Accommodations & Food (includes pilot)				
3 Persons @ \$50/day		x	2days =	\$300

Air Support				
1 Helicopter @ \$675/hr		x	1.5hrs =	<u>\$1012.50</u>
		Total		<u>\$2162.50</u>

Compilation

1 Geologist @ \$250/day		x	2 days=	\$500
		Grand Total		<u>\$6087.50</u>

Hab Expenditures
July 8th to Sept 9th

Geological & Geochemical Survey

Sampling

Soil samples @ \$25/sample x 52 =\$1300

Manpower

2 – Geologists @ \$175/day x 1day = \$350

Accommodations & Food (includes pilot)

3 Persons @ \$50/day x 1day = \$150

Air Support

1 Helicopter @ \$675/hr x 1hr = \$675

Total \$2475

Approx. \$47.50 per Sample

Geological Mapping

Manpower

1 Geologist @ \$400/day x 2 days= \$800

1 Assistant @ \$175/day x 2 days= \$350

Accommodations & Food (includes pilot)

5 Person Days @ \$50/day = \$250

Air Support

1 Helicopter @ \$675/hr x 2 hrs = \$1350

Total \$2750

Grand Total \$5225

APPENDIX 2

STATEMENT OF QUALIFICATIONS

I, Michael Buchanan, of Vancouver, B.C. hereby certify that:

- 1) I am a graduate of the University of British Columbia, with a B.Sc. (Hon) in Geology (1995).
- 2) I am currently employed as a Geologist for Hudson Bay Exploration & Development Company Limited.
- 3) I am currently a member in good standing of the Association of Professional Engineers & Geoscientists of British Columbia (Geologist in Training).
- 4) The information contained within this report is based on published and unpublished reports of the area and work carried out in part and/or in full by myself and others under my supervision.
- 5) I have no interest in the Hab claims or any others within a 100km radius

Signed this day 28TH of FEBRUARY, 2000.



Michael Buchanan
Geologist
Hudson Bay Exploration and
Development Company Limited

Appendix 3

Personnel

<u>Name:</u>	<u>Position</u>
Michael Buchanan Box 203 141-757 West Hastings St. Vancouver, B.C. V6C 1A1	Project Geologist
Steve de Wit PO Box 3107 Vancouver, BC V6B 3X6	Geologist
Jason Dunning 12041 234 th Street Maple Ridge, BC V2X 9K7	Geologist
Anna Fonseca P.O. Box 2703 Whitehorse, Yukon Y1A 2C6	Geologist
Scott Heffernan 1651 Harwood Street Vancouver, BC V6G 1Y2	Jr. Geologist
Geoff Mulligan 111 N. Ogilvie St. Prince George, B.C. V2M 3H4	Jr. Geologist
Darren Simms PO Box 1500 Flin Flon, MB. R8A1N9	Geologist
Gordon Smarch PO Box 499 Watson Lake, Yukon Y0A 1C0	Technician
Jim Sparling Box 61 Flin Flon, MB. R8A1M6	Geologist
Andre Tessier 138 Chatham Street Kingston, Ontario K7K 4H4	Geological Consultant
Daniel Tutt 689 St. Ives Cres North Vancouver, BC V7N 2X4	Jr. Geologist

APPENDIX 4

AA
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GEOCHEMICAL ANALYSIS CERTIFICATE

AA
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Hudson Bay Expl. & Dev. Co. Ltd. PROJECT 2316 File # 9903382 Page 1 (a)

405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: M. Buchanan

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
MOBS-003072	.52	59.99	43.41	128.2	102.5	54.3	20.5	688	4.93	119.5	2.7	35.3	8.4	10.5	.06	1.25	.49	21	.05	.039	3.7	42.7	1.11	27.3	.001	1	2.45	.009	.03	<2	.03	11	.3	.08	8.8
MOBS-003190	.65	46.72	33.20	89.5	56	39.8	23.1	579	3.63	106.2	1.2	21.0	9.8	15.4	.05	1.09	.75	11	.09	.046	22.6	18.3	.84	25.1	.004	1	1.55	.006	.05	<2	.02	8	.3	.37	4.5
MOBS-003075	1.11	55.96	59.72	78.2	64	41.6	55.7	1063	3.33	32.2	.9	4.3	6.9	23.5	.04	2.38	.48	9	.15	.050	18.1	18.1	1.02	38.7	.001	1	1.51	.003	.02	<2	.03	15	.3	.18	4.4
MOBS-003081	.82	59.87	47.63	117.7	95	51.3	34.1	1017	4.72	68.8	2.2	9.4	5.2	8.6	.07	2.23	.64	17	.02	.070	16.1	35.8	1.05	21.4	.002	1	2.16	.007	.03	<2	.03	37	.4	.13	7.8
MOBS-003192	10.82	47.58	45.10	101.2	461	39.8	18.8	795	3.24	175.1	2.9	24.6	10.0	10.5	.64	6.70	.48	6	.24	.062	11.2	3.2	.15	21.0	.001	1	.39	.004	.02	<2	.12	43	1.2	.09	.8
MOBS-003074	.32	30.96	21.49	84.1	46	32.4	17.1	483	3.12	38.0	1.3	5.1	9.0	12.5	.05	.82	.38	10	.07	.044	21.2	17.5	.62	19.2	.005	1	1.36	.006	.02	<2	.02	11	.3	.07	3.9
MOBS-003078	.64	13.46	5.99	30.1	46	10.4	5.2	125	1.58	66.4	.5	9.4	.5	3.5	.04	.42	.32	12	.01	.066	7.1	1.1	.20	17.7	.008	<1	.80	.015	.02	<2	.03	35	.3	.06	3.6
MOBS-003198	.81	34.92	54.53	76.5	127	24.4	33.9	1375	2.91	98.4	1.8	21.4	3.4	4.9	.08	1.64	.56	20	.02	.088	13.4	15.2	.46	29.6	.007	<1	1.42	.008	.03	<2	.08	50	.5	.15	5.4
MOBS-003188	.97	26.52	28.84	79.3	78	31.4	14.6	405	3.50	50.1	1.1	3.1	4.2	16.2	.11	1.59	.40	17	.09	.089	12.4	21.4	.59	21.7	.009	<1	1.46	.004	.03	<2	.05	50	.6	.06	4.9
MOBS-003082	.85	41.98	43.33	89.8	98	40.7	24.5	661	3.55	178.6	2.5	22.2	5.7	20.9	.04	2.16	.46	10	.11	.039	16.6	19.6	.71	18.0	.001	<1	1.54	.003	.04	<2	.03	18	.3	.08	4.4
MOBS-003187	.67	43.60	35.20	103.2	58	44.9	26.2	652	3.86	28.0	1.7	2.3	6.9	44.8	.09	1.19	.48	13	.18	.114	16.8	21.8	.67	26.6	.003	1	1.64	.006	.06	<2	.03	38	.4	.06	4.9
MOBS-003070	.51	58.50	39.69	109.7	46	45.1	25.4	1098	4.14	16.5	1.1	.6	6.8	5.7	.05	.42	.71	18	.07	.046	21.7	32.9	1.13	16.5	.005	1	2.20	.008	.02	<2	.04	22	.2	.21	6.3
MOBS-003080	.88	66.59	62.53	123.6	91	54.7	44.7	1364	5.03	76.2	2.7	19.8	5.8	8.5	.08	2.39	.77	18	.03	.072	13.5	40.3	1.19	25.2	.002	1	2.44	.007	.03	<2	.04	44	.5	.16	7.8
RE MOBS-003070	.58	57.84	41.19	107.0	46	42.6	24.9	1095	4.09	16.2	1.2	1.4	6.3	5.6	.04	.40	.43	17	.07	.047	19.7	32.4	1.14	16.2	.005	<1	2.23	.009	.02	<2	.02	19	.3	.10	6.4
MOBS-003077	.56	38.14	36.19	67.0	90	27.8	20.6	690	2.88	115.3	1.5	29.7	2.2	16.6	.04	1.04	.45	11	.10	.063	6.6	11.0	.58	44.6	.002	<1	1.48	.009	.04	<2	.04	43	.5	.13	3.8
MOBS-003191	10.36	50.46	29.74	104.7	265	44.1	21.2	949	3.78	80.5	1.8	4.5	9.7	15.3	.54	3.74	.43	8	.37	.055	12.0	7.8	.42	24.3	.003	<1	.69	.007	.04	<2	.10	34	.8	.12	1.6
MOBS-003069	1.06	68.53	42.28	114.1	78	45.7	30.6	743	4.13	27.4	2.0	5.1	9.6	16.6	.06	.84	.63	15	.11	.042	21.3	26.8	1.09	22.5	.004	<1	2.17	.008	.03	<2	.03	21	.4	.11	5.7
MOBS-003071	.98	67.82	60.10	134.8	49	56.9	54.2	1651	5.15	38.4	3.8	3.6	6.7	7.3	.09	2.80	.49	20	.03	.055	21.1	42.2	1.15	28.9	.004	<1	2.45	.005	.03	<2	.05	32	.4	.11	7.7
MOBS-003073	.53	55.78	34.88	134.5	44	59.0	33.9	1181	5.24	68.4	2.7	10.9	8.0	7.1	.05	.91	.47	22	.04	.042	9.6	46.8	1.35	21.2	.002	1	2.77	.010	.02	<2	.03	15	.3	.09	9.0
MOBS-003189	.55	37.35	35.11	95.8	59	39.9	22.2	432	3.70	45.6	1.5	4.7	7.2	12.5	.07	1.46	.40	14	.05	.044	19.2	17.5	.70	29.6	.004	<1	1.71	.004	.03	<2	.03	18	.3	.06	4.5
MOBS-003079	.64	56.76	39.45	124.0	41	57.3	32.6	1599	5.07	65.5	1.5	9.1	6.2	4.9	.05	.83	.48	20	.05	.069	11.0	38.1	1.40	22.3	.002	1	2.67	.010	.03	<2	.02	18	.2	.11	7.8
MOBS-003193	.54	49.20	59.40	82.3	113	31.2	34.3	1079	2.97	292.5	2.0	47.8	11.4	7.5	.09	1.76	.30	9	.04	.043	16.6	10.5	.42	42.0	.004	<1	1.39	.011	.03	<2	.05	13	.4	.02	3.3
MOBS-003076	1.40	58.79	42.19	115.0	184	71.9	32.3	1171	4.26	121.6	1.0	22.0	6.5	12.6	.22	2.56	.41	13	.32	.073	13.9	26.8	.76	29.7	.002	<1	1.38	.006	.02	.9	.02	24	.2	.09	3.4
RSMS-002647	.81	22.20	22.01	59.2	87	8.4	4.1	253	3.66	171.3	1.0	4.2	12.3	3.9	.03	.32	.35	13	.01	.029	23.8	19.5	.63	23.1	.008	<1	1.51	.005	.02	3.6	.03	18	.4	.04	5.0
RSMS-003906	.92	19.05	21.84	54.2	52	9.5	3.8	244	2.99	118.9	1.0	6.9	2.8	5.4	.02	.42	.42	20	.02	.045	14.9	19.1	.63	28.6	.020	1	1.61	.007	.04	1.5	.04	23	.5	.04	5.7
RSMS-003903	.74	16.50	12.25	54.7	116	11.7	4.9	279	3.99	104.5	.7	7.3	6.2	3.1	.05	.40	.36	20	.01	.028	16.7	21.9	.61	30.0	.012	<1	1.66	.005	.03	1.3	.03	23	.3	.04	6.4
RSMS-003911	.83	21.26	19.12	48.7	68	12.7	4.8	248	2.80	30.2	.9	7.4	3.0	3.9	.03	.38	.35	17	.02	.042	21.9	14.7	.49	21.7	.016	<1	1.35	.010	.02	.4	.04	25	.5	.06	4.8
RSMS-002649	.55	6.77	9.03	27.1	103	4.8	2.1	134	1.51	45.1	.4	5.9	4.3	2.8	.01	.14	.19	10	.01	.014	19.5	8.1	.32	18.8	.007	<1	.91	.002	.02	.8	.04	19	.2	.02	4.1
RSMS-002651	.56	21.99	13.50	44.5	159	13.9	4.8	238	2.70	69.7	.8	11.4	2.6	3.0	.02	.25	.27	15	.01	.056	17.4	17.9	.50	38.1	.007	<1	1.45	.010	.03	.8	.03	25	.3	.03	5.2
RSMS-003904	.61	12.18	12.46	34.1	120	6.9	2.9	183	2.47	71.9	.6	6.3	3.6	2.8	.02	.26	.30	15	.01	.034	18.0	14.3	.40	21.8	.008	2	1.22	.005	.03	1.0	.03	21	.3	.04	5.3
RSMS-003908	1.04	20.28	23.60	44.9	127	7.1	3.2	229	4.30	627.9	1.0	272.3	2.4	5.1	.03	.51	.38	18	.01	.057	14.2	18.4	.46	24.9	.014	<1	1.68	.005	.02	4.0	.03	33	.6	.03	6.0
RSMS-003912	1.28	54.93	28.20	50.2	232	12.6	6.4	230	4.01	22.7	2.0	2.3	10.3	10.8	.05	.49	.44	15	.02	.072	59.5	18.7	.41	30.1	.021	<1	1.89	.013	.03	.8	.04	31	.7	.04	4.4
RSMS-002648	.74	17.19	20.43	45.7	99	6.9	4.5	189	3.12	49.8	.6	2.6	8.4	3.0	.02	.18	.31	13	<.01	.020	21.1	10.2	.34	20.6	.004	<1	1.19	.007	.02	.6	.03	23	.3	.03	4.5
RSMS-002652	.94	18.68	18.14	49.1	63	8.4	3.7	232	4.61	170.0	.8	15.5	5.1	3.3	.02	.47	.45	26	.01	.038	14.9	20.6	.50	25.2	.017	<1	1.49	.005	.03	1.3	.04	26	.4	.03	7.6
STANDARD DS2	13.76	121.61	28.53	161.6	268	34.5	13.1	768	2.96	61.3	20.0	187.9	3.2	29.3	11.19	9.86	10.24	76	.51	.076	14.6	158.1	.55	138.6	.115	2	1.61	.038	.15	6.9	1.95	246	2.4	1.85	5.8

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SOIL Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 9 1999 DATE REPORT MAILED: Sept 20/99 SIGNED BY: C. L. D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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Data FA

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GEOCHEMICAL ANALYSIS CERTIFICATE

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Hudson Bay Expl. & Dev. Co. Ltd. PROJECT 2316 File # 9903382 Page 1 (b)
405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: M. Buchanan

SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
MDBS-003072	3.81	<.1	.04	3.1	2.2	.5	.01	5.1	2.42	9.1	.02	<1	90.9
MDBS-003190	.58	.1	.06	3.1	1.7	.6	<.01	9.1	3.12	39.4	<.02	<1	50.5
MDBS-003075	.71	.1	.16	1.8	1.8	.2	<.01	6.9	5.73	32.4	.02	<1	63.2
MDBS-003081	2.62	<.1	.10	3.0	1.6	.4	.05	8.7	2.98	28.2	.03	<1	90.2
MDBS-003192	.64	<.1	.05	1.8	3.0	.3	.05	9.2	12.51	21.6	.03	2	4.6
MDBS-003074	.53	<.1	.10	2.3	1.1	.2	.02	3.1	3.82	39.9	<.02	<1	48.0
MDBS-003078	.91	<.1	.26	3.5	.4	.2	.06	1.1	1.12	12.9	<.02	<1	14.7
MDBS-003198	1.74	<.1	.34	5.4	.8	.6	.05	2.8	3.36	26.8	.02	<1	38.1
MDBS-003188	.68	<.1	.47	4.1	.9	.3	.06	4.0	3.12	23.6	.02	<1	44.1
MDBS-003082	1.02	<.1	.05	2.7	1.1	.3	.03	5.2	3.33	29.6	.02	<1	56.7
MDBS-003187	.86	<.1	.12	3.7	.9	.7	.03	5.5	5.06	31.3	.02	<1	51.6
MDBS-003070	.91	.1	.15	2.2	1.3	.4	<.01	4.7	3.28	41.8	<.02	<1	83.6
MDBS-003080	2.77	.1	.12	2.7	1.6	.5	.05	12.3	3.20	24.7	.03	<1	92.5
RE MDBS-003070	.89	.1	.09	2.0	1.3	.2	<.01	4.8	3.04	34.4	.02	<1	80.7
MDBS-003077	1.69	<.1	.18	5.6	.9	.3	.04	5.1	4.24	11.7	.02	<1	35.4
MDBS-003191	.42	<.1	.09	2.5	3.7	.3	.02	19.6	13.58	22.4	.04	<1	17.0
MDBS-003069	.81	.1	.04	2.4	1.6	.4	.01	4.6	4.19	37.4	.02	1	70.2
MDBS-003071	2.81	<.1	.18	3.0	1.8	.6	.02	11.5	3.14	37.5	.03	<1	89.3
MDBS-003073	2.73	.1	.06	3.0	2.2	.3	<.01	6.4	2.32	20.6	.02	<1	93.6
MDBS-003189	.99	<.1	.14	3.5	1.0	.2	.02	4.8	3.23	35.8	.02	<1	48.7
MDBS-003079	1.46	<.1	.06	2.6	1.8	.4	.02	11.4	2.62	20.5	.02	<1	93.9
MDBS-003193	1.11	<.1	.12	3.5	1.2	.5	.02	2.1	3.68	32.4	.02	<1	25.0
MDBS-003076	.59	<.1	.08	1.7	3.4	.2	.03	7.6	10.98	25.3	.03	<1	41.0
RSHS-002647	.67	<.1	.58	3.2	.8	.2	.02	1.0	4.11	45.8	<.02	<1	29.4
RSHS-003906	1.42	<.1	.54	6.1	.8	.4	.03	.3	3.04	28.1	.02	<1	32.7
RSHS-003903	.61	<.1	.82	4.2	.8	.3	.02	.8	2.45	31.9	<.02	<1	34.2
RSHS-003911	.95	<.1	.48	3.7	.6	.3	.04	.3	5.39	36.7	<.02	<1	26.3
RSHS-002649	.63	<.1	.45	3.1	.4	.3	.02	.5	2.46	35.9	<.02	<1	14.8
RSHS-002651	.69	<.1	.38	3.7	.5	.3	.02	1.0	2.59	33.7	<.02	<1	29.4
RSHS-003904	.66	<.1	.50	4.5	.5	.3	.02	.4	2.32	33.0	<.02	<1	21.6
RSHS-003908	.61	<.1	.80	3.1	.5	.4	.05	.4	2.99	24.5	.02	<1	27.1
RSHS-003912	1.26	<.1	.78	3.3	1.0	.4	.07	2.8	34.70	154.4	<.02	<1	24.0
RSHS-002648	1.75	<.1	.62	4.0	.6	.1	<.01	2.5	3.44	40.1	<.02	<1	25.6
RSHS-002652	.67	<.1	1.09	4.3	.7	.3	.03	.3	2.34	27.5	<.02	<1	29.2
STANDARD DS2	2.91	<.1	2.12	14.6	3.1	25.3	.02	4.2	8.29	28.3	5.51	<1	13.5

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO₃-H₂O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: SOIL Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 9 1999 DATE REPORT MAILED: *Sept 20/99* SIGNED BY: *C. L.* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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

Data *1* FA *—*



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
RSHS-003907	.64	7.92	11.98	28.9	71	5.0	2.2	145	1.80	86.3	.6	30.0	.8	5.0	.02	.23	.37	12	.03	.037	8.8	11.0	.35	25.1	.010	2	.95	.013	.03	1.4	.03	21	.3	.03	3.7
RSHS-003910	.98	26.66	25.00	59.3	41	10.6	4.1	316	4.44	142.9	1.0	6.3	8.7	4.1	.02	.51	.51	19	.01	.050	12.9	26.2	.67	28.3	.017	1	1.66	.007	.03	2.9	.03	22	.5	.06	5.7
RSHS-003905	.66	38.77	19.20	82.5	34	17.8	7.4	404	4.09	151.1	1.6	15.6	15.6	4.0	.05	.50	.43	17	.01	.031	22.3	39.2	.92	37.7	.010	1	2.26	.006	.05	1.0	.03	12	.4	.05	5.7
RSHS-003909	.80	25.39	21.68	61.4	40	9.3	4.3	323	3.82	196.4	1.1	27.9	12.0	5.3	.04	.42	.36	16	.01	.038	16.7	30.7	.76	37.0	.019	1	1.86	.006	.04	2.5	.03	20	.4	.05	5.0
RSHS-002650	.63	29.39	19.43	69.8	35	13.0	5.0	304	3.56	132.8	1.4	6.6	14.6	4.6	.02	.24	.31	13	<.01	.024	26.2	27.1	.73	19.9	.008	<1	1.56	.004	.03	.7	.02	9	.2	.04	4.3
DHSS-003668	.65	39.92	34.16	98.0	124	42.4	25.1	1176	3.86	89.0	2.2	32.3	5.8	9.0	.14	.78	.39	12	.19	.075	10.2	21.4	.60	22.3	.001	<1	1.58	.012	.05	<.2	.03	25	.2	.04	4.1
DHSS-003676	.46	10.57	8.34	15.9	472	4.3	1.6	68	.94	15.0	.6	1.0	.5	3.8	.03	.10	.13	9	.01	.045	10.8	9.5	.16	16.9	.005	<1	.54	.014	.03	.3	.03	25	.1	.02	2.6
DHSS-003670	1.24	78.75	48.34	100.2	93	46.2	37.5	3295	4.88	49.2	3.1	2.8	4.9	10.3	.12	2.59	.85	19	.05	.089	21.1	25.2	.94	20.6	.007	<1	1.79	.010	.03	<.2	.07	37	.4	.17	5.5
DHSS-003684	.90	25.62	20.84	57.1	36	15.2	5.8	253	2.76	82.6	1.1	4.8	4.7	5.5	.05	.41	.35	19	.03	.049	13.5	25.3	.54	26.7	.017	<1	1.40	.009	.04	1.2	.03	23	.4	.07	4.7
DHSS-003677	.73	27.15	17.69	51.9	91	9.0	3.6	246	3.07	94.4	1.1	3.7	8.2	3.3	<.01	.28	.35	15	.01	.033	25.5	23.9	.55	16.6	.006	<1	1.26	.004	.03	.9	.04	15	.3	.05	4.6
DHSS-003659	1.30	47.83	30.83	85.6	117	41.0	22.7	607	3.58	110.5	1.3	21.4	9.9	24.2	.09	.91	.51	11	.20	.039	20.7	24.5	1.04	22.5	.001	<1	1.74	.006	.05	<.2	.03	10	.2	.14	4.5
DHSS-003663	.97	51.38	31.61	115.1	70	51.9	19.9	861	4.55	64.9	1.6	9.4	5.7	8.9	.12	.76	.77	18	.10	.056	10.9	43.3	1.23	15.9	.002	<1	2.44	.006	.04	<.2	.03	49	.2	.19	7.1
DHSS-003654	1.89	28.65	18.51	69.2	254	33.0	14.5	862	3.42	34.1	.5	3.0	1.9	9.7	.14	.86	.43	19	.17	.135	7.1	33.4	.72	61.7	.004	1	1.52	.006	.03	<.2	.04	64	.3	.09	5.2
DHSS-003673	.50	66.35	60.40	123.7	497	43.2	21.9	592	4.04	794.3	1.6	196.3	8.7	50.7	.25	2.48	.70	10	.78	.052	12.4	22.9	.62	38.6	.001	<1	1.57	.006	.04	<.2	.03	42	.4	.12	4.0
DHSS-003666	1.13	34.01	8.85	56.1	29	14.4	15.2	547	4.40	5.3	.6	<.2	2.8	54.4	.12	.20	1.49	176	.52	.044	11.8	56.1	.66	102.3	.540	3	4.85	.179	.07	<.2	.19	54	.5	.66	11.3
DHSS-003682	.49	8.64	8.20	15.2	268	3.2	1.6	75	1.32	31.3	.6	2.0	.3	3.0	.02	.20	.26	14	.01	.049	7.7	9.0	.13	14.7	.008	<1	.74	.017	.02	.5	.03	32	.2	.06	3.5
DHSS-003660	3.25	57.70	36.05	95.7	307	42.8	22.2	828	3.48	81.0	1.5	17.0	9.2	17.5	.56	1.35	.49	15	.24	.051	14.6	26.6	1.03	24.1	.001	1	1.66	.005	.03	<.2	.04	28	1.0	.08	4.1
DHSS-003678	.74	19.55	13.37	40.5	136	7.2	3.0	175	2.45	59.8	.6	3.6	4.3	4.2	.02	.17	.29	12	.01	.036	17.7	17.0	.43	12.9	.009	<1	.99	.007	.02	.7	.02	20	.3	.06	3.9
DHSS-003686	.77	23.28	16.46	37.6	36	9.8	4.8	170	2.07	39.7	.9	16.2	2.5	6.8	.03	.35	.29	16	.06	.052	10.4	14.8	.36	21.5	.022	<1	1.09	.017	.02	.5	.03	19	.4	.04	3.3
RE DHSS-003678	.74	19.82	14.54	39.1	144	6.7	3.0	174	2.42	59.4	.6	.9	4.3	4.4	.02	.17	.29	12	.01	.036	18.0	17.3	.45	13.6	.009	<1	1.04	.008	.02	.8	.02	22	.3	.03	4.0
DHSS-003655	12.23	48.95	25.62	82.5	335	38.4	13.1	400	3.36	63.3	1.1	6.7	4.0	13.4	.22	3.77	.47	11	.54	.065	9.9	15.9	.47	26.9	.001	<1	.97	.005	.02	<.2	.09	43	.8	.09	2.3
DHSS-003658	.43	43.95	29.81	79.6	52	39.3	22.0	724	3.76	33.3	.8	1.5	12.1	17.9	.04	.50	.46	11	.09	.038	29.0	36.3	1.12	17.8	.002	<1	1.93	.006	.04	<.2	.02	11	.1	.15	4.9
DHSS-003667	.71	40.62	44.02	67.7	213	22.2	12.9	1168	3.96	25.1	1.7	2.8	1.7	3.6	.10	.83	.47	18	.02	.227	5.8	28.2	.39	36.5	.006	<1	1.28	.005	.03	<.2	.04	75	.5	.09	5.6
DHSS-003671	1.04	40.35	28.83	92.0	106	41.5	19.3	692	3.92	76.2	1.9	12.0	5.9	5.2	.08	.87	.42	16	.06	.055	12.8	29.7	.98	25.3	.003	<1	2.02	.004	.02	<.2	.03	22	.3	.07	5.7
DHSS-003653	.46	52.54	56.75	122.2	181	42.2	21.1	789	3.99	541.7	1.4	65.5	11.0	16.2	.11	1.33	.52	13	.06	.041	25.0	27.5	.99	36.4	.001	<1	1.95	.004	.04	<.2	.02	12	.2	.09	4.9
DHSS-003685	.74	22.92	18.24	39.6	50	10.2	3.7	159	2.14	64.2	1.1	2.7	3.2	5.1	.07	.39	.27	13	.02	.056	16.6	16.2	.38	36.7	.014	1	1.30	.011	.03	1.2	.04	31	.5	<.02	3.7
DHSS-003657	.66	32.67	26.64	69.4	41	23.5	9.4	261	3.07	72.9	1.1	7.4	4.3	4.0	.06	1.34	.44	16	.02	.074	11.3	15.6	.41	22.8	.007	1	1.22	.006	.04	<.2	.04	35	.4	.07	3.8
DHSS-003687	1.34	56.01	28.47	64.7	64	19.6	8.7	306	3.55	172.4	2.5	9.2	6.9	6.4	.03	.63	.46	20	.03	.068	29.9	21.6	.54	20.3	.021	<1	1.83	.008	.03	.9	.05	31	.8	.05	4.6
DHSS-003681	.67	16.40	14.18	43.4	71	15.1	4.4	234	3.02	47.6	.8	8.1	3.2	4.0	.03	.33	.34	17	.01	.049	16.4	21.2	.44	25.1	.008	<1	1.29	.004	.03	.7	.03	28	.4	.02	5.3
DHSS-003675	.72	20.68	19.55	54.7	94	9.0	3.6	280	3.75	85.4	.8	3.1	11.3	2.8	.02	.35	.36	16	<.01	.024	15.4	24.8	.67	31.6	.010	<1	1.69	.005	.03	.9	.04	16	.2	.02	5.6
DHSS-003662	5.38	52.22	42.04	103.9	145	46.8	23.7	690	3.95	156.1	2.1	29.5	10.1	27.5	.20	1.82	.50	14	.33	.050	15.2	26.6	.92	26.2	.001	<1	1.75	.007	.04	<.2	.06	28	.7	.09	4.6
DHSS-003683	.69	18.76	15.45	35.5	35	5.7	2.7	158	2.42	183.6	.8	11.0	2.2	5.2	.02	.34	.30	18	.04	.048	14.7	15.5	.39	23.7	.013	<1	1.28	.009	.03	1.9	.03	24	.5	.03	4.4
DHSS-003669	.73	49.06	45.17	94.2	114	38.1	15.8	907	4.61	125.2	1.3	5.0	4.1	5.8	.09	1.17	.56	22	.02	.117	12.3	44.0	1.01	26.1	.004	<1	2.21	.005	.03	<.2	.03	69	.2	.08	6.9
DHSS-003672	1.09	57.54	53.02	121.0	372	45.6	20.9	451	4.18	504.0	1.7	163.3	9.4	29.4	.21	2.30	.64	13	.42	.059	16.9	25.3	.74	30.0	.001	<1	1.73	.005	.03	<.2	.03	27	.4	.08	4.4
STANDARD DS2	13.59	133.67	30.47	169.6	255	38.1	12.6	848	3.24	61.5	20.3	202.6	3.4	29.8	11.40	9.65	11.13	84	.56	.082	15.3	180.1	.62	149.0	.119	2	1.83	.043	.17	7.1	1.82	247	2.4	1.82	6.2

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



SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
RSHS-003907	.42	<.1	.36	3.7	.3	.5	.06	.2	1.57	16.1	<.02	<1	19.8
RSHS-003910	.56	<.1	.80	4.1	.8	.5	.02	.4	2.91	24.5	.02	<1	35.9
RSHS-003905	.50	<.1	.49	4.2	1.2	.4	<.01	3.8	3.94	45.2	.02	<1	55.0
RSHS-003909	.44	<.1	.82	3.9	.9	.3	<.01	.8	3.52	32.7	.02	<1	39.2
RSHS-002650	.79	<.1	.29	2.5	1.0	.3	<.01	1.6	3.89	52.6	<.02	<1	38.9
DHSS-003668	1.34	<.1	.08	3.2	1.5	.4	.01	3.1	4.62	19.6	.02	<1	37.5
DHSS-003676	.77	<.1	.16	3.2	.2	.4	.02	.5	2.08	21.1	<.02	<1	8.0
DHSS-003670	.98	.1	.11	3.0	1.9	.6	.01	3.1	4.54	38.7	.03	<1	60.1
DHSS-003684	.68	<.1	.80	4.2	.7	.4	.02	.6	4.02	28.1	<.02	<1	28.9
DHSS-003677	1.08	<.1	.44	4.0	.7	.2	<.01	.7	3.93	51.1	<.02	1	29.6
DHSS-003659	.69	<.1	.03	2.5	1.4	.3	<.01	12.4	3.84	35.8	.02	<1	53.9
DHSS-003663	1.17	<.1	.09	2.5	1.6	.9	.02	6.1	2.62	20.9	.02	<1	89.1
DHSS-003654	.66	<.1	.38	3.2	.9	1.8	.11	3.0	2.75	13.3	.02	<1	40.8
DHSS-003673	.65	<.1	.10	2.5	1.9	.4	.05	11.3	6.85	23.2	.03	<1	44.0
DHSS-003666	1.19	.2	1.08	5.4	9.4	2.6	<.01	49.9	16.50	31.1	.03	2	10.7
DHSS-003682	.59	<.1	.24	2.5	.1	.4	.03	.7	1.20	14.8	<.02	<1	6.9
DHSS-003660	.67	.1	.06	2.0	2.5	.3	<.01	8.8	7.15	27.7	.02	1	60.1
DHSS-003678	.48	<.1	.36	2.4	.5	.2	.02	.3	3.29	32.3	<.02	<1	24.9
DHSS-003686	.56	<.1	.37	3.1	.5	.3	<.01	.4	2.64	19.7	<.02	<1	19.0
RE DHSS-003678	.48	<.1	.37	2.5	.5	.2	.01	.3	3.36	32.9	<.02	<1	24.0
DHSS-003655	.30	<.1	.13	2.0	2.5	.3	.06	10.7	13.42	17.4	.03	<1	26.0
DHSS-003658	.79	<.1	.42	2.6	1.2	.6	<.01	10.9	3.33	47.5	.02	<1	68.6
DHSS-003667	1.86	<.1	.22	4.5	.7	.4	.14	3.1	1.90	10.5	.02	<1	25.3
DHSS-003671	1.30	<.1	.17	2.6	1.6	.3	.01	6.4	3.82	23.4	.02	1	68.5
DHSS-003653	1.22	<.1	.03	3.5	1.5	.3	<.01	4.4	3.97	44.9	.02	<1	60.0
DHSS-003685	.62	<.1	.69	3.6	.5	.3	.04	1.4	4.15	29.6	<.02	1	21.6
DHSS-003657	.83	<.1	.37	5.4	.9	.4	.04	3.1	1.97	20.8	.02	<1	21.8
DHSS-003687	1.36	<.1	.85	4.7	1.0	.5	.06	1.6	19.93	73.1	.02	1	30.2
DHSS-003681	1.25	<.1	.60	3.7	.6	.3	.02	1.1	2.35	32.7	<.02	<1	27.9
DHSS-003675	.86	<.1	.64	3.3	.8	.4	.01	1.8	3.00	30.6	<.02	<1	36.3
DHSS-003662	.91	<.1	.08	2.6	2.3	.3	.03	11.4	6.36	28.3	.03	2	53.5
DHSS-003683	.79	<.1	.34	3.7	.5	.3	.02	.8	2.58	27.3	<.02	<1	20.8
DHSS-003669	1.13	<.1	.29	3.2	1.4	.3	.08	9.4	2.34	22.0	.02	<1	67.0
DHSS-003672	.62	<.1	.08	2.3	2.2	.6	.03	9.4	6.58	30.4	.04	<1	50.0
STANDARD DS2	2.68	<.1	2.28	14.6	3.2	25.4	.02	4.1	8.18	31.0	5.53	2	13.7

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



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
DHSS-003665	.61	31.79	39.21	59.7	138	27.1	21.5	2271	3.46	54.6	1.2	12.4	1.2	4.1	.15	.64	.41	18	.04	.162	4.8	22.1	.57	30.1	.003	1	1.54	.008	.03	< 2	.03	63	.5	.05	5.9
DHSS-003680	.52	9.32	8.84	22.1	70	8.3	2.7	132	2.05	32.3	.6	17.9	.9	3.6	.03	.24	.29	13	.01	.045	14.4	11.5	.22	18.7	.005	1	.76	.002	.02	.4	.03	24	.4	.04	4.2
DHSS-003674	.44	51.70	40.64	93.2	259	38.4	17.7	431	3.64	391.4	1.6	37.8	6.9	58.6	.17	1.95	.45	11	.80	.070	12.1	12.6	.49	44.0	.001	1	1.39	.007	.04	< 2	.03	39	.6	.06	3.8
DHSS-003656	.53	29.93	32.99	85.9	56	35.0	35.2	949	4.03	534.5	1.2	44.5	7.7	16.5	.15	3.07	.34	10	.17	.082	18.2	12.2	.53	33.8	.002	1	1.34	.005	.07	< 2	.03	15	.4	.04	4.1
DHSS-003661	2.81	52.97	35.91	86.5	276	40.0	20.7	700	3.67	85.0	1.4	20.6	8.6	15.9	.44	1.39	.47	13	.24	.051	16.5	17.7	1.06	22.0	.002	1	1.76	.002	.04	< 2	.04	27	1.0	.09	4.7
DHSS-003679	.28	5.00	5.15	6.3	286	2.0	.8	36	.70	14.8	.3	3.8	.2	3.9	.03	.11	.15	7	.01	.032	7.1	1.3	.08	15.5	.005	< 1	.38	.013	.02	.5	.02	25	.3	< .02	2.6
GWSS-003555	.91	56.89	48.50	78.4	50	47.6	47.6	1243	3.71	33.1	.7	9.8	6.5	27.2	.04	1.08	.83	10	.19	.053	13.3	19.7	1.14	26.2	.001	< 1	1.69	.002	.02	.2	.04	20	.2	.30	4.7
GWSS-003567	.55	61.26	41.98	117.0	99	58.2	26.3	976	5.02	114.8	1.6	20.2	5.9	6.2	.07	.96	.57	19	.09	.054	16.9	37.3	1.32	16.5	.001	< 1	2.60	.006	.03	< 2	.02	21	.2	.09	8.3
GWSS-003556	.46	36.74	28.31	90.3	75	40.6	19.4	482	3.70	50.1	1.6	10.0	13.0	17.5	.06	1.14	.41	12	.11	.049	18.4	19.0	.72	20.3	.005	< 1	1.57	.003	.03	< 2	.02	13	.2	.07	4.5
GWSS-003558	.55	32.31	35.04	91.7	40	38.2	15.1	450	3.88	221.5	1.4	18.0	8.2	12.3	.08	1.47	.40	14	.03	.045	21.6	20.7	.65	36.7	.004	< 1	1.65	.004	.03	< 2	.04	15	.3	.06	4.4
GWSS-003562	.71	50.74	41.74	120.7	84	58.5	28.8	917	4.98	84.0	1.2	26.7	7.5	6.4	.07	.76	.63	15	.09	.032	21.3	36.4	1.25	25.4	.001	< 1	2.47	.004	.02	< 2	.03	11	.2	.12	7.0
GWSS-003559	.37	29.21	20.58	47.5	62	24.1	9.7	303	2.36	68.1	.8	7.3	2.4	10.5	.04	.51	.38	10	.06	.052	8.4	11.5	.57	35.1	.003	1	1.33	.011	.04	< 2	.03	54	.2	.10	3.7
GWSS-003565	.68	60.95	46.15	96.8	104	43.5	17.4	906	5.23	177.7	1.6	37.6	5.9	6.4	.06	3.46	.72	14	.01	.071	13.0	24.2	1.03	20.3	.001	< 1	2.01	.011	.05	< 2	.03	20	.3	.11	6.0
GWSS-003561	2.49	51.88	41.38	85.0	88	47.0	30.9	1276	3.99	56.5	.9	5.4	3.1	8.7	.10	2.80	.52	12	.14	.059	11.9	22.2	1.14	35.2	.001	< 1	2.00	.004	.03	< 2	.06	25	.5	.12	4.6
GWSS-003563	.56	73.07	39.91	124.2	76	56.8	36.7	1156	5.32	71.7	3.1	19.9	8.2	4.9	.08	1.45	.49	16	.03	.044	10.8	36.6	1.17	22.9	.002	< 1	2.69	.007	.03	< 2	.03	18	.3	.08	7.7
GWSS-003560	1.81	50.57	42.13	81.8	71	44.7	33.4	1572	3.84	52.5	.8	4.0	2.6	8.5	.08	2.55	.49	13	.13	.069	10.7	23.2	1.06	37.0	.001	< 1	1.91	.003	.03	< 2	.05	18	.3	.12	4.6
GWSS-003557	.50	32.46	47.86	82.0	120	39.3	28.5	1074	3.36	671.8	2.3	56.3	14.2	9.7	.11	1.96	.72	12	.04	.034	25.4	17.9	.56	55.3	.004	< 1	1.52	.003	.03	< 2	.06	30	.4	.26	3.7
GWSS-003566	1.05	32.69	7.73	48.0	46	15.3	14.0	551	4.65	7.5	.6	2.3	2.5	47.1	.08	.15	.20	181	.53	.045	10.4	41.2	.57	88.5	.465	1	4.25	.142	.06	.2	.14	37	.7	.12	10.5
RE GWSS-003558	.56	31.88	33.78	90.6	38	37.3	15.4	432	3.85	215.2	1.4	18.0	7.7	12.5	.08	1.50	.39	14	.03	.047	21.4	17.3	.62	36.5	.005	< 1	1.61	.005	.03	< 2	.04	9	.4	.06	4.4
GWSS-003564	.80	43.77	70.63	84.6	44	45.6	34.8	3917	5.43	143.6	1.0	34.7	3.0	3.8	.11	.66	.70	23	.02	.137	12.4	32.4	1.08	36.9	.012	< 1	2.57	.005	.03	< 2	.03	29	.5	.16	8.2
JESS-003194	.67	56.07	58.13	83.4	148	34.8	27.0	1481	3.49	68.4	1.5	9.1	3.8	5.6	.08	.89	.48	17	.06	.092	10.6	20.4	.76	25.7	.004	< 1	1.87	.010	.03	< 2	.04	50	.4	.04	5.6
JESS-003292	.68	42.88	38.05	80.8	97	34.4	13.5	827	4.44	70.0	1.5	14.4	4.5	4.6	.07	1.26	.43	17	.03	.092	11.5	28.8	.81	26.0	.005	< 1	2.00	.006	.03	< 2	.04	38	.2	.09	6.7
JESS-003295	.34	36.86	48.71	104.0	538	40.5	15.6	409	3.66	321.4	1.5	67.4	11.3	22.2	.17	3.82	.38	9	.20	.033	16.0	15.4	.43	34.8	.001	< 1	1.17	.004	.04	< 2	.03	12	.3	.06	2.9
JESS-003195	.52	49.67	42.98	105.1	87	48.9	22.2	897	4.43	23.1	.9	5.6	6.3	5.5	.08	.82	.43	15	.10	.072	11.8	25.0	1.01	15.5	.001	< 1	2.18	.005	.02	< 2	.02	27	.3	.05	6.3
JESS-003197	.70	71.55	53.98	105.2	67	57.1	38.2	2684	5.28	21.6	1.5	4.6	8.1	5.3	.07	.44	.72	17	.05	.036	26.1	32.6	1.55	23.0	.004	< 1	2.78	.004	.03	< 2	.02	21	.5	.17	7.6
JESS-003293	.65	41.93	42.80	83.6	120	34.6	35.0	1484	3.80	203.9	1.7	42.9	3.5	5.0	.09	1.66	.40	15	.04	.072	16.0	21.2	.68	32.9	.004	< 1	1.70	.010	.03	< 2	.03	11	.3	.06	4.9
JESS-003291	.86	45.05	30.01	92.0	43	46.7	20.9	1470	4.22	74.5	1.1	14.3	4.8	5.4	.07	.67	.40	20	.06	.060	16.5	33.6	1.11	21.9	.009	< 1	2.19	.006	.03	< 2	.02	14	.2	.08	6.3
JESS-003196	.53	30.96	31.48	47.3	60	23.0	17.1	2260	2.64	123.9	.8	28.3	1.2	5.2	.07	.56	.34	16	.05	.086	8.3	15.5	.54	24.0	.013	< 1	1.33	.016	.03	< 2	.02	27	.4	.10	4.4
JESS-003294	7.75	45.25	28.83	79.0	330	42.6	18.9	504	3.62	102.3	1.5	19.0	8.8	12.9	.20	2.90	.43	11	.20	.046	13.8	14.4	.61	36.3	.001	1	1.22	.003	.04	< 2	.09	26	.7	.07	3.1
JESS-003571	.53	35.89	32.38	76.5	157	35.7	24.6	834	3.22	152.0	1.7	28.3	11.1	17.8	.09	1.67	.38	15	.20	.058	22.3	21.1	.56	55.2	.008	< 1	1.34	.007	.04	< 2	.04	15	.4	.07	3.5
JESS-003574	.62	65.13	61.71	99.2	133	51.0	49.0	1578	4.09	95.9	1.6	26.7	7.0	8.0	.08	1.79	.38	14	.09	.051	21.2	26.8	1.03	36.3	.004	< 1	2.10	.008	.03	< 2	.04	26	.3	.09	6.1
JESS-003590	.68	16.66	21.52	30.6	71	10.2	2.8	149	2.57	94.0	1.3	2.5	2.2	2.8	.05	.32	.43	21	.02	.050	14.1	14.1	.33	12.2	.006	< 1	.94	.002	.02	.3	.02	10	.3	.12	6.6
JESS-003577	.32	19.84	20.69	39.3	46	17.5	7.9	400	2.14	18.4	.6	2.2	.8	4.4	.05	.43	.19	15	.06	.076	6.2	12.0	.42	14.8	.011	< 1	1.26	.015	.02	< 2	.02	27	.3	.05	4.0
JESS-003580	.54	22.41	14.95	54.4	37	13.1	4.6	319	3.24	59.0	.9	4.5	9.4	3.2	.04	.30	.29	12	.01	.024	16.0	18.4	.73	17.2	.008	1	1.46	.003	.03	.6	.02	< 5	.3	.03	4.6
STANDARD DS2	14.58	131.75	31.59	165.0	255	38.4	12.6	841	3.24	66.5	19.9	206.8	3.4	30.5	11.38	10.13	11.45	83	.56	.083	14.9	178.7	.64	153.1	.122	2	1.90	.042	.17	6.9	1.97	239	2.5	1.84	6.4

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



SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
DHSS-003665	1.03	<.1	.23	2.5	.8	1.0	.09	5.9	1.92	9.4	.02	<1	39.1
DHSS-003680	1.35	<.1	.29	3.9	.3	.4	.02	.3	1.80	26.2	<.02	<1	15.5
DHSS-003674	.40	<.1	.14	2.4	1.8	.3	.05	10.1	8.70	20.9	.03	<1	41.6
DHSS-003656	.85	<.1	.10	4.5	1.1	.4	.04	4.5	3.48	39.7	.02	<1	33.3
DHSS-003661	.81	.1	.06	2.5	2.5	.4	.05	11.2	6.99	31.0	.03	4	57.7
DHSS-003679	.54	<.1	.14	2.3	.2	.2	.03	.3	.81	13.7	<.02	<1	3.8
GWSS-003555	.50	.1	.10	1.2	1.4	.3	<.01	11.6	4.22	24.9	.02	<1	68.6
GWSS-003567	2.11	<.1	.06	2.4	1.9	.3	<.01	5.2	3.03	29.3	.02	<1	91.3
GWSS-003556	.64	<.1	.06	2.2	1.2	.4	<.01	10.1	4.38	34.7	.02	<1	47.0
GWSS-003558	.95	.1	.18	4.1	.9	.2	<.01	5.3	2.64	39.6	.02	<1	42.8
GWSS-003562	1.29	.1	.04	1.9	1.7	.3	<.01	7.5	3.38	39.6	.02	<1	85.2
GWSS-003559	.80	<.1	.20	4.1	.6	.3	.03	5.8	2.07	14.7	<.02	<1	34.4
GWSS-003565	2.20	<.1	.05	3.4	1.8	.3	.03	6.4	1.64	22.9	.03	<1	65.7
GWSS-003561	1.49	<.1	.06	4.7	1.8	.3	.03	4.5	4.63	21.9	.03	<1	57.7
GWSS-003563	2.78	<.1	.07	3.1	2.2	.6	<.01	5.0	3.00	25.3	.03	<1	86.7
GWSS-003560	1.46	<.1	.07	5.0	1.6	.3	.04	5.7	4.03	19.7	.02	<1	58.8
GWSS-003557	1.13	<.1	.14	3.7	1.2	.6	<.01	4.9	5.73	52.1	<.02	1	36.5
GWSS-003566	1.13	.1	.83	5.4	8.1	1.6	<.01	44.2	14.51	27.6	.07	<1	10.1
RE GWSS-003558	.95	<.1	.21	4.2	.9	.3	.01	5.4	2.64	39.7	.02	<1	44.4
GWSS-003564	2.05	.1	.35	3.3	1.4	.4	.05	5.6	2.44	24.6	.03	<1	73.1
JESS-003194	1.82	<.1	.18	3.4	1.2	.4	.04	6.4	3.39	20.3	.02	<1	52.7
JESS-003292	2.35	<.1	.26	4.1	1.3	.4	.05	5.6	1.65	23.0	.02	<1	56.7
JESS-003295	1.11	<.1	.07	3.5	2.0	.4	.02	6.2	6.73	29.7	.02	<1	21.8
JESS-003195	1.01	<.1	.06	2.1	1.3	.3	.03	7.6	2.43	21.3	.02	<1	69.9
JESS-003197	2.79	.1	.06	3.1	2.5	.5	.01	7.5	5.07	48.5	.03	<1	98.1
JESS-003293	1.31	<.1	.14	3.7	1.3	.3	.02	2.1	2.76	30.5	.02	1	48.9
JESS-003291	1.41	.1	.30	3.2	1.6	.4	.01	2.4	3.17	31.2	.02	<1	71.4
JESS-003196	1.51	<.1	.19	3.1	1.0	.3	.03	2.3	3.19	16.5	<.02	<1	36.3
JESS-003294	1.00	<.1	.06	3.3	2.7	.3	.03	7.5	10.88	25.5	.02	1	32.6
JESS-003571	1.04	<.1	.18	4.3	1.8	.4	.03	2.5	5.86	43.8	.02	<1	26.9
JESS-003574	1.79	<.1	.06	2.7	1.9	.2	.03	9.8	4.94	39.3	.02	<1	71.8
JESS-003590	.85	<.1	1.08	3.4	.5	.3	.03	.2	2.70	25.1	<.02	<1	19.3
JESS-003577	.85	<.1	.22	2.1	.6	.2	.05	3.7	1.29	12.4	<.02	<1	31.9
JESS-003580	1.03	<.1	.27	3.1	.8	.2	.01	2.9	3.24	32.5	<.02	<1	38.1
STANDARD DS2	2.77	<.1	2.08	15.3	3.0	26.9	.02	4.2	7.95	29.5	5.64	1	13.2

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



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
JESS-003585	.79	32.70	30.49	60.0	88	16.0	7.8	294	3.35	279.3	1.3	9.5	5.5	7.6	.06	.53	.49	16	.03	.054	39.4	24.3	.50	21.5	.006	1	1.24	.009	.03	.8	.05	11	.4	.04	5.2
JESS-003573	.74	27.45	18.72	75.9	76	29.4	10.2	535	4.63	26.2	.8	2.4	3.2	2.9	.11	.63	.39	25	.01	.138	14.4	34.4	.70	19.3	.007	1	1.80	.006	.02	<.2	.04	34	.3	.07	8.3
JESS-003588	1.71	46.48	43.88	63.5	63	18.2	6.0	238	5.13	104.4	1.8	6.7	9.7	8.5	.09	.74	.63	25	.02	.060	30.0	27.8	.53	39.1	.013	1	1.79	.007	.03	1.1	.05	15	.6	.10	6.6
JESS-003587	.86	50.84	24.45	75.0	184	24.1	16.9	409	4.01	430.4	2.6	14.8	9.1	4.8	.04	.46	.41	19	.01	.047	43.2	27.3	.62	32.3	.009	1	1.79	.006	.03	.9	.06	22	.3	.06	5.6
JESS-003592	.87	54.42	38.58	79.9	79	31.3	14.3	516	4.30	95.1	2.9	6.1	13.3	5.8	.06	.45	.44	17	.06	.081	27.5	29.3	.73	15.5	.010	<1	1.77	.008	.02	.3	.02	13	.5	.10	5.9
JESS-003581	.58	21.48	16.44	60.4	40	13.7	4.8	335	3.34	55.5	1.0	6.4	9.5	3.7	.02	.29	.34	13	.01	.023	18.3	21.1	.73	19.1	.008	<1	1.50	.007	.03	.6	.02	8	.3	.03	4.8
JESS-003569	3.12	29.38	17.27	93.1	70	41.1	13.8	367	3.77	62.5	.8	5.1	5.6	9.3	.10	1.06	.44	16	.11	.064	16.5	25.7	.98	32.1	.002	<1	1.87	.005	.03	<.2	.05	11	.2	.08	5.2
JESS-003575	.37	23.07	31.59	51.5	96	23.2	13.6	664	2.64	25.3	.7	3.5	.9	4.1	.08	.75	.52	13	.06	.095	8.1	16.9	.48	15.7	.006	<1	1.10	.014	.03	<.2	.03	56	.3	.14	3.7
JESS-003570	1.11	46.71	41.41	94.8	83	42.7	24.8	1016	3.69	127.7	1.6	36.3	6.5	8.5	.13	1.05	.51	23	.08	.066	17.1	37.6	.89	46.6	.004	<1	1.98	.011	.04	<.2	.05	24	.4	.08	5.5
JESS-003589	1.51	50.25	33.27	70.6	74	11.3	4.3	318	6.16	65.1	1.5	16.0	10.6	8.8	.08	1.45	.66	14	.05	.075	18.3	23.7	.56	25.4	.012	<1	1.55	.006	.02	.4	.03	34	.9	.18	5.0
JESS-003576	.74	46.67	40.95	116.1	78	53.8	27.2	902	4.72	68.4	1.6	12.2	7.4	5.6	.08	.87	.42	17	.08	.043	17.4	39.1	1.17	19.1	.002	<1	2.39	.006	.02	<.2	.02	18	.2	.08	7.1
JESS-003572	.70	44.40	54.81	87.7	88	33.7	15.0	335	3.67	105.8	2.3	9.5	11.1	15.1	.08	1.86	1.26	15	.06	.067	28.7	16.8	.43	32.9	.005	1	1.38	.009	.05	<.2	.07	19	.3	.30	3.8
JESS-003584	.54	21.26	14.37	15.2	171	4.3	1.9	67	1.41	14.6	.9	1.7	.5	3.0	.06	.19	.25	13	.02	.043	13.2	10.3	.13	15.6	.010	<1	.85	.020	.02	.2	.02	27	.3	.07	3.0
RE JESS-003587	.88	49.09	24.55	73.5	184	23.9	16.4	393	3.90	424.9	2.6	27.5	9.2	4.5	.03	.42	.42	19	.01	.045	42.2	27.9	.63	32.7	.009	<1	1.84	.003	.03	.9	.06	23	.3	.07	5.4
JESS-003593	.84	32.01	22.05	47.3	90	16.9	7.4	232	2.18	43.0	1.3	8.4	1.9	8.2	.18	.51	.44	20	.03	.064	18.6	17.4	.27	44.0	.008	<1	1.21	.007	.03	.4	.04	28	.4	.08	5.0
JESS-003583	1.10	42.48	24.00	37.2	338	12.1	4.9	122	2.83	39.6	1.5	4.7	6.0	4.2	.17	.48	.32	20	.02	.036	24.1	14.9	.23	19.4	.019	<1	1.16	.012	.03	.6	.05	32	.3	.04	4.6
JESS-003586	.50	17.36	17.19	47.2	294	10.3	3.7	218	3.34	321.7	.8	18.4	6.6	3.9	.32	.31	.28	16	.01	.096	27.0	19.3	.40	8.1	.004	<1	1.16	.005	.02	1.1	.02	56	.5	.03	5.0
JESS-003568	2.32	49.86	32.08	103.1	113	49.8	19.6	589	4.26	86.3	1.3	26.4	7.6	8.2	.15	1.39	.44	15	.12	.043	17.6	31.4	1.09	20.6	.001	<1	2.03	.006	.02	<.2	.03	24	.4	.09	5.3
JESS-003579	.96	32.85	33.88	93.7	48	40.2	15.5	1163	5.03	39.6	.7	5.7	3.8	3.1	.12	.54	.50	23	.02	.082	12.0	34.1	.99	16.8	.008	<1	2.10	.005	.02	<.2	.02	43	.4	.08	7.8
JESS-003591	1.10	17.43	15.95	45.3	36	11.9	4.5	230	5.88	190.3	.8	16.7	7.3	2.7	.05	.67	.61	40	.01	.058	16.5	28.7	.29	15.4	.028	<1	1.16	.003	.02	5.5	.05	23	.4	.10	10.0
JESS-003582	.63	12.89	14.91	21.4	93	4.2	1.9	68	2.12	20.5	.6	2.2	.9	2.8	.03	.31	.31	18	.01	.032	13.0	9.4	.14	13.2	.009	<1	.57	.007	.02	.3	.02	11	.2	.04	4.4
STANDARD DS2	13.27	130.55	30.87	164.1	250	37.2	12.8	823	3.19	62.0	19.5	193.7	3.3	30.6	11.47	9.62	10.82	81	.55	.082	14.4	171.2	.59	142.3	.118	2	1.73	.041	.16	7.2	1.84	232	2.5	1.94	6.1

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



SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
JESS-003585	5.12	<.1	.30	3.6	.6	.6	.03	1.3	5.21	73.5	.02	<1	29.1
JESS-003573	1.55	<.1	.50	4.5	.8	.6	.07	8.1	1.59	28.2	.02	<1	49.9
JESS-003588	2.45	<.1	1.00	4.7	1.0	.6	.03	1.3	5.25	58.3	.04	<1	31.9
JESS-003587	3.66	<.1	.52	4.1	1.0	.5	.02	2.3	14.03	96.2	.02	<1	43.4
JESS-003592	1.09	<.1	.30	2.6	1.0	.4	.01	4.2	4.53	54.5	.02	<1	50.4
JESS-003581	1.17	<.1	.30	3.4	.8	.2	<.01	1.3	3.73	38.9	<.02	<1	39.7
JESS-003569	.84	<.1	.11	3.6	1.4	.2	.02	7.6	3.61	31.3	.02	<1	64.3
JESS-003575	.84	<.1	.19	2.2	.5	.5	.07	3.1	1.26	15.4	<.02	<1	38.9
JESS-003570	1.18	<.1	.26	5.2	2.0	.3	.01	7.7	4.52	33.6	.03	<1	50.5
JESS-003589	.86	<.1	.85	3.7	.6	.4	.03	.9	5.15	37.0	.03	<1	34.2
JESS-003576	1.14	<.1	.06	2.3	1.6	.2	.01	4.9	3.27	33.6	.02	<1	89.4
JESS-003572	1.17	<.1	.33	5.9	1.4	1.0	.02	4.1	4.34	57.2	<.02	<1	23.3
JESS-003584	.76	<.1	.30	1.9	.1	.3	.03	.6	2.53	25.6	<.02	<1	8.2
RE JESS-003587	3.58	<.1	.56	4.1	.9	.5	.02	2.2	13.58	94.0	.02	<1	42.3
JESS-003593	1.79	<.1	.54	6.1	.3	.6	.02	1.3	6.09	37.2	.02	<1	19.8
JESS-003583	2.70	<.1	1.11	4.2	.6	.5	.02	.4	7.44	60.3	.02	1	16.4
JESS-003586	1.87	<.1	.31	2.3	.6	.2	.05	1.3	2.30	53.0	<.02	<1	23.6
JESS-003568	.76	<.1	.06	1.7	1.9	.2	<.01	9.5	7.22	33.0	.02	<1	74.6
JESS-003579	1.96	.1	.48	3.4	1.0	.3	.04	6.5	1.65	23.1	.02	<1	66.5
JESS-003591	.62	<.1	2.06	2.5	.6	.7	.01	1.0	2.27	34.1	.02	<1	16.0
JESS-003582	.83	<.1	.30	2.5	.2	.3	.02	.1	2.97	25.9	<.02	<1	7.7
STANDARD DS2	2.71	<.1	2.18	14.1	3.0	25.6	.02	4.0	8.25	30.6	5.46	<1	13.4

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

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GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT 2316 File # 9902090
405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: M. Buchanan

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SAMPLE#	Mu	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	So	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Fl	Hg	Se	Te	Ga	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	%	ppm	ppm	ppb	ppm	ppm	ppm	
GEHR-001284	1.06	21.88	18.27	79.3	37	26.7	10.1	501	3.36	7.0	1.4	1.5	16.0	4.0	11.5	30	.14	10	06	012	9.8	27.8	62	14.7	006	1.1	59	021	.04	2.0	.04	10	<1	05	5.0	
GEHR-001277	32	7.58	5.18	20.8	14	7.8	3.2	236	1.01	11.0	.4	1.1	6.5	2.7	05.2	64	.07	5	07	008	10.6	14.1	.13	18.7	.002	1	.48	031	.06	3.0	.02	<5	<1	02	1.5	
GEHR-001293	2.26	2.92	.54	2.7	4	5.4	4	45	41	1.9	<1	3	.6	6	02.2	08	<0.2	<2	01	003	5	19.8	02	3.0	<0.01	<1	05	004	01	8.3	<0.2	<5	<1	<0.2	2	
GEHR-001287	1.00	6.36	10.06	19.8	11	10.1	3.2	213	1.06	5.0	.3	7	3.6	8.5	04.4	28	.06	5	24	010	9.7	23.1	19	11.9	001	<1	55	026	01	3.3	<0.2	<5	<1	03	1.9	
GEHR-001280	.33	3.24	5.33	8.7	24	2.9	1.5	132	.56	7.9	1	1.1	1.3	83.2	05.1	45	.03	2	2.59	007	1.1	18.2	.07	3.1	601	<1	13	005	02	3.4	<0.2	<5	5	01	4	
GEHR-001300	2.21	3.79	.48	4.3	5	5.5	8	75	17	2.4	1	5	7	3.1	01	70	<0.2	<2	12	003	1.9	21.0	01	6.1	<0.01	<1	05	007	02	8.2	<0.2	<5	3	<0.2	1	
GEHR-001285	37	2.19	2.88	21.2	25	15.9	6.8	2807	3.38	21.4	5	10	3.8	218.1	60	.54	.01	3	11	05	037	4.8	2.0	5.22	12.6	002	<1	15	014	01	5	.02	<5	1.2	16	3
GEHR-001294	10	12.17	7.77	17.7	23	7.9	2.9	101	1.31	19.1	2	1.5	2.3	89.0	70	.56	.11	3	12	71	039	6.2	2.9	3.91	45.2	005	<1	.32	020	04	2	<0.2	<5	3.2	11	5
GEHR-001278	2.41	5.66	3.97	11.7	19	6.5	1.0	53	60	6.5	3	6	1.6	2.3	02	.44	.09	2	08	012	3.7	21.5	02	11.7	001	<1	.17	019	04	9.0	.03	<5	3	06	3	
GEHR-001297	1.13	7.92	1.13	6.0	10	3.6	8	102	.55	2.7	2	6	2	2.1	.02	1.54	<0.2	<2	07	006	1.1	18.3	.01	4.0	<0.01	1	.08	.008	01	4.0	<0.2	5	1.0	<0.2	2	
GEHR-001286	.39	3.26	4.53	3.7	25	2.5	1.4	139	.42	4.1	<1	5	<1	15.0	.07	.80	.03	<2	63	009	.9	16.2	23	3.6	<0.01	<1	05	005	01	3.6	<0.2	<5	9	<0.2	1	
GEHR-001279	2.54	8.93	8.97	16.6	40	10.1	3.5	325	1.09	5.1	5	.8	6.8	29.9	.05	.34	.09	7	1.46	174	14.9	33.2	.20	28.8	.009	4	.81	038	.06	9.2	.02	<5	1.5	01	1.8	
GEHR-001298	81	6.85	10.71	27.2	17	9.2	3.7	399	1.19	7.7	4	1.2	5.8	47.3	.07	.72	.06	5	99	.011	12.3	18.3	.16	30.4	.002	3	.55	.047	.06	3.0	.02	6	<1	03	1.5	
GEHR-001288	.10	13.26	8.15	45.9	16	46.5	19.5	683	3.97	19.9	7	6	5.0	134.2	.10	.24	.05	78	5.78	069	9.9	198	2.2	91	46.7	007	1	2.41	.043	11	<2	.03	<5	<1	09	5.9
GEHR-001281	.65	52.46	23.39	80.0	97	39.8	3.8	152	4.50	30.6	1.3	1.5	12.6	8.9	.05	.67	.83	12	07	054	7.7	30.1	.81	46.5	.009	2	1.89	.048	.13	<2	.04	15	<1	17	5.4	
GEHR-001292	.66	1.41	2.79	3.4	<2	1.1	.6	390	.53	4.7	<1	<2	4.47	1.2	.07	.30	.08	<2	12	25	.003	6.7	7.2	.09	4.7	001	2	.07	.007	.01	2.4	.03	<5	1	25	2
GEHR-001299	.29	7.86	11.66	20.5	20	9.8	3.8	322	1.64	11.4	8	2.6	6.0	20.4	.04	.54	.07	5	97	010	10.5	17.5	.10	23.9	.002	<1	.48	064	.06	2.0	.02	5	.3	.05	1.0	
GEHR-001291	.49	20.06	5.23	38.5	20	26.5	3.9	148	3.17	8.8	1.0	1.3	11.1	17.4	.02	.47	.41	14	05	.034	22.3	24.8	.66	68.3	.024	1	1.88	.035	.15	.8	.01	7	<1	07	5.0	
GEHR-001282	.50	9.02	10.17	21.7	45	9.9	5.4	423	1.64	158.9	1.5	4.2	5.9	3.5	.09	.81	.11	3	05	027	9.0	13.2	.03	23.3	.001	1	.26	.008	.06	3.4	.03	10	1.5	.05	7	
GEHR-001290	.61	30.45	3.65	49.9	30	124	0.30	754	4.27	2.8	2	.7	2.8	62.3	.18	.27	.06	121	2.45	041	9.2	250	8.4	4.00	92.2	.025	3	3.19	.059	.07	2	.02	7	2.1	.10	10.2
RE GEHR-001290	.59	31.75	4.17	51.8	15	125	7.30	764	4.39	2.7	2	.7	1.9	63.2	.18	.24	.07	123	2.51	040	9.3	262	4.4	17	96.8	.026	3	3.36	.062	.07	<2	.02	<5	1.3	.10	10.5
GEHR-001295	.31	13.88	10.75	22.6	30	12.4	4.8	382	1.59	33.1	3	1.4	2.4	70.2	.76	4.49	.15	3	11	41	042	4.9	5.2	3.08	46.7	.003	1	.21	.019	.05	3	<0.2	<5	4.1	11	4
GEHR-001283	.32	2.51	2.30	3.4	11	1.9	5	116	.35	1.4	<1	4	<1	7	.01	.53	<0.2	<2	08	003	5	16.1	.03	1.9	<0.01	<1	.06	.003	<0.1	3.2	<0.2	<5	2.5	.02	3	
GEHR-001289	1.13	8.48	4.19	14.3	13	10.3	4.8	231	.91	1.5	<1	<2	<1	50.4	12	.44	.03	14	59	016	3.2	45.7	.39	7.4	.002	1	.53	.007	.02	3.5	<0.2	5	2.2	.03	1.3	
GEHR-001296	.50	36.30	1.10	18.7	10	8.5	2.1	148	1.25	1.3	2	1.2	.6	1.7	.02	.45	.02	3	02	008	3.3	22.6	.20	4.9	.001	<1	.51	.017	.02	5.2	<0.2	<5	1.6	<0.2	1.5	
MHR-001255	3.02	16.79	451.89	54.7	1076	31.1	3.3	216	1.60	31.1	5	11.8	3.4	2.9	.06	3.10	1.42	6	04	009	6.9	25.9	.06	10.9	.001	<1	.29	.007	.04	6.6	.07	36	1.2	13	7	
ALFR-001153	.24	12.61	11.89	16.4	.45	7.1	3.5	420	1.30	15.8	9	3.6	3.4	107.0	.55	3.21	.12	3	13	14	040	5.1	2.7	3.25	51.1	.001	1	.18	.016	.06	5	.02	<5	2.0	14	3
ALFR-001111	1.08	8.45	26.97	9.0	.76	6.0	3.1	73	2.18	6.4	.9	5.5	4.7	31.2	.04	1.13	.10	2	33	012	7.4	17.1	.04	33.1	.002	1	.30	.033	.07	3.7	.06	8	2.0	.04	5	
ALFR-001148	.64	23.55	19.23	49.1	.66	31.7	12.3	451	3.13	17.3	1.6	2.5	12.4	33.2	.08	1.08	.32	9	71	039	20.3	21.9	.55	38.8	.013	1	1.47	.016	.08	1.2	.03	14	1	.06	3.6	
ALFR-001126	.69	10.00	6.28	43.3	.21	26.9	5.8	210	2.25	9.7	.6	9	9.7	4.9	.05	.30	.11	11	12	010	11.0	28.9	.46	35.2	.007	1	1.24	.035	.10	1.9	.02	<5	7	.05	4.0	
ALFR-001160	.21	2.05	1.46	100.5	.2	38.5	14.0	372	7.62	7	<1	7	2.1	65.7	.05	.10	.02	21	2.57	011	6.3	16.1	2.07	8.0	.010	<1	3.67	.010	.02	2.0	<0.2	<5	2	.09	10.9	
ALFR-001150	1.30	20.70	16.76	44.2	.53	28.6	10.0	713	3.07	5.0	1.4	1.1	8.1	563.9	.12	.16	.28	10	7.40	022	11.9	26.2	.67	47.1	.007	1	1.59	.017	.11	2.4	.03	25	1.6	.21	4.1	
ALFR-001147 A	.45	17.52	23.02	77.1	.40	25.2	3.0	218	3.39	6.0	3.1	<2	10.7	16.4	.03	.40	.33	14	08	046	14.2	26.3	.84	62.7	.031	1	1.81	.038	.12	4	.03	7	5	.06	5.2	
ALFR-001143	.32	6.60	5.79	11.6	.25	7.5	3.3	291	1.10	4.1	5	7	6.9	81.5	.04	.37	.07	4	2.11	014	7.2	16.0	.18	22.6	.002	<1	.41	.025	.06	3.1	<0.2	<5	2.1	.05	1.1	
STANDARD DS2	13.95	130.41	29.74	164.4	243	37.7	11.3	829	3.18	63.1	25.6	191.2	3.4	25.5	10.28	9.26	10.74	.82	.56	.081	14.4	185.1	.69	158.6	.126	<1	1.99	.043	.13	6.5	2.03	230	2.6	1.62	6.0	

15 GRAM SAMPLE IS DIGESTED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 300 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.

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

DATE RECEIVED: JUL 7 1999 DATE REPORT MAILED: *July 16/99* SIGNED BY: *C. Leong* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Si %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
ALFR-001167	2.38	4.83	4.59	4.1	12	6.2	2.1	338	.66	2.4	.3	.7	4.7	61.0	.03	.31	.05	2	3.33	.012	9.0	21.1	.07	17.0	.001	1	.27	.020	.07	8.9	.02	<5	.4	.05	.5
SOWR-001201	1.05	4.71	16.57	3.5	28	3.1	.3	34	.35	200.7	.3	86.7	3.1	42.0	.39	1.11	.06	2	.03	.005	10.0	13.7	.01	25.6	.001	1	.24	.004	.08	4.0	.06	45	<1	.04	.6
ALFR-001164-A	.36	6.02	6.65	18.3	10	7.6	2.5	229	1.39	10.1	.4	2.5	5.6	56.1	.04	.28	.06	4	1.72	.009	8.2	19.4	.22	45.6	.003	1	.71	.040	.14	2.8	.03	9	.2	.04	1.8
ALFR-001145	.41	9.67	5.01	46.5	7	34.5	18.4	696	3.81	4.1	.4	1.4	4.8	52.1	.07	.19	.03	99	2.83	.045	8.0	171.0	2.91	45.0	.054	2	2.69	.070	.10	.8	.02	9	<1	.08	6.8
ALFR-001149	.68	14.98	22.12	30.6	53	21.7	7.7	457	2.25	5.9	1.2	1.3	5.7	255.8	.12	.38	.21	5	7.91	.023	11.3	16.0	.40	35.7	.004	1	.96	.013	.09	2.0	.03	21	<1	.12	2.0
ALFR-001154	.39	6.68	3.96	25.7	15	11.8	3.7	323	1.53	11.4	1.1	.2	5.9	5.5	.07	.29	.07	4	.24	.013	10.7	17.6	.13	30.8	.001	1	.49	.026	.07	3.5	.02	5	.4	.02	1.0
ALFR-001161	2.75	12.45	8.32	14.4	28	12.2	6.1	275	1.19	8.0	.4	2.2	3.9	48.2	.05	.64	.14	3	.89	.013	8.5	31.9	.16	20.2	.001	1	.45	.027	.07	10.2	.02	<5	.4	.05	1.2
ALFR-001151	.82	4.50	1.57	13.8	11	10.2	2.6	131	1.26	5.0	.3	.4	4.5	5.8	.04	.27	.06	5	.09	.009	10.8	22.3	.25	21.2	.002	<1	.72	.030	.07	3.1	.02	5	.4	.03	1.9
ALFR-001146	.09	8.61	6.11	36.4	11	59.3	16.6	560	2.92	2.4	.5	.2	3.7	46.1	.06	.08	.02	77	3.76	.031	6.6	209.5	2.78	40.0	.086	1	2.41	.056	.06	.5	<2	6	<1	.05	6.1
ALFR-001166	1.60	18.43	3.01	32.5	18	19.2	6.4	499	2.47	1.1	.3	1.0	5.7	52.2	.05	.19	.12	14	2.18	.015	11.5	33.0	.53	24.8	.006	1	1.30	.063	.08	4.7	.04	<5	.2	.09	4.3
ALFR-001164-B	1.07	3.26	11.94	6.0	22	5.5	2.5	664	1.03	2.2	.7	.3	5.9	7.2	.02	.40	.09	2	.59	.015	10.5	17.1	.07	14.0	.001	<1	.24	.040	.03	3.9	<2	<5	.4	.03	.4
ALFR-001155	.23	7.06	6.93	19.7	20	9.6	4.0	148	1.43	.3	.4	.2	6.0	16.6	.04	.10	.06	6	.50	.011	13.2	18.2	.35	53.1	.004	1	.79	.062	.15	1.7	.04	8	.3	.03	2.4
ALFR-001147-B	1.39	6.50	8.11	27.0	19	15.7	5.0	739	1.95	5.6	.7	.4	7.0	84.8	.08	.33	.10	17	4.56	.013	11.0	32.0	.41	40.8	.011	1	1.06	.055	.10	3.8	.03	<5	.7	.06	3.3
ALFR-001162	.78	19.57	13.64	51.0	19	19.0	6.9	708	2.01	3.4	.6	.9	6.8	92.6	.09	.18	.18	8	2.29	.025	16.0	25.5	.38	44.5	.009	1	1.12	.025	.10	2.5	.03	9	.3	.06	2.7
ALFR-001156	.22	8.99	14.70	16.0	20	5.2	2.2	118	.88	9.5	.4	.3	4.6	18.0	.04	.18	.04	2	.52	.009	10.9	10.1	.06	64.3	.002	1	.44	.051	.18	2.0	.05	<5	.2	.02	.9
ALFR-001163	1.60	40.88	25.27	51.1	46	32.6	14.3	298	2.73	2.1	2.0	.6	10.5	23.1	.05	.26	.28	9	.48	.026	24.0	28.4	.38	87.4	.016	1	1.42	.036	.25	3.9	.06	<5	<1	.04	2.7
ALFR-001157	1.06	12.73	10.13	21.5	25	19.9	8.8	219	1.59	10.9	.9	<2	6.0	31.1	.07	.29	.16	4	1.14	.012	12.2	16.2	.22	61.5	.003	1	.68	.028	.19	3.4	.08	11	.1	.18	1.8
ALFR-001152	.25	27.70	5.30	54.1	13	105.9	23.5	756	4.36	18.0	.2	.2	3.6	55.3	.08	.18	.05	138	3.68	.033	10.5	330.9	4.05	39.5	.010	1	3.18	.070	.07	.2	.03	8	<1	.09	7.8
ALFR-001168	2.21	10.49	7.27	19.8	15	15.9	4.8	266	1.72	18.5	.5	3.5	5.9	3.9	.04	.55	.07	6	.21	.011	16.8	28.6	.26	30.3	.003	1	.82	.051	.11	7.5	.03	<5	.2	.03	2.1
ALFR-001159	.76	26.65	37.41	80.6	229	21.8	9.7	207	3.14	9.0	4.2	.5	11.3	11.3	.05	.47	.39	8	.26	.122	25.6	15.5	.59	78.8	.006	1	1.49	.012	.28	.5	.07	31	<1	.08	3.2
ALFR-001165	.34	30.73	10.28	47.4	29	132.2	25.9	608	3.64	2.5	.5	1.1	2.8	37.9	.06	.03	.19	102	2.53	.031	7.4	407.5	4.31	81.7	.131	1	3.35	.098	.05	<2	<2	6	.4	.05	7.8
ALFR-001158	.87	13.58	17.37	47.7	20	24.6	8.8	250	2.41	6.4	.6	.4	5.1	9.2	.05	.38	.12	12	.32	.017	8.9	26.3	.51	86.1	.016	1	1.41	.077	.21	2.1	.05	<5	.1	.04	3.2
SOWR-001203	1.17	6.48	7.67	5.9	33	4.4	.6	42	.38	306.6	.4	11.5	3.5	28.8	.16	.61	.06	2	.01	.005	10.6	18.2	.01	33.9	.001	1	.26	.005	.09	4.1	.05	39	.1	.03	.6
RE SOWR-001203	.95	5.28	6.85	5.9	28	3.6	.5	35	.37	309.9	.4	10.1	3.1	26.7	.14	.53	.05	2	.01	.005	9.3	14.3	.01	29.7	.001	1	.23	.004	.08	3.5	.04	37	.2	.03	.5
JKDR-001302	.72	16.04	33.86	47.1	298	11.9	3.0	142	3.83	15.8	2.7	.2	10.2	21.4	.02	.89	.45	9	.53	.281	19.5	20.8	.63	66.7	.005	1	1.40	.011	.24	<2	.06	48	.2	.11	3.4
JKDR-001304	2.92	9.62	13.87	9.9	39	7.0	1.2	65	.72	.4	.2	<2	.8	2.0	<.01	.16	.06	<2	.04	.010	2.8	30.0	.04	10.1	.001	<1	.13	.005	.04	10.9	<2	<5	.2	<2	.4
ACTR-001009	.74	24.82	147.13	16.9	532	7.5	6.8	113	10.80	5.8	.7	2.6	12.5	4.6	.06	.24	8.02	12	<.01	.024	11.6	22.5	.17	86.9	.018	<1	1.06	.013	.18	1.3	.04	31	.7	.36	7.2
JKDR-001301	.23	7.84	27.50	46.8	52	25.6	9.6	176	2.80	6.9	1.9	8.1	14.4	7.8	.02	.60	.56	18	.09	.040	32.3	41.0	.92	133.5	.034	1	2.33	.048	.31	.2	.07	6	.2	.05	6.1
SOWR-001202	2.33	6.77	9.85	5.0	28	4.2	.4	43	.50	300.8	.3	25.7	4.0	27.7	.23	.67	.06	2	.01	.005	8.3	22.7	.01	22.6	.001	1	.19	.003	.07	7.9	.04	47	1.3	.04	.5
A-001008	1.44	11.29	39.25	12.1	141	9.4	5.8	1295	.70	2.3	1.3	2.3	1.1	65.4	.04	.14	.74	<2	1.73	.005	1.6	19.7	.05	6.7	<.001	<1	.20	.007	.01	4.4	<2	<5	.5	.04	.4
JKDR-001303	.85	13.19	4.66	189.0	32	8.2	3.9	264	1.15	5.9	.6	.8	1.6	11.0	.16	.43	.09	<2	.42	.009	3.3	18.7	.10	24.2	.001	1	.33	.010	.09	3.9	.02	10	.2	.02	.7
ACTR-001010	2.36	165.24	3.40	6.2	43	5.5	.7	226	.44	.7	.1	<2	<1	18.9	.01	.32	<.02	<2	.29	.002	2.5	29.3	.02	2.9	<.001	<1	.06	.001	.01	9.3	<2	<5	.3	<2	.2
SMR-001229	5.28	20.02	50.94	97.7	242	34.8	21.3	711	4.11	1.5	1.0	.9	10.6	5.3	.07	.17	2.39	16	.06	.025	14.4	34.5	1.03	180.2	.034	<1	2.40	.025	.12	3.0	.03	<5	<1	.13	4.9
SMR-001226	.63	8.68	1.59	21.9	4	5.2	4.8	557	1.11	.2	<1	<2	.6	6.9	<.01	.17	.10	4	.09	.043	.7	25.2	.27	13.1	.002	<1	.56	.004	.01	4.9	<2	<5	<1	<2	1.6
SMR-001231	2.65	12.21	1.42	44.4	2	24.5	8.3	395	1.96	.3	.4	.2	2.3	3.3	<.01	.09	.09	9	.02	.011	8.5	44.2	.48	59.2	.019	<1	1.36	.046	.04	8.5	<2	<5	<1	.03	2.8
STANDARD DS2	14.17	129.93	31.17	164.0	260	38.2	12.5	833	3.16	63.2	27.1	209.5	3.4	28.4	11.18	9.42	11.10	83	.56	.081	15.1	178.3	.67	152.1	.121	1	1.92	.044	.16	7.1	2.11	253	1.8	1.93	6.0

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



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
GSMR-001351	1.18	16.70	62.09	27.2	139	14.2	21.8	1195	1.68	2.8	.6	2.2	2.7	7.7	.06	.14	.93	5	.25	.066	7.0	32.5	.26	14.3	.007	<1	.70	.010	.02	3.6	<.02	<5	.2	.03	1.7
GSMR-001230	6.19	53.16	4.10	99.7	85	142.7	31.9	884	5.61	3.1	2.1	.7	6.4	145.0	.24	.37	.04	83	1.95	.318	35.5	79.5	2.18	286.9	.593	6	2.97	1.494	.35	.6	.10	9	.1	.06	8.2
GSMR-001227	3.47	19.35	28.83	27.4	96	10.0	1.9	95	1.76	39.8	.2	<.2	2.8	1.9	.01	.27	.44	4	.02	.016	5.4	34.3	.15	55.7	.003	<1	.41	.006	.07	9.5	<.02	<5	.2	<.02	1.0
GSMR-001232	.93	6.45	63.09	23.9	40	9.9	5.7	6382	2.22	1.0	.4	<.2	1.4	24.6	.10	.07	.14	4	2.05	.030	3.5	20.4	.15	25.2	.005	<1	.41	.011	.03	3.4	<.02	<5	.2	<.02	1.0
GSMR-001228	7.61	23.61	72.35	75.1	178	30.5	18.5	766	5.08	9.7	.7	<.2	11.9	8.0	.14	.23	2.00	16	.06	.027	38.9	30.3	.67	181.9	.026	1	2.00	.018	.13	2.2	.03	<5	<.1	.10	4.9
RE GSMR-001228	7.48	23.38	76.88	74.3	180	29.5	17.9	748	4.97	9.0	.7	<.2	12.7	7.9	.12	.24	1.94	16	.05	.026	35.3	27.4	.64	180.3	.027	<1	1.93	.018	.13	2.1	.03	<5	<.1	.11	4.7
STANDARD DS2	14.38	129.00	30.52	164.1	248	38.1	12.5	822	3.16	62.1	20.7	195.2	4.4	28.0	11.44	9.62	10.60	82	.56	.082	13.4	169.9	.65	147.6	.117	2	1.86	.042	.16	6.7	2.06	249	2.2	1.90	5.9

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

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GEOCHEMICAL ANALYSIS CERTIFICATE

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Hudson Bay Expl. & Dev. Co. Ltd. PROJECT 2316 File # 9902090

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405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: M. Buchanan

SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
GEBR-001284	.24	<.1	.05	1.7	2.0	1.0	.02	7.5	.91	23.9	.02	<1	41.9
GEBR-001277	.31	<.1	.05	2.9	.8	.5	.04	3.4	.99	28.1	<.02	<1	8.5
GEBR-001293	.02	<.1	.04	.3	.4	.3	.03	1.4	.07	1.3	<.02	<1	1.9
GEBR-001287	.13	<.1	.03	1.9	.6	.2	.03	1.8	.73	23.9	<.02	<1	11.8
GEBR-001280	.10	<.1	.02	.6	1.0	<.1	.03	.7	2.48	3.2	.02	<1	3.6
GEBR-001300	.07	<.1	<.02	.9	<.1	<.1	.02	.7	.41	5.2	<.02	<1	.3
GEBR-001285	.08	<.1	.02	1.7	3.9	<.1	<.01	3.1	8.28	12.8	.02	4	1.9
GEBR-001294	.10	<.1	.02	1.5	1.4	<.1	<.01	3.5	5.78	15.5	.02	<1	3.3
GEBR-001278	.25	<.1	.04	2.1	<.1	.4	<.01	2.4	.36	9.8	<.02	2	.6
GEBR-001297	.03	<.1	.02	.4	.4	<.1	.01	.6	.26	3.1	<.02	1	.9
GEBR-001286	.03	<.1	.02	.5	.4	<.1	.01	.5	.50	2.3	<.02	<1	.3
GEBR-001279	.37	<.1	.02	3.1	1.1	<.1	<.01	4.3	2.88	38.4	<.02	<1	9.6
GEBR-001298	.22	<.1	<.02	3.3	.6	<.1	<.01	3.5	2.18	34.5	<.02	<1	4.9
GEBR-001288	.90	<.1	.02	4.9	15.5	<.1	.04	7.2	4.88	24.4	.04	1	36.3
GEBR-001281	1.62	<.1	.02	6.1	1.3	.1	.24	6.8	.97	17.7	.02	<1	40.1
GEBR-001292	.05	<.1	.14	.5	.6	.6	.01	.7	7.75	19.2	.02	<1	1.9
GEBR-001299	.34	<.1	.05	2.9	1.1	.3	.02	4.4	2.09	29.1	<.02	1	2.8
GEBR-001291	.31	<.1	.04	7.1	.7	.2	.03	7.8	1.56	38.5	<.02	<1	35.4
GEBR-001282	.26	<.1	.05	2.9	1.4	.3	.03	9.8	2.03	24.3	<.02	2	1.5
GEBR-001290	2.49	.1	.04	3.8	19.6	.2	.09	4.7	4.88	24.4	.03	<1	75.0
RE GEBR-001290	2.53	.1	.03	3.8	20.3	.2	.09	4.6	4.98	24.6	.04	<1	77.1
GEBR-001295	.32	<.1	.03	2.2	4.1	<.1	.04	6.3	5.68	12.4	.02	<1	2.4
GEBR-001283	.02	<.1	.02	.1	1.4	<.1	<.01	1.1	.11	1.2	<.02	2	.9
GEBR-001289	.07	<.1	.02	.7	2.5	.1	.01	1.4	.97	7.6	<.02	<1	14.7
GEBR-001296	.09	<.1	.10	.7	1.7	.8	.02	1.1	.38	8.7	<.02	<1	10.1
MDBR-001255	.20	<.1	.04	1.8	1.7	.2	.04	2.3	.62	18.0	.02	<1	2.6
ALFR-001153	.22	<.1	.04	2.4	2.5	<.1	<.01	6.2	7.13	14.3	<.02	<1	.8
ALFR-001144	.15	<.1	.03	2.9	1.0	2.6	.22	2.6	.93	18.5	.02	<1	.1
ALFR-001148	.62	<.1	.03	4.2	3.1	.4	.03	7.7	4.55	38.4	.02	<1	21.5
ALFR-001126	.17	<.1	.02	4.3	2.1	.2	.02	2.7	.85	36.1	<.02	<1	23.1
ALFR-001160	.14	.2	.03	.8	2.0	<.1	<.01	.6	2.27	17.8	<.02	<1	102.6
ALFR-001150	.27	<.1	.03	5.3	2.7	.3	.02	6.0	8.29	29.4	.04	<1	39.2
ALFR-001147-A	.25	<.1	.02	5.5	1.6	.2	.09	7.3	1.70	32.6	<.02	<1	46.7
ALFR-001143	.12	<.1	.03	2.4	1.7	.2	.03	3.8	1.27	17.3	<.02	1	7.1
STANDARD DS2	2.97	.1	1.57	13.3	3.2	26.2	<.01	4.2	4.73	36.0	5.89	1	12.1

15 GRAM SAMPLE IS DIGESTED WITH 90 ML 2-2-2 HCL-HNO₃-H₂O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 300 ML WITH WATER FOLLOWED BY ANALYSIS BY ICP/ES & MS. THIS LEACH IS PARTIAL FOR ALL ELEMENTS.

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

DATE RECEIVED: JUL 7 1999 DATE REPORT MAILED: July 16/99 SIGNED BY: C. Leong D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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

Data 4 FA



SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
ALFR-001167	.14	<.1	.12	2.9	.4	.9	.01	1.6	2.27	22.4	<.02	<1	2.5
SDWR-001201	.40	<.1	.05	4.0	.3	.8	.04	1.5	.46	24.1	<.02	<1	.4
ALFR-001164-A	.25	<.1	.07	6.2	.8	.5	.01	1.8	.96	19.5	<.02	<1	7.7
ALFR-001145	.83	.1	.05	4.0	12.7	.4	.01	6.9	4.17	20.9	.03	<1	43.5
ALFR-001149	.22	<.1	.04	4.0	2.0	.2	<.01	4.8	6.56	25.0	.02	<1	17.6
ALFR-001154	.28	<.1	.04	3.3	1.5	.2	.01	2.6	3.18	27.5	.02	<1	5.8
ALFR-001161	.16	<.1	.02	3.1	.8	.3	.05	2.1	2.11	21.9	<.02	<1	7.6
ALFR-001151	.17	<.1	.03	2.9	1.1	.2	.01	2.8	.75	24.2	<.02	<1	15.0
ALFR-001146	.72	.1	.03	2.3	6.2	.3	<.01	6.4	3.81	15.8	.02	<1	43.2
ALFR-001166	.13	<.1	.02	3.7	2.1	.4	<.01	3.5	2.25	29.7	.02	<1	25.3
ALFR-001164-B	.10	<.1	.02	1.5	.9	.3	<.01	2.3	1.68	26.8	<.02	<1	1.1
ALFR-001155	.33	<.1	.02	6.4	.9	.2	<.01	3.6	1.03	30.3	<.02	<1	8.8
ALFR-001147-B	.82	<.1	.06	5.5	2.0	.2	.03	3.7	4.22	28.6	.03	<1	18.1
ALFR-001162	.24	<.1	<.02	4.6	1.1	.2	.03	3.6	2.89	36.1	<.02	<1	22.1
ALFR-001156	.51	<.1	.03	8.0	.7	.1	.01	5.6	1.39	26.0	<.02	<1	2.4
ALFR-001163	.39	<.1	<.02	10.5	<.1	.2	.05	7.6	4.17	40.3	<.02	<1	14.3
ALFR-001157	.44	<.1	.26	8.3	.9	.9	.05	2.6	2.14	29.9	<.02	<1	8.8
ALFR-001152	1.03	<.1	.04	3.3	15.4	.2	.04	2.3	2.55	23.7	.04	<1	76.3
ALFR-001168	.34	<.1	.03	4.9	1.4	.3	<.01	6.6	1.85	32.4	<.02	<1	13.4
ALFR-001159	.39	<.1	.04	11.1	.5	.6	.05	3.2	2.81	41.7	<.02	2	18.8
ALFR-001165	.73	.1	.05	2.2	6.0	.3	.10	4.2	3.51	17.7	.03	<1	64.2
ALFR-001158	.29	<.1	.03	8.8	.7	.2	.06	2.6	1.28	22.2	<.02	<1	15.8
SDWR-001203	.26	<.1	.03	3.9	<.1	.3	<.01	3.7	.50	26.3	<.02	<1	.5
RE SDWR-001203	.22	<.1	.02	3.5	.1	.2	<.01	2.4	.47	22.7	<.02	<1	.5
JKDR-001302	.43	<.1	.04	10.1	1.0	.5	.28	3.4	3.23	33.3	<.02	<1	17.9
JKDR-001304	.07	<.1	.02	1.8	<.1	.3	<.01	1.1	.33	5.8	<.02	<1	1.6
ACTR-001009	.52	.2	.05	7.4	1.0	.3	.43	7.7	1.31	24.1	.02	2	4.7
JKDR-001301	.53	<.1	.05	12.7	1.4	.4	.01	7.3	3.19	69.3	<.02	<1	31.9
SDWR-001202	.27	<.1	.05	3.3	1.1	.2	.02	4.1	.40	18.8	<.02	<1	.5
ACTR-001008	.09	<.1	.03	.5	1.0	.3	.04	1.1	6.57	3.9	.02	<1	5.8
JKDR-001303	.16	<.1	.03	3.9	.8	.4	.32	.7	1.13	8.9	<.02	<1	3.0
ACTR-001010	.02	<.1	.03	.4	.2	.3	.01	.8	.59	5.2	<.02	<1	1.3
GSMR-001229	.70	<.1	.09	5.4	2.1	.3	.18	2.4	4.32	37.3	<.02	<1	47.4
GSMR-001226	.16	.1	.04	.6	.7	.3	<.01	1.8	.51	2.0	<.02	<1	11.2
GSMR-001231	.87	<.1	<.02	2.1	1.0	.3	<.01	1.0	.32	19.6	<.02	<1	21.0
STANDARD DS2	2.97	<.1	1.77	14.2	3.8	25.8	.02	3.7	5.01	34.4	6.24	<1	12.2

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



SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
GSMR-001351	.13	.1	<.02	1.0	1.6	<.1	.06	.5	1.68	17.8	<.02	<1	19.2
GSMR-001230	138.05	.1	1.31	41.3	2.3	.6	.17	10.6	8.17	61.8	.02	<1	23.7
GSMR-001227	.68	<.1	.05	3.4	<.1	<.1	.02	2.2	.55	12.8	<.02	<1	5.0
GSMR-001232	.56	<.1	<.02	1.5	2.0	<.1	<.01	1.6	2.71	9.2	.02	<1	9.0
GSMR-001228	1.52	.1	<.02	6.4	2.1	<.1	.02	3.6	9.43	66.5	<.02	<1	33.1
RE GSMR-001228	1.50	<.1	.05	6.3	2.4	<.1	.01	3.9	9.14	59.5	<.02	<1	32.8
STANDARD DS2	3.00	<.1	1.56	14.3	3.9	24.0	.01	4.3	5.16	33.3	6.37	<1	12.7

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT 2316 File # 9902035 Page 1
405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: M. Buchanan

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
AF-1105	.58	10.05	12.70	105.7	22	29.2	10.8	322	3.46	12.9	.7	1.3	6.4	9.4	.03	.26	2.10	24	.07	.026	5.1	35.1	.80	26.8	.005	2	1.99	.061	.08	1.9	.02	7	.1	.03	7.8
AF-1137	.43	10.66	6.04	33.7	70	2.3	.4	64	.41	233.9	<.1	3.5	1.1	1.9	.06	3.57	.84	<2	.01	.002	1.3	22.2	.01	3.5	<.001	1	.04	.018	<.01	5.7	<.02	13	<.1	<.02	.1
AF-1129	1.38	22.80	29.82	28.1	31	12.2	5.0	284	1.33	11.4	.4	.3	2.3	3.7	.02	.17	.62	5	.03	.010	6.7	26.4	.35	14.9	.002	1	.82	.020	.04	5.1	<.02	8	<.1	.02	2.1
AF-1112	.73	8.85	33.70	81.6	25	8.7	5.0	1112	1.46	12.4	.4	.6	5.2	12.0	.25	.71	.46	4	.80	.007	4.7	19.7	.07	17.3	.001	1	.31	.049	.04	4.8	<.02	20	.1	<.02	.9
AF-1118	1.40	4.91	9.39	68.8	86	10.0	1.4	90	1.43	5.9	.5	2.9	7.5	2.4	.08	2.44	.33	5	.02	.007	11.1	29.1	.32	40.3	.001	1	.68	.011	.06	5.4	.02	10	<.1	<.02	1.9
AF-1101	.44	3.86	1.16	4.9	8	3.1	.9	92	.54	10.6	.1	.2	2.6	2.4	.02	.14	.28	<2	.02	.003	4.7	21.6	.02	10.9	<.001	1	.15	.011	.03	6.0	<.02	<5	<.1	<.02	.3
AF-1114	.49	14.97	19.47	35.4	34	18.8	6.3	573	2.28	3.2	.6	.2	9.5	390.6	.03	.19	.30	10	6.42	.013	16.6	21.6	.48	37.0	.004	2	1.19	.024	.14	8	.04	11	.4	.05	3.8
AF-1133	.57	4.30	9.21	9.3	55	5.6	2.4	279	.95	203.8	.3	57.7	4.9	19.2	.03	.94	.23	2	.02	.009	7.0	22.1	.01	7.0	<.001	2	.15	.046	.02	6.4	<.02	6	.4	<.02	.5
AF-1102	.88	10.69	14.76	32.2	22	18.7	6.1	285	2.70	4.3	.9	1.8	9.8	33.9	.05	.14	.25	12	.53	.011	16.1	29.7	.50	28.0	.003	1	1.36	.037	.09	2.6	.05	<5	.3	.04	4.7
120	.43	9.58	16.34	30.8	58	9.4	4.3	566	1.51	6.9	.6	1.8	8.4	11.3	.04	.17	.21	4	.38	.009	14.3	14.4	.09	27.2	.001	1	.38	.022	.09	4.2	.03	6	.2	.02	1.0
AF-1115	1.07	8.67	23.49	146.4	78	6.8	2.3	846	.86	15.0	.5	3.4	5.8	159.5	1.95	.76	.44	2	3.37	.007	7.7	15.0	.04	22.9	<.001	1	.18	.013	.06	4.0	.02	7	.3	.02	.5
AF-1134	.58	5.73	4.97	15.8	53	5.8	2.5	642	.97	310.2	.4	10.4	7.5	7.1	.06	.83	.30	2	.04	.011	10.1	24.4	.04	13.2	.001	<1	.21	.043	.02	5.8	<.02	<5	.2	<.02	.7
AF-1108	.36	16.89	52.58	249.3	364	19.6	9.3	603	2.46	20.5	.9	3.9	10.9	79.6	.40	9.08	.45	5	1.99	.037	19.4	13.0	.07	202.9	.001	2	.49	.018	.16	1.8	.06	29	.1	.04	1.1
AF-1138	1.19	5.81	7.53	16.9	40	7.9	2.3	88	1.06	677.3	.6	17.9	8.0	16.6	.06	1.17	.14	4	.04	.012	11.3	23.2	.03	8.3	<.001	1	.22	.040	.02	4.8	<.02	5	.2	.02	.7
AF-1125	1.67	24.49	43.98	87.3	167	28.2	3.9	208	4.86	25.1	1.7	<2	8.2	26.7	.03	3.36	.64	25	.19	.099	11.5	42.0	1.12	54.8	.004	2	2.31	.026	.19	.7	.11	39	.6	.18	6.9
AF-1116	.78	9.65	4.38	54.0	11	7.9	3.4	772	1.88	3.5	.5	1.3	8.0	118.3	.12	.08	.13	3	2.72	.009	11.8	14.5	.28	42.3	.002	1	.69	.033	.08	2.8	.04	12	.2	.04	1.7
AF-1122	.34	2.40	3.72	35.0	8	22.9	4.1	237	2.78	3.3	.4	.6	3.0	224.5	.02	.36	.11	8	4.40	.006	4.0	16.4	1.06	14.5	.003	1	1.65	.009	.04	3.6	.02	<5	.3	.03	4.4
AF-1139	.57	34.97	34.43	106.0	42	46.0	13.4	841	4.25	32.1	1.0	2.0	12.6	6.4	.10	.67	.44	22	.09	.022	21.2	49.5	1.12	38.2	.012	2	2.53	.023	.19	.8	.05	<5	.1	.04	7.1
AF-1107	.21	14.95	24.74	60.7	18	20.4	7.6	403	2.61	2.2	.5	.7	7.4	86.4	.08	.09	.15	14	1.48	.024	15.5	26.8	.48	54.9	.003	2	1.26	.042	.15	1.9	.04	6	.1	.02	4.3
AF-1103	.32	21.01	28.43	91.5	24	37.0	15.8	372	4.13	2.5	1.9	.4	16.4	42.1	.03	.45	.48	15	.41	.022	29.8	33.8	.97	64.7	.011	2	2.40	.020	.20	<2	.06	8	<.1	.03	6.3
RE AF-1103	.34	21.64	29.50	91.9	31	37.2	16.0	373	4.17	2.6	1.9	<2	16.9	44.4	.02	.50	.50	15	.41	.023	28.3	31.8	1.00	64.3	.011	3	2.45	.020	.23	<2	.06	13	<.1	.04	6.6
AF-1136	4.28	21.50	62.07	180.6	206	34.9	15.8	836	4.06	244.9	.6	1.9	8.0	4.8	.18	4.58	.99	13	.04	.014	17.3	28.6	1.40	73.3	.002	1	2.32	.010	.11	2.3	.03	7	<.1	.10	5.6
AF-1123	1.09	20.09	50.54	109.8	91	34.7	4.0	316	5.13	14.9	1.5	<2	10.0	11.6	.04	1.15	.39	27	.02	.016	12.4	45.0	1.46	51.4	.008	1	2.83	.022	.16	.4	.06	23	.3	.06	7.6
AF-1104	.74	9.02	7.95	35.2	17	16.2	5.9	579	2.20	2.1	.6	<2	7.0	6.8	.04	.59	.15	9	.07	.008	5.3	22.1	.42	20.2	.002	1	1.15	.050	.05	2.3	.02	<5	<.1	<.02	3.6
AF-1135	.37	36.19	31.90	129.1	53	35.7	12.5	775	4.89	34.8	.9	3.0	9.5	10.7	.06	.91	.39	22	.05	.025	21.0	41.7	1.16	31.5	.010	2	2.75	.036	.15	1.8	.04	9	.1	.05	7.0
AF-1130	1.22	20.32	49.42	13.4	137	5.1	3.0	4091	1.51	4.7	.4	<2	1.1	38.1	.22	.49	1.23	<2	2.68	.018	1.3	19.8	.33	6.8	<.001	1	.10	.007	.02	5.0	<.02	<5	.2	.07	.4
AF-1109	.50	5.14	16.72	19.6	25	5.3	2.3	521	1.08	7.2	.3	5.4	5.0	14.6	.03	.98	.28	2	.59	.021	5.5	20.4	.04	9.2	.001	1	.18	.028	.02	5.6	<.02	<5	.1	<.02	.4
1132	1.11	5.24	12.08	9.0	52	5.1	1.0	76	1.09	492.5	.3	41.7	4.8	2.3	.02	1.01	.09	<2	.01	.007	7.5	18.3	.01	22.5	<.001	2	.19	.004	.10	4.6	.03	6	.1	<.02	.5
140	.67	8.49	10.27	18.0	38	6.9	2.7	65	1.04	10.0	1.1	2.7	7.0	9.8	.02	.67	.22	4	.01	.008	16.5	17.6	.13	30.9	.001	1	.57	.013	.14	3.8	.03	<5	.2	<.02	1.5
AF-1128	2.22	50.51	138.67	104.8	94	50.7	18.9	798	4.53	34.2	2.8	5.2	9.9	23.2	.07	.89	1.47	24	.31	.078	19.6	53.3	1.39	49.0	.025	3	3.17	.087	.17	.5	.05	11	.2	.20	8.0
AF-1142	.69	5.99	28.44	20.7	51	7.3	5.5	230	.98	26.7	1.5	6.0	7.9	2.7	.09	.21	.18	4	.01	.011	11.8	18.4	.01	15.7	<.001	1	.26	.006	.06	4.5	.02	6	<.1	<.02	.6
AF-1131	.84	47.93	4.22	36.0	49	13.7	6.7	871	1.78	1.5	.3	.5	2.6	25.5	.07	.30	.16	14	.69	.027	6.2	26.0	1.09	27.9	.003	1	1.12	.008	.04	2.7	<.02	5	<.1	.04	2.8
99MDBR-001254	.80	1.48	49.24	75.6	54	1.4	3.5	748	1.74	7.6	2.5	<2	12.8	23.4	.52	3.23	.07	5	.55	.044	22.9	6.8	.05	67.2	.001	4	.51	.031	.26	1.5	.08	10	<.1	<.02	1.4
99MDBR-001252	1.05	2.95	61.12	108.7	104	3.8	3.3	702	1.64	13.5	2.1	<2	12.7	14.7	.69	3.15	.06	3	.29	.037	19.4	7.8	.06	60.1	.001	4	.55	.031	.25	1.9	.09	10	<.1	<.02	1.3
STANDARD DS2	14.00	130.43	37.45	163.1	247	38.0	12.7	827	3.16	63.4	20.9	201.2	4.3	36.6	11.59	9.56	10.97	83	.56	.081	15.0	168.6	.62	142.7	.114	2	1.78	.038	.16	7.6	2.11	264	2.6	1.83	6.2

15 GRAM SAMPLE IS DIGESTED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 300 ML WITH WATER, ANALYSIS BY ICP/ES & MS.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K GA AND AL.
- SAMPLE TYPE: ROCK Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 5 1999 DATE REPORT MAILED: *July 9/99* SIGNED BY: *C. Long* D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

Hudson Bay Expl. & Dev. Co. Ltd. PROJECT 2316 File # 9902035 Page 1
405 - 470 Granville St., Vancouver BC V6C 1V5 Submitted by: M. Buchanan

SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
AF-1105	.47	<.1	.08	4.4	2.8	1.1	<.01	6.8	2.00	17.9	.03	<1	57.4
AF-1137	.03	<.1	.06	1.2	.1	1.4	.02	2.6	.12	3.8	.05	<1	1.6
AF-1129	.17	<.1	.04	1.9	1.2	.7	<.01	1.9	.61	15.1	<.02	<1	20.4
AF-1112	.24	<.1	.05	2.2	2.4	.7	.02	3.6	2.62	14.4	.02	<1	4.3
AF-1118	.10	<.1	.04	2.9	.7	.6	.02	4.8	.62	27.5	<.02	<1	15.9
AF-1101	.07	<.1	.05	1.4	.4	.4	.02	2.2	.50	12.1	<.02	<1	1.1
AF-1114	.38	<.1	.09	7.1	2.6	.3	.05	6.8	4.04	31.4	.02	<1	41.8
AF-1133	.40	<.1	.06	1.4	1.1	.4	.06	6.9	.66	17.7	<.02	<1	1.8
AF-1102	.33	.1	.07	4.4	2.3	.6	.02	7.3	2.51	34.1	<.02	<1	37.6
AF-1120	.22	<.1	.07	4.1	1.6	.4	.02	6.4	1.58	29.3	<.02	<1	4.9
AF-1115	.20	<.1	.02	3.1	1.1	.3	.04	4.8	2.87	19.8	<.02	<1	1.6
AF-1134	.12	<.1	.04	1.0	1.4	.3	.04	5.2	1.00	25.9	<.02	<1	2.5
AF-1108	.64	<.1	.02	8.1	3.1	.4	.04	8.3	7.12	47.2	.03	<1	8.5
AF-1138	.18	<.1	.03	1.0	1.1	.4	.04	5.9	.67	25.5	<.02	<1	5.7
AF-1125	.50	.1	.22	9.6	1.8	.6	.46	8.9	2.12	25.5	.02	3	85.5
AF-1116	.33	<.1	.05	4.5	2.1	.2	.01	5.8	2.98	27.1	.02	<1	17.5
AF-1122	.14	.1	.04	1.8	1.7	.4	.02	2.7	3.67	10.6	<.02	<1	64.6
AF-1139	.85	<.1	.26	8.7	3.1	.3	<.01	6.3	1.37	52.9	.02	<1	66.4
AF-1107	.54	<.1	.08	7.8	2.1	.3	.01	6.7	3.57	35.0	.02	<1	34.0
AF-1103	.84	<.1	.11	10.2	2.2	.4	<.01	9.8	4.41	69.8	.02	<1	59.7
RE AF-1103	.88	<.1	.29	11.3	2.5	.3	<.01	11.8	4.39	65.8	.02	<1	61.2
AF-1136	.68	<.1	.05	5.3	2.2	.3	.01	7.3	1.45	34.0	.02	<1	54.9
AF-1123	.46	<.1	.10	8.1	2.2	.3	.13	7.5	1.55	27.8	.02	2	94.9
AF-1104	.29	<.1	.03	2.6	2.0	.2	<.01	8.3	2.03	15.2	<.02	<1	34.8
AF-1135	1.18	<.1	.08	6.8	3.0	.3	.01	7.4	1.32	40.5	.03	<1	46.6
AF-1130	.17	<.1	.03	1.2	1.3	.2	.02	4.2	2.04	3.5	.02	<1	2.2
AF-1109	.10	<.1	.04	1.1	1.0	.3	.02	4.0	1.73	15.1	<.02	1	3.1
AF-1132	.32	<.1	.02	5.0	.7	.5	.09	4.1	.68	19.2	<.02	<1	.7
AF-1140	.25	<.1	.02	5.8	.6	.3	.02	5.4	1.08	33.9	<.02	<1	6.7
AF-1128	1.14	.1	.47	8.3	3.8	.4	.02	9.8	2.75	46.2	.02	<1	79.4
AF-1142	.23	<.1	.06	2.6	.5	.4	<.01	3.3	.77	26.0	<.02	<1	2.4
AF-1131	.25	<.1	.08	2.0	2.8	.2	.02	3.9	1.70	16.3	.02	<1	31.9
99MDBR-001254	.76	<.1	.07	14.6	1.9	.4	.01	8.7	7.53	57.4	.02	<1	2.9
99MDBR-001252	.63	<.1	.05	13.9	1.9	.3	.03	8.9	6.21	48.9	.02	<1	3.4
STANDARD DS2	2.93	<.1	1.77	15.2	4.4	27.1	.03	5.5	5.66	30.8	6.64	<1	13.0

15 GRAM SAMPLE IS DIGESTED WITH 90 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 300 ML WITH WATER FOLLOWED BY ANALYSIS BY ICP/ES & MS. THIS LEACH IS PARTIAL FOR ALL ELEMENTS.
- SAMPLE TYPE: ROCK Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 5 1999 DATE REPORT MAILED: July 9/99 SIGNED BY: C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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

Data 4 FA



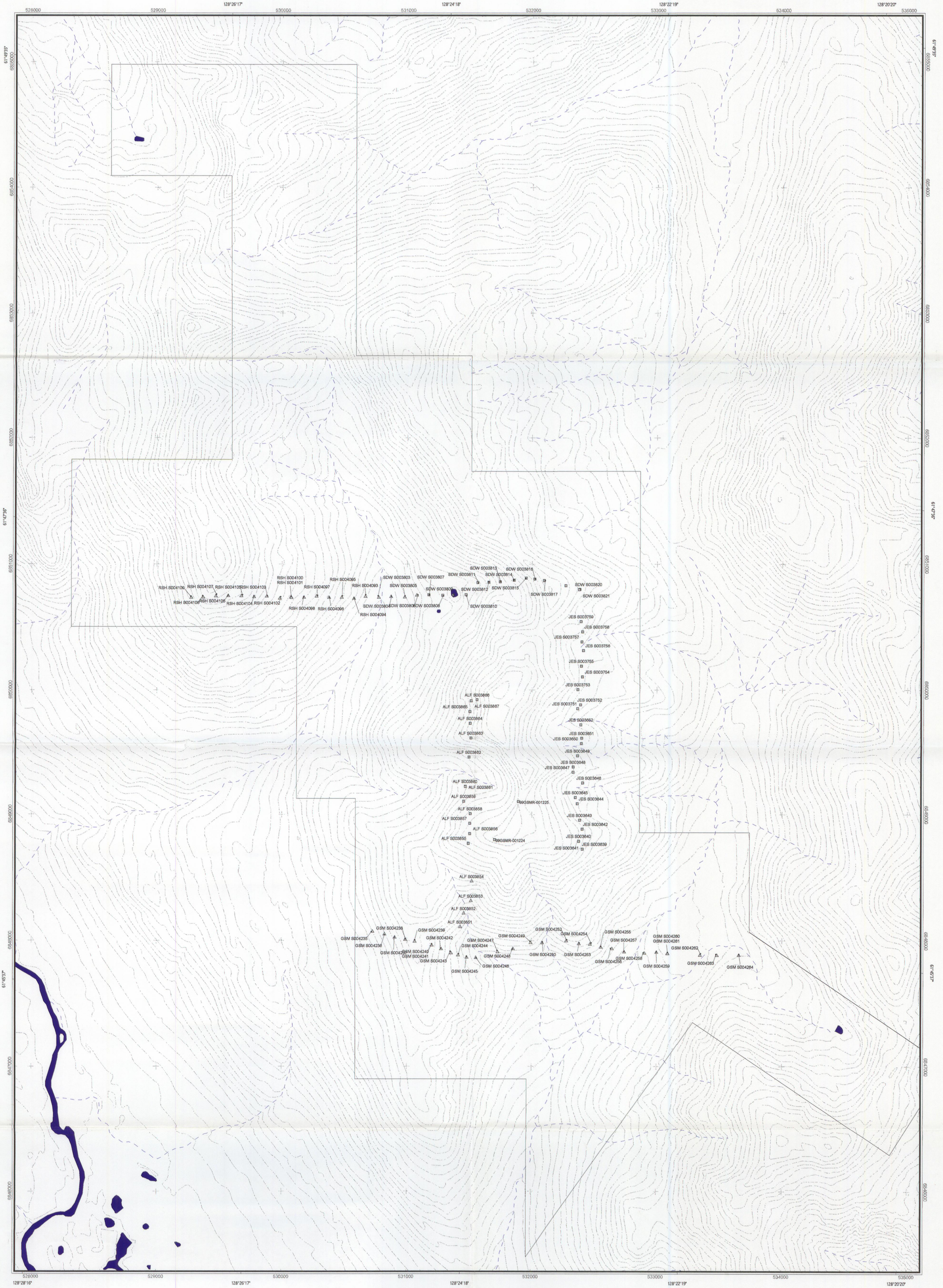
SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppb	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B %	Al %	Na %	K %	W ppm	Tl ppm	Hg ppb	Se ppm	Te ppm	Ga ppm
AF-1141	.58	6.48	7.97	12.2	29	4.6	2.0	65	.75	229.1	.8	36.1	6.1	6.3	.06	.59	.16	2	.01	.011	9.2	22.5	.01	10.8	<.001	<1	.20	.004	.04	5.7	.02	<5	<.1	<.02	.4
99ACTR-001006	1.24	11.52	8.30	35.5	27	5.7	4.6	421	.60	8.8	.4	1.2	5.4	51.7	.09	.40	.24	<2	2.13	.010	8.5	20.4	.05	22.1	<.001	<1	.24	.016	.08	4.9	.02	<5	<.1	<.02	.6
99GSMR-001224	.55	5.36	1.64	5.5	23	3.1	.7	230	.58	7.3	<.1	.9	1.3	1.3	.02	.12	.11	<2	.01	.002	.6	28.6	.01	7.1	<.001	<1	.06	.004	.01	6.7	<.02	<5	<.1	<.02	.1
99MDBR-001251	.47	25.09	22.98	60.1	64	39.3	12.5	322	4.07	5.3	1.3	1.2	15.7	8.7	.05	.37	.58	14	.05	.025	26.0	32.8	1.09	63.0	.007	<1	2.38	.019	.19	.5	.06	14	.1	.04	6.1
AF-1127	.23	15.67	21.26	51.4	38	29.7	12.7	483	3.07	4.3	.9	<.2	6.5	25.3	.04	.66	.16	10	1.41	.011	8.4	22.3	.53	37.6	.007	<1	1.37	.029	.16	1.5	.03	8	.1	.02	3.7
AF-1106	.25	16.84	12.66	44.0	35	32.4	11.8	726	4.03	3.0	1.4	1.1	12.0	195.8	.03	.21	.37	10	4.49	.021	27.6	21.1	.57	55.1	.004	<1	1.76	.009	.19	<.2	.05	17	<.1	.06	3.9
AF-1113	.34	39.43	17.06	95.9	16	35.7	17.0	250	3.62	4.6	2.1	.5	9.9	21.1	.05	.39	.62	10	.02	.031	12.2	17.2	.44	55.0	.002	<1	1.46	.009	.24	.4	.06	17	<.1	.05	3.8
AF-1121	.82	5.92	8.51	9.4	43	8.4	3.5	266	1.34	5.9	.8	.4	4.4	105.2	.04	.56	.14	3	9.12	.009	11.5	12.2	.19	20.0	.001	<1	.52	.007	.06	2.9	.04	7	<.1	.04	1.0
AF-1111	.42	19.47	36.74	71.2	29	15.0	10.7	983	2.06	5.9	.9	1.1	6.3	16.5	.10	.55	.20	5	.10	.012	10.0	12.9	.11	33.8	.001	<1	.65	.019	.11	3.0	.04	13	.3	.03	1.3
AF-1117	.90	22.85	38.17	107.2	514	34.6	15.5	1522	3.59	231.5	1.2	17.7	11.5	136.2	.23	8.10	.30	6	2.94	.023	15.2	10.4	.11	51.6	.002	<1	.63	.014	.14	.8	.07	21	.1	.04	1.2
AF-1110	.42	10.17	18.10	33.3	63	7.6	3.8	265	1.68	241.6	.5	7.3	6.0	40.8	.04	3.52	.18	3	1.27	.015	11.3	16.7	.03	27.3	.001	<1	.33	.031	.11	4.4	.05	10	.2	.02	.7
AF-1119	.96	36.43	10.85	63.6	45	30.4	14.5	500	3.74	26.9	1.4	1.4	11.1	15.3	.04	.61	.44	11	.23	.032	19.2	16.4	.13	46.8	.004	1	.68	.014	.17	1.9	.08	11	.3	.17	1.3
AF-1124	.86	28.07	37.21	80.7	83	39.6	8.8	222	3.62	17.6	2.1	1.9	11.1	11.0	.04	1.52	.56	19	.02	.013	13.4	33.9	.90	60.7	.009	<1	2.05	.025	.18	.5	.06	17	.3	.09	4.9
RE AF-1124	.83	28.45	37.46	80.5	84	39.7	8.6	224	3.63	17.3	2.2	1.2	11.4	10.7	.04	1.51	.57	19	.02	.013	13.6	35.7	.93	63.9	.010	<1	2.15	.026	.18	.4	.06	16	.3	.08	4.8
99MDBR-001253	.93	3.13	65.46	112.9	77	2.9	3.4	897	1.82	85.4	2.6	<.2	14.9	12.6	.62	4.37	.04	3	.23	.040	23.3	6.6	.05	77.4	.001	4	.61	.032	.28	1.6	.10	15	<.1	<.02	1.2
99ACTR-001007	.52	9.24	4.88	19.9	17	9.2	3.2	374	1.08	20.8	.6	.7	7.3	4.9	.05	.44	.08	6	.02	.011	11.2	29.3	.14	17.0	.001	<1	.45	.041	.06	5.7	.02	6	<.1	<.02	1.4
99ACTR-001003	1.08	3.29	2.70	16.6	25	7.4	1.5	138	.92	2.1	.2	<.2	.9	3.0	.02	.10	.08	3	.04	.007	.8	24.6	.16	5.0	.001	<1	.35	.005	.01	4.0	<.02	<5	<.1	<.02	1.0
99GSMR-001223	.52	3.44	10.68	3.3	27	2.7	.5	70	.41	1.8	<.1	<.2	.5	3.4	.01	.11	.08	<2	.08	.007	1.4	33.4	<.01	5.1	<.001	<1	.03	.007	.01	6.7	<.02	<5	<.1	<.02	.1
99ACTR-001001	1.02	4.12	2.97	30.2	15	18.5	3.0	480	2.77	1.9	.1	2.4	.2	125.2	.02	.09	.04	7	3.31	.001	1.6	23.9	.59	3.9	.002	<1	1.26	.004	.01	3.8	<.02	<5	<.1	.02	3.5
99ACTR-001005	.47	280.15	2.27	14.3	86	7.1	2.6	471	1.29	1.5	.6	2.0	8.2	39.9	.03	.14	.09	4	1.69	.011	10.7	23.5	.21	17.6	.001	<1	.57	.030	.07	5.0	.02	6	.2	<.02	1.5
99ACTR-001002	1.20	62.62	.55	80.1	42	47.8	8.5	332	3.88	.4	<.1	.9	.7	7.5	.02	.05	.03	11	.07	.021	<.5	31.8	.98	5.6	.003	1	1.97	.006	.01	4.3	<.02	7	<.1	<.02	5.4
99ACTR-001004	.47	5.77	1.98	12.3	21	7.4	1.4	240	1.07	.9	.2	2.1	2.5	4.4	.01	.15	.07	3	.28	.007	3.1	27.4	.18	5.9	.001	<1	.37	.019	.02	6.2	<.02	<5	<.1	<.02	1.1
99GSMR-001225	.99	8.24	36.01	106.0	40	40.9	9.3	440	4.69	1.1	<.1	<.2	2.3	3.7	.03	.14	.12	16	.25	.003	3.3	30.5	1.14	12.1	.005	1	2.36	.007	.01	3.3	<.02	5	<.1	<.02	6.0
STANDARD DS2	13.61	130.39	36.60	164.2	246	38.3	12.9	824	3.18	63.8	21.2	214.5	4.2	35.8	11.65	9.79	11.11	83	.56	.082	15.3	169.1	.63	144.0	.115	<1	1.81	.039	.16	7.5	2.15	261	2.3	1.82	6.0

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



SAMPLE#	Cs ppm	Ge ppm	Nb ppm	Rb ppm	Sc ppm	Sn ppm	S %	Zr ppm	Y ppm	Ce ppm	In ppm	Re ppb	Li ppm
AF-1141	.19	<.1	.08	2.2	.5	.7	.03	2.3	.78	27.5	<.02	<1	.9
99ACTR-001006	.17	<.1	.06	3.4	.5	.5	.05	3.2	2.36	24.0	.02	<1	2.6
99GSMR-001224	.04	<.1	.06	.6	.4	1.1	.01	1.2	.21	2.0	<.02	<1	2.0
99MDBR-001251	.48	<.1	.15	9.8	2.3	.6	.04	7.6	3.50	59.1	.02	<1	78.6
AF-1127	.29	<.1	.06	6.8	2.4	.3	.04	5.9	3.28	22.4	.02	<1	31.9
AF-1106	.75	<.1	.11	8.9	3.2	.3	.01	6.2	6.47	64.1	.02	<1	35.4
AF-1113	.75	<.1	.07	11.3	2.2	.4	.03	3.5	4.10	35.4	.03	<1	22.4
AF-1121	.45	<.1	.03	2.7	1.5	.3	.01	3.4	8.77	26.9	.03	<1	10.0
AF-1111	1.31	<.1	.05	5.9	2.6	.3	.01	3.8	3.60	25.1	.03	<1	9.6
AF-1117	.68	<.1	.07	7.3	3.6	.4	.06	2.9	6.66	30.1	.04	<1	6.0
AF-1110	.47	<.1	.03	6.0	1.4	.3	.09	4.3	3.92	27.2	.02	<1	2.5
AF-1119	.44	<.1	.12	7.5	3.3	.6	<.01	9.1	3.44	46.1	.03	<1	8.0
AF-1124	.38	<.1	.12	8.2	2.0	.3	.13	10.5	1.78	23.0	.02	1	71.0
RE AF-1124	.37	<.1	.12	8.3	1.9	.4	.11	11.2	1.80	25.1	<.02	2	68.9
99MDBR-001253	.75	<.1	.07	15.9	1.9	.5	.01	10.6	7.10	57.6	.02	<1	1.9
99ACTR-001007	.28	<.1	.03	2.9	1.2	.3	<.01	6.0	1.28	29.8	<.02	1	6.3
99ACTR-001003	.04	<.1	.03	.4	.4	.2	<.01	1.9	.41	3.8	<.02	<1	10.2
99GSMR-001223	.02	<.1	.05	.3	.2	.3	<.01	1.7	.56	3.6	<.02	<1	.1
99ACTR-001001	.10	.1	.03	.5	2.0	.2	<.01	.1	6.69	6.2	.03	<1	37.2
99ACTR-001005	.17	<.1	.06	3.1	1.8	.3	.01	7.0	4.08	24.8	.03	<1	12.7
99ACTR-001002	.17	.2	.03	.6	1.5	.3	<.01	1.2	1.13	1.4	<.02	<1	62.5
99ACTR-001004	.09	<.1	.03	.9	.7	.4	<.01	1.8	.77	8.3	<.02	<1	11.1
99GSMR-001225	.16	.2	.03	.6	1.8	.2	<.01	1.0	.66	8.2	<.02	<1	57.2
STANDARD DS2	2.93	<.1	1.87	14.7	4.4	27.5	.03	5.8	6.35	31.4	7.08	<1	14.0

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



500 0 500 1000 Meters

094113



Legend

Sample Locations

□ Sept 8-9, 1999

△ July 6 - Sept 28, 1999

Claim Outline

Streams

Water

Hudson Bay Exploration & Dev. Co. Ltd.
Vancouver Office

**Hab Claims
Sample Locations**
UTM Zone 9
NAD 83

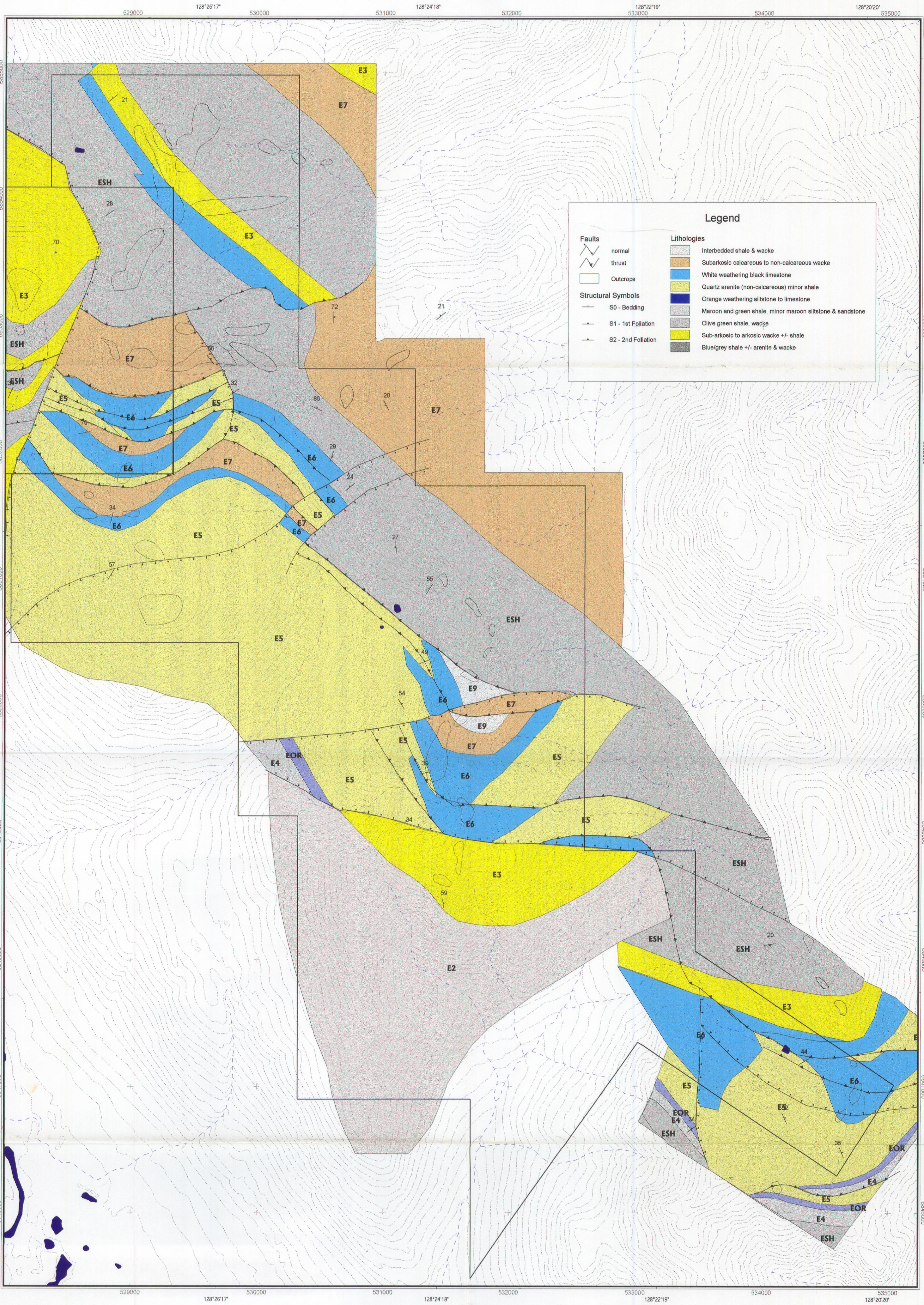
FIGURE -

AUTHOR: **MDB**

SCALE
1:15000

DATE: January 21, 2000
FILE: Hab_assess_99.apr

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Faults

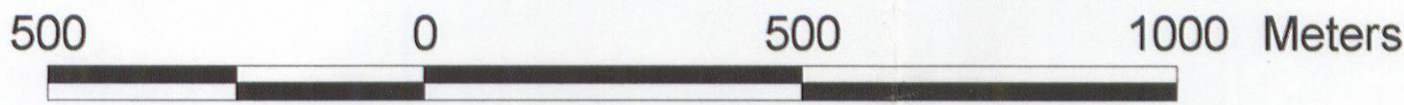
- normal
- thrust
- Outcrops

Structural Symbols

- S0 - Bedding
- S1 - 1st Foliation
- S2 - 2nd Foliation

Lithologies

- Interbedded shale & wacke
- Subarkosic calcareous to non-calcareous wacke
- White weathering black limestone
- Quartz arenite (non-calcareous) minor shale
- Orange weathering siltstone to limestone
- Maroon and green shale, minor maroon siltstone & sandstone
- Olive green shale, wacke
- Sub-arkosic to arkosic wacke +/- shale
- Blue/grey shale +/- arenite & wacke



Legend

- Claim Boundary
- Streams
- Water



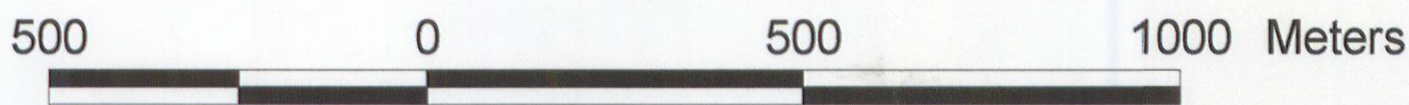
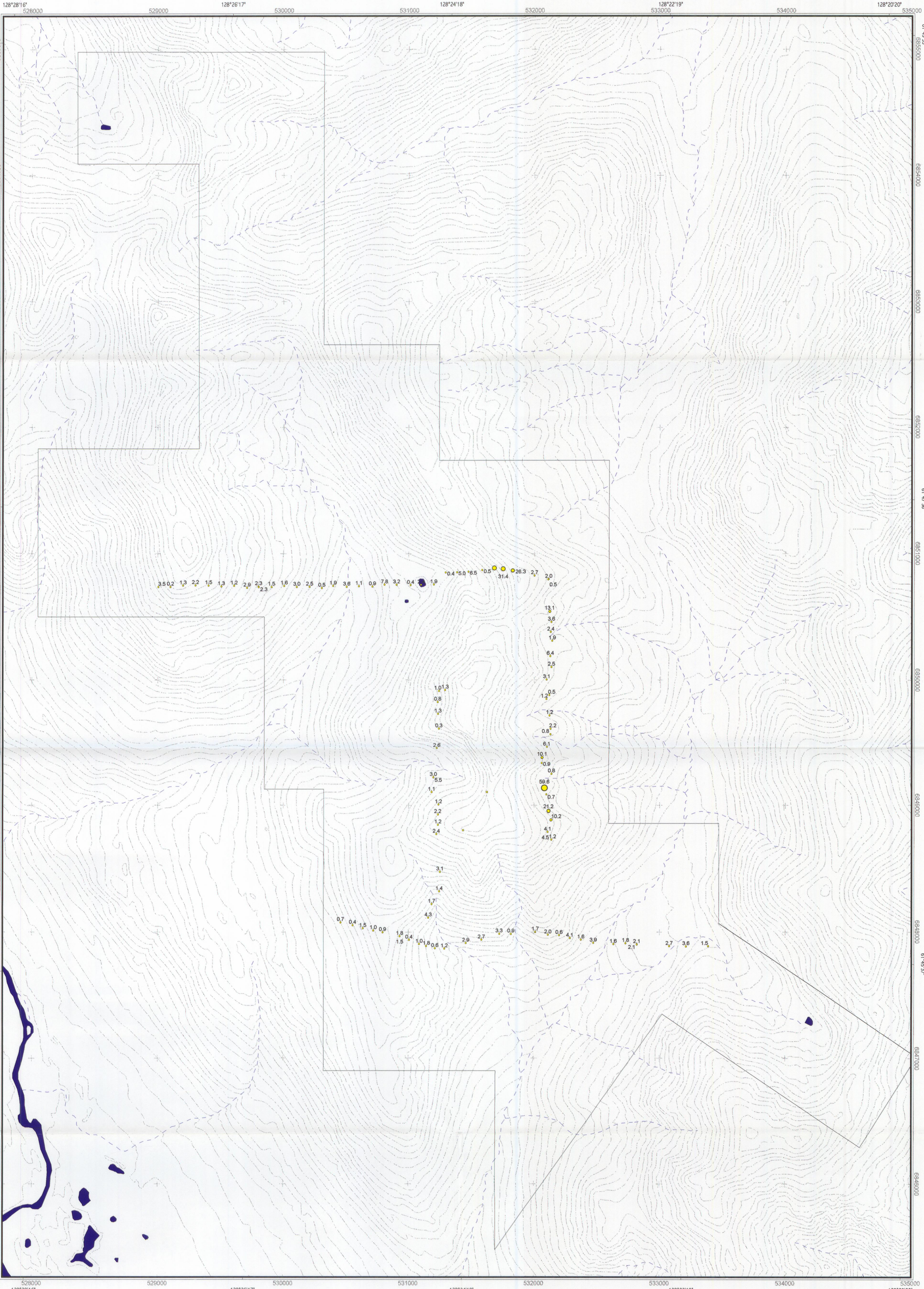
modified after: Tessier, A.C. & Fonseca, A.L., 1999

Hudson Bay Exploration & Dev. Co. Ltd.
Vancouver Office

Hab/Hat Geology
UTM Zone 9
NAD 83

094113

FIGURE -	SCALE	DATE: January 21, 2000
AUTHOR: MDB	1:15000	FILE: Hab_assess_99.apr



094113



Gold in Rocks

Gold (ppb)

- 0.2
- 0.9

Gold in Soil Samples

0.2 - 10ppb	51 - 75ppb
11 - 20ppb	76 - 150ppb
21 - 30ppb	151 - 200ppb
31 - 40ppb	101 - 150ppb
41 - 50ppb	greater than 200ppb

Hudson Bay Exploration & Dev. Co. Ltd. Vancouver Office		
Hab Claims Soil and Rock Geochemistry UTM Zone 9 NAD 83		
FIGURE -	SCALE 1:15000	DATE: January 21, 2000
AUTHOR: MDB		FILE: Hab_assess_99.apr