

ORIGINAL BARRINGER REPORT  
SEVERAL ERRORS NOTED.

No. KM<sub>NO4</sub> added to  
these samples.

**BARRINGER MAGENTA**  
Laboratories (Alberta) Ltd.

4200B - 10 STREET N.E., CALGARY, ALBERTA, CANADA T2E6K3  
PHONE: (403) 250-1901

**BARRINGER**  
Laboratories (NWT) Ltd.

P.O. BOX 864, YELLOWKNIFE, NWT, CANADA X1A 2N6  
PHONE: (403) 920-4500

AUTHORITY: B. CROSS

19-SEP-88

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GIANT YELLOWKNIFE MINES LTD.  
EXPLORATION DEPARTMENT  
BAG 3000  
YELLOWKNIFE, NWT. X1A 2M2

P. O. : 105272, 320

WORK ORDER: 5281D-88 PRELIMINARY  
\*\*\* REPORT \*\*\*

**GEOCHEMICAL LABORATORY REPORT**

SAMPLE TYPE: WATER

SAMPLE NUMBER		SAMPLE FEED 1	SAMPLE FEED 2	SAMPLE TAILS 1	SAMPLE TAILS 2
		AUG 23	AUG 23	AUG 23	AUG 23
Calcium	-ppm	236.3	239.5	214.1	224.9
Potassium	-ppm	15.75	15.25	15.75	15.5
Silica	-ppm	4.86	4.42	3.66	3.66
Titanium	-ppm	<0.01	0.02	0.02	0.02
Copper	-ppm	7.9	7.88	9.35	8.35
Arsenic	-ppm	17.55	19.53	24.4	24.58
Iron	-ppm	0.4	0.53	1.03	1.18
Manganese	-ppm	0.02	0.01	0.01	0.01
Zinc	-ppm	<0.01	<0.01	<0.01	<0.01
Chromium	-ppm	<0.01	<0.01	<0.01	<0.01
Nickel	-ppm	0.85	0.95	1.08	1.05
Lead	-ppm	0.01	0.01	0.01	0.03
Cadmium	-ppm	<0.01	<0.01	<0.01	<0.01
Gold	-ppm	0.11	0.11	<0.01	<0.01
Silver	-ppm	0.04	0.01	0.11	0.12
Strontium	-ppm	0.43	0.39	0.35	0.4
Tungsten	-ppm	<0.1	<0.1	<0.1	<1.0
Antimony	-ppm	0.92	1.14	1.58	1.61
Thorium	-ppm	0.06	<0.05	<0.05	<0.05
Total Sulphur	-ppm	200.0	190.0	180.0	190.0
Tannic acid	-ppm	11.0	10.0	13.0	14.0
Humic acid	-ppm	<2.0	<2.0	6.0	8.0
T.O.C.	-ppm	18.0	18.0	19.0	19.0

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REPORT \*\*\*

**GEOCHEMICAL LABORATORY REPORT**

**SAMPLE TYPE: WATER**

SAMPLE NUMBER		SAMPLE RECL. SOLN	SAMPLE START 88-12	SAMPLE FINISH 88-12
Calcium	-ppm	182.1	1.09	1.43
Potassium	-ppm	14.25	14.85	14.84
Silica	-ppm	3.32	NA	NA
Titanium	-ppm	0.03	0.04	0.03
Copper	-ppm	8.83	88.28	92.64
Arsenic	-ppm	13.8	112.6	165.8
Iron	-ppm	0.14	<0.01	0.06
Manganese	-ppm	<0.01	0.01	<0.01
Zinc	-ppm	<0.01	0.76	1.17
Chromium	-ppm	<0.01	0.15	0.15
Nickel	-ppm	0.9	288.1	211.9
Lead	-ppm	0.01	0.05	0.01
Cadmium	-ppm	<0.01	<0.01	0.11
Gold	-ppm	<0.01	7.1	1.27
Silver	-ppm	0.13	3.4	0.02
Strontium	-ppm	0.56	0.04	0.03
Tungsten	-ppm	<0.1	<0.1	<0.1
Antimony	-ppm	1.09	0.17	0.37
Thorium	-ppm	<0.05	<0.05	<0.05
<i>Total</i> Sulphur	-ppm	140.0	280.0	250.0
Tannic acid	-ppm	9.0	1300.0	740.0
Humic acid	-ppm	58.0	8800.0	500.0
T.O.C.	-ppm	19.0	5700.0	5800.0

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EXPLORATION DEPARTMENT

BAG 3000

YELLOWKNIFE, NWT. X1A 2M2

P. O. : 105272, 320

WORK ORDER: 5281D-88

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REPORT \*\*\*

**GEOCHEMICAL LABORATORY REPORT**

**SAMPLE TYPE: OTHER**

**AFTER KILN  
SAMPLE  
88-03**

**STRIPPED  
SAMPLE  
88-09**

**STRIPPED  
SAMPLE  
88-11**

**LOADED  
SAMPLE  
C-4**

**S A M P L E N U M B E R**

Calcium	-ppm	2240.0	4600.0	6080.0	3620.0
Potassium	-ppm	64.0	24.0	32.0	24.0
Silica	-ppm	NA	NA	NA	NA
Titanium	-ppm	2.0	<1.0	<1.0	<1.0
Copper	-ppm	43.0	28.0	28.0	359.0
Arsenic	-ppm	20.0	200.0	182.0	342.0
Iron	-ppm	132.0	56.0	28.0	32.0
Manganese	-ppm	27.0	23.0	9.0	8.0
Zinc	-ppm	48.0	31.0	26.0	48.0
Chromium	-ppm	1.0	<1.0	<1.0	1.0
Nickel	-ppm	237.0	512.0	88.0	1200.0
Lead	-ppm	8.0	5.0	4.0	3.0
Cadmium	-ppm	<1.0	<1.0	<1.0	1.0
Gold	-ppm	<0.02	<0.02	<0.02	<0.02
Silver	-ppm	32.8	53.6	7.5	58.5
Strontium	-ppm	6.0	12.0	17.0	8.0
Tungsten	-ppm	<2.0	<2.0	<2.0	<2.0
Antimony	-ppm	<1.0	<1.0	<1.0	<1.0
Thorium	-ppm	<2.5	<2.5	<2.5	<2.5
Sulphur	-ppm	1,7 <sup>00</sup>	1,6 <sup>00</sup>	1,4 <sup>00</sup>	3,2 <sup>00</sup>
T.O.C.	-ppm	NA	NA	NA	NA

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## GEOCHEMICAL LABORATORY REPORT

SAMPLE TYPE: OTHER

SAMPLE NUMBER		SAMPLE BLANK	SAMPLE FEED	SAMPLE TAILS
Calcium	-ppm	303.0	4.59%	4.1%
Potassium	-ppm	8920.0	88.0	96.0
Silica	-ppm	NA	NA	NA
Titanium	-ppm	1.0	3.0	2.0
Copper	-ppm	6.0	51.0	63.0
Arsenic	-ppm	1.0	3330.0	3490.0 0.35%
Iron	-ppm	2.0	5.24%	4.74%
Manganese	-ppm	5.0	867.0	835.0
Zinc	-ppm	<1.0	606.0	624.0
Chromium	-ppm	<1.0	57.0	32.0
Nickel	-ppm	<1.0	70.0	67.0
Lead	-ppm	<1.0	431.0	466.0
Cadmium	-ppm	<1.0	4.0	4.0
Gold	-ppm	<0.02	1.28	1.56 — fire assay
Silver	-ppm	0.2	6.5	1.84
Strontium	-ppm	6.0	24.0	26.0
Tungsten	-ppm	<2.0	<2.0	<2.0
Antimony	-ppm	<1.0	5.0	6.0
Thorium	-ppm	<2.5	<2.5	<2.5
Sulphur	-ppm	0.99%	7.7%	8.3% → 0.83wt%
* T.O.C.	-ppm	NA	* 2,000	2,000
			0.2wt%	0.2wt%

SIGNED: \_\_\_\_\_

C. Douglas Read,  
LABORATORY MANAGER

\* Doug Read.

\* Transmittance removed by acidification  
Sample dried, filtered. — run on  
Leco for Total Carbon.

### FOOTNOTES:

P=QUESTIONABLE PRECISION; \* = INTERFERENCE; TR=TRACE; ND=NOT DETECTED;  
IS=INSUFFICIENT SAMPLE; NA=NOT ANALYZED; MS=MISSING SAMPLE