



WESTERN RESEARCH & DEVELOPMENT LTD.

Subsidiary of Bow Valley Industries Ltd.

LABORATORY

January 13, 1975

See Report Nov 21/74

Giant Yellowknife Mines Ltd.
Yellowknife
Northwest Territories

Attention: Mr. H. Pawson

Dear Sir

Subject: Giant Yellowknife Mine Roaster Stack
Analyses of Particulates - Our File No. 3425

Further to our Source Emission Survey of November, 1974, on the roaster stack, enclosed are the results of the trace metals and arsenic analyses performed by Warnock Hersey International Ltd. These analyses were performed on two high volume particulate samples collected in conjunction with the earlier reported tests. I regret the delay in these results, due to the holiday season.

If you have any questions, please do not hesitate to contact me.

Yours truly


H. Paskall

AB:ab
Encl.



WARNOCK HERSEY
INTERNATIONAL LIMITED

125 East 4th Ave., Vancouver 10, B.C. Phone 876-4111

COST ELDRIDGE

PROFESSIONAL SERVICES DIVISION

REPORT OF: Chemical & Spectrographic Analysis
AT Vancouver Laboratory
PROJECT: Dust Samples
REPORTED TO: Western Research & Development Ltd.,
3, 1313 - 44th Avenue N.E.
Calgary, Alberta
Attention: Mr. D. A. Watson

FILE NO. 468 - 20073

DATE December 12, 1974

REPORT NO.
WR&D No. 3425
ORDER NO.

We have tested the two samples of dust submitted to us on December 2, 1974 and report as hereunder:

SAMPLE IDENTIFICATION

Sample No. 1 - Hopper No. 7

Sample No. 2 - Hopper No. 8 - Test # 1, distilled water

TEST RESULTS

	<u>Sample No. 1</u>	<u>Sample No. 2</u>
Arsenic, percent by weight	64.71	57.47
Spectrographic analysis - as per attached.		

WARNOCK HERSEY INTERNATIONAL LIMITED

Ted M. Williams
Ted M. Williams
SUPERVISOR, CHEMICAL DIVISION

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Western Research & Development Ltd.,

3, 1313 - 44th Avenue, N.E.

Calgary, Alberta

Attention: Mr. D.A. Watson



COAST ELDRIDGE

PROFESSIONAL SERVICES DIVISION
WARNOCK HERSEY INTERNATIONAL LIMITED
125 EAST 4TH AVE. VANCOUVER 10, B.C., CANADA

SEMI QUANTITATIVE SPECTROGRAPHIC ANALYSES

PHONE: (604) 876-4111
TELEX: 04-50383
CABLE ADDRESS:
ELDRICO

FILE NO. 468 - 20073
WR&D No. 3425

DATE December 12, 1974

We Hereby Certify that the following are the results of semi quantitative spectrographic analyses made on DUST samples submitted.

SAMPLE IDENTIFICATION	Al	Sb	As	Ba	Bc	Bi	B	Cd	Ca	Cr	Co	Cu	Ga	Au	Fe
Sample No. 1	3.0	ND	Major	ND	ND	ND	ND	ND	1.0	0.001	0.001	0.05	ND	ND	5.0
Sample No. 2	4.0	ND	Major	ND	ND	ND	0.003	ND	1.0	0.1	0.003	0.01	ND	ND	3.0
SAMPLE IDENTIFICATION	Pb	Mg	Mn	Mo	Nb	Ni	Si	Ag	Sr	Ta	Sn	Ti	W	V	Zn
Sample No. 1	0.01	2.0	0.03	ND	ND	0.003	5.0	ND	0.001	ND	ND	0.2	ND	0.003	ND
Sample No. 2	0.01	1.0	0.01	ND	ND	0.03	Major	ND	0.03	ND	ND	0.5	Trace	0.1	ND

All results expressed as PERCENT BY WEIGHT

Note: Rejects retained one week.

Pulps retained one month.

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Ted M. Williams
Supervisor, Chemical Division

CHEMIST