

GRUM SAMPLING CHRONOLOGYSeptember 1974

Four samples of split core from holes A-4 to A-27 in the Grum orebody.

1) Average grade	3.5% Pb	4.1% Zn	1.6 oz/T Ag
2) Medium grade	4.0% Pb	6.6% Zn	1.9 oz/T Ag
3) High grade	5.3% Pb	9.6% Zn	2.6 oz/T Ag
4) Low grade	2.0% Pb	3.0% Zn	1.0 oz/T Ag

Sent from Grum to Noranda in 6 cans. Received at Noranda November 6, 1974. See Vangorda Project Report No. 3 by Larouche and Lajoie.

Early 1975

Seven ore samples sent to Kosaka Lab of Dowa Mining Company Limited.

May 1975

Two samples of approximately 150 pounds each sent to Anvil Mines for mill tests. Split core taken from holes A-65 and A-72. Estimated average grade of 9% and 12% Pb and Zn.

July 1975

Split core samples sent to both Noranda and to Lakefield consisting of three pails each of similar low, medium and high grade samples plus one pail each of identical samples in three grade divisions made up by  $\frac{1}{4}$  splitting  $\frac{1}{2}$  split core.

<u>Similar Samples</u>	<u>Sent to Noranda</u>			<u>Sent to Lakefield</u>		
Designation	<u>A-1</u>	<u>A-2</u>	<u>A-3</u>	<u>B-1</u>	<u>B-2</u>	<u>B-3</u>
Estimated Weight	90.6	118.4	92.7	99.7	94.5	96.6
Estimated Pb & Zn	13.8	9.0	17.7	13.7	8.5	17.8

Identical Samples

Designation	<u>A-3-1</u>	<u>A-3-2</u>	<u>A-3-3</u>	<u>B-3-1</u>	<u>B-3-2</u>	<u>B-3-3</u>
Estimated Weight	18.8	25.1	20.5	18.8	25.1	20.5
Estimated Pb & Zn	6.5	8.6	12.5	6.5	8.6	12.5

Starting October 1975 sampling designations are alphanumeric. eg. B1 is the first sample taken at location B  
D1 is the first sample taken at location D  
etc.

October 1975

A Muck sample slashed from east wall at Site A in the 72 W crosscut. Approximately 40 tons of +10% Pb and Zn ore shipped to Lakefield.

B1 Muck sample slashed from east wall at Site B in the 72 W crosscut and 40 tons shipped, to Lakefield.

November 1975

B2 Second muck sample slashed from east wall at Site B in the 72 W crosscut. Approximately 60 tons of +15% Pb and Zn were shipped to Lakefield.

December 1975

C Muck sample collected at Site C (location not definite) near 72 crosscut and 6N/E in 6N/E, 200 pounds sent to Lakefield (?).

January/February 1976

C Site C re-sampled and sample sent to Lakefield of 200 pounds.

February 1976

B3 Site B 1000 pounds plus each to Mattagami and Lakefield.

June 1976

B4 Additional muck sample slashed from east wall at Site B in the 72 W crosscut. Approximately 1100 pounds of ore shipped to Dowa Mining Co. in Japan. Also approximately 1000 pounds sent to Lakefield and 1000 pounds (1 drum) to Noranda.

September 1976

Small muck samples of 200 pounds each blasted at Sites D, E, F, G, and H and shipped to Anvil Mines Limited. These were designated D1, E1, F1, G1, and H1.

November 1976

Site visited by J. Paxton and D. Carson (mineralogist) and 14 samples taken for metallurgical and mineralogical purposes. These were sent to Mattagami and are the samples referred to on Page 4 of Mattagami's December 30, 1976, report.

February 1977

Site visited by J. Paxton and A. Po. Over 800 core samples designated by D. Carson were taken for mineralogical studies. Five hundred (500) lb. samples from sites C, D, F, G, and H and designated C-3, D-3, F3 Hard, F3 Vuggy, G-3 and H-3 were sent to Mattagami Lake Mines and Lakefield (complete sets for both).

July 1977

Site visited by J. Carrington and J. Paxton to obtain 250 tons for pilot mill run. As a result of D. Carson's earlier work, two additional ore types were samples J and K. The material sampled is as follows:

<u>Sample Designation</u>	<u>No. of Drums</u>	<u>Estimated Tonnage</u>
A-2	18	9
B-5	57	29
C-4	57	29
D-4	18	9
FV-4	18	9
FQ-4*	18	9
G-4	57	29
H-4	57	29

<u>Sample Designation</u>	<u>No. of Drums</u>	<u>Estimated Tonnage</u>
J76-1	75	36
K68-1**	40	20
K76-1**	35	17
K80-1**	35	17
	<u>485</u>	<u>242</u>

\*FQ-4 is the same material as FH-3, i.e. hard quartz sulphides from site F. All further references should be to "FQ", the Q fitting our geological nomenclature.

\*\*Three different K samples were taken as per Dave Carson's suggestion. All three comprise the total K component.

This material was drummed and shipped to Lakefield starting July 27, 1977.

J. K. Carrington  
Project Superintendent

cc: M. D. Rowswell  
P. S. Cross  
R. L. Coleman - Noranda  
D. Carson  
K. Konigsmann - Mattagami Lake Mines  
G. Scobie - Lakefield  
J. Paxton