



File: 75-167

April 4, 1991

Manitoba Environment
139 Tuxedo Avenue
Winnipeg, Manitoba
R3N 0H6



ATTENTION: Mr. Don Labossiere

Dear Mr. Labossiere:

→ **RE: North-West Smelting Additional Samples Environmental Order #0457**

After a review of your letter dated March 15, 1991 and our meeting April 2, 1991, we would like to propose the following changes to the sampling regime.

1. Proposed Altered Sampling Frequency:

a) Piezometers

Samples will be collected using a split spoon, in order to minimize cross contamination. Due to the limited diameter of the split spoon and the quantity of soil required by the lab (one pound), it will be difficult to collect a sufficient volume of soil if sampling was required every 15 cm.

We propose the following sampling regime:

0 - 15 cm
15 - 50 cm
90 - 110 cm
140 - 160 cm
190 - 210 cm
240 - 260 cm
290 - 310 cm

and every 100 cm thereafter (7 samples at 20 ft), (10 samples at 30 ft).

The reduction in the number of samples from your plan is two (2) per hole.

b) Surface soil samples:

0 - 15 cm
30 - 50 cm

A 50% reduction in the number of samples. Samples will be collected in the same manner as the piezometer samples.

2. Laboratory Analysis

We propose using a staged analysis procedure, where the lab would proceed with the analysis to one sample past the sample which contained concentrations below the criteria cited in the Environment Order. The criteria cited was total lead 1000 ug/g (soil, dry weight).

3. Water Samples

The water samples will be collected from the unconfined aquifer. We will not develop any wells into the confined carbonate aquifer at this time. If the analysis of the soil and water samples indicates a possible concern for the confined carbonate aquifer a plan of action will be initiated.

We believe these changes to the sampling and analysis procedure will not compromise the objectives of the investigation at this site. We look forward to your reply concerning this matter. Please call if you have any questions or concerns.

Yours truly,

I.D. Systems Ltd.

G. B. Murray for:

G.B. Murray, P.Eng.

GKW/

c.c. Mr. C.L. Chappell - Aikens, MacAulay & Thorvaldson
Gwen Waedt, IDS