



**Royal Oak  
Mines Inc.**

Yellowknife Division  
P.O. Bag 3000  
Yellowknife, NWT  
X1A 2M2

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March 5, 1992

Mel Smith  
Director of Pollution Control Division  
Department of Renewable Resources  
Government of the N.W.T.  
7th Floor, Scotia Center  
P.O. Box 1320  
Yellowknife, N.W.T.  
X1A 2L9

Dear Mel:

Re: Western Research Stack Sampling August 28 - 29, 1991

The results from Western Research's sampling program were made invalid through improper data collection.

The Giant roaster operates in a finite range producing maximum velocity pressures of 0.05 inches water when sampling the stack output.

Over the past 20 years of sampling by Environmental Protection Services, Giant Mine, and Entech, the test results show an average range of 0.005 to 0.0404 inches of water.

The Western Research test had values of 0.02 to 0.12 inches of water. Many problems could result in this type of error but one of our thoughts is that they used too small a nozzle diameter of 0.243 inches compared to a standard of 0.50 inches for our low velocities.

Yours Sincerely,

ROYAL OAK MINES INC.

G.B. Halverson  
Mill Superintendent and  
Environmental Officer

GBH/sj

c.c. M. Gross  
P. O'Hara