

To D.J. Emery ✓

Date. December 28, 1979

Copies To .. F.Pickard; L.Price; P.Raleigh; G.Aaltonen; Dept.Heads Ref.

From W.A. Moore

Subject APRIL 30, 1981

1. April 30, 1981 is the expiry date of our Water Licence. If we follow the example of Cominco Ltd., Con Operations, we will be submitting a formal presentation to the Water Board for renewal of this licence at a public hearing about four months prior to the expiry date of our licence.

In other words, our presentation would be made in January 1981, just 12 short months from now.

2. What Does This Mean?

| Parameter | Final Effluent Quality By 30/04/81 | | Present Sample Results |
|--------------|-------------------------------------|---------------------------------------|------------------------|
| | Max. Monthly Average Mg/litre | Max. Conc. Grab Sample Mg/litre | Nov '79 Mg/litre |
| Ph | 7 to 10 | | 9.7 |
| Total As | 0.5 | 1.0 | 8.01 |
| Avail CN | 0.1 | 0.2 | 13.04 |
| Total CN | 2.0 | 4.0 | 25.62 |
| Total Cu | 0.3 | 0.6 | 17.76 |
| Total Pb | 0.2 | 0.4 | 0.05 |
| Total Ni | 0.5 | 1.0 | 1.26 |
| Total Zn | 0.5 | 1.0 | 1.37 |
| Susp. Solids | 15 | 30 | 4.5 |
| Oil & Grease | - | 5 | ? |

Comparing the quality of tails effluent required and the quality today, we have a long way to go in the next 12 months.

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Page Two.

We were counting on the IMPLEMENTATION of an arsenic upgrading scheme to treat the Cottrell dust, as well as the baghouse dust, which would remove the soluble arsenic from the tailings discharge to the tailings pond. But it would appear that we may postpone the decision-making so long that we will never meet the April 30, 1981 deadline.

To solve the cyanide and heavy metals in the tailings effluent, we are counting on the HSA reactor, but to date the results are not that encouraging. Again, we had hoped originally to have the project much further advanced than it is at present.

3. The Water Board has been very patient with Giant, and has accepted our explanations and plans for improvement. But they expect that we will be meeting the tailings effluent quality standards by April 30, 1981. See our 12 Month Progress Report on Proposals to Meet Final Effluent Quality. Note time schedule on page 3.

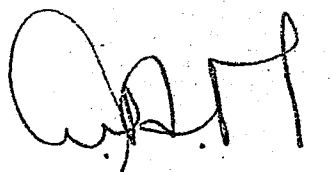
And if we fail to meet this deadline, and particularly if we are making more money than before, I would hesitate to guess at their reaction. Frankly, there are some members of the Board that would talk about imposing fines. See reference to Minister's Letter, pages 4 & 5 in conclusions.

4. So while we may think that we have the world by the tail and that everything looks rosy, I can see some very dark clouds approaching unless we get a move on and make a decision soon on the arsenic upgrading plant. With our luck, and an election in February 1980, we might get the same Minister back again.

/...continued page three

Page Three.

5. See also pages 8 & 9 from "A Submission To The Northwest Territories Water Board, By Cominco Ltd., Con Operations, November 1, 1979".

A handwritten signature in dark ink, appearing to be 'W. A. Moore', with a large, stylized initial 'W' and a trailing flourish.

W. A. Moore

WAM:jc
Attachments

Giant Yellowknife Mines Limited

Date

29/12/79

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To

To DJE, FGTP, LSP, PJR

- ☐ For necessary action _____
- ☐ For immediate action _____
- ☐ To note and return _____
- ☐ For signature and return _____
- ☐ For circulation between above initialed _____
- ☐ For comment and return _____
- ☐ For your files _____
- ☐ Approve and return _____
- ☐ Return to: _____

Remarks:

To accompany my
memo Dec 28/79 to
DJE re Apr 30/81

From:

WAM