

Minutes of Technical Committee of Water Board
February 9, 1979. Bellanca Building 0900 hrs

1. Water Reduction

Kent explained what had been tried to date.
Mine Water in the flotation circuit had been unsuccessful.
Mine water in the roasting-cyanidation circuit is being planned,
but won't be tried until May.

Along with this, will be a program of grouting underground to
reduce the flow into the mine. This water contains approximately
.5 - 1.5 ppm CN and 8.5 ppm As.

Can also reduce fresh water use by recycling compressor cooling
water in the grinding circuit.

2. Improvement to Effluent Quality

Hope that the CN levels can be improved by use of HSA reactor.
But this won't be the complete answer.

3. Water Reduction Use

Will have system in operation in May.
The Water Board would like a report after 3 months on its
success or problems.

4. Reduction of As in Carbon Sludge

Kent & Larry mentioned use of lime to precipitate the As, filter it
in a centrifuge, dry it and put it underground.

The latest idea is the upgrading of As_2O_3 with a new plant - which
may also be used to treat our carbon plant sludge. Planning lab
tests first.

Larry pointed out that even if we are able to remove all soluble
As and CN from our tailings effluent, that some of the As now in
the tailings ponds may redissolve.

5. Arsenic Storage Areas

Moore described permafrost zone in which the storage areas are
located.

Would hydrostatic pressure favour discharge from Great Slave Lake
to the mine or vice versa? Not known. Suggest a study be done on
this.

6. Contingency Plan Report

They suggested that our report is too brief, not sufficiently detailed, especially people to be notified, phone numbers, including:

Water Board.
D. Billing.

Kent suggested that we are open to suggestions - from E.P.S. - re drawing up a more complete, detailed plan.

7. The committee will make recommendations to the Water Board. We will hear from the Water Board if they are satisfied with any or all of our work and reports.

8. We left the meeting at 11:00 hrs.

W. A. Moore

WAM:jc

c.c. K.S. Morton
L.J. Connell
L.S. Price