

MEMORANDUM

To A.R. Campbell; A. Chen;

Date October 30, 1973

From H.E. Pawson

Ref. _____

Subject Metal Tons at Various Locations

Samples taken October 3, 1973


	<u>B-3</u> <u>OUTFALL</u>	<u>B</u> <u>SHAFT</u>	<u>MINE</u> <u>WATER</u>	<u>BARKER CREEK</u> <u>BELOW A BOIL.</u>	<u>PRISTINE</u> <u>BARKER</u>
pH	9.2	8.4	7.8	8.0	7.6
Cyanide (CN)	34.00	5.20	1.2	2.6	0.04
Copper (Cu)	9.41	2.85	0.14	1.71	N.D.
Iron (Fe)	1.50	1.50	53.75	2.75	1.00
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	5.06	1.86	2.00	4.53	N.D.
Arsenic (As)	10.11	1.245	2.87	0.904	0.022

Note iron content of mine water.

Earlier work by Richardson and Lane indicated improved arsenic suppression by utilization of ferric salts in chloride and sulphate state.

It may be possible to convert iron in mine water to hydroxide. This should improve arsenic suppression and possibly bring down copper and zinc.

An attempt will be made in the lab and if successful, mine water could be used in the arsenic treatment agitator #8.


H.E. Pawson
Mill Superintendent