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ARSENIC DETERMINATIONS

I prefer to use the molybdenum blue method for arsenic. The procedure used is essentially that of Magnuson and Watson, as modified by Maren. Our objections to the Gutzeit method are almost too numerous to mention. Please see memo to Mr. Rogers dated April 4th, 1950.

With reference to Mr. Raht's letter dated March 31, 1950, I am writing up both methods as used here and hope to have them ready this week.

I ran the Yellowknife and Giant Yellowknife samples by Gutzeit three times, but only had a positive test by Gutzeit one time in six and then nothing measurable. This was on the water samples as received, 30 ml being taken for test.

Molybdenum blue results on the town waters and Ottawa water were as follows:

<u>Source</u>	<u>Arsenic in micrograms per litre.</u>
Ottawa	0.66 ✓
Giant Yellowknife	6.0 ✓
Yellowknife	6.0 ✓

These were run on water samples of 300 ml which were concentrated by evaporation before being tested.

c.c. G. W. Rogers
JLM/mob

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