

# THE CONSOLIDATED MINING AND SMELTING COMPANY OF CANADA LIMITED

CABLE ADDRESS  
"COMINCO"

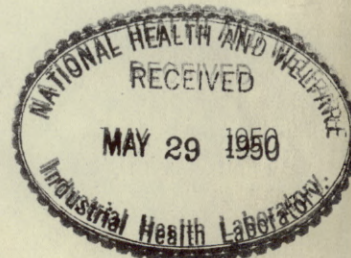
Chapman Camp, B. C.,  
May 26, 1950.

Dr. K. Kay,  
Chief, Industrial Health Laboratories,  
Department National Health and Welfare,  
Ottawa, Ontario.

Dear Dr. Kay:

Herewith are arsenic determinations on water and snow specimens taken in the vicinity of the Con Property, Yellowknife, N. W. T.

<u>Location</u>	<u>Water Specimens</u>	
	<u>Date</u>	<u>Arsenic/mgsl</u>
Pud Lake	✓ Feb. 27, 1950	35.8 ✓
" "	✓ March 6, "	43.0 ✓
" "	✓ " 20, "	35.2 ✓
" "	✓ " 31, "	39.4 ✓
" "	✓ April 10, "	38.0 ✓
" "	✓ May 1, "	37.4
" "	✓ " 12, "	36.3
Kam Lake (S. E. End)	✓ March 16, "	.15 ✓
" " "	✓ " 22, "	.125 ✓
" " "	✓ April 10, "	.15 ✓
" " "	✓ " 27, "	.10
" " "	✓ May 4, "	.20
" " "	✓ " 9, "	.25
Rat Lake (Outlet)	✓ April 29, "	.21
" " "	✓ May 4, "	.21
" " "	✓ " 11, "	.22
Con Domestic Water	✓ Feb. 15, "	<.01 ✓
" " "	✓ March 4, "	<.01 ✓
" " "	✓ " 11, "	<.01 ✓
" " "	✓ " 18, "	.02 ✓
" " "	✓ " 21, "	.01 ✓
" " "	✓ " 24, "	<.01 ✓
" " "	✓ April 5, "	<.01 ✓
" " "	✓ " 10, "	.01 ✓
" " "	✓ May 1, "	.014
" " "	✓ " 8, "	.03
" " "	✓ " 15, "	.04



Dr. Channon:

Raised as per your request. I will comment  
later. KK 29/5



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Dr. K. Kay      Page 2      May 26, 1950

Yellowknife Domestic Water	✓ Feb. 15, 1950	.015 ✓
" " "	✓ March 15, "	.02 ✓
" " "	✓ " 18, "	.01 ✓
" " "	✓ April 12, "	.01
" " "	✓ " 27, "	.015
" " "	✓ May 4, "	.03
" " "	✓ " 12, "	.04

Note the sharp increase in arsenic content of domestic water early in May. This increase is attributable to run off waters which are indicated as containing about .2 mgs/l in the Con area. (See Rat Lake outlet and Kam water)

Domestic and other water specimens will continue to be taken at weekly intervals in order to follow the arsenic deportment closely.

<u>Location</u>	<u>Snow Specimens</u> <u>Date</u>	<u>Mgs As/sq. ft.</u>
Airport	Feb. 15, 1950	3.2 ✓
"	March 6, "	3.15 ✓
"	" 21, "	8.6 ✓
"	April 6, "	11.2 ✓
"	" 26, "	19.4 ✓ (Snow Melting)
* Approx. $\frac{3}{4}$ mile west of Con	Feb. 15, "	3.6 ✓ Top 1/3
		3.2 ✓ Middle 1/3
		10.4 ✓ Bottom 1/3
* " " "	March 6, "	3.0 ✓ Top 1/3
		2.7 ✓ Middle 1/3
		6.3 ✓ Bottom 1/3
" " "	March 12, "	8.2 ✓
" " "	April 6, "	21.2 ✓
" " "	" 26, "	24.8 ✓ (Snow Melting)

\* Bottom 1/3 of samples marked \* may be contaminated by deposits laid down on earth surface before snow came.

Near Town Arena	March 21, 1950	3.8 ✓
" " "	April 6, "	32.8 ✓
" " "	" 26, "	35.2 ✓ (Snow Melting)