

# test itd.

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REPORTED TO BROWN, ERDMAN & ASSOCIATES LTD.

1409 BEWICKE AVENUE NORTH VANCOUVER, B.C.

W/O NO. W-801204-002 DATE JANUARY 7, 1981

FILE NO: 9185D

ATTENTION

MR. RICHARD VOGWILL

SAMPLE TYPE WATER

We have tested the sample of water submitted by you on Dec. 3, 1980 and report as follows:

## SAMPLE IDENTIFICATION:

The sample was submitted in a plastic bottles labelled:

WESTERN MINES 80 - 190

R-190 End of Test 12:50 Nov. 24/80 5°C Pump Off 13:07

#### METHOD OF TESTING:

The analyses were carried out in accordance with procedures described in "Standard Methods for the Examination of Water and Wastewater (14th Edition)" published by the American Public Health Association, 1975.

## RESULTS OF TESTING:

(on the following page)

#### REMARKS:

(on the following pages)

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Judi M. Mitchell, B.Sc., Chemist

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SAMPLE # CLIENT SAMPLE I.D.	1 WESTERN MINES	
		•
PHYSICAL TESTS		7 05
한 pH		7.85 3400.
Conductivity (micromhos/cm)		15.
Colour[Pt-Co scale] (CU)	7.3	
rurbidity (JTU)	1950.	
Hardness (mg/L)		
SOLIDS (mg/L)		< 0.5
Total Suspended		3140.
Total Dissolved		
DISSOLVED ANIONS (mg/L)	•	000
Alkalinity: Bicarbonate	HCO3	382. Nil
- Alkalinity: Carbonate	CO3	Nil
Albalinitu: Hydroxide	OH	46.0
Chlorides Sulfates	Cl ·	1780.
	s04 N	< 0.002
Nitrates and Nitrites	o-P04	< 0.03
Ortho Phosphates	0-204 F	1.25
Fluorides	r	
(" DISSOLVED METALS (mg/L)		2.001
Arsenic	As	< 0.001
Cadmium	Cđ	< 0.001
Calcium	Ca	520.
Copper	Cu	< 0.001 < 0.030
Iron	Fe	< 0.001
Lead	Pb	159.
Magnesium	Mg	0.006
Manganese	Mn Mo	0.006
Molybdenum	Ni .	< 0.005
Nickel	KI.	4.54
Potassium	SiO2	9.75
Silicon	Na Na	79.8
Sodium	Zn .	0.016
Zinc		
TOTAL METALS (mg/L)	Fe	< 0.030
Iron	Mn	0.007
Manganese	Ħg	0.00007
Mercury	•	
POLLUTANT TESTS (mg/L)	_	E
Total Organic Carbon	C	5. 0.18
Total Phosphate	PO4	66.
Sulfides	S	00.

mg/L - milligrams per liter

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### REMARKS:

The water represented by the sample submitted can be characterized as a very hard water, also very high in dissolved mineralization.

For the parameters tested, the sample met the limit set by "Guidelines for Canadian Drinking Water Quality, 1978", published by authority of Health and Welfare, Canada, with the exception of turbidity (limit =  $5.0 \, \text{J.T.U.}$ ) total dissolved solids (limit =  $500 \, \text{mg/L}$ ), sulfates (limit =  $500 \, \text{mg/L}$ ) and sulfide (limit =  $0.05 \, \text{mg/L}$ ). The sample was also noted to be borderline with respect to color, to be approaching the limit for fluoride (1.5 mg/L) and to be high in calcium, magnesium and hardness.

Examination of these test results would indicate that the water represented by this sample is not acceptable as potable water.