

REPORTED TO: Chris Hasek-Watt



REPORT DATE: April 17, 2009

GROUP NUMBER: 100411009

Potability (Aesthetic Criteria) in Water

CLIENT SAMPLE IDENTIFICATION:		Glacier Water		
DATE SAMPLED:		Apr 10/09		
CANTEST ID:		904110060		
		Aesthetic Objective	UNITS	
<b>Conventional Parameters</b>				
pH, Laboratory		7.41	6.5 - 8.5	pH units
True Color		< 5	15	CU
Turbidity		< 0.1	-	NTU
Total Dissolved Solids		91	500	mg/L
Total Alkalinity	CaCO3	27.6	-	mg/L
Bicarbonate Alkalinity	HCO3	33.7	-	mg/L
Carbonate Alkalinity	CO3	< 0.5	-	mg/L
Hydroxide Alkalinity	OH	< 0.5	-	mg/L
Dissolved Chloride	Cl	3.45	250	mg/L
Dissolved Sulphate	SO4	6.35	500	mg/L
<b>Total Metals Analysis</b>				
Copper	Cu	< 0.0002	1.0	mg/L
Iron	Fe	< 0.01	0.3	mg/L
Manganese	Mn	< 0.0002	0.05	mg/L
Sodium	Na	4.04	200	mg/L
Zinc	Zn	< 0.001	5	mg/L
<b>Dissolved Metals Analysis</b>				
Iron	Fe	< 0.01	0.3	mg/L
Manganese	Mn	< 0.0002	0.05	mg/L
Sodium	Na	4.21	200	mg/L

CU = color units

NTU = nephelometric turbidity units

mg/L = milligrams per liter

< = Less than detection limit

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Potability (Health Criteria at Point of Use) in Water

CLIENT SAMPLE IDENTIFICATION:		Glacier Water		
DATE SAMPLED:		Apr 10/09		
CANTEST ID:		904110060		Max. Acceptable Concentration
		UNITS		
<b>Conventional Parameters</b>				
Conductivity		66	-	µS/cm
Hardness	CaCO <sub>3</sub>	19.3	-	mg/L
Dissolved Fluoride	F	0.14	1.5	mg/L
Nitrate and Nitrite	N	0.06	10	mg/L
Dissolved Nitrate	N	0.06	10.0	mg/L
Nitrite	N	< 0.002	1.0	mg/L
Dissolved Sulphate	SO <sub>4</sub>	6.35	-	mg/L
<b>Total Metals Analysis</b>				
Aluminum	Al	0.002	-	mg/L
Antimony	Sb	< 0.0002	0.006	mg/L
Arsenic	As	0.0004	0.010	mg/L
Barium	Ba	0.0011	1.0	mg/L
Boron	B	0.02	5	mg/L
Cadmium	Cd	< 0.00004	0.005	mg/L
Chromium	Cr	< 0.0002	0.05	mg/L
Lead	Pb	< 0.0002	0.01	mg/L
Magnesium	Mg	1.08	-	mg/L
Mercury	Hg	< 0.02	1	µg/L
Selenium	Se	< 0.0002	0.01	mg/L
Uranium	U	< 0.0001	0.02	mg/L
<b>Dissolved Metals Analysis</b>				
Calcium	Ca	5.88	-	mg/L
Magnesium	Mg	1.1	-	mg/L
Potassium	K	1.13	-	mg/L
Silicon	Si	12.7	-	mg/L
<b>Microbiological Analysis</b>				
Total Coliforms (Confirmed)		< 1	not detected	Col./100 mL
E. coli		< 1	not detected	Col./100 mL

µS/cm = microsiemens per centimeter  
 µg/L = micrograms per liter  
 < = Less than detection limit

mg/L = milligrams per liter  
 Col./100 mL = Colonies per 100 mL

# Analysis Report



CANTEST LTD.

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REPORT ON: Analysis of Water Sample

REPORTED TO: Chris Hasek-Watt  
550-858 Beatty St  
Vancouver, BC  
V6B 1C1

CHAIN OF CUSTODY: 2170750

NUMBER OF SAMPLES: 1

REPORT DATE: April 17, 2009

DATE SUBMITTED: April 11, 2009

GROUP NUMBER: 100411009

SAMPLE TYPE: Water

NOTE: Results contained in this report refer only to the testing of samples as submitted. Other information is available on request.

### Aesthetic Objective Summary:

Aesthetic Objectives as set by "Guidelines for Canadian Drinking Water Quality Summary Table" -May 2008. Aesthetic objectives apply to certain substances or characteristics of drinking water that can affect its acceptance by consumers or interfere with practices for supplying good quality water. For certain parameters, both aesthetic objectives and health-related guidelines have been derived. Where only aesthetic objectives are specified, these values are below those considered to constitute a health hazard

CLIENT SAMPLE ID	STATUS
Glacier Water	Acceptable

### Max. Acceptable Concentration Summary:

Maximum Acceptable Concentrations (MAC) for both chemical and microbiological parameters are put forth in the "Guidelines for Canadian Drinking Water Quality Summary Table" - May 2008. For the parameters tested, results are generally categorized by health concerns. Some parameters have no limit value denoted because: a) currently available data indicates no health risk, b) the compound is not permitted in Canada, or c) it refers to a family of compounds.

CLIENT SAMPLE ID	HEALTH	HARDNESS
Glacier Water	Acceptable	Soft

### TEST METHODS:

Anions in Water by Ion Chromatography - was determined based on Method 4110 in Standard Methods (21st

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**Anions in Water by Ion Chromatography**

Edition) and EPA Method 300.0 (Revision 2.1).

**Alkalinity in Water** - was performed based on Method 2320 in Standard Methods (21st Edition).

**Alkalinity in Water** - was performed based on Method 2320 in Standard Methods (21st Edition).

**Colour (True) in Water** - was determined based on Method 2120 in Standard Methods (21st Edition) and Method X321 in the BC Laboratory Manual (2005 Edition).

**Conductivity in Water** - was performed based on Method 2510 in Standard Methods (21st Edition) and Method X322 in the BC Laboratory Manual (2005 Edition).

**Nitrite in Water** - was determined based on Method 4500-NO<sub>2</sub> B in Standard Methods for the examination of Water and Wastewater (21st Edition) and from the BC Laboratory Methods Manual (2005).

**pH in Water** - was determined based on Method 4500-H in Standard Methods (21st Edition) and Method X330 in the BC Laboratory Manual (2005).

**Total Dissolved Solids in Water** - was determined based on Method 2540 C in Standard Methods for the Examination of Water and Wastewater (21st Edition).

**Turbidity in Water** - was performed based on Method 2130 in Standard Methods (21st Edition) and Method X164 in the BC Laboratory Manual (2005 Edition).

**Conventional Parameters** - analyses were performed using procedures based on those described in the most current editions of "British Columbia Environmental Laboratory Manual for the Analysis of Water, Wastewater, Sediment and Biological Materials", (2005 edition) Province of British Columbia and "Standard Methods for the Examination of Water and Wastewater" (21st Edition), published by the American Public Health Association.

**Mercury in Water** - analysis was performed using procedures based on U. S. EPA Method 245.7, oxidative digestion using bromination, and analysis using Cold Vapour Atomic Fluorescence Spectroscopy.

**Metals in Water** - analysis was performed using Inductively Coupled Plasma Optical Emission Spectroscopy (ICP), Inductively Coupled Plasma-Mass Spectroscopy (ICP/MS).

**Dissolved Metals in Water** - Samples were filtered in the laboratory and quantitatively determined using Inductively Coupled Plasma Optical Emission Spectroscopy (ICP) and/or Inductively Coupled Plasma-Mass Spectroscopy (ICP/MS).

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**Microbiological Parameters - analyses were performed using procedures based on those described in "B. C. Environmental Laboratory Manual For the Analysis of Water, Wastewater, Sediment and Biological Materials" (2005 Edition) and "Standard Methods for the Examination of Water and Wastewater", 21st Edition (2005). Analysis was performed using Membrane Filtration (MF) Method (reported as "Colonies or CFU per unit volume").**

**TEST RESULTS:**

(See following pages)