

TABLES

Table 1
Summary of Information Collected for Contaminant Inventory
District of Highlands, BC

Publication / Information	Source¹	Description
BC Online Registry. http://www.bconline.gov.bc.ca/	online	Environmental records on file for Commercial/Industrial properties in the Highlands
Capital Regional District. 2008. <i>CRD Media Release: CRD and Province Partner to Clean Up Millstream Meadows Victoria</i> . April 1, 2008.	online	Remediation activities at the Millstream Meadows property
Capital Regional District. 2008. CRD Project Update: Millstream Meadows Site Clean-up. December, 2008.	online	Remediation activities at the Millstream Meadows property
District of Highlands. 2007. <i>District of Highlands Official Community Plan: Schedule A to Bylaw No. 277</i>	DoH ²	Land use designations
Fischl, P. 1992. <i>Limestone and Dolomite Resources in British Columbia</i>	BC MEMPR	Geological information
Franz Environmental Inc. 2005. <i>Groundwater Baseline Study, District of Highlands, BC</i>	DoH	Results of well owner survey and water quality information
Golder Associates Ltd. 2000. <i>Detailed Site Investigation Millstream Meadows Site Highlands District, BC</i>	GAL ³	Historical land use and environmental conditions at the Millstream Meadows site
Golder Associates Ltd. 2007. <i>Environmental Assessment of the Source of Contamination Identified at MW04-1 Millstream Meadows Site, the District of Highlands, BC</i>	GAL	Environmental conditions at the Millstream Meadows site
Hodge Hydrogeology Consulting. 2004. <i>Certification of Well Capacity and Groundwater Quality (Potability) – 925 River Road, Highlands District</i>	DoH	Water quality information for select well in Highlands
Lowen Hydrogeology Consulting. 2003. <i>Highlands Estates – Stage 2 Revised Report: Feasibility of Well Water Supply for Proposed Residential Development</i>	DoH	Water quality information for select wells in Highlands
Lowen Hydrogeology Consulting. 2003. <i>Well Water Supply and Impact Assessment for Water Utility Application</i>	GAL	Water quality information for select wells in Highlands

¹ Source from which Information/Data was collected

² District of Highlands

³ Golder Associates Ltd.

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Publication / Information	Source¹	Description
Lowen Hydrogeology Consulting. 2004. <i>Highlands Estates – Phase 4: Feasibility of Well Water Supply for Proposed Residential Development</i>	DoH	Water quality information for select wells in Highlands
M. Miles and Associates Ltd. 2002. <i>Millstream Creek Watershed Water Detention Study</i>	DoH	Assessment of hydrology in Millstream Creek watershed
Orca Environmental Corp. Summer, Fall 1998; Winter, Spring, Summer, Fall 1999; Summer 2003; Winter, Summer, Fall 2004. <i>Millstream Industrial Park Quarterly Monitoring Report</i>	WGCL ⁴ , DoH	Water quality information for wells located in Millstream Industrial Park
Orca Environmental Corp. 1999. <i>Millstream Industrial Park Site Characterisation Chemical Evaluation</i>	WGCL, DoH	Information on environmental conditions at APECs ⁵ and water quality information at Millstream Industrial Park
Payne Engineering Geology. 1999. <i>Reports on: (1) Ground Water Resources and (2) Surface Water Resources for Eagles Lake Estates, a Four-Lot Subdivision of Lot 2, Plan 28503, Section 22 and 39, Highland Land District. Prepared for Svec Land Development Consultants</i>	DoH	Water quality information for select wells in Highlands and considerations for groundwater protection
Thurber Engineering. 1995. <i>Flitton Management Ltd. Highlands North Project: Stage 2 – Water Well Program</i>	DoH	Water quality information for select wells in Highlands
Thurber Engineering. 1995. <i>Molnar Developments Ltd. Highlands North Project: Stage 1 – Water Well Program</i>	DoH	Water quality information for select wells in Highlands
Thurber Engineering. 1995. <i>West Millstream Development Phase A & B – Water Well Program</i>	BC MOE	Water quality information for select wells in Highlands
Thurber Engineering. 1996. <i>Western Forest Products Highlands North Project Stage 3 – Water Well Program</i>	DoH	Water quality information for select wells in Highlands

⁴ Western Grater Contracting Ltd. (Millstream Industrial Park)

⁵ Areas of Potential Environmental Concern

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Publication / Information	Source¹	Description
Thurber Engineering. 1998. <i>Western Forest Products Highlands East Project Water Well Program</i>	DoH	Water quality information for select wells in Highlands
Thurber Engineering. 1998. <i>Western Forest Products Limited Highlands South Golf Community Groundwater Supply Program</i>	DoH	Groundwater Demand-Availability Ratios and water quality information for select wells in the Highlands
Thurber Engineering. 2002. <i>Highlands 1 Holding Ltd. Highlands Estates – Stage ‘C’ Water Well Program</i>	DoH	Water quality information for select wells in Highlands
Thurber Engineering. 2003. <i>Bear Mountain Golf & Country Club Langford Golf Course Groundwater Supply Report</i>	DoH	Water quality information for select wells in Highlands
Thurber Engineering. 2004. <i>Robertson Subdivision Highlands Well Assessment Program Lots 1-6, Wells #650-655</i>	DoH	Water quality information for select wells in Highlands
Thurber Engineering. 2007. <i>Bear Mountain Golf & Country Club Highlands Golf Course Groundwater Supply Report 2006 – 2007 Program</i>	DoH	Water quality information for select wells in Highlands
Thurber Environmental Consultants Ltd. 2001. <i>REM 5 – Millstream Road Site, Victoria, BC, Groundwater Investigation</i>	DoH	Land use and water quality information for industrial properties in the southern portion of the Highlands
Trow Associates Inc. 2005. <i>Data Report, Stage 2 PSI, APECS 5 and 6 Millstream Industrial Park, District of Highlands, BC</i>	WGCL ⁶ , DoH	Information on environmental conditions on APECs at Millstream Industrial Park
Trow Associates Inc. 2005. <i>Data Report, Stage 2 PSI, APECS 5 and 9 Millstream Industrial Park, District of Highlands, BC</i>	WGCL, DoH	Information on environmental conditions on APECs at Millstream Industrial Park
Trow Associates Inc. 2005. <i>Draft Stage 1 Preliminary Site Investigation</i>	WGCL, DoH	Historical land use and environmental conditions at the Millstream Industrial Park

⁶ Western Grater Contracting Ltd. (Millstream Industrial Park)

Table 2
Summary of Information for Contaminant Inventory - Commercial/Industrial (C/I) Properties
District of Highlands, BC

Property	Address	Area of Potential Groundwater Contamination ^{a,b}	Land Use Activity	Description	Potential Contaminants of Concern
Highwest Waste Management Facility	1943 Millstream Road, Highlands	HWMF	Landfill area, soil treatment cell and open trench burner ^{1,2}	Former landfill disposal area, and active operation of a landfill for select waste (demolition and earth materials, vegetation, etc.), operation of a soil treatment cell and operation of an open trench burner.	metals, hydrocarbons (LEPH, HEPH, PAHs, BTEX, VPH), phenols, dioxins, furans
Millstream Meadows	1965 Millstream Road, Highlands	MM 1	Former septage lagoon areas ²	Former lagoons used for disposal of septage and other liquid wastes (including oil)	metals, hydrocarbons (LEPH, HEPH, PAHs, BTEX, VPH), phenols
		MM 2	Fill area ²	Placement of fill material of unknown quality (included bricks, concrete and metal fragments)	metals
		MM 3	Refuse areas ²	Disposal of miscellaneous waste including appliances, automobile parts and household debris	metals
REM 5, Millstream Road Site	(PID 024-710-270)	REM	Formerly logged area, localised dumping ³	Formerly logged area with localised dumping along access roads	metals, hydrocarbons (EPH, PAHs, VOCs, VPH, BTEX)
Millstream Industrial Park	2015 Millstream Road, Highlands	MIP 1	Former waste oil recycling facility ⁴	Storage of waste oil (ASTs ^c and USTs ^d) between 1981 and 1992 UST spill in 1991: remediation consisted of a partial cleanup (1991), excavation and stockpiling 7,880 m ³ of soil and rock from former tank farm area (1993), stockpiled material mixed with blast rock and used as fill	metals, hydrocarbons (EPH, PAHs, VOCs, VPH, BTEX)
		MIP 2	Former excavating and fleet maintenance facility ⁴	Equipment maintenance (including washing parts with solvents) and storage of waste oil storage	metals, hydrocarbons (EPH, PAHs, VOCs, VPH, BTEX), glycol
		MIP 3	Asphalt manufacturing facility ⁴	Active asphalt plant: tanks containing asphalt mix and diesel fuel, placement of fill material of unknown quality	metals, hydrocarbons (EPH, PAHs, VOCs, VPH, BTEX)
		MIP 4	Auto wrecking facility ⁴	Active auto wrecking facility: storage tanks, transfer of waste oil and automotive fluids, storage of automotive batteries, generation of waste metallic debris; dumping of municipal waste and fill material of unknown quality	metals, hydrocarbons (EPH, PAHs, VOCs, VPH, BTEX), glycol
		MIP 5	Industrial extraction facility ⁴	Active quarry operations, storage of asphalt, equipment maintenance and fuelling, storage of fuel tanks and drums	metals, hydrocarbons (EPH, PAHs, VOCs, VPH, BTEX), glycol
		MIP 6	Former storage area (tires, paint, paint solvent and acetone) ⁴	Former storage area (tires, paint, paint solvent and acetone); reported tire fire (up to 40,000 tires) prior to 1988	metals, hydrocarbons (EPH, PAHs, VOCs, VPH, BTEX), dioxins, furans
	2023 Millstream Road, Langford	MIP 7	Recycled asphalt and fill area ⁴	Storage of recycled asphalt and placement of fill material of unknown quality	metals, hydrocarbons (EPH, PAHs, VOCs, VPH, BTEX)
		MIP 8	Fill area and soil remediation cells ⁴	Former soil remediation cell (contaminated soil stockpile), placement of fill of unknown quality	metals, hydrocarbons (EPH, PAHs, VOCs, VPH, BTEX)
		MIP 9	Roofing facility, industrial extraction ⁴	Active roofing facility: vehicle fuelling, storage of roofing materials; quarry operations	metals, hydrocarbons (EPH, PAHs, VOCs, VPH, BTEX)
		MIP 10	Propane distribution facility ⁴	Active propane distribution facility: storage, filling and distribution of propane tanks	metals, hydrocarbons (EPH, PAHs, VOCs, VPH, BTEX)
		MIP 11	Concrete production and distribution facilities ⁴	Active concrete production and distribution facilities, vehicle fuelling and maintenance	metals, hydrocarbons (EPH, PAHs, VOCs, VPH, BTEX), alkaline conditions
		MIP 12	Street sweeping vehicle storage and maintenance facility ⁴	Active vehicle and equipment (street sweeping) cleaning, fuelling and maintenance facility	metals, hydrocarbons (EPH, PAHs, VOCs, VPH, BTEX)
All Fun Recreation Park	2207 Millstream Road, Langford	AFRP 1	Former water slide facilities	Former operation of water slide facilities	chlorine, chemicals
		AFRP 2	Active automotive racetrack	Inferred automotive maintenance and fuelling; inferred placement of fill of unknown quality	metals, hydrocarbons (EPH, PAHs, VOCs, VPH, BTEX), glycol

Notes:

- Areas of Potential Groundwater Contamination estimated for the purposes of the Groundwater Protection Study are based on a summary of available information and do not correspond directly with Areas of Potential Contamination (APECs) presented in referenced reports.
- Locations of Areas of Potential Groundwater Contamination are presented in Figure 3.
- AST = above ground storage tank
- UST = underground storage tank
- EPH = Extractable Petroleum Hydrocarbons, LEPH/HEPH = Light/Heavy Extractable Petroleum Hydrocarbons, PAHs = Polycyclic Aromatic Hydrocarbons
BTEX = Benzene, Toluene, Ethyl Benzene and Xylene, VPH = Volatile Petroleum Hydrocarbons, VOCs = Volatile Organic Compounds

References:

- Chew Excavating Ltd., 2009. Personal Communication: D.Bruce Dyck, President. August 24, 2009.
- Golder Associates Ltd., 2000. Detailed Site Investigation Millstream Meadows Site, Highlands, BC. Golder Project No. 992-1511.
- Thurber Environmental Consultants Ltd., 2001. REM 5 – Millstream Road Site, Victoria, BC, Groundwater Investigation.
- Trow Associates Inc., 2005. Draft Stage 1 Preliminary Site Investigation, Millstream Industrial Park, District of Highlands, BC. Trow Project No. 048-01065.

Table 4:
Results of Preliminary Water Level Monitoring and Groundwater Quality Testing Program
District of Highlands, BC

Location: Sample Control Number (SCN): Date Sampled: QA/QC:	Guidelines for Canadian Drinking Water Quality - 2008 ⁽¹⁾	Notes	DOH-01 0938-01 18-Feb-09	DOH-02A 0937-01 17-Feb-09	DOH-02A 0795-01 25-May-09	DOH-02B 21333-05 21-Sep-09 FRA	DOH-02B 21333-06 21-Sep-09 Field Replicate	DOH-03 21333-01 21-Sep-09	DOH-04 21333-04 21-Sep-09	DOH-05 - 21-Sep-09	DOH-06 21334-03 29-Sep-09	DOH-07 21333-02 21-Sep-09	DOH-08 21333-03 21-Sep-09	DOH-09A - 29-Sep-09	DOH-09B 21334-01 29-Sep-09	DOH-10 21334-02 29-Sep-09
Depth to Groundwater (m btoc)		M	-	-	-	-	-	6.21	-	33.51	7.48	13.54	22.93	4.77	-	13.05
General Field Parameters																
pH	6.5 - 8.5	AO,OG	7.8	6.8	6.7	7.0	7.0	6.8	7.5	-	7.6	7.4	7.0	-	8.0	6.6
Temperature (°C)	≤15 °C	AO	10.7	10.0	10.4	11.4	11.4	14.3	10.5	-	9.9	10.1	12.4	-	11.0	11.4
Conductivity (µS/cm)			181	555	472	610	610	1109	419	-	287	173	422	-	186	238
Physical Tests ⁽²⁾																
Colour, True (TCU)	≤15	AO	<5.0	5.9	16.0	<5.0	<5.0	<5.0	<5.0	-	<5.0	<5.0	<5.0	-	<5.0	<5.0
Conductivity (µS/cm)			145	472	494	608	609	1110	421	-	240	178	425	-	189	289
Hardness (as CaCO ₃)			55.4	254	226	288	291	533	217	-	140	84.0	217	-	48.8	106
pH			8.04	7.76	7.42	7.34	7.29	7.31	7.76	-	6.98	7.40	7.18	-	8.06	7.97
Total Dissolved Solids	≤500	AO	103	297	295	351	386	969	246	-	189	101	256	-	131	146
Turbidity (NTU)	0.3/1.0/0.1 ⁽⁴⁾	OG	15.1	11.6	24.4	16.0	16.2	8.69	0.71	-	0.65	0.33	0.19	-	1.75	0.28
Anions and Nutrients																
Alkalinity, Total (as CaCO ₃)			65.7	209	216	197	197	370	187	-	134	80.5	164	-	82.2	110
Bromide (Br)			-	-	-	<0.050	<0.050	<0.50	<0.050	-	-	<0.050	<0.050	-	-	-
Chloride (Cl)	≤250	AO	3.8	16.3	15.8	39.6	36.5	124	18.3	-	3.12	4.21	21.1	-	6.38	3.88
Fluoride (F)	1.5	MAC	<0.020	0.099	0.101	0.152	0.148	<0.20	0.038	-	<0.020	<0.020	<0.020	-	<0.020	<0.020
Nitrate (as N)	10	MAC	<0.0050	<0.0050	<0.0050	0.148	0.143	1.80	<0.0050	-	<0.0050	0.0184	3.43	-	<0.0050	0.533
Nitrite (as N)	3.2	MAC	<0.0010	<0.0010	<0.0010	<0.0010	0.0039	<0.010	<0.0010	-	<0.0010	<0.0010	<0.0010	-	<0.0010	<0.0010
Sulfate (SO ₄)	≤500	AO	6.37	24.2	24.7	63.7	59.7	46.3	13.4	-	12.1	7.56	16.3	-	5.18	4.31
Bacteriological Tests																
E. coli (MPN/100 mL) ⁽³⁾	0 per 100 mL		<1	<1	<1	<1	<1	<1	<1	-	<1	<1	<1	-	<1	<1
Coliform Bacteria - Total (MPN/100 mL)	0 per 100 mL		<1	1	<1	<1	<1	14	1	-	<1	3	31	-	>201	<1
Total Metals																
Aluminum	0.1/0.2 ⁽⁵⁾	AO,OG	0.035	<0.020	<0.0020	0.020	0.020	<0.020	<0.010	-	<0.010	<0.010	<0.010	-	<0.010	<0.010
Antimony	0.006	MAC	<0.00050	<0.0010	<0.00020	<0.0010	<0.0010	<0.0010	<0.00050	-	<0.00050	<0.00050	<0.00050	-	<0.00050	<0.00050
Arsenic	0.01	MAC	<0.00010	0.00064	0.00057	<0.00020	0.00022	<0.00080	0.00015	-	<0.00010	<0.00010	<0.00010	-	0.00025	<0.00010
Barium	1.0	MAC	<0.020	<0.040	0.0290	0.041	0.041	<0.040	<0.020	-	<0.020	<0.020	<0.020	-	<0.020	<0.020
Beryllium			<0.0050	<0.0050	<0.0010	<0.0050	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050	<0.0050	-	<0.0050	<0.0050
Bismuth			<0.20	<0.20	<0.0010	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	-	<0.20	<0.20
Boron	5	MAC	<0.10	<0.20	<0.020	<0.20	<0.20	<0.20	<0.10	-	<0.10	<0.10	<0.10	-	0.18	<0.10
Cadmium	0.005	MAC	<0.00020	<0.00040	<0.00010	<0.00040	<0.00040	0.00195	<0.00020	-	<0.00020	<0.00020	<0.00020	-	<0.00020	<0.00020
Calcium			18.7	94.5	84.1	106	107	164	70.7	-	47.5	27.5	66.1	-	15.9	36.8
Chromium	0.05	MAC	0.003	<0.0040	0.0013	<0.0040	<0.0040	<0.0040	<0.0020	-	<0.0020	<0.0020	<0.0020	-	<0.0020	<0.0020
Cobalt			<0.010	<0.010	<0.00020	<0.010	<0.010	<0.010	<0.010	-	<0.010	<0.010	<0.010	-	<0.010	<0.010
Copper	<1.0	AO	0.0052	<0.0020	0.00027	<0.0020	<0.0020	0.0360	<0.0010	-	<0.0010	<0.0010	0.0381	-	0.0029	0.0083
Iron	≤0.3	AO	1.07	2.1	2.06	1.81	1.79	1.13	0.203	-	0.094	0.031	<0.030	-	0.647	0.043
Lead	0.01	MAC	<0.00050	<0.0010	<0.0010	<0.0010	<0.0010	0.0035	<0.00050	-	0.00129	<0.00050	0.00231	-	<0.00050	<0.00050
Lithium			<0.010	<0.010	<0.010	<0.010	<0.010	0.054	<0.010	-	<0.010	<0.010	<0.010	-	<0.010	<0.010
Magnesium			2.11	4.43	3.91	5.78	5.83	29.9	9.82	-	5.32	3.72	12.7	-	2.21	3.46
Manganese	≤0.05	AO	0.0522	0.164	0.152	0.465	0.467	0.0230	0.184	-	0.0470	<0.0020	<0.0020	-	0.0383	0.0038
Mercury	0.001	MAC	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	-	<0.00020	<0.00020	<0.00020	-	<0.00020	<0.00020
Molybdenum			<0.030	<0.030	0.00026	<0.030	<0.030	<0.030	<0.030	-	<0.030	<0.030	<0.030	-	<0.030	<0.030
Nickel			<0.050	<0.050	<0.0010	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	<0.050	-	<0.050	<0.050
Phosphorus			<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	-	<0.30	<0.30	<0.30	-	<0.30	<0.30
Potassium			<0.10	0.36	0.32	0.47	0.47	1.42	0.50	-	0.11	<0.10	0.18	-	<0.10	0.13
Selenium	0.01	MAC	<0.0010	<0.0020	<0.0020	<0.0020	<0.0020	<0.0040	<0.0010	-	<0.0010	<0.0010	<0.0010	-	<0.0010	<0.0010
Silicon			10.4	7.03	7.03	7.97	7.93	7.61	9.68	-	11.1	5.72	9.61	-	12.7	6.83
Silver			<0.010	<0.010	<0.000020	<0.010	<0.010	<0.010	<0.010	-	<0.010	<0.010	<0.010	-	<0.010	<0.010
Sodium	≤200	AO	8.9	4.8	5.0	9.5	9.5	23.2	7.7	-	4.3	3.7	4.9	-	21.4	6.0
Strontium			0.0905	0.225	0.229	0.291	0.291	0.510	0.528	-	0.124	0.0487	0.0740	-	0.0438	0.106
Thallium			<0.20	<0.20	<0.00020	<0.20	<0.20	<0.20	<0.20	-	<0.20	<0.20	<0.20	-	<0.20	<0.20
Tin			<0.030	<0.030	<0.00020	<0.030	<0.030	<0.030	<0.030	-	<0.030	<0.030	<0.030	-	<0.030	<0.030
Titanium			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	-	<0.010	<0.010	<0.010	-	<0.010	<0.010
Uranium	0.02	MAC	<0.00010	<0.00020	0.000125	<0.00020	<0.00020	0.00592	<0.00010	-	<0.00010	<0.00010	<0.00010	-	<0.00010	<0.00010
Vanadium			<0.030	<0.030	<0.0020	<0.030	<0.030	<0.030	<0.030	-	<0.030	<0.030	<0.030	-	<0.030	<0.030
Zinc	≤5.0	AO	<0.050	<0.10	0.0188	<0.10	<0.10	4.12	<0.050	-	0.320	<0.050	<0.050	-	<0.050	<0.050

Notes:

- All concentrations are in milligrams per litre (mg/L) unless otherwise noted
- '<' Less than the lab detection limit indicated
- m btoc metres below top of casing
- M manual measurement
- AO/OG/MAC Aesthetic Objective / Operational Guideline / Maximum Allowable Concentration
- (1) Health Canada Guidelines for Canadian Drinking Water Quality, May 2008.
- (2) As measured in the analytical laboratory
- (3) Most probable number
- (4) Based on conventional treatment/slow sand or diatomaceous earth filtration/membrane filtration.
- (5) Operational guidance value (OG), designed to apply only to drinking water treatment plants using aluminum-based coagulants (0.1 mg/L applies to conventional treatment plants, 0.2 mg/L applies to other types of systems)

1.0 Highlighted value indicates that the value is equal to or greater than the Canadian Drinking Water Guideline

Table 5:
Results of QA/QC Sample Analyses for Preliminary Groundwater Quality Testing Program
District of Highlands, BC

Location: Sample Control Number (SCN): Date Sampled: QA/QC:	Guidelines for Canadian Drinking Water Quality - 2008 ⁽¹⁾	Notes	DOH-02B 21333-05 21-Sep-09 FRA	DOH-02B 21333-06 21-Sep-09 Field Replicate	Method Detection Limit	Mean	Relative Percent Difference	Difference Factor (DF)
Depth to Groundwater (m btoc)		M	-	-				
General Field Parameters								
pH	6.5 - 8.5	AO,OG	7.0	7.0	N/A	N/C	N/C	N/C
Temperature (°C)	≤15 °C	AO	11.4	11.4	N/A	N/C	N/C	N/C
Conductivity (µS/cm)			610	610	N/A	N/C	N/C	N/C
Physical Tests ⁽²⁾								
Colour, True (TCU)	≤15	AO	<5.0	<5.0	5	N/C	N/C	N/C
Conductivity (µS/cm)			608	609	2	608.5	0.16%	N/C
Hardness (as CaCO ₃)			288	291	1.6	289.5	1.04%	N/C
pH			7.34	7.29	0.1	7.32	0.68%	N/C
Total Dissolved Solids	≤500	AO	351	386	10	369	9.50%	N/C
Turbidity (NTU)	0.3/1.0/0.1 ⁽⁴⁾	OG	16.0	16.2	0.1	16.1	1.24%	N/C
Anions and Nutrients								
Alkalinity, Total (as CaCO ₃)			197	197	2	197	0.00%	N/C
Bromide (Br)			<0.050	<0.050	0.05	N/C	N/C	N/C
Chloride (Cl)	≤250	AO	39.6	36.5	0.5	38.1	8.15%	N/C
Fluoride (F)	1.5	MAC	0.152	0.148	0.02	0.150	2.67%	N/C
Nitrate (as N)	10	MAC	0.148	0.143	0.005	0.146	3.44%	N/C
Nitrite (as N)	3.2	MAC	<0.0010	0.0039	0.001	N/C	N/C	N/C
Sulfate (SO ₄)	≤500	AO	63.7	59.7	0.5	61.7	6.48%	N/C
Bacteriological Tests								
E. coli (MPN/100 mL) ⁽³⁾	0 per 100 mL		<1	<1	1	N/C	N/C	N/C
Coliform Bacteria - Total (MPN/100 mL)	0 per 100 mL		<1	<1	1	N/C	N/C	N/C
Total Metals								
Aluminum	0.1/0.2 ⁽⁵⁾	AO,OG	0.020	0.020	0.02	0.020	N/C	0.00
Antimony	0.006	MAC	<0.0010	<0.0010	0.001	N/C	N/C	N/C
Arsenic	0.01	MAC	<0.00020	0.00022	0.0002	N/C	N/C	N/C
Barium	1.0	MAC	0.041	0.041	0.04	0.041	N/C	N/C
Beryllium			<0.0050	<0.0050	0.005	N/C	N/C	N/C
Bismuth			<0.20	<0.20	0.2	N/C	N/C	N/C
Boron	5	MAC	<0.20	<0.20	0.2	N/C	N/C	N/C
Cadmium	0.005	MAC	<0.00040	<0.00040	0.0004	N/C	N/C	N/C
Calcium			106	107	0.2	106.5	0.94%	N/C
Chromium	0.05	MAC	<0.0040	<0.0040	0.004	N/C	N/C	N/C
Cobalt			<0.010	<0.010	0.01	N/C	N/C	N/C
Copper	≤1.0	AO	<0.0020	<0.0020	0.002	N/C	N/C	N/C
Iron	≤0.3	AO	1.81	1.79	0.03	1.80	1.11%	N/C
Lead	0.01	MAC	<0.0010	<0.0010	0.001	N/C	N/C	N/C
Lithium			<0.010	<0.010	0.01	N/C	N/C	N/C
Magnesium			5.78	5.83	0.2	5.81	0.86%	N/C
Manganese	≤0.05	AO	0.465	0.467	0.004	0.466	0.43%	N/C
Mercury	0.001	MAC	<0.00020	<0.00020	0.0002	N/C	N/C	N/C
Molybdenum			<0.030	<0.030	0.03	N/C	N/C	N/C
Nickel			<0.050	<0.050	0.05	N/C	N/C	N/C
Phosphorus			<0.30	<0.30	0.3	N/C	N/C	N/C
Potassium			0.47	0.47	0.2	0.47	N/C	0.00
Selenium	0.01	MAC	<0.0020	<0.0020	0.002	N/C	N/C	N/C
Silicon			7.97	7.93	0.05	7.95	0.50%	N/C
Silver			<0.010	<0.010	0.01	N/C	N/C	N/C
Sodium	≤200	AO	9.5	9.5	2	9.5	N/C	0.00
Strontium			0.291	0.291	0.005	0.291	0.00%	N/C
Thallium			<0.20	<0.20	0.2	N/C	N/C	N/C
Tin			<0.030	<0.030	0.03	N/C	N/C	N/C
Titanium			<0.010	<0.010	0.01	N/C	N/C	N/C
Uranium	0.02	MAC	<0.00020	<0.00020	0.0002	N/C	N/C	N/C
Vanadium			<0.030	<0.030	0.03	N/C	N/C	N/C
Zinc	≤5.0	AO	<0.10	<0.10	0.1	N/C	N/C	N/C

Notes:

All concentrations are in milligrams per litre (mg/L) unless otherwise noted

'<' Less than the lab detection limit indicated

m btoc metres below top of casing

M manual measurement

AO Aesthetic Objective

OG Operational Guideline

MAC Maximum Allowable Concentration

(1) Health Canada Guidelines for Canadian Drinking Water Quality, May 2008.

(2) As measured in the analytical laboratory

(3) Most probable number

(4) Based on conventional treatment/slow sand or diatomaceous earth filtration/membrane filtration.

(5) Operational guidance value (OG), designed to apply only to drinking water treatment plants using aluminum-based coagulants (0.1 mg/L applies to conventional treatment plants, 0.2 mg/L applies to other types of systems)

1.0

Highlighted value indicates that the value is equal to or greater than the Canadian Drinking Water Guideline