

Source Water Quality for Public Water Supplies in Newfoundland and Labrador - Additional Parameters

Community Name	Serviced Area	Source Name	Sample Date	Strontium	Nitrate	Nitrite	TOC
			Units	mg/L	mg/L	mg/L	mg/L
			Guidelines for Canadian Drinking Water Quality				7
Appleton	Appleton (+Glenwood)	Gander Lake (The Outflow)	Aug 13, 2024	0.01	0.10	LTD	6.60
Badger	Badger	Well Field, 2 wells on standby	Sep 09, 2024	0.02	0.12	0.01	LTD
Badger	Badger	Well Field, 2 wells on standby	Sep 09, 2024	0.12	LTD	LTD	LTD
Baine Harbour	Baine Harbour	Dug	Sep 16, 2024	0.04	0.11	LTD	2.20
Branch	Branch	Drilled Wells	Aug 14, 2024	0.23	0.50	LTD	0.54
Bryant's Cove	Bryant's Cove South Side	#1 Well - Bert James Well #2 Well - Baxter Bowering Well	Aug 15, 2024	0.07	0.21	LTD	LTD
Bunyan's Cove	Bunyan's Cove	#1 Wellfield	Aug 19, 2024	0.04	0.21	LTD	3.40
Canning's Cove	Lower Canning's Cove	#1 Well - Pleman Pitts	Aug 19, 2024	0.27	0.09	LTD	0.61
Canning's Cove	Upper Canning's Cove	#2 Well - Eugene Ellis	Aug 19, 2024	0.15	0.18	LTD	1.60
Canning's Cove	Upper Canning's Cove	#2 Well - Eugene Ellis	Sep 18, 2024	0.15	0.20	LTD	1.10
Canning's Cove	Centre Canning's Cove	#3 Well - Glenda Penney	Aug 19, 2024	0.08	0.08	LTD	0.88
Charlottetown (Labrador)	Charlottetown (Labrador)	Middle Pond	Aug 13, 2024	0.01	LTD	LTD	9.30
Charlottetown (Labrador)	Charlottetown (Labrador) - PWDU	Middle Pond	Aug 13, 2024	0.01	LTD	LTD	9.30
Churchill Falls	Churchill Falls	Smallwood Reservoir	Jul 25, 2024	0.01	LTD	LTD	3.40
Clarenville	Clarenville, Shoal Harbour	Shoal Harbour River	Aug 05, 2024	0.01	LTD	LTD	5.40
Eastport	Eastport (+Sandy Cove)	Dug	Sep 10, 2024	0.03	0.32	0.01	LTD
Frenchman's Cove	Frenchman's Cove	Dug Well	Aug 20, 2024	0.01	0.14	LTD	4.40
Gaskiers	Gaskiers-Point La Haye - PWDU	Well	Aug 14, 2024	0.12	LTD	LTD	0.55
Glenwood	Glenwood	Gander Lake (The Outflow)	Aug 13, 2024	0.01	0.10	LTD	6.60
Harbour Mille-Little Harbour East	Harbour Mille, Little Harbour East (Fortune Bay)	Well	Aug 20, 2024	0.52	LTD	LTD	7.90
Harry's Harbour	Harry's Harbour	#1C Well - Northeast Well	Sep 09, 2024	0.10	LTD	LTD	0.55
Harry's Harbour	Harry's Harbour	#2 Well - Northwest Hill / Country Road	Sep 09, 2024	0.15	0.10	LTD	1.00
Harry's Harbour	Harry's Harbour	#3 Well - South Well	Sep 09, 2024	0.09	LTD	LTD	LTD
Hodge's Cove	Hodge's Cove	Drilled	Aug 12, 2024	0.06	0.26	LTD	0.62
Hopedale	Hopedale	American Pond	Aug 29, 2024	0.00	LTD	LTD	4.90
Indian Bay	Indian Bay	Indian Bay Brook	Aug 07, 2024	0.01	LTD	LTD	5.50
Jackson's Cove-Langdon's Cove-Silverdale	Langdon's Cove	#3 Well Langdon's Cove Well	Sep 09, 2024	0.10	LTD	LTD	0.96
Jean de Baie	Jean de Baie	#1 Well	Aug 19, 2024	0.08	0.14	LTD	1.60
L'Anse au Loup	L'Anse au Loup	L'anse Au Loup River	Aug 14, 2024	0.01	0.07	LTD	5.10
Labrador City	Labrador City	Beverly Lake	Jul 24, 2024	0.02	LTD	LTD	2.60
Mary's Harbour	Mary's Harbour	St. Mary's River	Aug 14, 2024	0.01	LTD	LTD	8.90

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			Units Guidelines for Canadian Drinking Water Quality	mg/L 7	mg/L 10	mg/L 1	mg/L
Mary's Harbour	Mary's Harbour - PWDU	St. Mary's River	Aug 14, 2024	0.01	LTD	LTD	8.90
McCallum	McCallum	Drilled	Sep 25, 2024	0.05	LTD	LTD	27.00
Nain	Nain	Trouser Lake	Aug 28, 2024	0.01	LTD	LTD	3.30
Natuashish	Natuashish (Sango Bay)	Sango Brook and Wellfield	Aug 29, 2024	0.02	LTD	LTD	3.00
Natuashish	Natuashish (Sango Bay)	Sango Brook and Wellfield	Aug 29, 2024	0.12	LTD	LTD	0.55
Petley	Petley	Drilled + Dug Reservoir	Aug 12, 2024	2.60	0.09	LTD	0.66
Port Rexton	Port Rexton	#1 Well - Lois Long Well	Aug 19, 2024	0.11	0.50	LTD	0.60
Port Rexton	Hunchback Hill	#3 Well - Harold Vivian's Well	Aug 19, 2024	0.14	0.11	LTD	LTD
Port Rexton	Ship Cove	#5 Well - Mabel Clarke's Well	Aug 19, 2024	0.05	2.00	LTD	3.50
Port Rexton	Ship Cove	#6 Well - Banister's Well	Aug 19, 2024	0.12	0.06	LTD	1.20
Port Rexton	Champneys Arm	Champney's Arm Well	Aug 19, 2024	0.19	LTD	LTD	2.40
Random Sound West	North West Brook, Ivany Cove	#1 Well - Cabot Road South Well	Aug 12, 2024	0.80	0.06	LTD	2.30
Random Sound West	North West Brook, Ivany Cove	#2 Well	Aug 12, 2024	0.11	0.75	LTD	0.92
Random Sound West	North West Brook, Ivany Cove	#3 Well - Harbour Well	Aug 12, 2024	0.12	0.09	LTD	2.80
Red Harbour	Red Harbour	1A Well Drilled + 1C Dug Well (back-up)	Aug 20, 2024	0.50	0.08	LTD	1.90
Sandringham	Sandringham	Drilled	Sep 10, 2024	0.03	0.43	LTD	0.61
Sandringham	Sandringham	Drilled	Sep 10, 2024	0.03	1.20	LTD	0.55
Sandy Cove	Sandy Cove	Dug	Sep 10, 2024	0.03	0.32	0.01	LTD
Smith's Sound	Harcourt-Monroe-Waterville	Developed Spring	Aug 12, 2024	0.04	0.19	LTD	0.60
Springdale	Springdale Industrial Park	Well	Sep 09, 2024	0.12	0.26	LTD	LTD
St. Alban's	St. Alban's	Well Field	Sep 10, 2024	0.02	0.31	LTD	LTD
St. Alban's	St. Alban's	Well Field	Sep 10, 2024	0.02	0.10	LTD	LTD
St. Alban's	St. Alban's	Well Field	Sep 10, 2024	0.02	0.25	LTD	LTD
St. Alban's	St. Alban's	Well Field	Sep 10, 2024	0.02	0.33	LTD	LTD
St. Patricks	St. Patricks	David Joy Well	Sep 09, 2024	0.07	LTD	LTD	LTD
Swift Current	Swift Current (Hollett's Point)	Drilled	Aug 12, 2024	0.04	LTD	LTD	10.00
Upper Amherst Cove	Upper Amherst Cove	Drilled	Aug 19, 2024	0.12	LTD	LTD	2.60
Wabana	Wabana	Scotia #1	Sep 17, 2024	0.36	LTD	LTD	3.80
Winterland	Winterland	Well Field	Aug 20, 2024	0.14	0.80	LTD	LTD

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		Guidelines for Canadian Drinking Water Quality		7	10	1	

Source water samples are collected directly from the source such as a groundwater well, lake, pond, or stream prior to disinfection or other treatment. The source water quality is analyzed to determine the quality of water that flows into your water treatment and distribution system. The quality of this water is a direct indicator of the health of the ecosystem that makes up the natural drainage basin, well head recharge area or watershed area. Monitoring of source water quality is the most important tool to assess the impact of land use changes on source water quality, the presence of disinfection by-product (DBP) pre-cursors and to ensure the integrity of a public water supply. The values for each parameter are as reported by the lab and verified by the department.

The exceedance report for source water provides a brief discussion and interpretation of health related water quality parameters, if any, that exceed the acceptable limits as set out in the Guidelines for Canadian Drinking Water Quality (GCDWQ). This comparison is only for screening purposes since at present there are no guidelines for untreated source water. The GCDWQ applies to water at the consumers tap. However in the absence of water treatment these guidelines could be applicable to source water quality.

Contaminants are substances that are known or suspected to cause adverse effects on the health of some people when present in concentrations greater than the established Maximum Acceptable Concentrations (MACs) or the Interim Maximum Acceptable Concentrations (IMACs) of the GCDWQ. Each MAC has been derived to safeguard health assuming lifelong consumption of drinking water containing the substance at that concentration. IMACs are reviewed periodically as new information becomes available. Please consult your Medical Officer of Health for additional information on the health aspects on contaminants. Contaminant exceedances are highlighted in **red text** and enclosed in a box.

Contaminant Exceedances

Strontium: The maximum acceptable concentration for strontium is 7.0 mg/L. Strontium may enter drinking water from naturally occurring deposits or as a result of human activity, such as mining or other industries. High levels of this contaminant can cause adverse health effects for some people.

Nitrate: The maximum acceptable concentration for nitrate is 10 mg/L as nitrate-nitrogen. Nitrate is a naturally occurring ion that is widespread in the environment. High levels of this contaminant can cause adverse health effects for some people.

Nitrite: The maximum acceptable concentration for nitrite is 1 mg/L as nitrite-nitrogen. Nitrite is a naturally occurring ion that is widespread in the environment. High levels of this contaminant can cause adverse health effects for some people.

LTD - Less Than Detection Limit - The detection limit is the lowest concentration of a substance that can be determined using a particular test method and instrument. Detection limits vary from parameter to parameter and change from time to time due to improvements in analytical procedures and equipment.

mg/L = milligrams per litre or parts per million TOC = total organic carbon