

Source Water Quality for Public Water Supplies in Newfoundland and Labrador

Physical Parameters and Major Ions

Serviced Area(s)	Source Name	Sample Date	Alkalinity	Colour	Conductivity	Hardness	pH	TDS	TSS	Turbidity	Boron	Bromide	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulphate		
			mg/L	TCU	µS/cm	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
			Units			15	6.5 - 8.5	500	1.0	5.0	250	1.5	200	500						
			Guidelines for Canadian Drinking Water Quality Aesthetic (A) or Contaminant (C) Parameter			A	A	A	C	C	A	C	A	A						
Beaches																				
Beaches	Grassey Pond Brook	Jun 08, 2017	9.40	<u>92</u>	27.0	10.00	<u>6.42</u>	18		0.39	LTD	LTD	3.20	3	LTD	0.660	2	LTD		
Beachside																				
Beachside	Long Pond	Jun 21, 2017	16.00	<u>45</u>	73.0	18.00	7.14	40		0.25	LTD	LTD	5.80	13	LTD	0.120	7	LTD		
Bishop's Falls																				
Bishop's Falls	Northern Arm Lake	Jun 08, 2017	LTD	<u>45</u>	13.0	4.10	6.52	6		0.40	LTD	LTD	1.20	2	LTD	LTD	1	LTD		
Bonavista																				
Bonavista	Long Pond	Jun 13, 2017	LTD	<u>28</u>	46.0	4.50	<u>6.26</u>	25		0.43	LTD	LTD	0.82	12	LTD	0.230	7	2		
Botwood																				
Botwood	Northern Arm Lake	Jun 08, 2017	LTD	<u>45</u>	13.0	4.10	6.52	6		0.40	LTD	LTD	1.20	2	LTD	LTD	1	LTD		
Brighton																				
Brighton	Hynes Cove Pond	Jun 02, 2017	14.00	<u>78</u>	43.0	14.00	6.98	27		1.40	LTD	LTD	4.20	6	LTD	0.120	4	LTD		
Bryant's Cove																				
Bryant's Cove (Backup Supply)	Kelly's Pond (Spider's Pond)	Jun 16, 2017	LTD	<u>19</u>	26.0	4.00	<u>6.39</u>	14		0.50	LTD	LTD	0.85	7	LTD	0.190	4	LTD		
Buchans																				
Buchans	Buchans Lake aka Sandy Lake	Jun 07, 2017	LTD	<u>48</u>	13.0	4.00	6.64	7		0.61	LTD	LTD	1.20	2	LTD	LTD	1	LTD		
Buchans - PWDU	Buchans Lake aka Sandy Lake	Jun 07, 2017	LTD	<u>48</u>	13.0	4.00	6.64	7		0.61	LTD	LTD	1.20	2	LTD	LTD	1	LTD		
Burgoyne's Cove																				
Burgoyne's Cove	Lower Rocky Pond	Jun 13, 2017	7.50	7	30.0	7.30	6.86	17		0.61	LTD	LTD	2.00	5	LTD	0.220	3	LTD		
Cape Freels North																				
Cape Freels North	Long Pond	May 30, 2017	LTD	<u>190</u>	59.0	4.70	<u>6.02</u>	29		1.30	LTD	LTD	0.65	16	LTD	0.380	9	LTD		
Castor River South																				
Castor River South	Unnamed	Jun 30, 2017	180.00	13	340.0	170.00	7.89	190		0.28	LTD	LTD	44.00	12	LTD	0.790	9	LTD		
Centreville-Wareham-Trinity																				
Centreville-Wareham	Northwest Pond	May 31, 2017	LTD	<u>44</u>	21.0	4.50	<u>6.36</u>	11		0.30	LTD	LTD	1.10	4	LTD	0.140	3	LTD		

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			mg/L	TCU	µS/cm	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Guidelines for Canadian Drinking Water Quality				15			6.5 - 8.5	500		1.0	5.0			250	1.5		200	500
Aesthetic (A) or Contaminant (C) Parameter				A			A	A		C	C			A	C		A	A
Chanceport																		
Chanceport	Bridger's Cove Pond	Jun 14, 2017	15.00	<u>130</u>	91.0	19.00	7.22	49		0.54	LTD	LTD	5.00	19	LTD	0.330	13	LTD
Clarenville																		
Clarenville, Shoal Harbour	Shoal Harbour River	Jun 13, 2017	6.40	<u>46</u>	43.0	7.50	6.59	24		0.30	LTD	LTD	2.20	9	LTD	0.200	6	LTD
Clarke's Beach																		
Clarke's Beach	Clarke's Pond	Jun 16, 2017	5.50	12	33.0	6.10	6.64	20		0.34	LTD	LTD	1.40	8	LTD	0.270	4	LTD
Comfort Cove-Newstead																		
Comfort Cove-Newstead	Steady Cove Pond	Jun 13, 2017	13.00	<u>35</u>	55.0	14.00	7.18	31		0.45	LTD	LTD	3.40	10	LTD	0.470	6	LTD
Deer Lake																		
Deer Lake (+Reidville)	Humber Canal, Grand Lake	May 02, 2017	LTD	LTD	LTD	LTD	LTD	LTD		LTD	LTD	LTD	LTD	LTD	LTD	LTD	LTD	LTD
Deer Lake (+Reidville)	Humber Canal, Grand Lake	Jun 12, 2017	11.00	<u>21</u>	33.0	12.00	7.06	21		0.29	LTD	LTD	3.70	3	LTD	0.240	2	LTD
Dildo																		
Dildo, Broad Cove (+South Dildo)	Broad Cove Pond	Jun 08, 2017	LTD	<u>26</u>	31.0	4.90	<u>6.27</u>	15		0.32	LTD	LTD	0.95	7	LTD	0.180	4	LTD
Embree																		
Embree (+Little Burnt Bay)	Troke's Cove Pond	Jun 12, 2017	10.00	<u>32</u>	57.0	11.00	6.79	33		0.69	LTD	LTD	3.10	13	LTD	0.250	7	LTD
Fairbanks-Hillgrade																		
Fairbanks-Hillgrade	Saltine's Pond	Jun 14, 2017	14.00	<u>54</u>	67.0	16.00	7.06	37		0.64	LTD	LTD	4.30	12	LTD	0.280	8	LTD
Fermeuse																		
Fermeuse, Kingman's	Merrymeeting Pond, Bear Cove Pond (2 intakes)	Jun 08, 2017	LTD	<u>28</u>	35.0	3.80	<u>6.45</u>	16		0.57	LTD	LTD	0.51	9	LTD	0.220	5	LTD
Ferryland																		
Ferryland	Deep Cove Pond	Jun 08, 2017	LTD	<u>49</u>	46.0	6.80	<u>6.37</u>	22		0.44	LTD	LTD	1.50	11	LTD	0.350	6	LTD
Fleur de Lys																		
Fleur De Lys	First Pond, Narrow Pond	Jun 20, 2017	7.40	<u>110</u>	44.0	9.70	<u>6.35</u>	24		3.00	LTD	LTD	2.60	8	LTD	0.530	5	LTD
Flower's Cove																		
Flower's Cove (+Nameless Cove)	French Island Pond	Jun 07, 2017	76.00	<u>28</u>	160.0	73.00	7.82	85		0.40	LTD	LTD	15.00	10	LTD	0.360	5	LTD

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			Units	mg/L	TCU	µS/cm	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Guidelines for Canadian Drinking Water Quality				15	6.5 - 8.5	500		1.0	5.0				250	1.5		200		500
Aesthetic (A) or Contaminant (C) Parameter				A	A		A	A		C	C		A	C		A		A
Fox Roost-Margaree																		
Fox Roost-Margaree	Drilled Well and Margaree Pond	May 31, 2017	LTD	<u>97</u>	41.0	4.40	<u>5.90</u>	18		0.88	LTD	LTD	0.69	10	LTD	0.340	6	LTD
Fox Roost-Margaree - PWDU	Drilled Well and Margaree Pond	May 31, 2017	LTD	<u>97</u>	41.0	4.40	<u>5.90</u>	18		0.88	LTD	LTD	0.69	10	LTD	0.340	6	LTD
Gambo																		
Gambo	Dark Cove Pond	May 31, 2017		<u>21</u>	81.0	8.30	<u>6.49</u>	41		0.46	LTD	LTD	2.70	21	LTD	0.160	12	LTD
Garden Cove																		
Garden Cove	Arch Cove Pond	Jun 14, 2017	LTD	<u>60</u>	22.0	4.40	<u>6.39</u>	11		0.77	LTD	LTD	1.10	5	LTD	0.160	3	LTD
Gaskiers																		
Gaskiers-Point La Haye	Big Hare Hill Pond	Jun 20, 2017	12.00	13	100.0	18.00	6.86	53		0.31	LTD	LTD	2.70	24	LTD	0.710	12	4
Georgetown																		
Georgetown	Third Pond	Jun 13, 2017	LTD	10	64.0	7.70	<u>6.10</u>	32		0.37	LTD	LTD	1.70	16	LTD	0.430	9	2
Gillams																		
Gillams	Meaters Pond	Jun 27, 2017	14.00	13	58.0	18.00	7.22	29		0.34	LTD	LTD	5.20	8	LTD	0.260	5	LTD
Glovertown																		
Glovertown	Northwest Pond	May 16, 2017	LTD	<u>67</u>	23.0	5.10	<u>6.35</u>	13		0.28	LTD	LTD	1.40	4	LTD	0.190	3	LTD
Goose Cove East																		
Goose Cove East	Jack's Pond	Jun 06, 2017	15.00	<u>58</u>	54.0	15.00	7.20	30		0.34	LTD	LTD	4.70	9	LTD	0.170	5	LTD
Grand Falls-Windsor																		
Grand Falls-Windsor (+Bishop's Falls, +Wooddale, +Botwood, +Peterview)	Northern Arm Lake	Jun 08, 2017	LTD	<u>45</u>	13.0	4.10	6.52	6		0.40	LTD	LTD	1.20	2	LTD	LTD	1	LTD
Great Brehat																		
Great Brehat	Little Steady Pond	Jun 06, 2017	5.80	<u>67</u>	39.0	7.40	6.53	20		0.33	LTD	LTD	2.10	8	LTD	0.160	4	LTD
Greenspond																		
Greenspond	Shambler's Cove Pond	May 31, 2017	LTD	<u>94</u>	74.0	5.80	<u>5.35</u>	36		0.42	LTD	LTD	1.30	20	LTD	0.250	12	LTD
Hant's Harbour																		



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			mg/L	TCU	µS/cm	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			Units			15			6.5 - 8.5	500		1.0	5.0		mg/L	250	1.5		200
Guidelines for Canadian Drinking Water Quality				A			A	A		C	C		A	C		A	A		
Aesthetic (A) or Contaminant (C) Parameter																			
Hant's Harbour																			
Hant's Harbour	Eastern Pond (Halfway Brook)	Jun 07, 2017	LTD	<u>23</u>	34.0	4.80	<u>6.30</u>	17		0.29	LTD	LTD	1.00	8	LTD	0.150	5	LTD	
Harbour Main-Chapel's Cove-Lakeview																			
Harbour Main, Chapel's Cove, Lakeview	Maloney's River	Jun 13, 2017	9.40	<u>18</u>	80.0	12.00	<u>6.39</u>	43		0.34	LTD	LTD	3.40	19	LTD	0.330	10	3	
Heart's Content																			
Heart's Content	Southern Cove Pond	Jun 07, 2017	LTD	<u>23</u>	31.0	3.90	<u>5.96</u>	15		0.30	LTD	LTD	0.83	8	LTD	0.160	4	LTD	
Indian Bay																			
Indian Bay	Indian Bay Brook	May 31, 2017	LTD	<u>45</u>	18.0	4.10	<u>6.35</u>	8		0.34	LTD	LTD	0.89	3	LTD	0.140	2	LTD	
King's Point																			
King's Point	Bulley's Pond	Jun 21, 2017	LTD	<u>47</u>	12.0	3.30	6.69	6		0.74	LTD	LTD	1.00	2	LTD	0.170	1	LTD	
Lawn																			
Lawn	Brazil Pond	May 30, 2017	LTD	<u>36</u>	32.0	4.80	<u>6.30</u>	14		0.70	LTD	LTD	1.20	7	LTD	0.190	5	LTD	
Lawn - PWDU	Brazil Pond	May 30, 2017	LTD	<u>36</u>	32.0	4.80	<u>6.30</u>	14		0.70	LTD	LTD	1.20	7	LTD	0.190	5	LTD	
Little Bay																			
Little Bay	First Pond	Jun 21, 2017	27.00	13	63.0	26.00	7.40	37		0.29	LTD	LTD	8.90	3	LTD	0.120	3	LTD	
Little Burnt Bay																			
Little Burnt Bay	Troke's Cove Pond	Jun 12, 2017	10.00	<u>32</u>	57.0	11.00	6.79	33		0.69	LTD	LTD	3.10	13	LTD	0.250	7	LTD	
Little St. Lawrence																			
Little St. Lawrence	Butler's Brook (2 Intakes)	May 30, 2017	6.30	<u>25</u>	43.0	7.30	6.57	25		0.34	LTD	LTD	1.60	9	0.170	0.310	6	LTD	
Loon Bay																			
Loon Bay	Southeast Pond	Jun 13, 2017	8.60	<u>29</u>	27.0	8.40	6.83	15		0.35	LTD	LTD	2.50	3	LTD	0.170	2	LTD	
Lumsden																			
Lumsden	Gull Pond	May 30, 2017	LTD	<u>150</u>	22.0	2.10	<u>5.78</u>	11		0.70	LTD	LTD	0.32	5	LTD	0.140	3	LTD	
Main Brook																			
Main Brook	Joe Burt's Pond	Jun 05, 2017	40.00	<u>33</u>	82.0	39.00	7.50	46		0.97	LTD	LTD	11.00	5	LTD	0.210	2	LTD	

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			mg/L	TCU	µS/cm	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Guidelines for Canadian Drinking Water Quality				15			6.5 - 8.5	500		1.0	5.0			250	1.5		200	500
Aesthetic (A) or Contaminant (C) Parameter				A			A	A		C	C			A	C		A	A
Meadows																		
Meadows, Summerside West	Meaters Pond	Jun 27, 2017	14.00	15	57.0	18.00	7.22	30		0.48	LTD	LTD	5.10	9	LTD	0.270	5	LTD
Middle Arm																		
Middle Arm	Dam Pond Brook	Jun 19, 2017	5.10	<u>69</u>	15.0	4.60	6.56	10		0.31	LTD	LTD	1.40	2	LTD	0.150	2	LTD
Miles Cove																		
Miles Cove	Paddock's Pond	Jun 01, 2017	9.40	<u>54</u>	30.0	10.00	7.15	19		0.39	LTD	LTD	3.20	4	LTD	LTD	3	LTD
Millertown																		
Millertown	Water Pond	Jun 07, 2017	7.50	<u>42</u>	18.0	7.40	6.69	10		0.77	LTD	LTD	2.50	2	LTD	LTD	1	LTD
Morrisville																		
Morrisville	Morrisville Pond	May 31, 2017	12.00	<u>35</u>	48.0	15.00	7.05	26		0.28	LTD	LTD	4.10	7	LTD	0.170	4	LTD
Musgrave Harbour																		
Musgrave Harbour	Rocky Pond	May 30, 2017	LTD	<u>140</u>	23.0	3.50	<u>5.61</u>	12		0.73	LTD	LTD	0.64	5	LTD	0.180	3	LTD
Nameless Cove																		
Nameless Cove / Flower Cove	French Island Pond	Jun 07, 2017	76.00	<u>28</u>	160.0	73.00	7.82	85		0.40	LTD	LTD	15.00	10	LTD	0.360	5	LTD
New Perlican																		
New Perlican	New Perlican River	Jun 07, 2017	LTD	<u>46</u>	30.0	4.70	<u>6.27</u>	15		0.24	LTD	LTD	1.10	7	LTD	0.180	4	LTD
Norman's Cove-Long Cove																		
Norman's Cove-Long Cove	John Newhooks Pond	May 24, 2017	LTD	<u>21</u>	42.0	5.20	<u>6.31</u>	16		0.50	LTD	LTD	1.20	8	LTD	0.130	4	LTD
Northern Arm																		
Northern Arm	Northern Arm Lake	Jun 08, 2017	LTD	<u>45</u>	13.0	4.10	6.52	6		0.40	LTD	LTD	1.20	2	LTD	LTD	1	LTD
Pacquet																		
Pacquet	Big Brook	Jun 23, 2017	LTD	<u>88</u>	15.0	1.80	<u>6.02</u>	7		0.30	LTD	LTD	0.31	3	LTD	0.160	2	LTD
Pacquet - PWDU	Big Brook	Jun 23, 2017	LTD	<u>88</u>	15.0	1.80	<u>6.02</u>	7		0.30	LTD	LTD	0.31	3	LTD	0.160	2	LTD
Pasadena																		
Pasadena	Blue Gulch Pond	Jun 13, 2017	14.00	<u>25</u>	39.0	15.00	7.10	24		0.57	LTD	LTD	4.90	4	LTD	0.230	2	LTD

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			mg/L	TCU	µS/cm	mg/L		mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
			Units			15			6.5 - 8.5	500		1.0	5.0		250	1.5		200	500
			Guidelines for Canadian Drinking Water Quality Aesthetic (A) or Contaminant (C) Parameter			A			A	A		C	C		A	C		A	A
Peterview																			
Peterview	Northern Arm Lake	Jun 08, 2017	LTD	<u>45</u>	13.0	4.10	6.52	6		0.40	LTD	LTD	1.20	2	LTD	LTD	1	LTD	
Petit Forte																			
Petit Forte	Reddy's Pond	May 31, 2017	LTD	<u>44</u>	51.0	6.40	<u>6.05</u>	25		0.30	LTD	LTD	1.10	14	LTD	0.390	7	LTD	
Petty Harbour-Maddox Cove																			
Petty Harbour-Maddox Cove	Western Barrens Pond	Jun 30, 2017	LTD	<u>21</u>	27.0	2.70	6.55	13		0.36	LTD	LTD	0.39	7	LTD	0.250	4	LTD	
Placentia																			
Freshwater, Argentia site	Clarkes Pond	Jun 13, 2017	13.00	<u>25</u>	110.0	21.00	6.79	61		0.40	LTD	LTD	6.20	27	LTD	0.350	14	3	
Pollards Point																			
Pollards Point, Country Cove	Country Cove Pond	Jun 20, 2017	17.00	<u>31</u>	63.0	18.00	7.05	35		0.63	LTD	LTD	6.00	10	LTD	0.300	6	LTD	
Pollards Point East	George Ricks Pond	Jun 20, 2017	5.50	<u>47</u>	20.0	5.70	6.75	12		0.89	LTD	LTD	1.80	3	LTD	0.260	2	LTD	
Pool's Cove																			
Pool's Cove	Widgeon Pond	May 30, 2017	13.00	<u>24</u>	41.0	13.00	7.04	24		0.69	LTD	LTD	3.30	7	LTD	0.240	4	LTD	
Port au Choix																			
Port au Choix	Winterhouse Pond	Jun 29, 2017	110.00	<u>20</u>	260.0	120.00	7.95	140		0.54	LTD	LTD	33.00	21	LTD	0.620	12	LTD	
Port au Choix - PWDU	Winterhouse Pond	Jun 29, 2017	110.00	<u>20</u>	260.0	120.00	7.95	140		0.54	LTD	LTD	33.00	21	LTD	0.620	12	LTD	
Portugal Cove South																			
Portugal Cove South	Wrights Brook	Jun 20, 2017	9.10	15	51.0	9.40	7.23	32		0.20	LTD	LTD	2.10	10	LTD	0.250	6	3	
Pynn's Brook																			
Pynn's Brook	Pynn's Brook	Jun 22, 2017	63.00	<u>20</u>	130.0	60.00	7.79	80		0.22	LTD	LTD	20.00	6	LTD	0.460	4	3	
Ramea																			
Ramea	Northwest Pond	Jun 28, 2017	LTD	<u>57</u>	2,000.0	190.00	<u>5.09</u>	<u>1000</u>		0.60	0.12	LTD	15.00	<u>550</u>	LTD	11.000	<u>310</u>	73	
Ramea - PWDU	Northwest Pond	Jun 28, 2017	LTD	<u>57</u>	2,000.0	190.00	<u>5.09</u>	<u>1000</u>		0.60	0.12	LTD	15.00	<u>550</u>	LTD	11.000	<u>310</u>	73	
Reidville																			

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			mg/L	TCU	µS/cm	mg/L		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
			Units			15			6.5 - 8.5	500		1.0	5.0		250	1.5		200		500
			Guidelines for Canadian Drinking Water Quality Aesthetic (A) or Contaminant (C) Parameter			A			A	A		C	C		A	C		A		A
Reidville																				
Reidville	Humber Canal, Grand Lake	May 02, 2017	LTD	LTD	LTD	LTD	LTD	LTD		LTD	LTD	LTD	LTD	LTD	LTD	LTD	LTD	LTD		
Reidville	Humber Canal, Grand Lake	Jun 12, 2017	11.00	<u>21</u>	33.0	12.00	7.06	21		0.29	LTD	LTD	3.70	3	LTD	0.240	2	LTD		
Sheaves Cove																				
Sheaves Cove	Unnamed Brook	Jun 07, 2017	110.00	11	230.0	110.00	7.75	130		0.24	LTD	LTD	36.00	10	LTD	0.330	6	4		
Sop's Arm																				
Sop's Arm	Little Tickle Pond	Jun 12, 2017	8.80	<u>85</u>	25.0	9.70	6.60	16		0.50	LTD	LTD	2.70	3	LTD	0.230	2	LTD		
South Brook																				
South Brook	Next to Brook	May 31, 2017	5.50	<u>49</u>	18.0	6.30	6.70	13		0.33	LTD	LTD	2.00	2	LTD	LTD	2	LTD		
South Dildo																				
South Dildo	Broad Cove Pond	Jun 08, 2017	LTD	<u>26</u>	31.0	4.90	<u>6.27</u>	15		0.32	LTD	LTD	0.95	7	LTD	0.180	4	LTD		
Spaniard's Bay																				
Spaniard's Bay (+Upper Island Cove, + Bryant's Cove)	Kelly's Pond (Spider's Pond)	Jun 16, 2017	LTD	<u>19</u>	26.0	4.00	<u>6.39</u>	14		0.50	LTD	LTD	0.85	7	LTD	0.190	4	LTD		
St. Judes																				
St. Judes	Uncle Arthur Brook	Jun 22, 2017	47.00	<u>27</u>	120.0	43.00	7.55	73		0.38	LTD	LTD	12.00	5	LTD	0.320	7	11		
St. Judes	Chute Brook	Jun 22, 2017	34.00	<u>23</u>	79.0	31.00	7.50	48		0.19	LTD	LTD	10.00	5	LTD	0.300	4	LTD		
St. Lawrence																				
St. Lawrence	St. Lawrence River	May 30, 2017	LTD	<u>28</u>	28.0	4.70	<u>6.31</u>	14		0.55	LTD	LTD	1.10	6	0.120	0.230	4	LTD		
St. Lawrence - PWDU	St. Lawrence River	May 30, 2017	LTD	<u>28</u>	28.0	4.70	<u>6.31</u>	14		0.55	LTD	LTD	1.10	6	0.120	0.230	4	LTD		
St. Lunaire-Griquet																				
St. Lunaire-Griquet	Joe's Pond	Jun 06, 2017	11.00	<u>88</u>	54.0	14.00	6.88	29		0.72	LTD	LTD	4.00	10	LTD	0.250	5	LTD		
Gunners Cove	Lookout Brook	Jun 06, 2017	11.00	<u>86</u>	58.0	14.00	6.85	30		0.30	LTD	LTD	4.30	10	LTD	0.240	6	LTD		
St. Pauls																				
St. Pauls	Two Mile Pond	Jun 14, 2017	62.00	<u>44</u>	160.0	61.00	7.83	92		0.80	LTD	LTD	20.00	19	LTD	0.860	11	LTD		

Source Water Quality for Public Water Supplies in Newfoundland and Labrador

Physical Parameters and Major Ions

Serviced Area(s)	Source Name	Sample Date	Alkalinity	Colour	Conductivity	Hardness	pH	TDS	TSS	Turbidity	Boron	Bromide	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulphate	
			mg/L	TCU	µS/cm	mg/L		mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
				Guidelines for Canadian Drinking Water Quality															
				Aesthetic (A) or Contaminant (C) Parameter															
Trinity																			
Trinity, T.B.	Indian Pond	Jun 12, 2017	LTD	<u>54</u>	21.0	2.50	<u>6.20</u>	11		0.41	LTD	LTD	0.39	5	LTD	0.150	3	LTD	
Trinity Bay North																			
Little Catalina	Whirl Pond	Jun 12, 2017	LTD	<u>66</u>	25.0	3.00	<u>6.16</u>	11		0.81	LTD	LTD	0.59	6	LTD	0.180	4	LTD	
Melrose	Whirl Pond	Jun 12, 2017	LTD	<u>66</u>	25.0	3.00	<u>6.16</u>	11		0.81	LTD	LTD	0.59	6	LTD	0.180	4	LTD	
Port Union, Catalina (+Little Catalina)	Whirl Pond	Jun 12, 2017	LTD	<u>66</u>	25.0	3.00	<u>6.16</u>	11		0.81	LTD	LTD	0.59	6	LTD	0.180	4	LTD	
Upper Island Cove																			
Upper Island Cove	Kelly's Pond (Spider's Pond)	Jun 16, 2017	LTD	<u>19</u>	26.0	4.00	<u>6.39</u>	14		0.50	LTD	LTD	0.85	7	LTD	0.190	4	LTD	
Whitbourne																			
Whitbourne	Hodges River	Jun 08, 2017	7.60	<u>27</u>	73.0	8.80	6.86	37		0.34	LTD	LTD	2.10	18	LTD	0.340	10	LTD	
Winterton																			
Winterton	Western Pond	Jun 07, 2017	LTD	<u>29</u>	33.0	5.30	<u>6.17</u>	16		0.30	LTD	LTD	1.20	8	LTD	0.170	4	LTD	
Wooddale																			
Wooddale	Northern Arm Lake	Jun 08, 2017	LTD	<u>45</u>	13.0	4.10	6.52	6		0.40	LTD	LTD	1.20	2	LTD	LTD	1	LTD	
Woody Point																			
Woody Point	Winterhouse Brook	Jun 06, 2017	29.00	14	68.0	28.00	7.39	41		0.22	LTD	LTD	1.80	6	LTD	0.160	3	LTD	



Source Water Quality for Public Water Supplies in Newfoundland and Labrador

Physical Parameters and Major Ions

Serviced Area(s)	Source Name	Sample Date	Alkalinity	Colour	Conductivity	Hardness	pH	TDS	TSS	Turbidity	Boron	Bromide	Calcium	Chloride	Fluoride	Potassium	Sodium	Sulphate
		Units	mg/L	TCU	µS/cm	mg/L		mg/L	mg/L	NTU	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	Guidelines for Canadian Drinking Water Quality			15			6.5 - 8.5	500		1.0	5.0			250	1.5		200	500
	Aesthetic (A) or Contaminant (C) Parameter		A				A	A		C	C			A	C		A	A

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.

Quality Assurance / Quality Control (QA/QC) - The department is striving to improve the quality of the data using standard QA/QC protocols. This is an evolving process which may result in minor changes to the reported data.

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.

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

Aesthetic (A) Parameters - Aesthetic parameters reflect substances or characteristics of drinking water that can affect its acceptance by consumers but which usually do not pose any health effects. Aesthetic exceedances are highlighted in **blue text** and underlined.

Contaminants (C) - 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.

The reported information is for supplies selected for sampling and may not include all public water supplies.

Contaminant Exceedances **X.XX**

Aesthetic Exceedances **X.XX**

Turbidity - The maximum acceptable concentration for turbidity is 1 NTU. Turbidity refers to the water's ability to transmit light or the cloudiness of the water. Turbidity in tap water can be the result of turbid raw water and influences within the distribution system. Turbidity is usually the result of fine organic and inorganic particles which do not settle out. Increased turbidity of drinking water results in it being less aesthetically pleasing, and may interfere with the disinfection process.

Boron - The interim maximum acceptable concentration for boron in drinking water is 5.0 mg/L. Boron is widespread in the environment, occurring naturally in over 80 minerals and in the earth's crust. Levels in well water have been reported to be more variable and often higher than those in surface waters, most likely due to erosion from natural resources. High levels of this contaminant can cause adverse health effects for some people

Fluoride - The maximum acceptable concentration for fluoride in drinking water is 1.5mg/L. The fluoride concentration in natural water varies widely as it depends on such factors as the source of the water and the geological formations present. Trace amounts of fluoride may be essential for human nutrition and the presence of small quantities leads to a reduction of dental caries. High levels of this contaminant can cause adverse health effects for some people.

Colour - An aesthetic objective of 15 true colour units (TCU) has been established for colour in drinking water. Colour in drinking water may be due to the presence of coloured organic substances or metals such as iron, manganese and copper. Highly coloured industrial wastes also contribute to colour. The presence of colour is not directly linked to health but it can be aesthetically displeasing.

pH -The acceptable range for drinking water pH is 6.5 - 8.5. The control of pH is primarily based on minimizing corrosion and encrustation in the distribution system. Tap water with low pH may accelerate the corrosion process in the distribution system, and contribute to increased levels of copper, lead and possibly other metals. Incrustation and scaling problems may become more frequent above pH 8.5

TDS - The aesthetic objective for TDS in drinking water is 500 mg/L. The term "total dissolved solids"(TDS) refers mainly to the inorganic substances that are dissolved in water. At low levels TDS contributes to the palatability of water. At high levels it may cause excessive hardness, taste, mineral deposition and corrosion.

Chloride - The aesthetic objective for chloride in drinking water is 250 mg/L. Chloride can be in water from a variety of sources, including the dissolution of salt deposits and salting of roads for ice control. No evidence has been found suggesting that ingestion of chloride is harmful to humans. However, high levels of chloride in water can impart undesirable tastes to water and beverages prepared from water.

Sodium - The aesthetic objective for sodium in drinking water is 200 mg/L. Since the body has very effective means to control levels of sodium, sodium is not an acutely toxic element in the normal range of environmental or dietary concentrations. At extremely high dosages it has adverse health effects. Sodium levels may be of interest to authorities who wish to prescribe sodium restricted diets for their patients..

Sulphate - The aesthetic objective for sulphate in drinking water is 500 mg/L. Sulphates, which occur naturally in numerous minerals, are used in the mining and pulping industries and in wood preservation. Large quantities of sulphate can result in catharsis and gastrointestinal irritation. The presence of sulphate above the aesthetic limit can result in noticeable taste. Some sensitive individuals may find the taste objectionable at lower sulphate concentrations

mg/L = milligrams per litre or parts per million µS/cm = micro Siemens per centimeter NTU = nephelometric turbidity units TDS = total dissolved solids TSS = total suspended solids TCU = true colour units Nitrate(ite) = Nitrate + Nitrite DOC = dissolved organic carbon

Notes:
Guidelines for Canadian Drinking Water Quality have not been developed for all the parameters listed in this report.
pH has no units