

Date	Sample Location (Address)	BC Centre for Disease Control		RDN In-House Laboratory and Spectrophotometer									Bureau Veritas Lab		
		E. coli *	Total Coliform *	E.coli *	Total Coliform *	Temp. (°C)	pH	Free Chlorine Residual (mg/L)	Total Dissolved Solids (mg/L)	Salinity (%)	Conductivity (µS/cm)	Total Iron (mg/L)	Manganese (mg/L)	Total Iron (mg/L)	Manganese (mg/L)
08-Dec-21	1381 Gilley			0	0	10	6.82	0.07	68.3	0.07	144.7	Fe and Mn are no longer tested in-house. Please see test results from Bureau Veritas -->	0.0078	0.0015	
08-Dec-21	1228 Sunrise			0	0	10		0.09			0.11		0.0011		
14-Dec-21	1228 Sunrise			0	0	9	7.27	0.15	67.2	0.07	146.2				
14-Dec-21	1381 Gilley			0	0	9		0.09							
20-Dec-21	1228 Sunrise			0	0	8		0.09							
20-Dec-21	1381 Gilley			0	0	9	7.25	0.05	85.5	0.09	180.2				
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC	0.3	0.02 AO 0.12 MAC

Legend:

* Coliforms are measured in colony forming units (CFU) per 100 millilitres of water (CFU/100mL)

Orange font indicates non-compliance with the Aesthetic Objective (AO) in the Canadian Drinking Water Guidelines (CDWG)

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Green font indicates a value flagged for operational considerations.

Comments:

Notes below about Manganese (2019) from: <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table.html>

Type	Parameter (published, reaffirmed)	MAC (mg/L)	Other value (mg/L)	Common sources of parameter in water	Health considerations	Comments
I = Inorganic chemical parameter	Manganese (2019)	0.12	AO: <0.02	Dissolution of naturally-occurring minerals commonly found in soil and rock. Other sources include industrial discharge, mining activities and leaching from landfills.	Health Basis of MAC: Effects on neurological development and behaviour; deficits in memory, attention, and motor skills. Other: Formula-fed infants (where water containing manganese at levels above the MAC is used to prepare formula) may be especially at risk.	AO based on minimizing the occurrence of discoloured water, consumer complaints and staining of laundry.

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01-Nov-21	1228 Sunrise	0	0	0	0	12	7.86	0.22	172.8	0.17	360.0	Fe and Mn are no longer tested in-house. Please see test results from Bureau Veritas -->			
08-Nov-21	1381 Gilley	0	0	0	0	12	6.99	0.05	90.1	0.09	189.4				
15-Nov-21	1228 Sunrise			0	0	11	7.16	0.07	89.7	0.09	188.8		0.0099	0.0015	
22-Nov-21	1381 Gilley			0	0	11	7.27	0.05	93.0	0.09	195.6		0.0128	0.0012	
22-Nov-21	1228 Sunrise			0	0	11	7.27	0.11	94.0	0.09	194.7				
29-Nov-21	1381 Gilley			0	0	11	6.99	0.05	91.7	0.09	193.1				
29-Nov-21	1228 Sunrise			0	0	10	7.09	0.11	92.3	0.09	196.0				
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC	0.3	0.02 AO 0.12 MAC

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		E. coli *	Total Coliform *	E.coli *	Total Coliform *	Temp. (°C)	pH	Free Chlorine Residual (mg/L)	Total Dissolved Solids (mg/L)	Salinity (%)	Conductivity (µS/cm)	Total Iron (mg/L)	Manganese (mg/L)	Total Iron (mg/L)	Manganese (mg/L)
05-Oct-21	1228 Sunrise			0	0	13	7.87	0.40	169.3	0.17	353.0	Fe and Mn are no longer tested in-house. Please see test results from Bureau Veritas -->			
13-Oct-21	1228 Sunrise			0	0	15	7.52	0.27	171.9	0.17	358.0		0.115	0.125	
18-Oct-21	1381 Gilley	0	0	0	0	14	7.77	0.21	125.8	0.13	263.0		0.0889	0.0987	
25-Oct-21	1228 Sunrise	0	0	0	0	14	7.41	0.29	173.1	0.17	360.0				
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC	0.3	0.02 AO 0.12 MAC

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07-Sep-21	1228 Sunrise	0	0	0	0	17	7.99	0.40	171.8	0.17	360.0	Fe and Mn are no longer tested in-house. Please see test results from Bureau Veritas -->			
13-Sep-21	1381 Gilley	0	0	0	0	17	8.02	0.32	176.6	0.16	352.0				
20-Sep-21	1228 Sunrise			0	0	13	7.87	0.28	173.3	0.17	361.0		0.107	0.131	
27-Sep-21	1381 Gilley			0	0	16	8.00	0.49	176.7	0.18	367.0		0.0892	0.114	
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC	0.3	0.02 AO 0.12 MAC

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03-Aug-21	1228 Sunrise	0	0	0	0		7.91	0.33	167.6	0.17	349.0	Fe and Mn are no longer tested in-house. Please see test results from Bureau Veritas -->			
09-Aug-21	1381 Gilley	0	0	0	0	18	7.84	0.39	169.0	0.17	352.0		0.0813	0.101	
16-Aug-21	1228 Sunrise			0	0	14	7.86	0.49	168.2	0.17	348.0		0.089	0.109	
23-Aug-21	1381 Gilley			0	0	18	8.26	0.50	168.7	0.17	351.0				
30-Aug-21	1381 Gilley			0	0	18	8.24	0.41	174.7	0.17	363.0				
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC	0.3	0.02 AO 0.12 MAC

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06-Jul-21	1228 Sunrise	0	0	0	0	14	8.08	0.56	165.8	0.15	341.0	Fe and Mn are no longer tested in-house. Please see test results from Bureau Veritas ->			
12-Jul-21	1381 Gilley	0	0	0	0	17	8.08	0.50	171.1	0.17	356.0				
19-Jul-21	1228 Sunrise			0	0	13	8.11	0.47	167.9	0.17	350.0		0.0991	0.123	
27-Jul-21	1381 Gilley			0	0	18	8.20	0.46	168.7	0.17	351.0		0.0892	0.109	
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC	0.3	0.02 AO 0.12 MAC

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01-Jun-21	1228 Sunrise	0	0	0	0	12	7.23	0.65	168.0	0.17	349.0	Fe and Mn are no longer tested in-house. Please see test results from Bureau Veritas ->			
07-Jun-21	1381 Gilley	0	0	0	0	14	7.57	0.54	167.4	0.17	349.0				
14-Jun-21	1228 Sunrise			0	0	12	7.07	0.47	166.6	0.17	346.0		0.0808	0.126	
21-Jun-21	1381 Gilley			0	0	15	7.19	0.42	168.0	0.17	350.0		0.072	0.115	
29-Jun-21	1381 Gilley	0	0	0	0	18	7.07	0.70	165.4	0.17	345.0				
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC	0.3	0.02 AO 0.12 MAC

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03-May-21	1228 Sunrise	0	0	0	0	11	6.98	0.65	166.0	0.17	346.0	Fe and Mn are no longer tested in-house. Please see test results from Bureau Veritas ->	0.091	0.124	
10-May-21	1381 Gilley	0	0	0	0	12	6.99	0.53	164.4	0.16	342.0		0.0825	0.11	
17-May-21	1228 Sunrise			0	0	12	6.99	0.48	165.3	0.16	343.0				
25-May-21	1381 Gilley			0	0	13	6.97	0.47	166.9	0.15	341.0				
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC	0.3	0.02 AO 0.12 MAC

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06-Apr-21	1228 Sunrise			0	0	8	7.71	0.34	170.3	0.17	355.0	Fe and Mn are no longer tested in-house. Please see test results from Bureau Veritas ->			
12-Apr-21	1381 Gilley	0	0	0	0	9	7.21	0.25	167.0	0.17	348.0		0.0925	0.101	
19-Apr-21	1228 Sunrise	0	0	0	0	11	6.99	0.52	164.2	0.16	342.0		0.0963	0.116	
26-Apr-21	1381 Gilley			0	0	11	7.29	0.74	166.8	0.17	347.0				
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC	0.3	0.02 AO 0.12 MAC

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03-Mar-21	1228 Sunrise			0	0	9	7.33	1.10	168.9	0.17	351.0	Fe and Mn are no longer tested in-house. Please see test results from Bureau Veritas ->			
08-Mar-21	1381 Gilley	0	0	0	0	8	7.59	0.31	169.6	0.17	353.0				
15-Mar-21	1228 Sunrise	0	0	0	0	9	7.11	0.52	167.9	0.17	350.0		0.111	0.129	
22-Mar-21	1381 Gilley			0	0	8	7.30	0.20	180.2	0.15	359.0		0.0827	0.0933	
28-Mar-21	1381 Gilley			0	0	7	7.10	0.28	170.7	0.17	355.0				
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC	0.3	0.02 AO 0.12 MAC

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		E. coli *	Total Coliform *	E.coli *	Total Coliform *	Temp. (°C)	pH	Free Chlorine Residual (mg/L)	Total Dissolved Solids (mg/L)	Salinity (%)	Conductivity (µS/cm)	Total Iron (mg/L)	Manganese (mg/L)	Total Iron (mg/L)	Manganese (mg/L)
03-Feb-21	1228 Sunrise	0	0	0	0	9	7.53	0.49	167.5	0.17	349.0	Fe and Mn are no longer tested in-house. Please see test results from Bureau Veritas ->			
08-Feb-21	1381 Gilley	0	0	0	0	8	7.42	0.40	168.6	0.17	351.0				
17-Feb-21	1228 Sunrise			0	0	7	7.49	0.71	164.9	0.16	344.0		0.116	0.0983	
22-Feb-21	1381 Gilley			0	0	8	7.65	0.62	167.8	0.17	350.0		0.0886	0.0758	
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC	0.3	0.02 AO 0.12 MAC

Legend:

* Coliforms are measured in colony forming units (CFU) per 100 millilitres of water (CFU/100mL)

Orange font indicates non-compliance with the Aesthetic Objective (AO) in the Canadian Drinking Water Guidelines (CDWG)

Red font indicates non-compliance with the Maximum Acceptable Concentration (MAC) in the CDWG

Comments:

Notes below about Manganese (2019) from: <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table.html>

Type	Parameter (published, reaffirmed)	MAC (mg/L)	Other value (mg/L)	Common sources of parameter in water	Health considerations	Comments
I = Inorganic chemical parameter	Manganese (2019)	0.12	AO: <0.02	Dissolution of naturally-occurring minerals commonly found in soil and rock. Other sources include industrial discharge, mining activities and leaching from landfills.	Health Basis of MAC: Effects on neurological development and behaviour; deficits in memory, attention, and motor skills. Other: Formula-fed infants (where water containing manganese at levels above the MAC is used to prepare formula) may be especially at risk.	AO based on minimizing the occurrence of discoloured water, consumer complaints and staining of laundry.



Regional District of Nanaimo - Water Services Department

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Date	Sample Location (Address)	BC Centre for Disease Control		RDN In-House Laboratory & Spectrophotometer								Bureau Veritas Lab			
		E. coli *	Total Coliform *	E.coli *	Total Coliform *	Temp. (°C)	pH	Free Chlorine Residual (mg/L)	Total Dissolved Solids (mg/L)	Salinity (%)	Conductivity (µS/cm)	Total Iron (mg/L)	Manganese (mg/L)	Total Iron (mg/L)	Manganese (mg/L)
04-Jan-21	1228 Sunrise	0	0	0	0	9.5	7.22	0.47	163.1	0.16	339.0	Fe and Mn are no longer tested in-house. Please see test results from Bureau Veritas ->			
11-Jan-21	1381 Gilley	0	0	0	0	9	7.58	0.35	168.1	0.17	352.0				
18-Jan-21	1228 Sunrise			0	0	9	7.55	0.73	168.7	0.17	351.0		0.106	0.108	
25-Jan-21	1381 Gilley			0	0	8	7.56	0.57	168.2	0.17	350.0		0.0863	0.108	
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3	0.02 AO 0.12 MAC	0.3	0.02 AO 0.12 MAC

Legend:

* Coliforms are measured in colony forming units (CFU) per 100 millilitres of water (CFU/100mL)

Orange font indicates non-compliance with the Aesthetic Objective (AO) in the Canadian Drinking Water Guidelines (CDWG)

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Comments:

Notes below about Manganese (2019) from: <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table.html>

Type	Parameter (published, reaffirmed)	MAC (mg/L)	Other value (mg/L)	Common sources of parameter in water	Health considerations	Comments
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