Regional District of Nanaimo - Water Services Department

French Creek Water Analysis - 2023 Monthly Report

		BC Centre for Disease Control		RDN In-House Laboratory and Spectrophotometer								
Date	Sample Location (Address)	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)	Turbidity (NTU)
5-Dec-23	1228 Sunrise	0	0	0	0	10	6.89	0.40	53.6	0.05	113.6	0.20
12-Dec-23	1381 Gilley	0	0	0	0	10	7.34	0.35	56.7	0.06	56.6	0.13
19-Dec-23	1228 Sunrise			0	0	10	7.15	0.38	55.2	0.06	56.6	0.18
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1

Legend:

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

Green font indicates a value flagged for operational consideration

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 pH (2015) from https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table.html#_ftn1

Type	Parameter (published, reaffirmed)	MAC (mg/L)	Other value (mg/L)	Common sources of parameter in water	Health considerations	Comments
Treatment-related	pH (2015)	None	7.0-10.5	Not applicable	Not applicable	The control of pH is important to maximize treatment effectiveness, control corrosion and reduce leaching from distribution system and plumbing components.

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6-Nov-23	1228 Sunrise	0	0	0	0		6.80	0.07	53.8	0.05	114.1	0.10
20-Nov-23	1381 Gilley	0	0	0	0	11	7.08	0.05	67.7	0.07	142.6	0.14
28-Nov-23	1228 Sunrise			0	0	10	6.69	0.39	52.5	0.05	111.3	0.16
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1

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3-Oct-23	1228 Sunrise	0	0	0	0	17	7.27	0.45	67.9	0.07	143.5	0.30
10-Oct-23	1381 Gilley	0	0	0	0	16	6.74	0.58	68.2	0.07	143.9	0.18
18-Oct-23	1228 Sunrise			0	0	14	7.15	0.45	60.2	0.06	127.2	0.12
23-Oct-23	1381 Gilley			0	0	14	6.79	0.04	76.1	0.08	160.5	0.14
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1

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Date	Sample Location (Address)	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)	Turbidity (NTU)
6-Sep-23	1228 Sunrise	0	0	0	0	17	6.99	0.49	72.0	0.07	152.1	0.28
13-Sep-23	1381 Gilley	0	0	0	0	18	7.46	0.32	77.4	0.08	163.2	0.17
20-Sep-23	1228 Sunrise			0	0	18	7.30	0.36	76.2	0.08	160.7	0.18
27-Sep-23	1381 Gilley			0	0	17	6.99	0.25	70.7	0.07	148.6	0.13
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1

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Date	Sample Location (Address)	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)	Turbidity (NTU)
1-Aug-23	1228 Sunrise	0	0	0	0	18	7.13	0.45	n/a	n/a	n/a	0.18
8-Aug-23	1381 Gilley	0	0	0	0	18	7.46	0.46	n/a	n/a	n/a	0.13
16-Aug-23	1228 Sunrire			0	0	18	6.98	0.39	n/a	n/a	n/a	0.22
22-Aug-23	1381 Gilley			0	0	19	7.09	0.36	87.9	0.01	185.0	0.18
30-Aug-23	1228 Sunrise			0	0	17	7.30	0.45	77.2	0.08	162.9	0.14
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1

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Date	Sample Location (Address)	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)	Turbidity (NTU)
4-Jul-23	1228 Sunrise	0	0	0	0	17	7.10	0.51	73.5	0.07	155.0	0.15
12-Jul-23	1381 Gilley	0	0	0	0	18	7.35	0.41	79.1	0.08	166.8	0.21
18-Jul-23	1228 Sunrise			0	0	17	7.07	0.47	75.2	0.07	159.0	0.18
26-Jul-23	1381 Gilley			0	0	19	7.45	0.33				
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1

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Date	Sample Location (Address)	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)	Turbidity (NTU)
6-Jun-23	1228 Sunrise Drive	0	0	0	0	16	6.50	0.36	63.2	0.06	133.6	0.16
13-Jun-23	1381 Gilley	0	0	0	0	16	6.89	0.44	71.0	0.07	150.0	0.19
20-Jun-23	1228 Sunrise Drive			0	0	15	6.86	0.60	66.4	0.07	140.7	0.18
27-Jun-23	1381 Gilley			0	0	17	6.96	0.61	75.2	0.07	159.0	0.11
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1

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Date	Sample Location (Address)	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)
3-May-23	1228 Sunrise	0	0	0	0	13	7.01	0.46	44.2	0.04	93.9
9-May-23	1381 Gilley	0	0	0	0	12	7.08	0.49	54.7	0.05	115.9
15-May-23	1228 Sunrise			0	0	15	7.03	0.51	46.6	0.05	98.6
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a

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Date	Sample Location (Address)	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)
3-Apr-23	1228 Sunrise	0	0	0	0	8	6.90	0.49	45.9	0.05	97.4
12-Apr-23	1381 Gilley	0	0	0	0	8	7.36	0.35	56.1	0.06	118.8
19-Apr-23	1228 Sunrise			0	0	10	7.36	0.47	45.4	0.04	96.3
26-Apr-23	1381 Gilley			0	0	9	7.21	0.47	55.4	0.05	117.2
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a

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7-Mar-23	1228 Sunrise	0	0	0	0	8	6.97	0.52	46.4	0.05	98.3
13-Mar-23	1381 Gilley	0	0	0	0	7	7.19	0.38	53.7	0.05	113.7
20-Mar-23	1228 Sunrise			0	0	7	6.95	0.52	45.8	0.05	97.2
27-Mar-23	1381 Gilley			0	0	8	7.10	0.45	56.0	0.06	118.7
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a

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8-Feb-22	1228 Sunrise	0	0	0	0	8	7.22	0.5	47.8	0.05	101.3
13-Feb-23	1381 Gilley	0	0	0	0	8	7.05	0.48	54.5	0.05	115.6
21-Feb-23	1228 Sunrise			0	0	8	7.03	0.54	47.3	0.05	100.5
28-Feb-23	1381 Gilley			0	0	8	7.02	0.40	54.5	0.05	115.7
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a

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4-Jan-23	1228 Sunrise	0	0	0	0	8	7.00	0.53	49.5	0.05	105.0
10-Jan-23	1381 Gilley	0	0	0	0	8	6.95	0.45	53.6	0.06	119.2
18-Jan-23	1228 Sunrise			0	0	9	6.95	0.47	56.5	0.06	120.3
25-Jan-23	1381 Gilley			0	0	8	6.88	0.43	56.1	0.06	118.8
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a

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