Regional District of Nanaimo - Water Services Department

French Creek Water Analysis - 2022 Monthly Report

		BC Centre for Disease Control		RDN In-House Laboratory and Spectrophotometer								Bureau Veritas Lab	
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)	Total Iron (mg/L)	Manganese (mg/L)
5-Dec-22	1381 Gilley	0	0	0	0	8	7.00	0.41	66.1	0.06	131.1		
12-Dec-22	1228 Sunrise	0	0	0	0	9	7.05	0.35	51.3	0.05	108.8		
21-Dec-22	1381 Gilley			0	0	7	7.07	0.32	58.7	0.05	100.9		
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

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:

Regional District of Nanaimo - Water Services Department

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3-Nov-22	1228 Sunrise	0	0	0	0	14	7.10	0.41	65.8	0.06	139.1		
7-Nov-22	1381 Gilley	0	0	0	0	13	6.99	0.02	77.7	0.08	163.7		
14-Nov-22	1228 Sunrise			0	0	12	7.19	0.41	54.5	0.05	115.4		
22-Nov-22	1381 Gilley			0	0	10	7.00	0.36	53.0	0.05	112.2		
28-Nov-22	1381 Gilley			0	0	11	6.89	0.37	63.7	0.06	134.6		
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

Legend:

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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.

Regional District of Nanaimo - Water Services Department

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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)	Total Iron (mg/L)	Manganese (mg/L)
5-Oct-22	1228 Sunrise	0	0	0	0	16	6.86	0.49	67.4	0.07	142.3		
11-Oct-22	1381 Gilley	0	0	0	0	16	6.90	0.28	75.4	0.07	160.4		
17-Oct-22	1228 Sunrise			0	0	15	6.78	0.32	60.9	0.06	128.7		
24-Oct-22	1381 Gilley			0	0	15	6.80	0.34	66.1	0.06	133.0		
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

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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)	Total Iron (mg/L)	Manganese (mg/L)
7-Sep-22	1228 Sunrise	0	0	0	0	16	7.02	0.46	73.7	0.07	155.5		
17-Sep-22	1381 Gilley	0	0	0	0	18	6.87	0.34	83.5	0.08	176.0		
21-Sep-22	1228 Sunrise			0	0	16	7.00	0.30	86.1	0.08	169.9		
26-Sep-22	1381 Gilley			0	0		6.88	0.22	84.2	0.08	177.2		
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

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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)	Total Iron (mg/L)	Manganese (mg/L)
2-Aug-22	1228 Sunrise	0	0	0	0	n/a	7.26	0.63	69.0	0.07	146.0		
9-Aug-22	1381 Gilley	0	0	0	0	18	6.87	0.60	78.9	0.08	166.1		
16-Aug-22	1228 Sunrise			0	0	18	7.03	0.38	74.5	0.07	157.1		
24-Aug-22	1381 Gilley			0	0	18	6.79	0.40	83.6	0.08	176.0		
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

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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)	Total Iron (mg/L)	Manganese (mg/L)
6-Jul-22	1228 Sunrise	0	0	0	0	15	7.23	0.48	54.8	0.05	116.0		
13-Jul-22	1381 Gilley	0	0	0	0	15	6.95	0.53	63.7	0.06	134.7		
20-Jul-22	1228 Sunrise			0	0	16	6.77	0.69	54.5	0.05	115.4		
27-Jul-22	1381 Gilley			0	0	18	6.90	0.59	70.6	0.07	149.2		
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

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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)	Total Iron (mg/L)	Manganese (mg/L)
1-Jun-22	1228 Sunrise	0	0	0	0	12	7.19	0.36	55.7	0.05	117.0		
8-Jun-22	1381 Gilley	0	0	0	0	13	7.15	0.39	56.2	0.06	118.5		
20-Jun-22	1381 Gilley			0	0	14	7.13	0.25	53.3	0.05	112.8		
29-Jun-22	1381 Gilley			0	0	15	7.22	0.34	61.2	0.06	129.7		
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

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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)	Total Iron (mg/L)	Manganese (mg/L)
4-May-22	1228 Sunrise	0	0	0	0	10	6.99	0.06	44.1	0.04	94.8		
4-May-22	1381 Gilley	0	0	0	0	10	7.02	0.05	60.1	0.06	110.0		
11-May-22	1228 Sunrise	0	0	0	0	10	7.24	0.52	67.4	0.06	130.0		
11-May-22	1381 Gilley	0	0	0	0	10	7.19	0.58	60.1	0.06	127.1		
17-May-22	1381 Gilley	0	0	0	0	10	7.20	0.50	60.9	0.06	121.0		
17-May-22	1228 Sunrise	0	0	0	0	10	7.18	0.48	60.0	0.05	127.0		
25-May-22	1381 Gilley			0	0	12	6.98	0.38	53.6	0.05	113.5		
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

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5-Apr-22	1228 Sunrise	0	0	0	0	9	7.18	0.08	47.3	0.05	100.2		
5-Apr-22	1381 Gilley	0	0	0	0	9	7.27	0.01	68.8	0.07	143.1		
13-Apr-22	1381 Gilley	0	0	0	0	9	6.87	0.03	70.5	0.07	148.9		
13-Apr-22	1228 Sunrise	0	0	0	0	9	6.99	0.10	46.5	0.05	98.7		
20-Apr-22	1381 Gilley	0	0	0	0	8	7.00	0.05	69.0	0.07	145.2		
20-Apr-22	1228 Sunrise	0	0	0	0	8	7.10	0.06	72.1	0.07	142.1		
25-Apr-22	1381 Gilley	0	0	0	0	10	6.89	0.06	45.2	0.04	95.0	0.0273	0.001
25-Apr-22	1228 Sunrise	0	0	0	0	10	6.84	0.05	46.2	0.04	92.4	0.0189	0.0012
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

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2-Mar-22	1381 Gilley	0	0	0	0	8	6.96	0.12	51.4	0.05	109.9		
2-Mar-22	1228 Sunrise	0	0	0	0	8	6.94	0.12	69.0	0.06	122.4		
8-Mar-22	1381 Gilley	0	0	0	0	8	7.18	0.06	66.5	0.07	140.6		
8-Mar-22	1228 Sunrise	0	0	0	0	8	7.17	0.10	49.5	0.05	105.1	0.0251	0.0015
16-Mar-22	1381 Gilley	0	0	0	0	8	7.06	0.06	47.8	0.06	101.8	0.0262	0.0015
16-Mar-22	1228 Sunrise	0	0	0	0	8	7.03	0.07	66.6	0.07	140.7		
23-Mar-22	1381 Gilley			0	0	8	7.01	0.06	121.2	0.06	121.2		
23-Mar-22	1228 Sunrise	0	0	0	0	8	n/a	0.10	n/a	n/a	n/a		
29-Mar-22	1228 Sunrise	0	0	0	0	9	7.21	0.04	68.9	0.07	144.0		
29-Mar-22	1381 Gilley	0	0	0	0	9	7.27	0.10	47.8	0.05	101.5		
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

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2-Feb-22	1228 Sunrise	0	0	0	0	8	7.01	0.08	75	0.06	155		
2-Feb-22	1381 Gilley	0	0	0	0	8	7.1	0.04	70	0.05	159		
8-Feb-22	1381 Gilley	0	0	0	0	8	6.95	0.03	79.0	0.08	166.5	0.0131	0.0014
8-Feb-22	1228 Sunrise	0	0	0	0	8	6.85	0.10	55.4	0.05	117.2	0.0165	<0.001
16-Feb-22	1381 Gilley	0	0	0	0	8	7.18	0.04	74.5	0.04	157.7		
16-Feb-22	1228 Sunrise	0	0	0	0	8	7.20	0.08	76.0	0.07	158.1		
23-Feb-22	1381 Gilley	0	0	0	0	7	7.02	0.11	72.5	0.07	153.0		
23-Feb-22	1228 Sunrise	0	0	0	0	7	7.10	0.13	53.1	0.05	112.5		
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

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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)	Total Iron (mg/L)	Manganese (mg/L)
5-Jan-22	1228 Sunrise	0	0	0	0	7	7.50	0.03	57.6	0.06	122.5		
5-Jan-22	1381 Gilley	0	0	0	0	7	7.49	0.05	59.0	0.06	123.6		
12-Jan-22	1381 Gilley			0	0	7	6.89	0.04	82.5	0.08	173.3		
12-Jan-22	1228 Sunrise			0	0	7	7.17	0.09	59.5	0.06	125.9		
17-Jan-22	1381 Gilley	0	0	0	0	7	6.88	0.06	82.9	0.06	174.7		
17-Jan-22	1228 Sunrise	0	0	0	0	7	6.81	0.10	82.7	0.06	176.1	0.0129	0.0014
26-Jan-22	1228 Sunrise	0	0	0	0	9	7.04	0.04	80.7	0.08	170.5	0.0231	0.0019
26-Jan-22	1381 Gilley	0	0	0	0	8	7.18	0.09	56.4	0.06	118.6		
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

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.