



Regional District of Nanaimo - Water Services Department

Surfside Water Analysis - 2023 Monthly Report

Date	Sample Location (Address)	BC Centre for Disease Control		RDN In-House Laboratory and Spectrophotometer										
		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	Total Iron (mg/L)	Manganese (mg/L)
5-Dec-23	1105 Surfside	0	0	0	0	10	7.00	0.22	255.0	0.26	527.0	0.38	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/surfside	
11-Dec-23	923 McFeely	0	0	0	0	n/a	6.63	0.27	199.8	0.20	415.0	0.17		
11-Dec-23	1105 Surfside	0	0	0	0			0.24				0.22		
13-Dec-23	923 McFeely	0	0	0	0		6.63	0.27	199.8	0.20	415.0	0.17		
20-Dec-23	962 Surfside	0	0	0	0	10	6.89	0.39	176.5	0.18	367.0	0.27		
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

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

Comments:

A full potability scan, including metals and minerals, is completed once per year at an external lab.

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	1105 Surfside	0	0	0	0	n/a	6.57	0.24	317.0	0.32	650.0	1.65	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/surfside	
6-Nov-23	962 Surfside	0	0	0	0	n/a	n/a	0.27	n/a	n/a	n/a	1.80		
20-Nov-23	962 McFeely	0	0	0	0	11.0	6.50	0.23	255.0	0.27	555.0	0.18		
28-Nov-23	962 Surfside	0	0	0	0	10.0	6.50	0.23	211.0	0.21	437.0	0.22		
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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Treatment-related	pH (2015)	None	7.0-10.5	Not applicable	Not applicable

Comments

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4-Oct-23	1105 Surfside			0	0	17	6.25	0.24	461.0	0.46	937.0	0.20	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/surfside	
11-Oct-23	923 McFeely	0	0	0	0	16	6.34	0.26	400.0	0.40	817.0	0.18		
11-Oct-23	1105 Surfside	0	0	0	0	16	n/a	0.22	n/a	n/a	n/a	0.24		
18-Oct-23	962 Surfside	0	0	0	0	15	6.56	0.31	350.0	0.35	720.0	0.22		
23-Oct-23	962 McFeely			0	0	14	6.45	0.13	409.0	0.41	834.0	0.45		
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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6-Sep-23	1105 Surfside	0	0	0	0	18	6.39	0.22	444.0	0.44	890.0	0.20	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/surfside	
13-Sep-23	962 McFeely	0	0	0	0	18	6.37	0.13	420.0	0.42	859.0	0.26		
20-Sep-23	962 Surfside	0	0	0	0	17	6.21	0.21	392.0	0.39	801.0	0.20		
26-Sep-23	962 MCFEELY	0	0	0	0	18	6.39	0.71	395.0	0.40	807.0	0.30		
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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1-Aug-23	962 Surfside	0	0	0	0	17	6.75	0.21	n/a	n/a	n/a	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/surfside	
8-Aug-23	962 Mc Feely	0	0	0	0	19.5	6.28	0.28	n/a	n/a	n/a		
15-Aug-23	962 SurfSide	0	0	0	0	17	6.35	0.42	n/a	n/a	n/a		
23-Aug-23	962 Mcfeely	0	0	0	0	20	6.43	0.17	582.0	0.59	1184.0		
30-Aug-23	1105 Surfside			0	0	18	6.45	0.20	363.0	0.36	739.0		
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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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.
Acceptability	Total dissolved solids (TDS) (1991)	None	AO: ≤ 500	Naturally occurring; sewage, urban and agricultural runoff, industrial wastewater	Not applicable	Based on taste; TDS above 500 mg/L results in excessive scaling in water pipes, water heaters, boilers and appliances; TDS is composed of calcium, magnesium, sodium, potassium, carbonate, bicarbonate, chloride, sulphate and nitrate.



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4-Jul-23	1105 Surfside	0	0	0	0	17	6.47	0.44	235.0	0.23	487.0	0.16	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/surfsid	
11-Jul-23	962 Mcfeely			0	0	18	6.42	0.20	243.0	0.24	502.0	0.35		
18-Jul-23	962 Surfside			0	0	17	6.48	0.20	237.0	0.24	490.0	0.13		
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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6-Jun-23	962 Surfside	0	0	0	0	18	6.99	0.38	121.2	0.12	255.0	0.58	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/surfside	
13-Jun-23	923 McFeely	0	0	0	0	17	6.36	0.33	182.0	0.18	378.0	0.37		
20-Jun-23	1105 Surfside	0	0	0	0	15	6.66	0.48	125.6	0.12	263.0	0.11		
27-Jun-23	962 McFeely			0	0	18	6.89	0.53	199.2	0.20	413.0	0.30		
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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3-May-23	962 Surfside	0	0	0	0	11	7.00	0.43	7.0	0.07	147.8	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/surfside	
9-May-23	962 McFeely	0	0	0	0	11	6.96	0.31	69.2	0.07	146.3		
15-May-23	1105 Surfside	0	0	0	0	15	6.92	0.41	82.8	0.08	174.3		
24-May-23	962 McFeely			0	0	15	6.98	0.32	77.8	0.08	163.9		
31-May-23	923 McFeely			0	0	16	6.99	0.33	106.9	0.11	224.0		
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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3-Apr-23	1105 Surfside	0	0	0	0	8	6.69	0.40	72.8	0.08	169.0	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/surfside	
12-Apr-23	962 Surfside	0	0	0	0	8	6.90	0.18	71.4	0.07	150.9		
19-Apr-23	923McFeely			0	0	9	7.40	0.43	68.2	0.07	144.1		
26-Apr-23	1105 Surfside	0	0	0	0	8	7.11	0.42	73.9	0.07	156.0		
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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7-Mar-23	1105 Surfside	0	0	0	0	7	7.07	0.36	86.8	0.90	182.7	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/surfside	
13-Mar-23	962 Surfside	0	0	0	0	6	7.12	0.52	80.0	0.08	169.1		
20-Mar-23	923 McFeely	0	0	0	0	7	7.02	0.46	69.9	0.07	147.8		
27-Mar-23	1105 Surfside			0	0	8	6.79	0.36	81.0	0.08	170.6		
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

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8-Feb-23	1105 Sufside	0	0	0	0	7	7.16	0.40	71.2	0.07	150.3	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/surfside	
14-Feb-23	962 Surfside	0	0	0	0	7	7.00	0.41	80.2	0.08	169.0		
21-Feb-23	923 McFeely	0	0	0	0	7	7.00	0.37	71.4	0.07	150.6		
28-Feb-23	1105 Sufside			0	0	6	7.05	0.40	84.3	0.08	176.9		
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

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4-Jan-23	1105 Surfside	0	0	0	0	7	6.79	0.44	92.8	0.09	195.1	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/surfside	
10-Jan-23	962 Surfside	0	0	0	0	7	6.90	0.47	80.5	0.08	169.7		
18-Jan-23	923 McFeely	0	0	0	0	7	7.00	0.48	78.2	0.08	165.0		
22-Jan-23	1105 Surfside			0	0	7	6.85	0.34	87.7	0.09	184.7		
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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A full potability scan, including metals and minerals, is completed once per year at an external lab.

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.