



Regional District of Nanaimo - Water Services Department

Surfside Water Analysis - 2021 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)	Total Iron (mg/L)	Manganese (mg/L)
07-Dec-21	1105 Surfside			0	0	9	7.02	0.37	74.9	0.07	158.0	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/surfside	
14-Dec-21	923 McFeely			0	0	7	7.00	0.37	68.8	0.07	145.1		
14-Dec-21	962 Surfside			0	0	7		0.30					
20-Dec-21	923 McFeely			0	0	7	7.00	0.39	67.5	0.07	142.6		
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 considerations

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:

Iron and Manganese are no longer being tested in-house.

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

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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01-Nov-21	1105 Surfside	0	0	0	0	12	7.00	0.44	83.1	0.08	174.4	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/surfside	
08-Nov-21	923 McFeely	0	0	0	0	10	6.79	0.25	78.3	0.08	165.1		
15-Nov-21	962 Surfside			0	0	9	7.04	0.25	71.4	0.07	150.6		
22-Nov-21	962 Surfside			0	0	8	7.04	0.35	68.2	0.07	139.9		
29-Nov-21	923 McFeely			0	0	9	6.88	0.30	69.2	0.07	146.1		
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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05-Oct-21	1105 Surfside	0	0	0	0	15	6.99	0.20	98.9	0.10	207.9	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/surfside	
13-Oct-21	962 Sufside	0	0	0	0	14	6.79	0.24	82.8	0.08	174.1		
18-Oct-21	923 McFeely	0	0	0	0	14	6.97	0.20	81.9	0.08	172.3		
25-Oct-21	962 Sufside					13	7.00	0.28	101.1	0.09	170.1		
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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07-Sep-21	1105 Surfside	0	0	0	0	15	6.67	0.36	100.0	0.11	210.0	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/surfside	
13-Sep-21	923 McFeely	0	0	0	0	19	6.70	0.24	102.4	0.11	219.0		
20-Sep-21	962 Surfside	0	0	0	1	17	6.83	0.17	121.0	0.12	253.0		
21-Sep-21	RE.962 Surfside	0	0	0	0			0.34					
21-Sep-21	1105 Surfside			0	0			0.35					
21-Sep-21	923 McFeely			0	0			0.32					
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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04-Aug-21	1105 Surfside	0	0	0	0		6.80	0.34	103.5	0.10	217.6	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/surfside	
11-Aug-21	923 McFeely	0	0	0	0	20	6.60	0.31	92.2	0.09	194.1		
16-Aug-21	962 Surfside	0	0	0	0	18	6.66	0.35	96.2	0.09	202.6		
23-Aug-21	962 Surfside			0	0	20	6.51	0.26	116.5	0.11	245.0		
30-Aug-21	923 McFeely			0	0	19	6.60	0.28	111.5	0.11	234.0		
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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06-Jul-21	1105 Surfside	0	0	0	0	19	6.50	0.24	52.0	0.05	108.6	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/surfside	
12-Jul-21	923 McFeely	0	0	0	0	20	6.59	0.21	77.7	0.08	164.0		
19-Jul-21	962 Surfside	0	0	0	0	14	6.66	0.24	74.8	0.07	157.8		
27-Jul-21	962 Surfside			0	0	18	6.65	0.37	91.3	0.01	192.2		
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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01-Jun-21	1105 Surfside	0	0	0	0	12	6.75	0.33	67.5	0.07	142.8	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/surfside	
07-Jun-21	1105 Surfside	0	0	0	0	13	6.79	0.33	66.5	0.07	140.4		
14-Jun-21	962 Surfside	0	0	0	0	14	6.60	0.32	66.4	0.07	141.4		
21-Jun-21	962 Surfside			0	0	14	6.74	0.24	64.5	0.06	136.1		
29-Jun-21	923 McFeely	0	0	0	0	19	7.14	0.24	69.1	0.07	146.0		
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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03-May-21	1105 Surfside	0	0	0	0	11	6.50	0.31	65.9	0.07	139.4	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/surfside	
10-May-21	923 McFeely	0	0	0	0	12	6.67	0.44	64.2	0.06	136.0		
17-May-21	962 Surfside	0	0	0	0	13	6.48	0.40	67.2	0.07	142.0		
25-May-21	962 Surfside			0	0	13	6.71	0.42	65.1	0.06	140.0		
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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07-Apr-21	1105 Surfside	0	0	0	0	8	6.52	0.25	66.6	0.06	148.1	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/surfside	
12-Apr-21	923 McFeely	0	0	0	0	9	6.51	0.31	63.9	0.06	135.4		
19-Apr-21	962 Surfside	0	0	0	0	11	6.49	0.27	66.9	0.07	141.4		
26-Apr-21	962 Surfside			0	0	11	6.51	0.24	65.4	0.06	138.6		
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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03-Mar-21	1105 Surfside	0	0	0	0	6	6.57	0.21	74.8	0.07	158.1	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/surfside	
08-Mar-21	923 McFeely	0	0	0	0	7	6.56	0.20	66.1	0.07	139.8		
15-Mar-21	962 Surfside	0	0	0	0	8	6.53	0.25	65.5	0.06	138.6		
22-Mar-21	962 Surfside			0	0	8	6.58	0.28	67.7	0.05	135.6		
30-Mar-21	962 Surfside			0	0	8	6.48	0.24	67.9	0.07	143.6		
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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03-Feb-21	1105 Surfside	0	0	0	0	7	6.71	0.22	75.1	0.07	158.4	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/surfside	
08-Feb-21	923 McFeely	0	0	0	0	6	6.50	0.24	62.9	0.06	133.2		
17-Feb-21	962 Surfside	0	0	0	0	7	6.55	0.24	65.0	0.06	137.0		
22-Feb-21	962 Surfside			0	0	8	6.53	0.23	64.8	0.07	136.7		
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04-Jan-21	1105 Surfside	0	0	0	0	8	6.48	0.27	71.1	0.07	150.4	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/surfside	
11-Jan-21	923 McFeely	0	0	0	0	8	6.59	0.23	63.9	0.06	135.2		
18-Jan-21	962 Surfside	0	0	0	0	8	6.57	0.24	64.9	0.06	137.3		
27-Jan-21	923 McFeely			0	0	7	6.53	0.22	62.5	0.06	132.9		
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 considerations

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:

Iron and Manganese are no longer being tested in-house.

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

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.