

Regional District of Nanaimo - Water Services Department

Melrose 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)	Total Iron (mg/L)	Manganese (mg/L)
6-Sep-23	3927 Melrose	0	0	0	0	19	7.21	0.03	238.0	0.24	493.0	0.18	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/melrose-terrace	
12-Sep-23	3927 Melrose			0	0	18	7.32	0.01	241.0	0.24	498.0	0.16		
20-Sep-23	3927 Melrose			0	0	17	6.97	0.07	237.0	0.24	490.0	0.24		
27-Sep-23	3927 Melrose			0	0	17	7.03	0.11	234.0	0.23	482.0	0.21		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1	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.

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1-Aug-23	3927 Melrose	0	0	0	0	19	7.15	0.00	n/a	n/a	n/a	0.26	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/melrose-terrace	
8-Aug-23	3927 Melrose			0	0	19	8.05	0.03	n/a	n/a	n/a	0.16		
16-Aug-23	3927 Melrose			0	0	20	7.08	0.01	n/a	n/a	n/a	0.16		
23-Aug-23	3927 Melrose			0	0	19	7.24	0.01	237.0	0.24	489.0	0.65		
29-Aug-23	3927 Melrose			0	0	18	7.50	0.01	240.0	0.24	495.0	0.18		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1	0.3	0.02 AO 0.12 MAC

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4-Jul-23	3927 Melrose	0	0	0	0	17	7.20	0.00	229.0	0.23	474.0	0.24	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/melrose-terrace	
12-Jul-23	3927 Melrose			0	0	19	7.15	0.02	230.0	0.23	477.0	0.26		
18-Jul-23	3927 Melrose			0	0	19	7.14	0.00	102.3	0.10	221.0	0.28		
26-Jul-23	3927 Melrose			0	0	19	7.00	0.01				0.23		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1	0.3	0.02 AO 0.12 MAC

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6-Jun-23	3927 Melrose	0	0	0	0	17	6.64	0.00	229.0	0.23	472.0	0.35	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/melrose-terrace	
13-Jun-23	3927 Melrose			0	0	16	6.69	0.00	225.0	0.22	456.0	0.29		
20-Jun-23	3927 Melrose			0	0	16	6.81	0.02	228.0	0.23	461.0	0.13		
27-Jun-23	3927 Melrose			0	0	17	6.93	0.03	226.0	0.22	467.0	0.24		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1	0.3	0.02 AO 0.12 MAC

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3-May-23	3927 Melrose	0	0	0	0	9	6.95	0.02	232.0	0.23	480.0	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/melrose-terrace	
9-May-23	3927 Melrose			0	0	10	7.18	0.02	231.0	0.23	478.0		
15-May-23	3927 Melrose			0	0	15	6.78	0.04	231.0	0.23	478.0		
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	3927 Melrose	0	0	0	0	7	6.83	0.02	226.0	0.23	468.0	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/melrose-terrace	
11-Apr-23	3927 Melrose			0	0	8	7.46	0.02	226.0	0.23	467.0		
19-Apr-23	3927 Melrose			0	0	9	7.28	0.00	221.0	0.22	458.0		
26-Apr-23	3927 Melrose			0	0	9	6.99	0.02	230.0	0.23	476.0		
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	3927 Melrose	0	0	0	0	7	6.82	0.00	224.0	0.22	465.0	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/melrose-terrace	
13-Mar-23	3927 Melrose			0	0	5	6.94	0.02	221.0	0.22	458.0		
20-Mar-23	3927 Melrose			0	0	6	7.07	0.01	218.1	0.22	452.0		
27-Mar-23	3927 Melrose			0	0	8	7.00	0.02	225.0	0.22	466.0		
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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8-Feb-23	3927 Melrose	0	0	0	0	6	7.21	0	235	0.24	484	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/melrose-terrace	
13-Feb-23	3927 Melrose			0	0	6	7.17	0.05	228.0	0.23	472.0		
21-Feb-23	3927 Melrose			0	0	6	6.93	0.03	210.0	0.21	435.0		
28-Feb-23	3927 Melrose			0	0	6	7.01	0.05	217.0	0.22	450.0		
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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4-Jan-23	3927 Melrose	0	0	0	0	6	6.68	0.03	228.0	0.23	471.0	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/melrose-terrace	
10-Jan-23	3927 Melrose			0	0	6	6.92	0.02	228.0	0.23	472.0		
18-Jan-23	3927 Melrose			0	0	6	6.96	0.02	228.0	0.23	471.0		
25-Jan-23	3927 Melrose			0	0	6	6.85	0.03	231.0	0.23	477.0		
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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