



# Regional District of Nanaimo - Water Services Department

## Melrose Water Analysis - 2024 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 NTU
5-Jan-23	3927 Melrose	0	0	0	0	8	6.86	0.02	245.0	0.24	505.0	0.17
24-Jan-24	3927 Melrose			0	0	8	7.15	0.02	247.0	0.25	510.0	0.31
31-Jan-24	3927 Melrose			0	0		7.18	0.04	235.0	0.23	485.0	0.38
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	0.3

**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](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-Feb-24	3927 Melrose	0	0	0	0	9	6.93	0.03	239	0.24	494	0.24
14-Feb-24	3927 Melrose			0	0	7	7.00	0.03	234.0	0.23	485.0	0.34
22-Feb-24	3927 Melrose			0	0	8	6.85	0.01	240.0	0.24	496.0	0.33
28-Feb-24	3927 Melrose			0	0	8	7.02	0.06	239.0	0.24	495.0	
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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4-Mar-24	3927 Melrose	0	0	0	0	8	7.16	0.02	245.0	0.25	507.0	0.15
19-Mar-24	3927 Melrose			0	0	9	7.02	0.07	242.0	0.24	500.0	0.24
26-Mar-24	3927 Melrose			0	0	9	7.40	0.00	253.0	0.25	522.0	0.24
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1

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9-Apr-24	3927 Melrose	0	0	0	0	10	6.80	0.03	249.0	0.25	515.0	0.29
16-Apr-24	3927 Melrose			0	0	10	6.97	0.02	251.0	0.25	518.0	0.23
24-Apr-24	3927 Melrose			0	0	11	6.73	0.08	251.0	0.25	518.0	0.26
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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8-May-24	3927 Melrose	0	0	0	0	13	6.68	0.05	250.0	0.25	513.0	0.30
14-May-24	3927 Melrose			0	0	13	6.72	0.04	256.0	0.24	521.0	0.24
21-May-24	3927 Melrose			0	0	13	7.15	0.02	248.0	0.25	513.0	0.25
28-May-24	3927 Melrose			0	0	14	7.17	0.03	251.0	0.25	519.0	0.26
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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5-Jun-24	3927 Melrose	0	0	0	0	14	7.12	0.07	251.0	0.25	519.0	0.34
17-Jun-24	3927 Melrose			0	0	14	7.00	0.03	246.0	0.24	507.0	0.27
26-Jun-24	3927 Melrose			0	0	15	7.40	0.02	241.0	0.24	497.0	0.30
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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2-Jul-24	3927 Melrose	0	0	0	0	16	7.20	0.02	247.0	0.25	510.0	0.20
9-Jul-24	3927 Melrose			0	0	17	6.86	0.03	246.0	0.25	505.0	0.25
17-Jul-24	3927 Melrose			0	0	17	7.64	0.00	246.0	0.24	509.0	0.24
24-Jul-24	3927 Melrose			0	0	19	7.35	0.05	246.0	0.24	508.0	0.14
31-Jul-24	3927 Melrose			0	0	18	7.00	0.07	247.0	0.24	514.0	0.23
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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6-Aug-24	3927 Melrose	0	0	0	0	16	7.18	0.07	244.0	0.24	505.0	0.23
13-Aug-24	3927 Melrose			0	0	19	6.55	0.02	243.0	0.24	504.0	0.22
20-Aug-24	3927 Melrose			0	0	17	7.65	0.02	234.0	0.23	486.0	0.24
27-Aug-24	3927 Melrose			0	0	18	7.70	0.03	249.0	0.25	516.0	0.19
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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4-Sep-24	3927 Melrose	0	0	0	0	19	6.90	0.04	250.0	0.25	516.0	0.19
10-Sep-24	3927 Melrose			0	0	18	6.81	0.08	257.0	0.26	529.0	0.20
18-Sep-24	3927 Melrose			0	0	18	6.55	0.07	250.0	0.25	518.0	0.25
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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