



Regional District of Nanaimo - Water Services Department

Melrose Water Analysis - 2025 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
7-Jan-25	3927 Melrose	0	0	0	0	8.7		0.01	245.0	0.24	503.0	0.17
14-Jan-25	3927 Melrose			0	0	6.8		0.05	247.0	0.25	510.0	0.13
21-Jan-25	Melrose Pumphouse			0	0	n/a	7.27	0.02	142.8	0.14	297.0	0.12
27-Jan-25	Melrose Pumphouse			0	0	9	7.26	0.01	216.0	0.22	448.0	0.12
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1

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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19-Feb-25	3927 Melrose	0	0	0	0	6	6.94	0.03	247	0.25	509	0.21
26-Feb-25	3927 Melrose			0	0	5	7.06	0.02	122.0	0.12	255.0	0.14
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-Mar-25	3927 Melrose	0	0	0	0	7	7.25	0.00	240.0	0.24	498.0	0.29
12-Mar-25	3927 Melrose			0	0	7	7.09	0.00	244.0	0.24	508.0	0.19
24-Mar-25	3927 Melrose			0	0	7	7.56	0.01	253.0	0.25	523.0	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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1-Apr-25	3927 Melrose	0	0	0	0	9	7.56	0.01	256.0	0.26	528.0	0.24
9-Apr-25	3927 Melrose			0	0	8.2	7.51	0.05	254.0	0.25	525.0	0.15
15-Apr-25	3927 Melrose			0	0	10	7.39	0.00	237.0	0.24	492.0	0.31
23-Apr-25	3927 Melrose			0	0	9.9	7.46	0.00	257.0	0.26	530.0	0.15
29-Apr-25	3927 Melrose			0	0	10.5	7.58	0.02	256.0	0.26	533.0	0.15
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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7-May-25	3927 Melrose	0	0	0	0	12	7.36	0.02	262.0	0.26	540.0	0.09
13-May-25	3927 Melrose			0	0	12	7.29	0.02	259.0	0.26	534.0	0.19
21-May-25	3927 Melrose			0	0	12	7.22	0.00	257.0	0.26	530.0	0.14
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-Jun-25	3927 Melrose	0	0	0	0	13	7.19	0.00	257.0	0.26	529.0	0.18
11-Jun-25	3927 Melrose			0	0	16	7.28	0.00	253.0	0.25	524.0	0.23
24-Jun-25	3927 Melrose			0	0	16	7.27	0.04	251.0	0.25	519.0	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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8-Jul-25	3927 Melrose	0	0	0	0	17	7.14	0.00	240.0	0.24	496.0	0.18
15-Jul-25	3927 Melrose			0	0	18	7.48	0.05	241.0	0.24	499.0	0.21
22-Jul-25	3927 Melrose			0	0	19	6.76	0.01	243.0	0.24	502.0	0.17
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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12-Aug-25	3927 Melrose	0	0	0	0	18	7.31	0.00	241.0	0.24	498.0	0.17
13-Aug-25	3927 Melrose	0	0	0	0	20	6.93	0.01	239.0	0.24	495.0	0.14
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-Sep-25	3927 Melrose			0	0	18	6.94	0.04	236.0	0.24	491.0	0.27
10-Sep-25	3927 Melrose	0	0	0	0	19	7.35	0.02	236.0	0.23	488.0	0.24
24-Sep-25	3927 Melrose			0	0	18	7.19	0.02	231.0	0.23	485.0	0.21
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1

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14-Oct-25	3927 Melrose	0	0			16	7.10	0.02	236.0	0.23	483.0	0.29
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-Nov-25	3927 Melrose	0	0			12	7.08	0.03	222.0	0.22	461.0	0.16
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-Dec-25	3927 Melrose	0	0			10	7.06	0.02	235.0	0.23	485.0	0.28
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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