Regional District of Nanaimo - Water Services Department

Decourcey Water Analysis - 2024 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)
2-Jan-24	2458 Pylades			0	0	9.6	7.57	0.01	0.39	0.35	712.0	0.39
8-Jan-24	2458 Pylades			0	0	8	7.47	0.01	341.00	0.34	701.0	0.34
22-Jan-24	2458 Pylades	0	0	0	0	8	6.82	0.00	364.00	0.36	649.0	0.32
29-Jan-24	2458 Pylades			0	0	7.5	7.65	0.00	339.00	0.34	688.0	0.32
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:

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

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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5-Feb-24	2458 Pylades	0	0	0	0	8	7.60	0.02	367.0	0.37	750.0	0.27
12-Feb-24	2458 Pylades			0	0	7	7.50	0.03	331.0	0.33	680.0	0.31
21-Feb-24	2458 Pylades			0	0	8	7.66	0.04	332.0	0.33	681.0	0.29
27-Feb-24	2458 Pylades			0	0	7	7.59	0.03	328.0	0.33	674.0	0.39
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-Mar-24	2458 Pylades			0	0	7	7.44	0.03	301.0	0.30	625.0	0.29
11-Mar-24	2458 Pylades	0	0	0	0	8	7.80	0.03	315.0	0.31	647.0	0.28
18-Mar-24	2458 Pylades			0	0	8	7.60	0.03	316.0	0.32	647.0	0.32
27-Mar-24	2458 Pylades			0	0	9	7.63	0.00	303.0	0.30	620.0	0.28
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1

Legend:

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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)
8-Apr-24	2458 Pylades	0	0	0	0	9	7.56	0.03	307.0	0.31	630.0	0.29
15-Apr-24	2458 Pylades			0	0	10	7.22	0.00	307.0	0.31	632.0	0.42
22-Apr-24	2458 Pylades			0	0	11	7.44	0.01	307.0	0.31	632.0	0.40
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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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)
1-May-24	2458 Pylades	0	0	0	0	12	7.09	0.02	304.0	0.30	628.0	0.31
7-May-24	2458 Pylades			0	0	12	7.08	0.01	307.0	0.31	632.0	0.21
13-May-24	2458 Pylades			0	0	13	7.28	0.03	311.0	0.31	640.0	0.28
22-May-24	2458 Pylades			0	0	15	7.45	0.01	318.0	0.32	551.0	0.40
27-May-24	2458 Pylades			0	0	14	7.20	0.03	313.0	0.31	643.0	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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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)
3-Jun-24	2458 Pylades			0	0	14	7.34	0.04	307.0	0.31	640.0	0.27
10-Jun-24	2458 Pylades	0	0	0	0	15	7.20	0.03	324.0	0.32	567.0	0.26
17-Jun-24	2458 Pylades			0	0	15	7.18	0.02	332.0	0.33	681.0	0.31
24-Jun-24	2458 Pylades			0	0	17	7.23	0.03	346.0	0.35	709.0	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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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)
3-Jul-24	2458 Pylades	0	0	0	0	15	7.26	0.02	357.0	0.36	736.0	0.37
8-Jul-24	2458 Pylades			0	0	18	7.41	0.03	345.0	0.34	704.0	0.31
15-Jul-24	2458 Pylades			0	0	18	7.58	0.00	374.0	0.37	765.0	0.46
22-Jul-24	2458 Pylades			0	0	19	7.55	0.03	386.0	0.39	788.0	0.35
29-Jul-24	2458 Pylades			0	0	19	7.59	0.02	385.0	0.38	776.0	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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6-Aug-24	2458 Pylades	0	0	0	0	18	7.44	0.08	398.0	0.39	806.0	0.26
12-Aug-24	2458 Pylades			0	0	19	7.42	0.00	386.0	0.39	792.0	0.23
19-Aug-24	2458 Pylades			0	0	18	7.90	0.07	364.0	0.37	751.0	0.29
26-Aug-24	2458 Pylades			0	0	17	8.04	0.03	386.0	0.36	786.0	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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3-Sep-24	2458 Pylades	0	0	0	0	18	7.46	0.03	385.0	0.39	787.0	0.23
9-Sep-24	2458 Pylades			0	0	18	7.80	0.06	381.0	0.39	786.0	0.21
17-Sep-24	2458 Pylades			0	0	18	7.34	0.03	385.0	0.39	788.0	0.24
23-Sep-24	2458 Pylades			0	0	16	7.53	0.00	387.0	0.39	791.0	0.27
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-Oct-24	2458 Pylades	0	0	0	0	15	7.01	0.03	394.0	0.39	804.0	0.30
7-Oct-24	2458 Pylades			0	0	15	7.39	0.03	390.0	0.39	797.0	0.27
15-Oct-24	2458 Pylades			0	0		7.39	0.03	392.0	0.39	800.0	0.31
21-Oct-24	2458 Pylades			0	0	14	7.35	0.00	393.0	0.39	800.0	0.16
28-Oct-24	2458 Pylades			0	0	13		0.01	388.0	0.39	793.0	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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4-Nov-24	2458 Pylades	0	0	0	0	12	7.10	0.05	364.0	0.36	741.0	0.34
12-Nov-24	2458 Pylades			0	0	12		0.01	386.0	0.39	792.0	0.25
18-Nov-24	2458 Pylades			0	0	11		0.01	390.0	0.39	790.0	0.28
27-Nov-24	2458 Pylades			0	0	9.5		0.00	371.0	0.37	749.0	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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3-Dec-24	2458 Pylades			0	0	9		0.01	380.0	0.38	776.0	0.22
11-Dec-24	2458 Pylades	0	0	0	0	8		0.02	374.0	0.37	763.0	0.20
18-Dec-24	2458 Pylades			0	0	8		0.01	360.0	0.36	743.0	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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