Regional District of Nanaimo - Water Services Department

Decourcey 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)
4-Dec-23	2458 Pylades			0	0	8	7.60	0.02	374.0	0.37	464.0	0.29
11-Dec-23	2458 Pylades	0	0	0	0	9	7.60	0.00	366.0	0.37	742.0	0.48
18-Dec-23	2458 Pylades			0	0	8	7.50	0.02	367.0	0.36	710.0	0.29
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1

Legend:

* Coliforms are measured in colony forming units (CFU) per 100 millilitres of water (CFU/100mL)

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.

Regional District of Nanaimo - Water Services Department

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		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)
7-Nov-23	2458 Pylades			0	0		7.70	0.02	386.0	0.39	790.0	0.39
14-Nov-23	2458 Pylades			0	0	10	7.72	0.01	378.0	0.38	770.0	0.39
21-Nov-23	2458 Pylades			0	0		7.63	0.03	381.0	0.38	779.0	0.26
27-Nov-23	2458 Pylades	0	0	0	0	8	7.59	0.00	364.0	0.36	728.0	0.35
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)	Total Iron (mg/L)	Manganese (mg/L)
3-Oct-23	2458 Pylades			0	0	18	7.51	0.00	398.0	0.40	813.0	n/a	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/decourcey	
11-Oct-23	2458 Pylades	0	0	0	0	17	7.29	0.00	381.0	0.38	783.0	0.32		
16-Oct-23	2458 Pylades			0	0	15	7.70	0.00	392.0	0.39	800.0	0.31		
24-Oct-23	2458 Pylades			0	0	15	7.60	0.03	388.0	0.39	792.0	0.36		
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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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)
5-Sep-23	2458 Pylades			0	0	20	7.64	0.00	400.0	0.40	817.0	0.53	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/decourcey	
11-Sep-23	2458 Pylades	0	0	0	0	18	7.63	0.01	397.0	0.40	807.0	0.32		
18-Sep-23	2458 Pylades			0	0		7.66	0.03	400.0	0.40	818.0	0.34		
26-Sep-23	2458 Pylades			0	0	17	7.62	0.03	401.0	0.40	818.0	0.29		
CDN Drinking Water Guidelines		<1	<1	<1	<1	n/a	7.0-10.5	n/a	500	n/a	n/a	<1	0.3	**0.02** AO **0.12** MAC

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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)	Total Iron (mg/L)	Manganese (mg/L)
9-Aug-23	2458 Pylades			0	0	n/a	7.62	0.06	n/a	n/a	n/a	0.41	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/decourcey	
16-Aug-23	2458 Pylades			0	0	19	7.74	0.03	n/a	n/a	n/a	0.36		
21-Aug-23	2458 Pylades			0	0	20	7.78	0.03	n/a	n/a	n/a	0.43		
28-Aug-23	2458 Pylades			0	0	19	7.70	0.04	404.0	0.40	824.0	0.31		
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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		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)
5-Jul-23	2458 Pylades	0	0	0	0	18	7.63	0.01	358.0	0.36	733.0	0.37	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/decourcey	
10-Jul-23	2458 Pylades			0	0	18	7.61	0.02	365.0	0.37	748.0	0.40		
17-Jul-23	2458 Pylades			0	0	19	7.64	0.06	370.0	0.37	758.0	0.35		
24-Jul-23	2458 Pylades			0	0	19	7.63	0.02				0.38		
31-Jul-23	2458 Pylades			0	0	20	7.67	0.02				0.55		
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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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)
5-Jun-23	2458 Pylades	0	0	0	0	16	7.16	0.02	329.00	0.33	675.0	0.45	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/decourcey	
12-Jun-23	2458 Pylades			0	0	17	7.05	0.02	347.0	0.35	711.0	0.66		
20-Jun-23	2458 Pylades			0	0	n/a	n/a	n/a	346.0	0.34	709.0	n/a		
26-Jun-23	2458 Pylades			0	0	16	7.20	0.02	327.0	0.33	673.0	0.43		
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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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)	Total Iron (mg/L)	Manganese (mg/L)
1-May-23	2458 Pylades	0	0	0	0	10	7.52	0.02	313.0	0.31	645.0	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/	
8-May-23	2458 Pylades			0	0	10	7.45	0.02	310.0	0.31	636.0		
16-May-23	2458 Pylades			0	0	14	7.82	0.02	305.0	0.30	627.0		
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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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)	Total Iron (mg/L)	Manganese (mg/L)
4-Apr-23	2458 Pylades	0	0	0	0	8	7.45	0.02	357.0	0.36	732.0	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/decourcey	
12-Apr-23	2458 Pylades			0	0	9.5	7.45	0.00	339.0	0.34	696.0		
18-Apr-23	2458 Pylades			0	0	9	7.52	0.03	305.0	0.30	625.0		
24-Apr-23	2458 Pylades			0	0		7.47	0.00	309.0	0.31	636.0		
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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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)	Total Iron (mg/L)	Manganese (mg/L)
8-Mar-23	2458 Pylades	0	0	0	0	5.5	7.48	0.00	368.0	0.37	752.0	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/decourcey	
14-Mar-23	2458 Pylades			0	0	7	7.43	0.03	366.0	0.37	750.0		
21-Mar-23	2458 Pylades			0	0	8	7.62	0.02	361.0	0.36	740.0		
29-Mar-23	2458 Pylades			0	0	8	7.45	0.02	359.0	0.36	735.0		
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

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)	Total Iron (mg/L)	Manganese (mg/L)
7-Feb-23	2458 Pylades	0	0	0	0	8	7.00	0.03	374.0	0.37	765.0	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/decourcey	
15-Feb-23	2458 Pylades			0	0	6.5	7.12	0.01	368.0	0.37	752.0		
21-Feb-23	2458 Pylades			0	0		6.90	0.02	364.0	0.36	745.0		
28-Feb-23	2458 Pylades			0	0	7	7.62	0.00	348.0	0.35	712.0		
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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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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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)	Total Iron (mg/L)	Manganese (mg/L)
3-Jan-23	2458 Pylades	0	0	0	0	6	7.00	0.02	381.0	0.38	775.0	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/decourcey	
9-Jan-23	2458 Pylades			0	0	8	7.49	0.02	348.0	0.39	787.0		
17-Jan-23	2458 Pylades			0	0	7	7.54	0.03	380.0	0.38	777.0		
23-Jan-23	2458 Pylades			0	0	6	7.61	0.03	400.0	0.40	817.0		
30-Jan-23	2458 Pylades			0	0	8	7.40	0.03	377.0	0.38	770.0		
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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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.

Total coliforms can be an indicator of adverse water quality if the result in the resample is positive (US Environmental Protection Agency). RDN water samples are always tested for E.coli coliform bacteria at the same time as total coliforms to rule out the presence of harmful pathogens. If background bacteria (BG), total or E.coli bacteria are detected location is resampled. If the bacteria test is overgrown (OG) location is also resampled.

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