



Regional District of Nanaimo - Water Services Department

Westurne Heights Water Analysis - 2020 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)	Total Iron (mg/L)	Manganese (mg/L)
1-Dec-20	1263 Westurne	0	0	0	0	9	7.19	0.35	43.4	0.04	92.5	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/westurne-heights	
7-Dec-20	1252 Westurne	0	0	0	0	9	7.11	0.40	48.9	0.04	72.0		
14-Dec-20	1263 Westurne	0	0	0	0	8	7.38	0.48	49.7	0.04	92.7		
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:

* 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.



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2-Nov-20	1263 Westurne	0	0	0	0	10	7.40	0.43	44.7	0.04	94.8	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/we-sturne-heights	
9-Nov-20	1252 Westurne	0	0	0	0	10	7.36	0.39	44.0	0.04	93.4		
16-Nov-20	Well Head	0	0	0	0	9	7.20	0.35	44.0	0.04	93.5		
23-Nov-20	1263 Westurne	0	0	0	0	8	7.17	0.46	43.6	0.04	92.4		
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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5-Oct-20	1263 Westurne	0	0	0	0	15	7.44	0.43	55.6	0.05	97.9	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/we-sturne-heights	
13-Oct-20	1252 Westurne	0	0	0	0	12	7.34	0.38	45.4	0.04	96.2		
19-Oct-20	Well Head	0	0	0	0	10	7.45	0.66	45.4	0.04	96.2		
26-Oct-20	1252 Westurne	0	0	0	0	9	7.32	0.47	44.8	0.04	95.1		
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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1-Sep-20	1263 Westurne	0	0	0	0	16	7.37	0.43	46.2	0.05	97.8	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/westurne-heights	
8-Sep-20	1252 Westurne	0	0	0	0	15	7.40	0.54	47.9	0.05	97.1		
15-Sep-20	Well Head	0	0	0	0	10	7.49	0.44	51.1	0.05	96.9		
21-Sep-20	Well Head			0	0	11	7.24	0.42	46.1	0.05	97.8		
28-Sep-20	1263 Westurne			0	0	17	7.41	0.54	54.7	0.05	98.1		
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-Aug-20	1063 Westurne Heights	0	0	0	0	14	7.04	0.41	47.1	0.05	100.0	Fe and Mn are no longer tested in-house. See Annual Tap Water Results at https://www.rdn.bc.ca/westurne-heights	
12-Aug-20	Well Head	0	0				7.12	0.48	44.5	0.04	94.2		
17-Aug-20	1260 Westurne Heights	0	0	0	0	11	7.41	0.48	45.6	0.04	96.8		
24-Aug-20	1252 Westurne Heights	0	0	0	0	14	7.16	0.42	42.1	0.04	96.1		
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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6-Jul-20	Well Head	0	0	0	0	9	7.01	0.37	47.1	0.04	98.1	0.12	0.001
13-Jul-20	1263 Westurne Heights	0	0	0	0	14	7.20	0.40	46.7	0.05	99.0		
20-Jul-20	Well Head	0	0	0	0	10	7.27	0.40	46.1	0.05	98.0		
27-Jul-20	1252 Westurne	0	0	0	0	14	6.99	0.75	46.3	0.05	98.3		
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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Comments:

Notes below about Manganese (2019) from: <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/reports-publications/water-quality/guidelines-canadian-drinking-water-quality-summary-table.html>

Type	Parameter (published, reaffirmed)	MAC (mg/L)	Other value (mg/L)	Common sources of parameter in water	Health considerations	Comments
I = Inorganic chemical parameter	Manganese (2019)	0.12	AO: <0.02	Dissolution of naturally-occurring minerals commonly found in soil and rock. Other sources include industrial discharge, mining activities and leaching from landfills.	Health Basis of MAC: Effects on neurological development and behaviour; deficits in memory, attention, and motor skills. Other: Formula-fed infants (where water containing manganese at levels above the MAC is used to prepare formula) may be especially at risk.	AO based on minimizing the occurrence of discoloured water, consumer complaints and staining of laundry.



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1-Jun-20	Well Head	0	0	0	0	10	7.00	0.41	45.6	0.04	96.8	0.11	0.001
8-Jun-20	1263 Westurne Heights	0	0	0	0	14	7.01	0.47	46.0	0.04	97.7		
15-Jun-20	Well Head	0	0	0	0	10	7.32	0.37	45.2	0.04	95.8		
22-Jun-20	1252 Westurne Heights	0	0	0	0	14	7.28	0.52	46.2	0.05	98.1		
29-Jun-20	1252 Westurne Heights			0	0	11	7.21	0.40	46.4	0.05	98.4		
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-May-20	Well Head	0	0	0	0	9	7.23	0.42	45.9	0.05	97.4	0.14	0.001
11-May-20	1263 Westurne Heights	0	0	0	0	11	7.58	0.44	46.0	0.05	97.5		
19-May-20	Well Head	0	0	0	0	10	7.37	0.41	45.3	0.04	96.2		
25-May-20	1252 Westurne Hights	0	0	0	0	11	7.24	0.43	45.7	0.04	97.1		
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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6-Apr-20	Well Head	0	0	0	0	8	7.08	0.40	54.9	0.05	120.1	0.13	0.007
14-Apr-20	1263 Westurne Heights	0	0	0	0	9	7.29	0.48	45.5	0.04	96.5		
20-Apr-20	Well Head	0	0	0	0	9	7.38	0.45	45.6	0.04	96.9		
27-Apr-20	1252 Westurne Heights	0	0	0	0	9	7.05	0.50	45.9	0.05	97.3		
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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2-Mar-20	Well Head	0	0	0	0	8	6.99	0.39	55.3	0.05	117.0	0.13	0.024
9-Mar-20	1263 Westurne Heights	0	0	0	0	5	7.50	0.50	46.2	0.05	98.0		
16-Mar-20	Well Head	0	0	0	0	8	7.31	0.50	45.9	0.05	97.4		
23-Mar-20	1252 Westurne Heights	0	0	0	0	6	7.62	0.50	45.6	0.05	96.8		
30-Mar-20	Well Head			0	0	8	7.25	0.86	46.4	0.05	98.4		
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-Feb-20	Well Head	0	0	0	0	8	7.02	0.38	50.0	0.05	98.9	0.10	0.019
10-Feb-20	1263 Westerne Heights	0	0	0	0	5	7.64	0.40	47.8	0.05	100.9		
18-Feb-20	Well Head	0	0	0	0	8	7.14	0.39	47.1	0.05	99.9		
24-Feb-20	1252 Westerne Heights	0	0	0	0	5	7.08	0.44	46.7	0.01	99.0		
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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6-Jan-20	Well Head	0	0	0	0	8	7.01	0.39	47.0	0.05	99.8	0.11	0.043
13-Jan-20	1263 Westurne Heights	0	0	0	0	5	7.08	0.35	47.6	0.05	100.9		
20-Jan-20	Well Head	0	0	0	0	8	7.09	0.37	50.0	0.05	99.7		
28-Jan-20	1252 Westurne Heights	0	0	0	0	6	6.99	0.48	46.6	0.05	99.1		
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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