



Regional District of Nanaimo - Water Services Department

Westerne Heights Water Analysis - 2019 Monthly Report



Date	Sample Location (Address)	Health Department		In-House									
		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)
2-Dec-19	Well Head	0	0	0	0	7	7.18	0.42	48.3	0.05	102.3	0.12	0.023
9-Dec-19	1263 Westerne Heights	0	0	0	0	6	7.32	0.47	47.6	0.05	100.9		
9-Dec-19	1252 Westerne Heights	0	0	0	0	7	7.30	0.40	49.6	0.05	101.9		
16-Dec-19	Well Head	0	0	0	0	8	7.34	0.11	48.1	0.05	100.1		
	Average	0	0	0	0	7.0	7.3	0.35	48.4	0.05	101.3	0.12	0.023
	Maximum	0	0	0	0	8	7.34	0.47	49.6	0.05	102.3	0.12	0.023
	Minimum	0	0	0	0	6	7.18	0.11	47.6	0.05	100.1	0.12	0.023

Red font indicates non-compliance with Canadian Drinking Water Guidelines

Aesthetic Objective for Iron is ≤0.3 mg/L

Aesthetic Objective for Manganese is ≤0.05mg/L

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

Yellow Column Coliform tests are completed by Health Department

Blue column tests are completed by RDN

Comments:

Iron and manganese are found naturally in drinking water. Levels found in these samples are not a health concern.



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4-Nov-19	Well Head	0	0	0	0	9	7.20	0.39	49.2	0.05	104.2	0.11	0.013
12-Nov-19	1263 Westerne Heights	0	0	0	0	10	7.10	0.28	49.7	0.05	105.3		
18-Nov-19	Well Head	0	0	0	0	9	7.18	0.39	48.7	0.05	103.4		
25-Nov-19	1252 Westerne Heights	0	0	0	0	9	7.10	0.41	48.2	0.05	102.0		
	Average	0	0	0	0	9.3	7.1	0.37	49.0	0.05	103.7	0.11	0.013
	Maximum	0	0	0	0	10	7.2	0.41	49.7	0.05	105.3	0.11	0.013
	Minimum	0	0	0	0	9	7.1	0.28	48.2	0.05	102	0.11	0.013

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2-Oct-19	1252 Westerne Heights	0	0	0	0	13	7.23	0.47	50.0	0.05	106.8	0.16	0.007
7-Oct-19	1263 Westerne Heights	0	0	0	0	13	7.27	0.43	49.8	0.05	105.5		
7-Oct-19	Well Head	0	0	0	0	9	7.23	0.42	50.7	0.05	107.5		
15-Oct-19	1252 Westerne Heights	0	0	0	0	10	7.40	0.56	50.2	0.05	106.4		
21-Oct-19	Well Head	0	0	0	0	9	7.15	0.42	49.6	0.05	105.1		
28-Oct-19	1252 Westerne Heights			0	0	9	7.28	0.45	49.4	0.05	104.8		
	Average	0	0	0	0	10.5	7.3	0.46	50.0	0.05	106.0	0.16	0.007
	Maximum	0	0	0	0	13	7.4	0.56	50.7	0.05	107.5	0.16	0.007
	Minimum	0	0	0	0	9	7.15	0.42	49.4	0.05	104.8	0.16	0.007

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3-Sep-19	1263 Westurne Heights	0	0	0	0	15	7.19	0.55	59.9	0.05	121.0	0.12	0.029
9-Sep-19	1252 Westurne Heights	0	0	0	0	15	7.60	0.50	49.8	0.05	105.4		
9-Sep-19	Well Head	0	0	0	0	9	7.61	0.44	59.0	0.05	114.0		
18-Sep-19	1263 Westurne Heights	0	0	0	0	15	7.32	0.47	50.7	0.05	107.5		
25-Sep-19	Well Head	0	0	0	0	9	7.05	0.44	50.0	0.05	106.0		
	Average	0	0	0	0	12.6	7.4	0.48	53.9	0.05	110.8	0.12	0.029
	Maximum	0	0	0	0	15	7.61	0.55	59.9	0.05	121	0.12	0.029
	Minimum	0	0	0	0	9	7.05	0.44	49.8	0.05	105.4	0.12	0.029

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6-Aug-19	1263 Westurne Heights	0	0	0	0	18	7.22	0.53	50.2	0.05	106.2	0.10	0.008
13-Aug-19	1252 Westurne Heights	0	0	0	0	18	7.12	0.45	55.9	0.05	118.3		
13-Aug-19	Well Head	0	0	0	0	10	7.16	0.44	49.8	0.05	105.1		
19-Aug-19	1263 Westurne Heights	0	0	0	0	16	7.41	0.51	53.9	0.05	114.0		
28-Aug-19	Well Head			0	0	8	7.30	0.46	49.4	0.05	105.0		
	Average	0	0	0	0	14.0	7.2	0.48	51.8	0.05	109.7	0.10	0.008
	Maximum	0	0	0	0	18	7.41	0.53	55.9	0.05	118.3	0.1	0.008
	Minimum	0	0	0	0	8	7.12	0.44	49.4	0.05	105	0.1	0.008

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2-Jul-19	1263 Westurne	0	0	0	0	17	7.55	0.75	50.6	0.05	107.6	0.10	0.020
9-Jul-19	1252 Westurne	0	0	0	0	13	7.40	0.61	50.8	0.05	107.8		
9-Jul-19	Well Head	0	0	0	0	12							
16-Jul-19	1263 Westurne	0	0	0	0	17	7.26	0.70	51.1	0.05	108.1		
23-Jul-19	Well Head			0	0	12	7.11	0.79	51.0	0.05	108.0		
30-Jul-19	1252 Westurne			0	0	13	7.18	0.57	49.7	0.05	105.5		
	Average	0	0	0	0	14.0	7.3	0.68	50.6	0.05	107.4	0.10	0.020
	Maximum	0	0	0	0	17	7.55	0.79	51.1	0.05	108.1	0.1	0.02
	Minimum	0	0	0	0	12	7.11	0.57	49.7	0.05	105.5	0.1	0.020

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3-Jun-19	Well Head	0	0	0	0	9	7.04	0.58	48.1	0.05	102.1	0.10	0.005
10-Jun-19	1252 Westurne Heights	0	0	0	0	14	7.16	0.57	48.7	0.05	103.3		
10-Jun-19	Well Head	0	0	0	0	9	7.16	0.53	48.2	0.05	102.3		
18-Jun-19	1263 Westurne Heights	0	0	0	0	17	7.06	0.61	48.4	0.05	102.6		
26-Jun-19	Well Head					9	7.12	0.40	48.0	0.05	101.7		
	Average	0	0	0	0	11.6	7.1	0.54	48.3	0.05	102.4	0.10	0.005
	Maximum	0	0	0	0	17	7.16	0.61	48.7	0.05	103.3	0.10	0.005
	Minimum	0	0	0	0	9	7.04	0.4	48.0	0.05	101.7	0.10	0.005

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6-May-19	1263 Westurne Heights	0	0	0	0	11	7.52	0.56	47.3	0.05	100.7	0.14	0.004
13-May-19	1252 Westurne Heights	0	0	0	0	10	7.13	0.51	47.6	0.05	101.0		
13-May-19	Well Head	0	0	0	0	9	7.15	0.55	47.3	0.05	100.2		
23-May-19	Well Head	0	0	0	0	10	7.19	0.55	49.0	0.05	103.0		
27-May-19	1252 Westurne Heights			0	0	15	7.05	0.61	47.9	0.05	101.6		
	Average	0	0	0	0	11.0	7.2	0.56	47.82	0.05	101.3	0.14	0.004
	Maximum	0	0	0	0	15	7.52	0.61	49	0.05	103	0.14	0.004
	Minimum	0	0	0	0	9	7.05	0.51	47.3	0.05	100.2	0.14	0.004

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1-Apr-19	Well Head	0	0	0	0	8	7.29	0.52	48.7	0.05	103.1	0.10	0.002
1-Apr-19	1252 Westurne Heights	0	0	0	0	8	7.28	0.56	46.1	0.05	102.5	0.10	0.002
8-Apr-19	1263 Westurne Heights	0	0	0	0	9	7.61	0.54	48.3	0.05	102.5		
15-Apr-19	1252 Westurne Heights			0	0	9	7.56	0.57	47.8	0.05	101.4		
23-Apr-19	Well Head	0	0	0	0	8	7.47	0.42	47.9	0.05	101.6		
29-Apr-19	1252 Westurne Heights			0	0	10	7.60	0.58	48.2	0.05	102.1		
	Average	0	0	0	0	8.7	7.5	0.53	47.8	0.05	102.2	0.10	0.002
	Maximum	0	0	0	0	10	7.61	0.58	48.7	0.05	103.1	0.1	0.002
	Minimum	0	0	0	0	8	7.28	0.42	46.1	0.05	101.4	0.1	0.002

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5-Mar-19	Well Head	0	0	0	0		7.20	0.58	48.9	0.05	103.5	0.13	0.002
5-Mar-19	1263 Westurne Heights	0	0	0	0	3	7.32	0.53	47.7	0.05	101.0	0.17	0.006
11-Mar-19	1252 Westurne Heights	0	0	0	0		7.41	0.60	47.9	0.05	101.5		
11-Mar-19	Well Head	0	0	0	0								
18-Mar-19	1263 Westurne Heights	0	0	0	0	4	7.48	0.55	48.2	0.05	102.2		
25-Mar-19	1252 Westurne Heights	0	0	0	0	7	7.67	0.56	48.3	0.05	102.4		
Average		0	0	0	0	4.7	7.4	0.56	48.2	0.05	102.1	0.15	0.004
Maximum		0	0	0	0	7	7.67	0.60	48.9	0.05	103.5	0.17	0.006
Minimum		0	0	0	0	3	7.2	0.53	47.7	0.05	101	0.13	0.002

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4-Feb-19	Well Head	0	0	0	0	7	7.26	0.52	48.0	0.05	101.8		
4-Feb-19	1252 Westurne Heights	0	0	0	0	5	7.26	0.50	47.7	0.05	101.1		
11-Feb-19	Well Head	0	0	0	0	7	7.30	0.49	47.7	0.05	101.1	0.14	0.031
11-Feb-19	1263 Westurne Heights	0	0	0	0	3	7.29	0.48	47.8	0.05	102.1	0.12	0.017
19-Feb-19	1252 Westurne Heights	0	0	0	0		7.35	0.56	48.2	0.05	102.3		
25-Feb-19	1263 Westurne Heights	0	0	0	0	3	7.51	0.62	48.7	0.05	103.2		
Average		0	0	0	0	5.0	7.3	0.53	48.0	0.05	101.9	0.13	0.024
Maximum		0	0	0	0	7	7.51	0.62	48.7	0.05	103.2	0.14	0.031
Minimum		0	0	0	0	3	7.26	0.48	47.7	0.05	101.1	0.12	0.017

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7-Jan-19	Well Head	0	0	0	0	7	7.26	0.41	48.0	0.05	101.7	0.15	0.028
7-Jan-19	1252 Westurne Heights	0	0	0	0	5	7.30	0.44	48.0	0.05	101.6	0.12	0.019
14-Jan-19	1263 Westurne Heights	0	0	0	0	6	7.24	0.47	47.9	0.05	101.7		
21-Jan-19	1252 Westurne Heights	0	0	0	0	5	7.00	0.50	47.5	0.05	100.8		
21-Jan-19	Well Head	0	0	0	0	7	7.09	0.45	48.0	0.05	101.9		
28-Jan-19	1263 Westurne Heights	0	0	0	0	7	7.20	0.57	48.0	0.05	113.0		
	Average	0	0	0	0	6	7.2	0.47	47.9	0.05	103.5	0.14	0.024
	Maximum	0	0	0	0	7	7.30	0.57	48	0.05	113	0.15	0.028
	Minimum	0	0	0	0	5	7	0.41	47.5	0.05	100.8	0.12	0.019

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