





# Regional District of Nanaimo - Water Services Department

## Nanoose Bay Peninsula Water Analysis - 2020 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)
8-Apr-20	1358 Madrona	0	0	0	0	9	7.18	0.40	58.2	0.06	123.1	0.03	0.001
8-Apr-20	2359 Higginson	0	0	0	0	9	8.07	0.56	47.8	0.05	101.1	0.04	0.002
8-Apr-20	2454 Armstrong	0	0	0	0	9	8.22	0.54	48.0	0.05	101.7	0.02	0.004
8-Apr-20	3500 Fairwinds			0	0	9	7.70	0.77	138.3	0.14	289.0	0.03	0.012
8-Apr-20	3541 Shelby			0	0	9	7.63	0.75	141.3	0.14	295.0	0.03	0.014
8-Apr-20	2339 Garry Oak			0	0	9	7.59	0.46	131.8	0.13	276.0	0.03	0.010
15-Apr-20	1566 Arbutus	0	0	0	0	10	7.12	0.83	67.6	0.07	143.0		
15-Apr-20	lot 51 Swallow	0	0	0	0	9	7.12	0.27	138.3	0.14	289.0		
15-Apr-20	3427 Tyee	OG	OG	0	0	11	7.15	0.90	141.1	0.14	290.0		
15-Apr-20	2315 Ida Lane	0	0	0	0	11	7.34	0.33	101.7	0.10	213.4		
15-Apr-20	3730 Fairwinds	0	0	0	0	10	7.29	0.83	139.1	0.14	291.0		
15-Apr-20	3383 Redden	0	0	0	0	11	7.34	0.89	138.4	0.14	292.0		
15-Apr-20	2329 Chain	0	0	0	0	9	7.39	0.35	136.0	0.14	285.0		
20-Apr-20	1565 Stonelake	0	0	0	0	10	7.20	0.92	59.9	0.06	132.0		
22-Apr-20	3427 Tyee. RE sam	0	0	0	0	11	7.29	0.79	144.0	0.13	300.0		
22-Apr-20	1639 Marina Way	0	0	0	0	11	6.84	0.43	108.0	0.11	227.0		
22-Apr-20	NB Elementry			0	0	10	6.93	1.33	130.6	0.13	273.0		
22-Apr-20	lot54 Evanshire	0	0	0	0	10	7.44	0.91	131.4	0.13	275.0		
22-Apr-20	1996 Highland	0	0	0	0	11	7.46	0.71	132.3	0.13	276.0		
22-Apr-20	Florence & Anchor	0	0	0	0	10	7.34	1.05	180.9	0.18	374.0		
29-Apr-20	1358 Madrona			0	0	10	6.61	0.35	100.4	0.10	211.2		
29-Apr-20	1270 Sea Dog	0	0	0	0	11	6.74	0.28	111.5	0.11	234.0		
29-Apr-20	2315 Ida Lane			0	0	11	6.87	0.24	143.6	0.14	300.0		
29-Apr-20	3500 Fairwinds	0	0	0	0	11	7.20	0.74	152.6	0.15	318.0		
29-Apr-20	3465 Cambridge	0	0	0	0	11	7.30	0.79	154.2	0.15	321.0		
29-Apr-20	3541 Shelby	0	0	0	0	11	7.34	0.78	150.1	0.14	300.0		
29-Apr-20	2339 Garry Oaks	0	0	0	0	10	7.39	0.81	140.2	0.14	294.0		
	Average	0	0	0	0	10.1	7.3	0.67	121.0	0.12	252.8	0.03	0.007
	Maximum	0	0	0	0	11	8.22	1.33	180.9	0.18	374.0	0.04	0.014
	Minimum	0	0	0	0	9	6.61	0.24	47.8	0.05	101.1	0.02	0.001

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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		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-Mar-20	1358 Madrona	0	0	0	0	8	6.72	0.39	73.0	0.07	154.1	0.03	0.001
4-Mar-20	2359 Higginson	0	0	0	0	8	6.74	0.62	93.2	0.09	196.0	0.02	0.002
4-Mar-20	3500 Fairwinds	0	0	0	0	8	7.10	0.94	147.8	0.15	309.0	0.04	0.007
4-Mar-20	3541 Shelby	0	0	0	0	8	7.17	0.87	142.7	0.14	298.0	0.03	0.010
4-Mar-20	2339 Garry Oak	0	0	0	0	8	7.27	0.92	140.7	0.14	294.0	0.03	0.024
4-Mar-20	2454 Armstrong	0	0	0	0	8	7.09	0.79	132.1	0.13	276.0	0.05	0.005
11-Mar-20	1566 Arbutus	0	0	0	0	8	6.61	0.50	84.9	0.08	178.9		
11-Mar-20	1270 Seadog	0	0	0	0	7	6.81	0.45	120.5	0.12	252.0		
11-Mar-20	3427 Tyee	0	0	0	0	7	6.67	0.75	90.1	0.09	208.0		
11-Mar-20	2315 Ida Lane	0	0	0	0	9	6.80	0.79	176.8	0.18	368.0		
11-Mar-20	3730 Fairwinds	0	0	0	0	8	7.15	0.85	170.1	0.17	354.0		
11-Mar-20	3383 Redden	0	0	0	0	8	7.21	0.87	170.9	0.17	363.0		
11-Mar-20	2329 Chain	0	0	0	0	8	7.35	0.89	128.0	0.13	268.0		
18-Mar-20	1565 Stonelake	0	0	0	0	9	6.65	0.80	87.7	0.09	184.4		
18-Mar-20	1639 Marina Way	0	0	0	0	8	6.67	0.49	89.2	0.09	187.8		
18-Mar-20	NB Elementry	0	0	0	0	8	7.01	0.86	151.1	0.15	315.0		
18-Mar-20	lot 54 Evanshire	0	0	0	0	8	6.78	0.73	154.9	0.15	324.0		
18-Mar-20	1996 Highland	0	0	0	0	9	6.94	0.43	149.9	0.15	313.0		
18-Mar-20	Florence & Anchor	0	0	0	0	7	7.09	0.63	150.9	0.15	314.0		
24-Mar-20	1358 Madrona			0	0	9	6.88	0.30	84.5	0.08	178.6		
24-Mar-20	lot 51 Swallow			0	0	8	6.91	0.20	153.2	0.15	320.0		
24-Mar-20	2315 Ida Lane			0	0	9	6.98	0.50	154.2	0.15	322.0		
24-Mar-20	3465 Cambridge			0	0	8	7.09	0.74	157.2	0.16	329.0		
24-Mar-20	2329 Chain			0	0	8	7.15	0.50	142.5	0.14	298.0		
31-Mar-20	1565 Stonelake			0	0	9	7.45	0.22	71.2	0.07	150.4		
31-Mar-20	1639 Marina Way			0	0	8	7.83	0.27	57.2	0.06	122.2		
31-Mar-20	NB Elementry			0	0	9	7.56	0.69	115.1	0.11	242.0		
31-Mar-20	lot 54 Evanshire			0	0	9	7.46	0.66	141.0	0.14	295.0		
31-Mar-20	1996 Highland			0	0	9	7.43	0.42	143.4	0.14	300.0		
31-Mar-20	Florence & Anchor			0	0	8	7.38	0.60	158.3	0.16	330.0		
	<b>Average</b>	0	0	0	0	8.2	7.1	0.62	127.7	0.13	268.1	0.03	0.008
	<b>Maximum</b>	0	0	0	0	9	7.83	0.94	176.8	0.18	368.0	0.05	0.024
	<b>Minimum</b>	0	0	0	0	7	6.61	0.2	57.2	0.06	122.2	0.02	0.001

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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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		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)
5-Feb-20	1358 Madrona	0	0	0	0	8	6.98	0.44	111.0	0.11	233.0	0.02	0.027
5-Feb-20	2359 Higginson	0	0	0	0	8	7.07	0.79	131.8	0.13	276.0	0.04	0.047
5-Feb-20	2454 Armstrong	0	0	0	0	7	7.20	0.70	139.9	0.15	321.0	0.04	0.037
5-Feb-20	3500 Fairwinds	0	0	0	0	7	7.24	0.81	180.7	0.18	326.0	0.04	0.055
5-Feb-20	3541 Shelby	0	0	0	0	8	7.30	0.80	178.9	0.18	372.0	0.04	0.057
5-Feb-20	2339 Garry Oak	0	0	0	0	8	7.26	1.07	187.7	0.19	390.0	0.04	0.050
12-Feb-20	1566 Arbutus	0	0	0	0	8	6.47	0.69	134.4	0.13	282.0		
12-Feb-20	1270 Sea Dog	0	0	0	0	8	6.60	0.70	131.9	0.13	277.0		
12-Feb-20	3427 Tyee	0	0	0	0	8	6.68	0.56	144.4	0.15	301.0		
12-Feb-20	2315 Ida Lane	0	0	0	0	8	6.74	0.46	166.4	0.17	346.0		
12-Feb-20	3730 Fairwinds	0	0	0	0	8	6.85	0.59	179.9	0.18	374.0		
12-Feb-20	3383 Redden	0	0	0	0	8	6.97	0.81	181.3	0.18	377.0		
12-Feb-20	2329 Chain	0	0	0	0	8	7.05	0.46	165.3	0.17	344.0		
19-Feb-20	1565 Stonelake	0	0	0	0	9	6.57	0.41	108.9	0.11	229.0		
19-Feb-20	1639 Marina Way	0	0	0	0	8	6.85	0.58	101.1	0.10	212.5		
19-Feb-20	NB Elmentry			0	0	9	6.89	1.06	160.5	0.16	335.0		
19-Feb-20	lot 54 Evanshire	0	0	0	0	8	7.20	0.75	146.7	0.15	306.0		
19-Feb-20	1996 Highland	0	0	0	0	8	7.30	0.38	151.1	0.15	315.0		
19-Feb-20	Florence & Anchor	0	0	0	0	7	7.39	0.66	142.0	0.14	296.0		
26-Feb-20	1358 Madrona			0	0	8	6.58	0.50	76.5	0.08	161.1		
26-Feb-20	lot 51 Swallow	0	0	0	0	7	6.75	0.15	151.0	0.15	315.0		
26-Feb-20	2315 Ida Lane			0	0	8	6.91	0.83	149.2	0.15	312.0		
26-Feb-20	3465 Cambridge	0	0	0	0	7	7.06	0.92	149.9	0.15	313.0		
26-Feb-20	2329 Chain			0	0	7	7.18	0.92	157.0	0.16	327.0		
	<b>Average</b>	0	0	0	0	8	7.0	0.67	147.0	0.15	305.9	0.04	0.046
	<b>Maximum</b>	0	0	0	0	9	7.39	1.07	187.7	0.19	390.0	0.04	0.057
	<b>Minimum</b>	0	0	0	0	7	6.47	0.15	76.5	0.08	161.1	0.02	0.027

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**Comments:**

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		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-Jan-20	1358 Madrona	0	0	0	0	9	7.48	0.75	198.5	0.20	412.0	0.01	0.032
8-Jan-20	2359 Higginson	0	0	0	0	8	7.54	0.59	132.7	0.13	278.0	0.02	0.038
8-Jan-20	2454 Armstrong	0	0	0	0	9	7.43	0.66	161.8	0.16	337.0	0.02	0.042
8-Jan-20	3500 Fairwinds	0	0	0	0	9	7.38	0.88	184.9	0.18	384.0	0.03	0.044
8-Jan-20	3541 Shelby	0	0	0	0	9	7.34	0.91	181.3	0.18	369.0	0.03	0.043
8-Jan-20	2339 Garry Oak	0	0	0	0	9	7.23	0.93	164.1	0.16	342.0	0.02	0.040
15-Jan-20	1566 Arbutus	0	0	0	0	8	6.56	0.47	131.7	0.13	276.0		
15-Jan-20	1639 Marina	0	0	0	0	7	7.09	0.61	126.9	0.13	265.0		
15-Jan-20	2315 Ida Lane	0	0	0	0	8	6.96	0.51	182.5	0.18	379.0		
15-Jan-20	3730 Fairwinds	0	0	0	0	7	7.08	0.79	157.1	0.16	328.0		
15-Jan-20	Florence & Anchor	0	0	0	0	7	7.10	0.58	147.3	0.15	307.0		
21-Jan-20	1565 Stonelake	0	0	0	0	8	6.52	0.60	123.7	0.12	259.0		
21-Jan-20	1270 Sea Dog	0	0	0	0	8	6.96	0.60	89.8	0.09	188.9		
21-Jan-20	3427 Tyee	0	0	0	0	7	6.99	0.83	100.2	0.10	230.0		
21-Jan-20	NB Elementry			0	0	8	7.04	0.96	188.1	0.19	391.0		
21-Jan-20	lot 54 Evanshire	0	0	0	0	8	7.15	0.95	157.4	0.16	329.0		
21-Jan-20	1996 Highland	0	0	0	0	8	7.16	0.54	152.3	0.15	325.0		
21-Jan-20	2329 Chain Way	0	0	0	0	8	7.15	0.39	153.5	0.15	320.0		
29-Jan-20	1358 Madrona			0	0	8	6.60	0.21	83.4	0.08	175.4		
29-Jan-20	lot 51 Swallow	0	0	0	0	6	6.70	0.21	110.3	0.11	231.0		
29-Jan-20	2315 Ida Lane			0	0	9	6.92	0.53	171.6	0.17	357.0		
29-Jan-20	3465 Cambridge	0	0	0	0	8	7.05	0.97	185.7	0.18	386.0		
29-Jan-20	3383 Redden	0	0	0	0	7	7.30	0.86	177.8	0.18	370.0		
29-Jan-20	Florence & Anchor			0	0	7	7.33	0.89	175.6	0.18	365.0		
	<b>Average</b>	0	0	0	0	7.9	7.1	0.68	151.6	0.15	316.8	0.02	0.040
	<b>Maximum</b>	0	0	0	0	9	7.54	0.97	198.5	0.2	412.0	0.03	0.044
	<b>Minimum</b>	0	0	0	0	6	6.52	0.21	83.4	0.08	175.4	0.01	0.032

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