



Regional District of Nanaimo - Water Services Department

Nanoose Bay Peninsula Water Analysis - 2018 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)
7-Nov-18	1358 Madrona	0	0	0	0	13	7.37	0.47	187.4	0.19	389.0	0.02	0.009
7-Nov-18	3427 Tye	0	0	0	0	12	7.69	0.29	230.0	0.23	476.0	0.02	0.021
7-Nov-18	1270 Sea Dog	0	0	0	0	12	7.60	1.18	245.0	0.24	507.0	0.04	0.013
7-Nov-18	2454 Armstrong	0	0	0	0	13	7.68	0.44	246.0	0.25	508.0	0.07	0.008
7-Nov-18	3500 Fairwind	0	0	0	0	12	7.74	1.00	237.0	0.24	490.0	0.04	0.025
7-Nov-18	1996 Highland	0	0	0	0	13	7.73	0.41	234.0	0.23	483.0	0.02	0.024
7-Nov-18	2329 Chain	0	0	0	0	11	7.64	0.31	188.8	0.19	392.0	0.05	0.005
13-Nov-18	1565 Madrona	0	0	0	0	13	7.61	0.61	194.9	0.19	404.0		
13-Nov-18	2359 Higginson	0	0	0	0	11	7.80	0.41	175.1	0.17	364.0		
13-Nov-18	2315 Ida Lane	0	0	0	0	13	7.66	0.30	256.0	0.26	529.0		
13-Nov-18	lot 54 Evanshire	0	0	0	0	12	7.66	0.99	250.0	0.25	517.0		
13-Nov-18	3383 Redden	0	0	0	0	12	7.63	0.25	249.0	0.25	515.0		
13-Nov-18	2339 Garry Oak	0	0	0	0	11	7.61	1.75	253.0	0.25	522.0		
21-Nov-18	1566 Arbutus	0	0	0	0	11	7.65	0.81	183.6	0.18	381.0		
21-Nov-18	Lot 51 Swallow	0	0	0	0	9	7.64	0.03	233.0	0.23	481.0		
21-Nov-18	NB Elementary			0	0	10	7.67	1.60	257.0	0.26	531.0		
21-Nov-18	3730 Fairwinds	0	0	0	0	10	7.73	0.72	254.0	0.25	523.0		
21-Nov-18	3541 Shelby	0	0	0	0	10	7.74	0.91	254.0	0.25	523.0		
21-Nov-18	Florence & Anchor	0	0	0	0	10	7.70	0.37	252.0	0.25	519.0		
28-Nov-18	1358 Madrona			0	0	11	7.26	0.56	187.1	0.19	389.0		
28-Nov-18	1639 Marina	0	0	0	0	10	7.73	0.59	180.1	0.18	374.0		
28-Nov-18	2454 Armstrong			0	0	10	7.63	0.80	257.0	0.26	530.0		
28-Nov-18	3465 Cambridge	0	0	0	0	10	7.63	1.09	256.0	0.26	524.0		
28-Nov-18	2329 Chain			0	0	9	7.68	0.26	231.0	0.23	478.0		
	Average	0	0	0	0	11.2	7.6	0.67	228.8	0.2	472.9	0.04	0.015
	Maximum	0	0	0	0	13	7.8	1.75	257.0	0.26	531.0	0.07	0.025
	Minimum	0	0	0	0	9	7.26	0.03	175.1	0.17	364.0	0.02	0.005

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)
3-Oct-18	1565 Stonelake	0	0	0	0	15	7.35	0.31	112.3	0.11	235.0	0.03	0.033
3-Oct-18	3427 Tye	0	0	0	0	15	7.46	0.09	188.8	0.19	392.0	0.03	0.029
3-Oct-18	1270 Sea Dog	0	0	0	0	15	7.31	0.26	88.6	0.09	186.1	0.05	0.018
3-Oct-18	2454 Armstrong	0	0	0	0	16	7.46	0.26	132.3	0.13	277.0	0.06	0.025
3-Oct-18	3500 Fairwinds	0	0	0	0	13	7.49	0.73	186.8	0.19	387.0	0.05	0.041
3-Oct-18	1996 Highland	0	0	0	0	17	7.50	0.22	177.5	0.18	369.0	0.04	0.037
3-Oct-18	2339 Garry Oak	0	0	0	0	14	7.48	0.87	192.2	0.19	398.0	0.04	0.022
10-Oct-18	1566 Arbutus	0	0	0	0	14	7.18	0.16	79.5	0.08	167.6		
10-Oct-18	2359 Higginson	0	0	0	50	14	7.08	0.02	61.5	0.06	130.0		
10-Oct-18	2315 Ida Lane	0	0	0	1	16	7.56	0.02	81.7	0.08	172.4		
10-Oct-18	Lot 54 Evanshire	0	0	0	0	14	7.46	0.35	159.9	0.16	332.0		
10-Oct-18	3383 Redden	0	0	0	0	15	7.53	0.14	155.1	0.15	324.0		
10-Oct-18	Florence & Anchor	0	0	0	0	14	7.39	0.15	171.8	0.17	357.0		
17-Oct-18	1358 Madrona	0	0	0	0	15	7.37	0.42	91.3	0.09	191.7		
17-Oct-18	Lot 51 Swallow	0	0	0	0	13	7.46	0.01	105.5	0.10	222.0		
17-Oct-18	NB Elementary			0	0	12	7.44	0.87	120.5	0.12	252.0		
17-Oct-18	3730 Fairwinds	0	0	0	0	15	7.55	0.25	161.7	0.16	337.0		
17-Oct-18	3541 Shelby	0	0	0	0	14	7.62	0.44	166.6	0.17	347.0		
17-Oct-18	2329 Chain	0	0	0	0	12	7.53	0.01	155.0	0.15	323.0		
24-Oct-18	1565 Stonelake			0	0	13	7.51	0.29	123.4	0.12	258.0		
24-Oct-18	1639 Marina	0	0	0	0	12	7.43	0.35	73.5	0.07	155.2		
24-Oct-18	2454 Armstrong			0	0	14	7.19	0.41	151.5	0.15	315.0		
24-Oct-18	3465 Cambridge	0	0	0	0	12	7.63	0.82	199.8	0.20	415.0		
24-Oct-18	2339 Garry Oak			0	0	12	7.49	0.67	170.2	0.17	354.0		
31-Oct-18	1566 Arbutus			0	0	13	7.43	0.98	188.6	0.19	392.0		
31-Oct-18	Lot 51 Swallow			0	0	12	7.49	0.02	175.4	0.17	365.0		
31-Oct-18	2315 Ida Lane			0	0	14	7.61	0.10	204.5	0.20	424.0		
31-Oct-18	Lot 54 Evanshire			0	0	12	7.64	0.97	209.0	0.21	434.0		
31-Oct-18	Florence & Anchor			0	0	13	7.51	0.58	208.7	0.21	433.0		
	Average	0	0	0	1.76	13.8	7.5	0.37	148.0	0.15	308.4	0.04	0.029
	Maximum	0	0	0	50	17	7.64	0.98	209	0.21	434	0.06	0.041
	Minimum	0	0	0	0	12	7.08	0.01	61.5	0.06	130	0.03	0.018

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.

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.



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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-Sep-18	1358 Madrona	0	0	0	0	17	7.45	0.60	88.5	0.09	186.2	0.03	0.020
5-Sep-18	3427 Tye	0	0	0	0	17	7.55	0.32	144.5	0.14	301.0	0.04	0.029
5-Sep-18	1270 Sea Dog	0	0	0	0	18	7.42	0.20	81.7	0.08	172.2	0.04	0.035
5-Sep-18	2315 Ida Lane	0	0	0	0	19	7.53	0.26	127.1	0.13	266.0	0.07	0.016
5-Sep-18	3500 Fairwinds	0	0	0	0	15	7.61	0.73	144.1	0.14	301.0	0.03	0.035
5-Sep-18	1996 Highland	0	0	0	0	19	7.59	0.48	148.4	0.15	310.0	0.05	0.026
5-Sep-18	2329 Chain	0	0	0	0	15	7.54	0.36	138.2	0.14	289.0	0.02	0.022
12-Sep-18	1565 Stonelake	0	0	0	0	17	7.56	0.33	112.7	0.11	236.0		
12-Sep-18	2359 Higginson	0	0	0	0	17	7.42	0.25	67.0	0.07	141.6		
12-Sep-18	Lot 51 Swallow	0	0	0	0	17	7.52	0.02	119.4	0.12	250.0		
12-Sep-18	2454 Armstrong	0	0	0	0	17	7.50	0.12	72.6	0.07	153.1		
12-Sep-18	Lot 54 Evanshire	0	0	0	0	16	7.57	0.54	121.3	0.12	254.0		
12-Sep-18	3383 Redden	0	0	0	0	19	7.57	0.28	114.3	0.11	240.0		
12-Sep-18	2339 Garry Oak	0	0	0	0	16	7.49	0.58	123.3	0.12	258.0		
19-Sep-18	1566 Arbutus	0	0	0	0	16	7.45	0.38	91.7	0.09	192.9		
19-Sep-18	Lot 51 Swallow	0	0	0	6	16	7.58	0.01	138.6	0.14	290.0		
19-Sep-18	NB Elementary			0	0	14	7.50	0.84	138.7	0.14	290.0		
19-Sep-18	3730 Fairwinds	0	0	0	0	17	7.58	0.38	148.4	0.15	310.0		
19-Sep-18	3541 Shelby	0	0	0	0	16	7.58	0.45	145.9	0.14	305.0		
19-Sep-18	Florence & Anchor	0	0	0	0	16	7.48	0.11	133.3	0.13	279.0		
25-Sep-18	1358 Madrona			0	0	15	7.58	0.35	141.6	0.14	296.0		
25-Sep-18	1639 Marina			0	0	16	7.60	0.31	61.0	0.06	129.0		
25-Sep-18	Lot 51 Swallow			0	6	16	7.61	0.04	138.9	0.14	291.0		
25-Sep-18	2315 Ida Lane			0	16	17	7.73	0.20	158.1	0.16	330.0		
25-Sep-18	3465 Cambridge			0	0	16	7.66	0.66	167.3	0.17	348.0		
27-Sep-18	2315 Ida Lane			0	0			0.05					
	Average	0	0	0	1	16.6	7.5	0.34	122.7	0.12	256.8	0.04	0.026
	Maximum	0	0	0	16	19	7.73	0.84	167.3	0.17	348.0	0.07	0.035
	Minimum	0	0	0	0	14	7.42	0.01	61.0	0.06	129	0.02	0.016

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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)
8-Aug-18	1566 Arbutus	0	0	0	0	18	7.08	0.67	95.5	0.09	200.4	0.04	0.050
8-Aug-18	3427 Tye	0	0	0	0	19	7.21	0.31	143.1	0.14	299.0	0.05	0.016
8-Aug-18	1270 Sea Dog	0	0	0	0	19	7.07	0.40	60.9	0.06	128.8	0.06	0.015
8-Aug-18	2454 Armstrong	0	0	0	0	18	7.07	0.25	92.9	0.09	195.5	0.07	0.016
8-Aug-18	3500 Fairwinds	0	0	0	0	18	7.37	0.71	145.4	0.14	304.0	0.05	0.016
8-Aug-18	1996 Highland	0	2	0	0	19	7.39	0.65	142.8	0.14	298.0	0.07	0.038
8-Aug-18	Florence & Anchor	0	0	0	0	17	7.35	0.79	146.5	0.15	305.0	0.05	0.030
15-Aug-18	1358 Madrona	0	0	0	0	17.5	6.99	0.53	81.3	0.08	171.5		
15-Aug-18	2359 Higginson	0	5	0	55	17	6.99	0.38	65.7	0.06	139.3		
15-Aug-18	2315 Ida lane	0	0	0	0	18	7.02	0.25	69.7	0.07	147.5		
15-Aug-18	Lot 54 Evanshire	0	0	0	0	16.5	7.25	0.61	134.4	0.13	281.0		
15-Aug-18	3383 Redden	0	0	0	0	17.5	7.34	0.59	137.4	0.13	282.0		
15-Aug-18	2329 Chain	0	0	0	0	14.5	7.35	1.05	224.0	0.22	464.0		
22-Aug-18	1565 Stonelake		A*	0	0	16	7.80	1.42	177.9	0.18	371.0		
22-Aug-18	Lot 51 Swallow		A*	0	58	19	7.62	0.02	131.8	0.13	276.0		
22-Aug-18	2359 Higginson		A*	0	0	17	7.47	0.69	63.3	0.06	133.8		
22-Aug-18	NB Elementary			0	0	13	7.49	1.38	191.5	0.19	398.0		
22-Aug-18	3730 Fairwinds		A*	0	0	17	7.62	0.59	135.7	0.13	284.0		
22-Aug-18	3541 Shelby		A*	0	0	18	7.59	0.63	136.5	0.14	286.0		
22-Aug-18	2339 Garry Oak		A*	0	0	14	7.54	1.53	235.0	0.23	487.0		
28-Aug-18	1566 Arbutus			0	0	17	6.94	0.65	80.9	0.08	170.6		
28-Aug-18	1639 Marina	0	0	0	0	17	7.01	0.68	62.7	0.06	132.4		
28-Aug-18	Lot 51 Swallow	0	1	0	15	18.5	7.32	0.02	128.5	0.13	270.0		
28-Aug-18	2454 Armstrong			0	0	18	7.05	0.42	75.0	0.07	158.2		
28-Aug-18	3465 Cambridge	0	0	0	0	16	7.40	0.76	133.3	0.13	279.0		
28-Aug-18	Florence & Anchor			0	0	17	7.34	0.40	139.5	0.14	292.0		
	Average	0	0.50	0	4.92	17.2	7.3	0.63	124.3	0.12	259.8	0.06	0.026
	Maximum	0	5	0	58	19	7.80	1.53	235.0	0.23	487.0	0.07	0.050
	Minimum	0	0	0	0	13	6.94	0.02	60.9	0.06	128.8	0.04	0.015

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A*: Sample not tested; too long in transit

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.

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.



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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-Jul-18	1565 Stonelake	0	0	0	0	14	7.49	0.32	180.1	0.18	374.0	0.00	0.031
4-Jul-18	3427 Tye	0	0	0	0	17	7.39	0.33	139.2	0.14	289.0	0.05	0.032
4-Jul-18	1270 Sea Dog	0	0	0	0	16	7.41	0.66	140.4	0.15	300.0	0.04	0.036
4-Jul-18	2454 Armstrong	0	0	0	0	15	7.44	0.42	90.4	0.09	190.0	0.03	0.010
4-Jul-18	3500 Fairwinds	0	0	0	0	14	7.42	0.78	138.3	0.14	289.0	0.05	0.000
4-Jul-18	1996 Highland	0	0	0	0	17	7.41	0.56	141.3	0.14	296.0	0.06	0.000
4-Jul-18	2329 Chain	0	0	0	0	15	7.35	1.04	179.3	0.18	373.0	0.04	0.000
11-Jul-18	1566 Arbutus	0	0	0	0	16	6.93	0.35	78.9	0.08	166.2		
11-Jul-18	2359 Higginson	0	120	0	>100	15	6.99	0.43	62.9	0.06	132.7		
11-Jul-18	2315 Ida Lane	0	0	0	0	16	7.49	0.32	94.3	0.09	198.2		
11-Jul-18	Lot 54 Evanshire	0	0	0	0	16	7.41	0.35	135.8	0.13	284.0		
11-Jul-18	3383 Redden	0	0	0	0	17	7.48	0.69	147.9	0.15	309.0		
11-Jul-18	2339 Garry Oak	0	0	0	0	13	7.51	1.19	147.3	0.15	307.0		
12-Jul-18	2359 Higginson			0	0								
18-Jul-18	1358 Madrona	0	0	0	0	17	7.37	0.25	86.0	0.08	181.1		
18-Jul-18	2359 Higginson	0	0	0	0	16	7.21	0.29	64.8	0.06	136.9		
18-Jul-18	Lot 51 Swallow	0	0	0	0	18	7.26	0.01	133.4	0.13	278.0		
18-Jul-18	NB Elementary			0	0	15	7.22	0.93	126.0	0.12	264.0		
18-Jul-18	3730 Fairwinds	0	0	0	0	17	7.29	0.57	126.3	0.13	264.0		
18-Jul-18	3541 Shelby	0	0	0	0	16	7.32	0.59	126.1	0.12	264.0		
18-Jul-18	Florence & Anchor	0	0	0	0	17	7.26	0.51	153.4	0.15	321.0		
25-Jul-18	1565 Stonelake			0	0	17	7.21	0.73	127.1	0.13	266.0		
25-Jul-18	1639 Marina	0	0	0	0	18	7.15	0.62	60.2	0.06	127.2		
25-Jul-18	2454 Armstrong			0	0	17	7.07	0.27	76.5	0.08	161.4		
25-Jul-18	3465 Cambridge	0	0	0	0	17	7.20	0.61	127.9	0.13	267.0		
25-Jul-18	2329 Chain			0	0	15	7.29	0.91	157.7	0.16	329.0		
31-Jul-18	1565 Stonelake			0	0	18	7.01	0.54	79.9	0.08	168.5		
31-Jul-18	Lot 51 Swallow			0	0	19	7.19	0.02	139.3	0.14	291.0		
31-Jul-18	2315 Ida Lane			0	0	19	7.25	0.23	77.4	0.08	163.1		
31-Jul-18	Lot 54 Evanshire			0	0	17	7.36	0.55	131.6	0.13	275.0		
31-Jul-18	2339 Garry Oak			0	0	16	7.30	0.81	133.7	0.13	280.0		
	Average	0	5.7	0	0	16.3	7.29	0.53	120.1	0.12	251.5	0.04	0.016
	Maximum	0	120	0	0	19	7.51	1.19	180.1	0.18	374.0	0.06	0.036
	Minimum	0	0	0	0	13	6.93	0.01	60.2	0.06	127.2	0.00	0.000

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Comments:

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

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.



Regional District of Nanaimo - Water Services Department

Nanoose Bay Peninsula Water Analysis - 2018 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)
6-Jun-18	1358 Madrona	0	0	0	0	14	6.94	0.66	68.4	0.07	144.2		
6-Jun-18	3427 Tye	0	0	0	0	16	7.26	0.33	144.3	0.14	302.0		
6-Jun-18	1270 Sea Dog	0	0	0	0	15	7.10	0.70	69.0	0.07	123.6		
6-Jun-18	2315 Ida Lane	0	0	0	0	15	7.27	0.48	105.1	0.10	221.0		
6-Jun-18	3500 Fairwinds	0	0	0	0	15	7.39	0.75	144.0	0.14	300.0		
6-Jun-18	1996 Highland	0	0	0	0	16	7.30	0.56	144.6	0.14	300.3		
6-Jun-18	Florence & Anchor	0	0	0	0	15	7.25	0.61	147.8	0.15	308.0		
13-Jun-18	1565 Stonelake	0	0	0	0	14	7.33	0.09	127.4	0.13	266.0	0.03	0.028
13-Jun-18	2359 Higginson	0	0	0	1	14	7.18	0.47	54.7	0.05	115.8	0.02	0.008
13-Jun-18	2454 Armstrong	0	0	0	0	14	7.19	0.42	104.3	0.10	219.0	0.05	0.027
13-Jun-18	Lot 54 Evanshire	0	0	0	0	14	7.35	0.67	129.8	0.13	272.0	0.03	0.025
13-Jun-18	3383 Redden	0	0	0	0	16	7.35	0.58	138.7	0.14	290.0	0.04	0.009
13-Jun-18	2329 Chain	0	0	0	0	13	7.31	0.95	166.1	0.17	346.0	0.07	0.024
20-Jun-18	1566 Arbutus	0	0	0	0	15	7.35	0.35	80.3	0.08	169.7		
20-Jun-18	lot 51 Swallow	0	0	0	0	15	7.35	0.08	141.9	0.14	297.0		
20-Jun-18	NB Elementry			0	0	12	7.38	1.26	169.1	0.17	353.0		
20-Jun-18	3730 Fairwinds	0	0	0	0	15	7.52	0.75	139.2	0.15	291.0		
20-Jun-18	3541 Shelby	0	0	0	0	14	7.41	0.73	139.2	0.14	292.0		
20-Jun-18	2339 Garry Oak	0	0	0	0	13	7.42	1.27	178.1	0.18	370.0		
27-Jun-18	1358 Madrona			0	0		7.18	0.44	88.1	0.09	185.5		
27-Jun-18	1639 Marina	0	0	0	0		7.19	0.68	57.6	0.06	121.9		
27-Jun-18	2315 Ida Lane			0	0		7.28	0.23	96.5	0.10	202.8		
27-Jun-18	3465 Cambridge	0	0	0	0		7.35	0.63	140.9	0.14	294.0		
27-Jun-18	Florence & Anchor			0	0		7.30	0.38	147.5	0.15	308.0		
	Average	0	0	0	0.04	14.5	7.3	0.59	121.8	0.12	253.9	0.04	0.020
	Maximum	0	0	0	1	16	7.52	1.27	178.1	0.18	370.0	0.07	0.028
	Minimum	0	0	0	0	12	6.94	0.08	54.7	0.05	115.8	0.02	0.008

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.

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.



Regional District of Nanaimo - Water Services Department

Nanoose Bay Peninsula Water Analysis - 2018 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-May-18	1566 Arbutus	0	0	0	0	11	7.19	0.70	187.6	0.19	390.0	0.02	0.029
2-May-18	Lot 51 Swallow	0	0	0	0	10	7.50	0.02	211.0	0.21	436.0	0.00	0.031
2-May-18	1270 Sea Dog	0	0	0	0	12	7.26	0.61	194.1	0.19	403.0	0.04	0.022
2-May-18	2315 Ida Lane	0	0	0	0	11	7.53	0.60	211.3	0.21	438.0	0.05	0.027
2-May-18	3500 Fairwinds	0	0	0	0	12	7.49	0.92	202.0	0.20	420.0	0.06	0.042
2-May-18	3383 Redden	0	0	0	0	13	7.56	0.74	210.0	0.21	435.0	0.02	0.017
2-May-18	2329 Chain	0	0	0	0	11	7.34	1.16	194.2	0.19	403.0	0.04	0.037
9-May-18	1358 Madrona	0	0	0	0	13	7.45	0.54	156.3	0.16	326.0		
9-May-18	3427 Tye	0	0	0	0	13	7.44	0.53	194.4	0.19	404.0		
9-May-18	2454 Armstrong	0	0	0	0	11	7.47	0.80	211.0	0.21	437.0		
9-May-18	Lot 54 Evanshire	0	0	0	0	12	7.37	0.90	202.7	0.20	421.0		
9-May-18	1996 Highland	0	0	0	0	13	7.69	0.79	210.0	0.21	434.0		
9-May-18	Florence & Anchor	0	0	0	0	12	7.49	0.62	203.0	0.20	421.0		
16-May-18	1358 Madrona	0	0	0	0		7.00	0.41	56.9	0.06	120.4		
16-May-18	2359 Higginson	0	0	0	0		6.92	0.44	56.0	0.06	118.4		
16-May-18	NB Elementary			0	0		7.20	0.85	127.5	0.13	267.0		
16-May-18	3730 Fairwinds	0	0	0	0		7.33	0.58	142.7	0.14	298.0		
16-May-18	3541 Shelby	0	0	0	0		7.26	0.56	144.0	0.14	301.0		
16-May-18	2339 Garry Oak	0	0	0	0		7.31	1.27	169.7	0.17	353.0		
23-May-18	1565 Stonelake	0	0	0	0	13	7.15	0.46	78.6	0.08	165.7		
23-May-18	1639 Marina	0	0	0	0	13	6.95	0.79	49.5	0.05	104.9		
23-May-18	2315 Ida Lane			0	0	13	7.26	0.31	93.4	0.09	196.4		
23-May-18	3465 Cambridge	0	0	0	0	13	7.33	0.75	136.4	0.14	285.0		
23-May-18	2329 Chain			0	0	13	7.25	0.96	161.3	0.16	337.0		
30-May-18	1566 Arbutus			0	0	14	6.87	0.68	74.7	0.07	157.7		
30-May-18	Lot 51 Swallow			0	0	15	7.21	0.03	129.0	0.13	270.0		
30-May-18	2454 Armstrong			0	0	13	7.04	0.50	98.6	0.10	207.1		
30-May-18	3541 Shelby			0	0	14	7.31	0.76	135.2	0.13	283.0		
30-May-18	2339 Garry Oak			0	0	14	7.25	0.95	137.0	0.14	286.0		
	Average	0	0	0	0	12.6	7.3	0.66	151.0	0.15	314.4	0.03	0.029
	Maximum	0	0	0	0	15	7.69	1.27	211.3	0.21	438.0	0.06	0.042
	Minimum	0	0	0	0	10	6.87	0.02	49.5	0.05	104.9	0.00	0.017

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.



Regional District of Nanaimo - Water Services Department

Nanoose Bay Peninsula Water Analysis - 2018 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)
4-Apr-18	1358 Madrona	0	0	0	0	10	7.23	0.50	186.2	0.19	387.0	0.01	0.066
4-Apr-18	3427 Tye	0	0	0	0	8.5	7.07	0.29	207.2	0.21	429.0	0.07	0.023
4-Apr-18	1270 Sea Dog	0	0	0	0	9	7.19	0.77	192.2	0.19	401.0	0.02	0.023
4-Apr-18	2454 Armstrong	0	0	0	0	8	7.09	1.26	213.2	0.21	442.0	0.06	0.015
4-Apr-18	3500 Fairwinds	0	0	0	0	9	7.24	0.12	205.0	0.20	424.0	0.05	0.000
4-Apr-18	1996 Highland	0	0	0	0	9.5	7.17	0.68	208.1	0.21	432.0	0.02	0.000
4-Apr-18	2329 Chain	0	0	0	0	9	7.19	0.38	207.0	0.21	428.0	0.05	0.033
11-Apr-18	1565 Stonelake	0	0	0	0	10	7.18	0.33	198.0	0.20	411.0		
11-Apr-18	2359 Higginson	0	0	0	0	9	7.01	0.78	171.3	0.17	357.0		
11-Apr-18	2315 Ida Lane	0	0	0	0	10	7.19	0.74	211.0	0.21	437.0		
11-Apr-18	Lot 54 Evanshire	0	0	0	0	10	7.27	0.82	204.5	0.20	425.0		
11-Apr-18	3383 Redden	0	0	0	0	10	7.27	0.71	204.0	0.20	420.0		
11-Apr-18	Florence & Anchor	0	0	0	0	9	7.15	0.82	210.0	0.21	435.0		
17-Apr-18	1566 Arbutus	0	0	0	0	8	7.28	0.70	176.2	0.18	367.0		
17-Apr-18	Lot 51 Swallow	0	0	0	0	8	7.07	0.09	203.0	0.20	420.0		
17-Apr-18	NB Elementary			0	0	8	6.99	1.42	210.3	0.21	436.0		
17-Apr-18	3730 Fairwinds	0	0	0	0	9	6.92	0.67	211.0	0.21	436.0		
17-Apr-18	3541 Shelby	0	0	0	0	8	7.04	0.67	207.0	0.21	428.0		
17-Apr-18	2339 Garry Oak	0	0	0	0	8	6.97	1.17	209.1	0.21	433.0		
25-Apr-18	1358 Madrona			0	0	11	7.69	0.20	188.5	0.19	391.0		
25-Apr-18	1639 Marina	0	0	0	0	10	7.40	1.09	212.9	0.21	442.0		
25-Apr-18	2454 Armstrong			0	0	10	7.37	0.99	213.0	0.21	442.0		
25-Apr-18	3465 Cambridge	0	0	0	0	11	7.46	0.85	213.3	0.21	443.0		
25-Apr-18	2329 Chain			0	0	10	7.42	0.36	211.0	0.21	436.0		
	Average	0	0	0	0	9.3	7.2	0.68	203.0	0.20	420.9	0.04	0.023
	Maximum	0	0	0	0	11	7.69	1.42	213.3	0.21	443.0	0.07	0.066
	Minimum	0	0	0	0	8	6.92	0.09	171.3	0.17	357.0	0.01	0.000

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.



Regional District of Nanaimo - Water Services Department

Nanoose Bay Peninsula Water Analysis - 2018 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)
7-Mar-18	1566 Arbutus	0	0	0	0	8	7.26	0.73	181.5	0.18	378.0	0.00	0.073
7-Mar-18	3427 Tye	0	0	0	0	7	7.33	0.11	209.8	0.21	436.0	0.05	0.001
7-Mar-18	1270 Sea Dog	0	0	0	0	7	7.31	0.59	188.7	0.19	392.0	0.05	0.030
7-Mar-18	2315 Ida Lane	0	0	0	0	9	7.30	0.68	210.0	0.21	436.0	0.07	0.019
7-Mar-18	3500 Fairwinds	0	0	0	0	8	7.29	0.89	210.0	0.21	433.0	0.04	0.000
7-Mar-18	1996 Highland	0	0	0	0	8	7.32	0.54	211.3	0.21	438.0	0.03	0.000
7-Mar-18	2339 Garry Oak	0	0	0	0	9	7.18	1.17	208.0	0.21	433.0	0.06	0.008
14-Mar-18	1358 Madrona	0	0	0	0	8	7.32	0.60	186.0	0.19	384.0		
14-Mar-18	2359 Higginson	0	0	0	0	7	7.54	0.60	177.7	0.18	370.0		
14-Mar-18	2454 Armstrong	0	0	0	0	7	7.38	0.73	208.0	0.21	431.0		
14-Mar-18	Lot 54 Evanshire	0	0	0	0	9	7.37	1.01	205.7	0.21	427.0		
14-Mar-18	3383 Redden	0	0	0	0	8	7.36	0.77	208.0	0.21	430.0		
14-Mar-18	2329 Chain	0	0	0	0	7	7.31	0.44	210.5	0.21	437.0		
21-Mar-18	1565 Stonelake	0	0	0	0	10	7.13	0.24	189.2	0.19	393.0		
21-Mar-18	Lot 51 Swallow	0	0	0	0	6	7.26	0.03	205.2	0.20	428.0		
21-Mar-18	NB Elementary			0	0	11	7.23	1.65	208.0	0.21	429.0		
21-Mar-18	3730 Fairwinds	0	0	0	0	10	7.27	0.79	205.7	0.21	428.0		
21-Mar-18	3541 Shelby	0	0	0	0	9	7.28	0.83	201.0	0.20	420.0		
21-Mar-18	Florence & Anchor	0	0	0	0	8	7.35	0.56	211.2	0.21	438.0		
27-Mar-18	1566 Arbutus			0	0	9	7.20	0.65	178.4	0.18	376.0		
27-Mar-18	1639 Marina	0	0	0	0	8	7.40	0.60	185.7	0.18	387.0		
27-Mar-18	2315 Ida Lane			0	0	9	7.28	0.92	212.0	0.21	438.0		
27-Mar-18	3465 Cambridge	0	0	0	0	9	7.35	0.85	202.2	0.20	430.0		
27-Mar-18	2339 Garry Oak			0	0	9	7.25	1.14	207.0	0.21	429.0		
	Average	0	0	0	0	8.3	7.3	0.71	200.9	0.20	417.5	0.04	0.019
	Maximum	0	0	0	0	11	7.54	1.65	212.0	0.21	438.0	0.07	0.073
	Minimum	0	0	0	0	6	7.13	0.03	177.7	0.18	370.0	0.00	0.000

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.



Regional District of Nanaimo - Water Services Department

Nanoose Bay Peninsula Water Analysis - 2018 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)
7-Feb-18	1565 Stonelake	0	0	0	0	9	7.25	0.71	232.0	0.23	480.0	0.03	0.077
7-Feb-18	3427 Tye	0	0	0	0	8	7.36	0.36	235.0	0.23	486.0	0.05	0.088
7-Feb-18	1270 Sea Dog	0	0	0	0	8	7.33	0.91	237.0	0.24	491.0	0.07	0.071
7-Feb-18	2454 Armstrong	0	0	0	0	8	7.36	0.88	232.0	0.23	480.0	0.09	0.022
7-Feb-18	3500 Fairwinds	0	0	0	0	8	7.35	1.02	234.0	0.23	484.0	0.05	0.018
7-Feb-18	1996 Highland	0	0	0	0	8	7.39	0.58	235.0	0.23	485.0	0.03	0.000
7-Feb-18	Florence & Anchor	0	0	0	0	9	7.38	0.76	233.0	0.23	482.0	0.05	0.010
14-Feb-18	1566 Arbutus	0	0	0	0	8	7.19	0.43	230.0	0.23	477.0		
14-Feb-18	2359 Higginson	0	0	0	0	8	7.25	1.13	213.8	0.21	443.0		
14-Feb-18	2315 Ida Lane	0	0	0	0	7.5	7.35	1.14	222.0	0.22	460.0		
14-Feb-18	Lot 54 Evanshire	0	0	0	0	8	7.45	1.02	223.0	0.22	462.0		
14-Feb-18	3383 Redden	0	0	0	0	7.5	7.50	0.86	225.0	0.22	467.0		
14-Feb-18	2339 Garry Oak	0	0	0	0	7	7.39	1.33	216.7	0.22	449.0		
21-Feb-18	1358 Madrona	0	0	0	0	8	7.17	0.68	199.6	0.20	415.0		
21-Feb-18	Lot 51 Swallow	0	0	0	0	7	7.17	0.01	221.0	0.22	458.0		
21-Feb-18	NB Elementary			0	0	10	7.23	2.18	214.4	0.21	444.0		
21-Feb-18	3730 Fairwinds	0	0	0	0	8	7.35	0.77	211.0	0.21	439.0		
21-Feb-18	3541 Shelby	0	0	0	0	8	7.39	0.84	208.7	0.21	433.0		
21-Feb-18	2329 Chain	0	0	0	0	7	7.31	0.77	212.0	0.21	439.0		
28-Feb-18	1565 Stonelake			0	0	9	7.20	0.96	197.2	0.20	408.0		
28-Feb-18	1639 Marina	0	0	0	0	8	7.31	0.65	192.7	0.19	401.0		
28-Feb-18	2454 Armstrong			0	0	7	7.17	0.74	208.0	0.21	428.0		
28-Feb-18	3465 Cambridge	0	0	0	0	8	7.29	0.89	207.3	0.21	430.0		
28-Feb-18	Florence & Anchor			0	0	6	7.21	0.43	218.0	0.22	442.0		
	Average	0	0	0	0	7.9	7.3	0.84	219.1	0.22	453.5	0.05	0.041
	Maximum	0	0	0	0	10	7.5	2.18	237.0	0.24	491.0	0.09	0.088
	Minimum	0	0	0	0	6	7.17	0.01	192.7	0.19	401.0	0.03	0.000

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.



Regional District of Nanaimo - Water Services Department

Nanoose Bay Peninsula Water Analysis - 2018 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)
3-Jan-18	1566 Arbutus	0	0	0	0	8	7.33	0.35	226.0	0.23	467.0	0.02	0.000
3-Jan-18	3427 Tye	0	0	0	0	6	7.36	0.19	226.0	0.23	469.0	0.04	0.022
3-Jan-18	1270 Sea Dog	0	0	0	0	6	7.35	0.97	230.0	0.23	476.0	0.05	0.007
3-Jan-18	2454 Armstrong	0	0	0	0	8	7.37	0.85	231.0	0.23	479.0	0.07	0.019
3-Jan-18	3500 Fairwinds	0	0	0	0	8	7.50	0.93	230.0	0.23	475.0	0.06	0.010
3-Jan-18	1996 Highland	0	0	0	0	8	7.36	0.37	229.0	0.23	474.0	0.03	0.016
3-Jan-18	2339 Garry Oak	0	0	0	0	8	7.40	1.36	229.0	0.23	475.0	0.07	0.015
10-Jan-18	1358 Madrona	0	0	0	0	8	7.29	0.55	230.0	0.23	477.0		
10-Jan-18	2359 Higginson	0	0	0	0	8	7.27	1.07	224.0	0.22	457.0		
10-Jan-18	2315 Ida Lane	0	0	0	0	9	7.42	0.89	227.0	0.23	469.0		
10-Jan-18	Lot 54 Evanshire	0	0	0	0	8	7.38	0.97	224.0	0.22	463.0		
10-Jan-18	3383 Redden	0	0	0	0	7	7.39	0.80	224.0	0.22	464.0		
10-Jan-18	2329 Chain	0	0	0	0	7	7.38	0.44	224.0	0.22	463.0		
17-Jan-18	1565 Stonelake	0	0	0	0	10	7.31	0.72	224.0	0.22	464.0		
17-Jan-18	Lot 51 Swallow	0	0	0	0	7	7.34	0.02	226.0	0.22	467.0		
17-Jan-18	NB Elementary			0	0	11	7.30	1.63	225.0	0.22	466.0		
17-Jan-18	3730 Fairwinds	0	0	0	0	8	7.38	0.91	226.0	0.23	470.0		
17-Jan-18	3541 Shelby	0	0	0	0	8	7.42	0.94	226.0	0.23	469.0		
17-Jan-18	Florence & Anchor	0	0	0	0	7	7.36	0.48	226.0	0.23	468.0		
24-Jan-18	1566 Arbutus			0	0	10	7.04	0.48	227.0	0.23	469.0		
24-Jan-18	1639 Marina Way	0	0	0	0	9	7.23	1.04	231.0	0.23	477.0		
24-Jan-18	2454 Armstrong			0	0	8	7.38	0.69	231.0	0.23	479.0		
24-Jan-18	3465 Cambridge	0	0	0	0	9	7.27	0.71	229.0	0.23	474.0		
24-Jan-18	2339 Garry Oak			0	0	9	7.21	1.34	232.0	0.23	481.0		
31-Jan-18	1358 Madrona			0	0	8	7.41	0.38	232.0	0.23	479.0		
31-Jan-18	2359 Higginson			0	0	8	6.80	0.63	228.0	0.23	230.0		
31-Jan-18	2315 Ida Lane			0	0	8	7.06	0.68	226.0	0.23	469.0		
31-Jan-18	3383 Redden			0	0	8	7.16	0.68	229.0	0.23	473.0		
31-Jan-18	2329 Chain			0	0	8	7.32	0.41	226.0	0.23	463.0		
	Average	0	0	0	0	8	7.3	0.78	227.5	0.23	462.3	0.05	0.013
	Maximum	0	0	0	0	11	7.5	1.63	232.0	0.23	481.0	0.07	0.022
	Minimum	0	0	0	0	6	6.80	0.02	224.0	0.22	230.0	0.02	0.000

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.