REGIONAL DISTRICT OF NANAIMO

Decourcey Distribution Water Analysis
2458 Pylades Drive

CDWG=Canadian Drinking Water Guidelines
MAC=Maximum Acceptable Concentration
OG= Operational Guidance Value
AO= Asthetic Objective

Red font indicates non-compliance with Canadian Drinking Water Guidelines

	Units	CDWG		May 12 2014	May 19 2015	May 9 2016	May 2 2017	May 8 2018	May 14 2019	May 20 2020
Miscellaneous Inorganics										
Fluoride	mg/L	1.5	MAC	0.13	0.15	0.15	0.15	0.14	0.14	0.15
Alkalinity (total as $CaCO_3$)	mg/L			170	184	196	180	172	186	170
Anions										
Dissolved Sulphate	mg/L	500	AO	19.9	21.5	26.3	21.4	24.6	23.2	26
Dissolved Chloride	mg/L	250	AO	61	82	81	55	85	79	100
Nitrite	mg/L	1	MAC	<0.05	<0.0050	<0.0050	<0.0050	<0.0050	<0.005	<0.005
Miscellaneous										
Apparent Colour	Colour Unit			<5	<5	5	5	10	<2	10
Nutrients										
Total Ammonia	mg/L			<0.02	0.014	0.0062	0.12	0.13	<0.015	0.016
Physical Properties										
Conductivity	µS/cm			576	678	689	553	659	635	700
pH	pH	7.0:10.5	AO	7.7	8.26	8.25	8.46	8.37	8.22	8.07
TDS	mg/L	500	AO	324	364	384	310	332	336	470
Turbidity	NTU			<0.5	0.2	0.16	0.18	0.25	0.33	0.27
Microbiological Parameters										
E.coli	MPN/100mL	<1	MAC	<1.0	<1.0	<1.0	<1.0	<1.0	0	0
Total Coliforms	MPN/100mL	<1	MAC	<1.0	<1.0	<1.0	<1.0	<1.0	0	0
Calculated Parameters										
Total Hardness ($CaCO_3$)	mg/L			35	40.9	42	36.7	38.3	40	45.2
Nitrate	mg/L	10	MAC	<0.05	<0.020	<0.020	0.022	0.022	<0.02	0.024
Elements										
Total Mercury	mg/L	0.001	MAC	<0.00001	<0.00001	<0.00001	<0.00001	0.0000116	<0.000002	<0.0000019
Total Metals										
Total Aluminum	mg/L	0.1	OG	<0.025	0.0052	<0.003	0.0058	0.006	0.005	<0.003
Total Antimony	mg/L	0.006	MAC	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Total Arsenic	mg/L	0.01	MAC	0.00035	0.00021	<0.00022	0.00013	0.00019	0.00019	0.00016
Total Barium	mg/L	1	MAC	0.0103	0.0109	0.0098	0.0112	0.0115	0.0116	0.0126
Total Beryllium	mg/L			<0.00025	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Bismuth	mg/L			<0.0005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Boron	mg/L	5	MAC	0.115	0.124	0.109	0.099	0.103	0.112	0.121
Total Cadmium	mg/L	0.005	MAC	<0.00005	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Chromium	mg/L	0.05	MAC	<0.0025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Cobalt	mg/L			<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002
Total Copper	mg/L	1	AO	0.0137	0.00615	0.00403	0.00509	0.00318	0.00578	0.00446
Total Iron	mg/L	0.3	AO	0.034	0.104	0.0163	0.0158	0.0224	0.022	0.0186
Total Lead	mg/L	0.01	MAC	<0.0005	0.00048	<0.0002	<0.0002	0.00021	0.00023	<0.0002
Total Lithium	mg/L								0.0163	
Total Manganese	mg/L	0.02 0.12	AO MAC	<0.0050	0.0035	<0.001	<0.001	0.0022	0.0014	<0.001
Total Molybdenum	mg/L			<0.00025	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Nickel	mg/L			<0.0010	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Selenium	mg/L	0.05	MAC	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Silicon	mg/L			6.74	8.22	9	8.08	7.31	7.47	7.72
Total Silver	mg/L			<0.00025	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Total Strontium	mg/L			0.135	0.173	0.177	0.139	0.144	0.154	0.193
Total Thallium	mg/L			<0.00005	<0.00005	<0.00005	<0.00001	<0.00001	<0.00001	<0.00001
Total Tin	mg/L			<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Titanium	mg/L			<0.0025	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Uranium	mg/L	0.02	MAC	<0.00005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Vanadium	mg/L			<0.0005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Zinc	mg/L	5	AO	0.0581	0.0349	0.0258	0.0386	0.0309	0.0473	0.0349
Total Zirconium	mg/L				<0.0005	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001
Total Calcium	mg/L			10.9	13	12.7	11.1	11.9	12.3	13.9
Total Magnesium	mg/L			1.85	2.08	2.49	2.17	2.1	2.27	2.56
Total Potassium	mg/L			0.5	0.755	0.886	0.732	0.66	0.78	0.836
Total Sodium	mg/L	200	AO	115	111	128	112	110	123	130
Total Sulphur	mg/L				8.1	9.2	7.8	5.7	8.1	8.6