REGIONAL DISTRICT OF NANAIMO

Melrose Terrace Distribution (Tap Water) Analysis
3927 Melrose Road

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

Orange font indicates non-compliance with the Aesthetic Objective in the Canadian Drinking Water Guidelines (CDWG)
Red font indicates non-compliance with the Maximum Acceptable Concentration (MAC) in the CDWG

	Units	CDWG		May 8 2017	May 7 2018	May 13 2019	May 21 2020	May 6 2021	May 5 2022	May 25 2023	May 9 2024
Miscellaneous Inorganics											
Fluoride	mg/L	1.5	MAC	0.038	0.038	0.039	<0.05	<0.05	0.086	<0.05	<0.05
Alkalinity (total as CaCO)	mg/L			110	109	109	99	110	130	110	120
Anions											
Dissolved Sulphate	mg/L	500	AO	0.98	1.3	3.1	1.2	<1.0	8.5	1.2	<1
Dissolved Chloride	mg/L	250	AO	79	69	69	77	83	94	77	91
Nitrite	mg/L	1	MAC	<0.0050	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.05
Miscellaneous											
Apparent Colour	Colour Unit			10	5	9.2	5	15	<5	<5	5.3
Nutrients											
Total Ammonia	mg/L			0.15	0.044	0.016	0.039	<0.015	<0.015	<0.015	<0.015
Physical Properties											
Conductivity	µS/cm			460	455	444	430	470	550	480	530
pH	pH	7.0:10.5	AO	8.06	7.96	7.85	7.63	7.67	8.09	7.46	7.96
TDS	mg/L	500	AO	304	272	270	280	290	330	300	330
Turbidity	NTU			0.13	0.17	0.19	0.11	0.15	0.18	<0.1	0.14
Microbiological Parameters											
E.coli	MPN/100mL	<1	MAC	<1.0	<1.0	0	0	0	0	0	0
Total Coliforms	MPN/100mL	<1	MAC	<1.0	<1.0	0	0	0	0	0	0
Calculated Parameters											
Total Hardness (CaCO)	mg/L			152	144	137	131	130	184	147	149
Nitrate	mg/L	10	MAC	0.029	0.024	0.042	0.044	0.031	<0.02	0.041	0.032
Elements											
Total Mercury	mg/L	0.001	MAC	<0.00001	<0.000002	<0.000002	<0.0000019	<0.0000019	<0.0000019	<0.0000019	<0.00000019
Total Metals											
Total Aluminum	mg/L	0.1	OG	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
Total Antimony	mg/L	0.006	MAC	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0001
Total Arsenic	mg/L	0.01	MAC	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00154	<0.0001	0.0287
Total Barium	mg/L	1	MAC	0.038	0.031	0.0286	0.0289	0.0293	0.0323	0.0312	<0.0001
Total Beryllium	mg/L			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.001
Total Bismuth	mg/L			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Boron	mg/L	5	MAC	<0.050	<0.050	<0.05	<0.05	<0.05	0.063	<0.05	<0.05
Total Cadmium	mg/L	0.005	MAC	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Chromium	mg/L	0.05	MAC	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Cobalt	mg/L			<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Total Copper	mg/L	1	AO	0.00218	0.00219	0.00452	0.00377	0.00407	0.00238	0.00398	0.00738
Total Iron	mg/L	0.3	AO	0.0456	0.0689	0.0587	0.0361	0.0491	0.0163	0.0266	0.0649
Total Lead	mg/L	0.01	MAC	0.00043	0.0004	0.00055	0.00048	0.00059	<0.0002	0.00062	0.00055
Total Manganese	mg/L	0.02 0.12	AO MAC	0.0021	0.0029	0.0027	0.0021	0.0022	0.0118	0.0013	0.0018
Total Molybdenum	mg/L			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Nickel	mg/L			<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Total Selenium	mg/L	0.05	MAC	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Silicon	mg/L			22.1	15.2	14.2	14.1	13.5	6.85	14.5	14.1
Total Silver	mg/L			<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002	<0.00002
Total Strontium	mg/L			0.0913	0.0774	0.0668	0.0679	0.0698	0.369	0.0719	0.0707
Total Thallium	mg/L			<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Total Tin	mg/L			0.0088	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Titanium	mg/L			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Uranium	mg/L	0.02	MAC	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	0.00034	<0.0001	<0.0001
Total Vanadium	mg/L			<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Zinc	mg/L	5	AO	0.0342	0.0212	0.0098	0.0087	0.0075	<0.005	<0.005	0.0053
Total Zirconium	mg/L			<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Total Calcium	mg/L			38.8	37.1	35.9	34	32.6	48	37.1	38
Total Magnesium	mg/L			13.5	12.4	11.4	11.1	11.7	15.6	13.1	13.2
Total Potassium	mg/L			0.51	0.45	0.467	0.456	0.482	1.57	0.469	0.513
Total Sodium	mg/L	200	AO	31.4	29.7	30.7	32.6	35.5	29	35	41.6
Total Sulphur	mg/L			<3.0	<3.0	<3	<3	<3	<3	<3	<3