Mill Bay Water District

Maxxam Job Number: B916613
Report Date: 2019/03/19

VIHA PKG, WELLS/SPRINGS - VICTORIA (DRINKING WATER)

Maxxam ID					VI1937	
Sampling Date					2019/03/07 08:45	
COC Number					WI019161	
		Candian Drinking Guidelines				
	UNITS	**Maximun Aceptable Concentration**	**Aesthetic Objectives**	**Operational Guidance Values**	**WELL #1452**	**RDL**
Misc. Inorganics						
UV absorbance (254nm)	AU/cm	-	-	-	<0.010	0.010
ANIONS						
Nitrite (N)	mg/L	1	-	-	<0.0050	0.0050
Calculated Parameters						
Total Hardness (CaCO3)	mg/L	-	-	-	106	0.50
Nitrate (N)	mg/L	10	-	-	4.33	0.20
Total Organic Nitrogen (N)	mg/L	-	-	-	<0.20	0.20
Sulphide (as H2S)	mg/L	-	0.05	-	<0.0020	0.0020
Transmittance at 254nm	%T/cm	-	-	-	>97.7	N/A
Misc. Inorganics						
Fluoride (F)	mg/L	1.5	-	-	0.032	0.020
Alkalinity (Total as CaCO3)	mg/L	-	-	-	92.4	1.0
Total Organic Carbon (C)	mg/L	-	-	-	<0.50	0.50
Alkalinity (PP as CaCO3)	mg/L	-	-	-	<1.0	1.0
Bicarbonate (HCO3)	mg/L	-	-	-	113	1.0
Carbonate (CO3)	mg/L	-	-	-	<1.0	1.0
Hydroxide (OH)	mg/L	-	-	-	<1.0	1.0
Anions						
Dissolved Sulphate (SO4)	mg/L	-	500	-	10.0	1.0
Total Sulphide	mg/L	-	0.05	-	<0.0019	0.0019
Dissolved Chloride (Cl)	mg/L	-	250	-	12	1.0
MISCELLANEOUS						
True Colour	Col. Unit	-	15	-	<5	5
Nutrients						
Total Ammonia (N)	mg/L	-	-	-	<0.015	0.015
Nitrate plus Nitrite (N)	mg/L	-	-	-	4.33 (1)	0.20
Total Nitrogen (N)	mg/L	-	-	-	3.91 (1)	0.10
Physical Properties						
Conductivity	uS/cm	-	-	-	258	2.0
pH	pH	-	-	7.0:10.5	7.79	
Physical Properties						
Total Dissolved Solids	mg/L	-	500	-	166	10

Turbidity	NTU	see remark	see remark	see remark	0.23	0.10
Elements						
Total Mercury (Hg)	ug/L	1	-	-	<0.0020	0.0020
Total Metals by ICPMS						
Total Aluminum (Al)	ug/L	-	-	100	<3.0	3.0
Total Antimony (Sb)	ug/L	6	-	-	<0.50	0.50
Total Arsenic (As)	ug/L	10	-	-	<0.10	0.10
Total Barium (Ba)	ug/L	1000	-	-	7.1	1.0
Total Beryllium (Be)	ug/L	-	-	-	<0.10	0.10
Total Bismuth (Bi)	ug/L	-	-	-	<1.0	1.0
Total Boron (B)	ug/L	5000	-	-	<50	50
Total Cadmium (Cd)	ug/L	5	-	-	<0.010	0.010
Total Chromium (Cr)	ug/L	50	-	-	<1.0	1.0
Total Cobalt (Co)	ug/L	-	-	-	<0.20	0.20
Total Copper (Cu)	ug/L	-	1000	-	6.69	0.20
Total Iron (Fe)	ug/L	-	300	-	<5.0	5.0
Total Lead (Pb)	ug/L	5	-	-	2.69	0.20
Total Manganese (Mn)	ug/L	-	50	-	<1.0	1.0
Total Molybdenum (Mo)	ug/L	-	-	-	<1.0	1.0
Total Nickel (Ni)	ug/L	-	-	-	<1.0	1.0
Total Selenium (Se)	ug/L	50	-	-	<0.10	0.10
Total Silicon (Si)	ug/L	-	-	-	13300	100
Total Silver (Ag)	ug/L	-	-	-	<0.020	0.020
Total Strontium (Sr)	ug/L	-	-	-	90.7	1.0
Total Thallium (Tl)	ug/L	-	-	-	<0.010	0.010
Total Tin (Sn)	ug/L	-	-	-	<5.0	5.0
Total Titanium (Ti)	ug/L	-	-	-	<5.0	5.0
Total Uranium (U)	ug/L	20	-	-	<0.10	0.10
Total Vanadium (V)	ug/L	-	-	-	<5.0	5.0
Total Zinc (Zn)	ug/L	-	5000	-	<5.0	5.0
Total Zirconium (Zr)	ug/L	-	-	-	<0.10	0.10
Total Calcium (Ca)	mg/L	-	-	-	26.4	0.050
Total Magnesium (Mg)	mg/L	-	-	-	9.78	0.050
Total Potassium (K)	mg/L	-	-	-	0.554	0.050
Total Sodium (Na)	mg/L	-	200	-	6.27	0.050
Total Sulphur (S)	mg/L	-	-	-	3.3	3.0
Microbiological Param.						
Heterotrophic Plate Count	CFU/mL	-	-	-	<1	1
Iron Bacteria	CFU/mL	-	-	-	<25	25
Sulphate reducing bacteria	CFU/mL	-	-	-	<75	75
Total Coliforms	CFU/100mL	0	-	-	0	N/A
E. coli	CFU/100mL	0	-	-	0	N/A
Calculated Parameters						
Langelier Index (@ 4.4C)	N/A	-	-	-	-0.744	N/A
Langelier Index (@ 60C)	N/A	-	-	-	0.297	N/A
Saturation pH (@ 4.4C)	N/A	-	-	-	8.53	N/A
Saturation pH (@ 60C)	N/A	-	-	-	7.49	N/A

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

N/A = Not Applicable

(1) Detection limits raised due to dilution to bring analyte within the calibrated range.

Results relate only to the items tested.