

TABLE 3. 2010 TREATED WATER QUALITY BELOW SOOKE PLANT

PARAMETER		2010 ANALYTICAL RESULTS				CANADIAN GUIDELINES	LONG TERM RESULTS (SEP 2009-2010)			
Parameter Name	Units of Measure	Median Value	Samples Analyzed	Range Min. Max.		≤ = Less than or equal to	Two Year Median	Samples Analyzed	Range Min.-Max.	Sampling Frequency
Physical Parameters (< means less than instrument can detect)										
Alkalinity, Total	mg/L	16.4	12	14.8	18.2		16.6	17	14.8 - 18.2	12/yr
Colour, True	TCU	3.4	46	1.9	6.2	≤ 15 AO	3.4	64	0.9 - 6.2	52/yr
Conductivity @ 25 C	uS/cm	53.1	46	49.1	57.6		53.2	64	49.1 - 57.6	52/yr
Odour	Flavour Profile	Trace	47	Odour Free	Moderate	Inoffensive	Trace	65	Odour Free - Moderate	52/yr
pH	pH units	7.32	46	6.85	7.86	6.5 - 8.5 AO	7.38	64	6.85 - 7.88	52/yr
Taste	Flavour Profile	Trace	47	Trace	Weak	Inoffensive	Trace	65	Taste Free - Moderate	52/yr
Turbidity, Grab Samples	NTU	0.28	47	0.18	0.98		0.30	65	0.18 - 0.98	52/yr
Ultraviolet Transmittance	%	88.5	2	86.7	90.3		88.5	2	86.7 - 90.3	Special
Water Temperature, Grab Samples	degrees C	11.2	49	5.8	17.6	≤ 15 AO	11.3	67	5.2 - 18.6	52/yr
Microbial Parameters										
Coliform Bacteria										
Coliform, Total	CFU/100 mL	0	49	0	1	0 MAC	0	67	0 - 1	52/yr
<i>E. coli</i>	CFU/100 mL	0	49			0 MAC	0	67		52/yr
Coliform, Background	CFU/100 mL	0	47	0	1	No Guideline Required	0	65	0 - 11	52/yr
Heterotrophic Bacteria										
Hetero. Plate Count, 28C (7 day)	CFU/1 mL	10	45	0	500	No Guideline Required	10	63	0 - 500	52/yr
Disinfectants (< means less than instrument can detect)										
Disinfectants										
Chlorine, Total Residual	mg/L as Cl ₂	1.21	81	0.42	1.50	3.0 MAC (chloramines)	1.22	100	0.42 - 1.50	52/yr
Dichloramine	mg/L as Cl ₂	0.045	46	<0.03	0.32		0.048	62	<0.03 - 0.32	52/yr
Monochloramine	mg/L as Cl ₂	1.02	46	0.3	1.41		1.08	62	0.3 - 1.50	52/yr

mg/L = milligrams per litre
ug/L = micrograms per litre

CFU = Colony Forming Units
TCU = True Colour Units
NTU = Nephelometric Turbidity Units

AO = Aesthetic Objective
MAC = Max. Acceptable Conc
Median = middle point of all values