

TABLE 3. 2006 TREATED WATER QUALITY BELOW CHARTERS PLANT

PARAMETER		2006 ANALYTICAL RESULTS				2006 CANADIAN GUIDELINES	TEN YEAR RESULTS (1997-2006)			
Parameter Name	Units of Measure	Median Value	Samples Analyzed	Range Min. Max.			Ten Year Median	Samples Analyzed	Range Min.-Max.	Sampling Frequency
<b>Physical Parameters</b>										
Alkalinity, Tota	mg/L	14.0	21	12.5	16.5		13.8	339	4.44 - 17.1	26/yr
Colour, True	TCU	6.4	50	2.9	8.3	≤15 AO	6.2	511	2.1 - 27	52/yr
Conductivity @ 25 C	uS/cm	44.5	50	41.0	47.9		43.4	503	27.7 - 56	52/yr
pH	pH units	7.26	50	6.93	7.47	6.5 - 8.5 AO	7.25	508	6.61 - 7.71	52/yr
Turbidity, Grab Samples	NTU	0.32	50	0.18	0.57	1 MAC and ≤ 5 AO	0.30	512	0.10 - 6.4	52/yr
Water Temp., Field	degrees C	10.4	52	4.2	18.3	≤ 15 AO	10.6	520	2.0 - 22.2	52/yr
<b>Microbial Parameters</b>										
<b>Coliform Bacteria</b>										
Coliform, Tota	CFU/100 mL	0	52			0 MAC	0	518	0 - 4	52/yr
<i>E. coli</i>	CFU/100 mL	0	39			0 MAC	0	40	Started in April 2006	
Coliform, Feca	CFU/100 mL	0	13	(Discontinued in April)		0 MAC	0	478	0 - 1	Discontinued
Coliform, Background	CFU/100 mL	0	52	0	15	No Guideline Required	0	518	0 - 1070	52/yr
<b>Heterotrophic Bacteria</b>										
Hetero. Plate Count, 35C (2 day)	CFU/1 mL	Discontinued in 2005					1	396	0 - 430	Discontinued
Hetero. Plate Count, 28C (7 day)	CFU/1 mL	0	27	0	90	No Guideline Required	10	464	0 - 5800	26/yr
<b>Disinfectants</b>										
<b>Disinfectants</b>										
Chlorine, Total Residual	mg/L as Cl <sub>2</sub>	1.32	52	0.91	1.57	3.0 MAC (chloramines)	1.17	524	0.14 - 1.75	52/yr
<b>Disinfection By-Products</b>										
<b>Trihalomethanes (THMs)</b>										
Bromodichloromethane	ug/L					16 MAC (Under Review)	0.2	11	0.1 - 0.8	Special
Bromoform	ug/L						<0.2	11	<0.2 - <0.6	Special
Chloroform	ug/L						4	11	2.1 - 18.2	Special
Dibromochloromethane	ug/L						<0.1	11	<0.1 - <0.5	Special
Total Trihalomethanes	ug/L					100 MAC (Under Review)	4.4	11	2.3 - 19.0	Special

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 Concentration