

C.O.C.: G37209

REPORT No. B13-26553

Report To:

City of Iqaluit

PO Box 460,
Iqaluit NU X0A 0H0

Attention: Paul Clow

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1

Tel: 613-526-0123

Fax: 613-526-1244

DATE RECEIVED: 08-Oct-13

JOB/PROJECT NO.: Test A (WTP)

DATE REPORTED: 07-Nov-13

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.	WTP Test A	WTP Test - Dissolved Metals		
			Sample I.D.	B13-26553-1	B13-26553-2		
			Date Collected	07-Oct-13	07-Oct-13		
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Hardness (as CaCO ₃)	mg/L	1	SM 3120	30-Oct-13/O		16	
Hardness (as CaCO ₃)	mg/L	1	SM 3120	09-Oct-13/O	17		
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	10-Oct-13/O	14		
Bicarbonate(as CaCO ₃)	mg/L	5	SM 2320B	10-Oct-13/O	14		
Carbonate (as CaCO ₃)	mg/L	5	SM 2320B	10-Oct-13/O	< 5		
Hydroxide	mg/L	5	EPA 310.2	10-Oct-13/O	< 5		
Conductivity @25°C	µmho/cm	1	SM 2510B	09-Oct-13/O	38		
Total Suspended Solids	mg/L	3	SM 2540D	09-Oct-13/O	3		
TDS(ion sum calc.)	mg/L		Calc.	15-Oct-13/O	19.0		
Turbidity	NTU	0.1	SM 2130	11-Oct-13/O	1.0		
pH @25°C	pH Units		SM 4500H	09-Oct-13/O	7.19		
Chloride	mg/L	0.5	SM4110C	10-Oct-13/O	1.1		
Sulphate	mg/L	1	SM4110C	10-Oct-13/O	3		
Calcium	mg/L	0.02	SM 3120	09-Oct-13/O	5.05		
Calcium	mg/L	0.02	SM 3120	30-Oct-13/O		4.79	
Magnesium	mg/L	0.01	SM 3120	09-Oct-13/O	0.99		
Magnesium	mg/L	0.01	SM 3120	30-Oct-13/O		0.97	
Sodium	mg/L	0.2	SM 3120	09-Oct-13/O	0.8		
Sodium	mg/L	0.2	SM 3120	30-Oct-13/O		0.7	
Potassium	mg/L	0.1	SM 3120	09-Oct-13/O	0.1		
Potassium	mg/L	0.1	SM 3120	30-Oct-13/O		0.1	
Aluminum (total)	mg/L	0.01	SM 3120	09-Oct-13/O	0.02		
Aluminum	mg/L	0.01	SM 3120	30-Oct-13/O		0.02	
Antimony	mg/L	0.0001	EPA 200.8	09-Oct-13/O	< 0.0001		
Antimony	mg/L	0.0001	EPA 200.8	30-Oct-13/O		0.0001	
Arsenic	mg/L	0.0001	EPA 200.8	09-Oct-13/O	< 0.0001		
Arsenic	mg/L	0.0001	EPA 200.8	30-Oct-13/O		< 0.0001	



M.D.L. = Method Detection Limit

Site Analyzed=K-Kingston,W-Windsor,O-Ottawa,R-Richmond Hill

Greg Clarkin , BSc., C. Chem
Lab Manager - Ottawa District

The analytical results reported herein refer to the samples as received. Reproduction of this analytical report in full or in part is prohibited without prior consent from Caduceon Environmental Laboratories.

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			Sample I.D.	B13-26553-1	B13-26553-2		
			Date Collected	07-Oct-13	07-Oct-13		
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Barium	mg/L	0.001	SM 3120	09-Oct-13/O	0.002		
Barium	mg/L	0.001	SM 3120	30-Oct-13/O		0.002	
Beryllium	mg/L	0.002	SM 3120	09-Oct-13/O	< 0.002		
Beryllium	mg/L	0.002	SM 3120	30-Oct-13/O		< 0.002	
Bismuth	mg/L	0.02	SM 3120	09-Oct-13/O	< 0.02		
Bismuth	mg/L	0.02	SM 3120	30-Oct-13/O		< 0.02	
Boron	mg/L	0.005	SM 3120	09-Oct-13/O	< 0.005		
Boron	mg/L	0.005	SM 3120	30-Oct-13/O		< 0.005	
Cadmium	mg/L	0.005	SM 3120	09-Oct-13/O	< 0.005		
Cadmium	mg/L	0.005	SM 3120	30-Oct-13/O		< 0.005	
Chromium	mg/L	0.002	SM 3120	09-Oct-13/O	< 0.002		
Chromium	mg/L	0.002	SM 3120	30-Oct-13/O		< 0.002	
Cobalt	mg/L	0.005	SM 3120	09-Oct-13/O	< 0.005		
Cobalt	mg/L	0.005	SM 3120	30-Oct-13/O		< 0.005	
Copper	mg/L	0.002	SM 3120	09-Oct-13/O	0.004		
Copper	mg/L	0.002	SM 3120	30-Oct-13/O		0.003	
Iron (Total)	mg/L	0.005	SM 3120	09-Oct-13/O	0.100		
Iron	mg/L	0.005	SM 3120	30-Oct-13/O		0.085	
Lead	mg/L	0.02	SM 3120	09-Oct-13/O	< 0.02		
Lead	mg/L	0.02	SM 3120	30-Oct-13/O		< 0.02	
Lithium	mg/L	0.005	SM 3120	09-Oct-13/O	< 0.005		
Lithium	mg/L	0.005	SM 3120	30-Oct-13/O		< 0.005	
Manganese (Total)	mg/L	0.001	SM 3120	09-Oct-13/O	0.041		
Manganese	mg/L	0.001	SM 3120	30-Oct-13/O		0.080	
Molybdenum	mg/L	0.01	SM 3120	09-Oct-13/O	< 0.01		
Molybdenum	mg/L	0.01	SM 3120	30-Oct-13/O		< 0.01	
Nickel	mg/L	0.01	SM 3120	09-Oct-13/O	< 0.01		



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			Sample I.D.	B13-26553-1	B13-26553-2		
			Date Collected	07-Oct-13	07-Oct-13		
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Nickel	mg/L	0.01	SM 3120	30-Oct-13/O		< 0.01	
Silicon	mg/L	0.01	SM 3120	09-Oct-13/O	0.36		
Silicon	mg/L	0.01	SM 3120	30-Oct-13/O		0.36	
Silver	mg/L	0.005	SM 3120	09-Oct-13/O	< 0.005		
Silver	mg/L	0.005	SM 3120	30-Oct-13/O		< 0.005	
Strontium	mg/L	0.001	SM 3120	09-Oct-13/O	0.013		
Strontium	mg/L	0.001	SM 3120	30-Oct-13/O		0.013	
Tin	mg/L	0.05	SM 3120	09-Oct-13/O	< 0.05		
Tin	mg/L	0.05	SM 3120	30-Oct-13/O		< 0.05	
Titanium	mg/L	0.005	SM 3120	09-Oct-13/O	< 0.005		
Titanium	mg/L	0.005	SM 3120	30-Oct-13/O		< 0.005	
Uranium	mg/L	0.00005	EPA 200.8	09-Oct-13/O	< 0.00005		
Uranium	mg/L	0.00005	EPA 200.8	30-Oct-13/O		< 0.00005	
Vanadium	mg/L	0.005	SM 3120	09-Oct-13/O	< 0.005		
Vanadium	mg/L	0.005	SM 3120	30-Oct-13/O		< 0.005	
Zinc	mg/L	0.005	SM 3120	09-Oct-13/O	< 0.005		
Zinc	mg/L	0.005	SM 3120	30-Oct-13/O		< 0.005	
o-Phosphate (P)	mg/L	0.01	MOEE 3366	09-Oct-13/O	< 0.01		
Total Organic Carbon	mg/L	0.2	EPA 415.1	09-Oct-13/O	3.1		
TIC	mg/L	0.5	EPA 415.1	09-Oct-13/O	3.3		
Fecal Coliform	cfu/100mL	1	MOE E3371	08-Oct-13/O	<10		
Anion Sum	meq/L		Calc.	15-Oct-13/O	0.360		
Cation Sum	meq/L		Calc.	15-Oct-13/O	0.377		
% Difference	%		Calc.	15-Oct-13/O	2.32		
Ion Ratio	AS/CS		Calc.	15-Oct-13/O	0.955		
Sodium Adsorption Ratio	-		Calc.	15-Oct-13/O	0.0806		
Conductivity (calc.)	µmho/cm		Calc.	15-Oct-13/O	38.8		



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			Sample I.D.	B13-26553-1	B13-26553-2		
			Date Collected	07-Oct-13	07-Oct-13		
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
TDS(calc.)/EC(actual)	-		Calc.	15-Oct-13/O	0.496		
EC(calc.)/EC(actual)	-		Calc.	15-Oct-13/O	1.01		
Langelier Index(25°C)	S.I.		Calc.	15-Oct-13/O	-2.28		

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