

C.O.C.: ---

REPORT No. B15-27078

Report To:

Hamlet of Pangnirtung

P.O. Box 253,
Pangnirtung Nunavut X0A 0R0 Canada

Attention: Shawn Treoanier

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
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DATE RECEIVED: 15-Oct-15

JOB/PROJECT NO.: WWTP

DATE REPORTED: 29-Oct-15

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

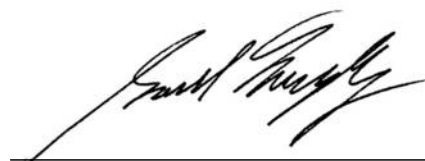
WATERWORKS NO.

			Client I.D.	Raw	Membrane	Effluent	
			Sample I.D.	B15-27078-1	B15-27078-2	B15-27078-3	
			Date Collected	14-Oct-15	14-Oct-15	14-Oct-15	
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
BOD	mg/L	3	SM 5210B	16-Oct-15/O	407	840	< 3
Total Suspended Solids	mg/L	3	SM 2540D	16-Oct-15/O	320	10000	< 3
TDS (Calc. from Cond.)	mg/L		Calc.	21-Oct-15	766	566	565
Hardness (as CaCO ₃)	mg/L	1	SM 3120	20-Oct-15/O	46	289	17
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	20-Oct-15/O	385	284	187
Conductivity @25°C	µmho/cm	1	SM 2510B	20-Oct-15/O	1110	832	831
Turbidity	NTU	0.1	SM 2130	16-Oct-15/O	344	> 1000	0.4
pH @25°C	pH Units		SM 4500H	20-Oct-15/O	7.25	7.41	7.63
Nitrite (N)	mg/L	0.1	SM4110C	19-Oct-15/O	< 0.1	< 0.1	< 0.1
Nitrate (N)	mg/L	0.1	SM4110C	19-Oct-15/O	< 0.1	3.0	27.0
Chloride	mg/L	0.5	SM4110C	19-Oct-15/O	53.7	50.7	54.6
Sulphate	mg/L	1	SM4110C	19-Oct-15/O	7	39	36
COD	mg/L	5	SM 5220D	21-Oct-15/O	1050	10500	85
Total Organic Carbon	mg/L	0.2	EPA 415.1	21-Oct-15/O	97.0	372	54.0
Dissolved Organic Carbon	mg/L	0.2	EPA 415.1	21-Oct-15/O	78.0	260	45.5
Total Kjeldahl Nitrogen	mg/L	0.05	MOEE 3367	28-Oct-15/O	127	571	3.54
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	19-Oct-15/O	106	3.38	0.73
o-Phosphate (P)	mg/L	0.01	MOEE 3366	19-Oct-15/O	24.3	17.3	14.9
Phosphorus-Total	mg/L	0.01	MOEE 3367	28-Oct-15/O	25.5	161	15.2
Phenolics	mg/L	0.001	MOEE 3179	22-Oct-15/O	0.333	0.002	< 0.001
Aluminum	mg/L	0.01	SM 3120	20-Oct-15/O	1.52	95.0	0.06
Arsenic	mg/L	0.0005	EPA 200.8	16-Oct-15/O	0.0013	0.0288	0.0018
Barium	mg/L	0.001	SM 3120	20-Oct-15/O	0.025	0.608	< 0.001
Beryllium	mg/L	0.002	SM 3120	20-Oct-15/O	< 0.002	< 0.002	< 0.002
Bismuth	mg/L	0.02	SM 3120	20-Oct-15/O	< 0.02	0.24	< 0.02
Boron	mg/L	0.005	SM 3120	20-Oct-15/O	0.261	0.379	0.256
Calcium	mg/L	0.02	SM 3120	20-Oct-15/O	12.6	77.9	4.12
Cadmium	mg/L	0.005	SM 3120	20-Oct-15/O	< 0.005	0.013	< 0.005

R.L. = Reporting Limit

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

Uncertainty Values available upon request



Gord Murphy
Lab Supervisor

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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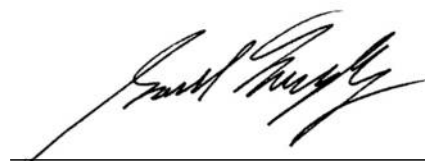
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			Date Collected	14-Oct-15	14-Oct-15	14-Oct-15	
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Chromium	mg/L	0.002	SM 3120	20-Oct-15/O	0.004	0.101	< 0.002
Cobalt	mg/L	0.005	SM 3120	20-Oct-15/O	< 0.005	0.020	< 0.005
Copper	mg/L	0.002	SM 3120	20-Oct-15/O	0.206	7.04	0.113
Iron	mg/L	0.005	SM 3120	20-Oct-15/O	1.22	43.5	0.159
Lead	mg/L	0.02	SM 3120	20-Oct-15/O	< 0.02	0.24	< 0.02
Lithium	mg/L	0.005	SM 3120	20-Oct-15/O	0.008	0.021	0.007
Magnesium	mg/L	0.01	SM 3120	20-Oct-15/O	3.54	22.9	1.75
Manganese	mg/L	0.001	SM 3120	20-Oct-15/O	0.057	1.76	0.026
Mercury	mg/L	0.00002	SM 3112 B	16-Oct-15/O	0.00015	0.00756	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	20-Oct-15/O	< 0.01	0.02	< 0.01
Nickel	mg/L	0.01	SM 3120	20-Oct-15/O	< 0.01	0.08	< 0.01
Silicon	mg/L	0.01	SM 3120	20-Oct-15/O	3.00	20.7	4.42
Silver	mg/L	0.005	SM 3120	20-Oct-15/O	< 0.005	0.008	< 0.005
Sodium	mg/L	0.2	SM 3120	20-Oct-15/O	46.6	172	152
Zinc	mg/L	0.005	SM 3120	20-Oct-15/O	0.376	7.43	0.091
Oil & Grease-Total	mg/L	1.0	SM 5520	20-Oct-15/K	95.2	50.0	< 1.0
Total Coliform	cfu/100mL	1	MOE E3371	15-Oct-15/O	55000000	34000000	<10
E coli	cfu/100mL	1	MOE E3371	15-Oct-15/O	410000	290000	<2
Fecal Coliform	cfu/100mL	1	MOE E3371	15-Oct-15/O	1120000	690000	<2
Fecal Strep.	cfu/100mL	1	MOE E3371	15-Oct-15/O	3400000	850000	< 2

R.L. = Reporting Limit

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

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