

C.O.C.: ---

REPORT No. B16-35944

Report To:

Hamlet of Pangnirtung

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

Attention: Shawn Trepanier

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
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DATE RECEIVED: 01-Dec-16

JOB/PROJECT NO.: WWTP

DATE REPORTED: 13-Dec-16

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

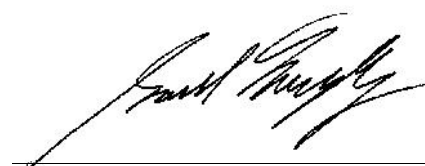
			Client I.D.	Influent (Raw)	Membrane	Effluent	
			Sample I.D.	B16-35944-1	B16-35944-2	B16-35944-3	
			Date Collected	29-Nov-16	29-Nov-16	29-Nov-16	
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
BOD	mg/L	3	SM 5210B	02-Dec-16/O	400	1630	< 3
Total Suspended Solids	mg/L	3	SM 2540D	06-Dec-16/O	256	20500	< 3
Hardness (as CaCO ₃)	mg/L	1	SM 3120	02-Dec-16/O	46	942	34
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	02-Dec-16/O	429	292	< 5
Conductivity @25°C	µmho/cm	1	SM 2510B	02-Dec-16/O	1260	672	761
TDS (Calc. from Cond.)	mg/L		Calc.	06-Dec-16	882	451	511
pH @25°C	pH Units		SM 4500H	02-Dec-16/O	7.48	7.13	5.85
Turbidity	NTU	0.1	SM 2130	06-Dec-16/O	434	> 1000	1.6
Nitrite (N)	mg/L	0.1	SM4110C	02-Dec-16/O	< 0.1	< 0.1	< 0.1
Nitrate (N)	mg/L	0.1	SM4110C	02-Dec-16/O	0.1	3.4	40.3
Chloride	mg/L	0.5	SM4110C	02-Dec-16/O	65.9	59.3	60.5
Sulphate	mg/L	1	SM4110C	02-Dec-16/O	10	39	40
Total Organic Carbon	mg/L	0.2	EPA 415.1	05-Dec-16/O	156		12.1
Dissolved Organic Carbon	mg/L	0.2	EPA 415.1	05-Dec-16/O	139		12.1
COD	mg/L	5	SM 5220D	05-Dec-16/O	1510	26300	31
Total Kjeldahl Nitrogen	mg/L	0.05	MOEE 3367	06-Dec-16/O	153	1210	1.84
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	05-Dec-16/O	118	< 0.01	0.03
o-Phosphate (P)	mg/L	0.01	MOEE 3366	05-Dec-16/O	12.5	20.5	12.8
Phosphorus-Total	mg/L	0.01	MOEE 3367	06-Dec-16/O	16.1	342	13.5
Phenolics	mg/L	0.001	MOEE 3179	06-Dec-16/O	0.216	0.004	< 0.001
Aluminum	mg/L	0.01	SM 3120	02-Dec-16/O	0.64	142	0.02
Arsenic	mg/L	0.0005	EPA 200.8	02-Dec-16/O	0.0007	0.0375	0.0008
Barium	mg/L	0.001	SM 3120	02-Dec-16/O	0.016	1.30	< 0.001
Beryllium	mg/L	0.002	SM 3120	02-Dec-16/O	< 0.002	< 0.02	< 0.002
Bismuth	mg/L	0.02	SM 3120	02-Dec-16/O	< 0.02	0.81	< 0.02
Boron	mg/L	0.005	SM 3120	02-Dec-16/O	0.190	1.65	0.168
Calcium	mg/L	0.02	SM 3120	02-Dec-16/O	11.1	251	8.68

R.L. = Reporting Limit

Test methods may be modified from specified reference method unless indicated by an *

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

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.



Gord Murphy
Lab Supervisor

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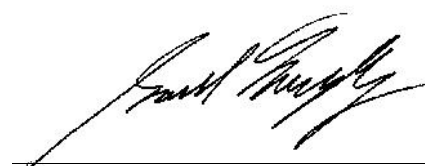
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			Sample I.D.	B16-35944-1	B16-35944-2	B16-35944-3	
			Date Collected	29-Nov-16	29-Nov-16	29-Nov-16	
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Cadmium	mg/L	0.005	SM 3120	02-Dec-16/O	< 0.005	< 0.05	< 0.005
Chromium	mg/L	0.002	SM 3120	02-Dec-16/O	0.004	0.328	< 0.002
Cobalt	mg/L	0.005	SM 3120	02-Dec-16/O	< 0.005	< 0.05	< 0.005
Copper	mg/L	0.002	SM 3120	02-Dec-16/O	0.207	16.5	0.121
Iron	mg/L	0.005	SM 3120	02-Dec-16/O	1.12	141	0.110
Lead	mg/L	0.02	SM 3120	02-Dec-16/O	< 0.02	0.57	< 0.02
Magnesium	mg/L	0.01	SM 3120	02-Dec-16/O	4.35	76.8	2.95
Manganese	mg/L	0.001	SM 3120	02-Dec-16/O	0.054	3.74	0.024
Mercury	mg/L	0.00002	SM 3112 B	02-Dec-16/O	0.00021	0.0128	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	02-Dec-16/O	< 0.01	< 0.1	< 0.01
Nickel	mg/L	0.01	SM 3120	02-Dec-16/O	< 0.01	0.26	< 0.01
Silicon	mg/L	0.01	SM 3120	02-Dec-16/O	2.14	27.7	3.23
Silver	mg/L	0.005	SM 3120	02-Dec-16/O	< 0.005	0.077	< 0.005
Sodium	mg/L	0.2	SM 3120	02-Dec-16/O	57.9	161	111
Zinc	mg/L	0.005	SM 3120	02-Dec-16/O	0.333	21.6	0.133
Oil & Grease-Total	mg/L	1.0	SM 5520	07-Dec-16/K	1140	91.0	< 1.0
Total Coliform	cfu/100mL	1	MOE E3371	01-Dec-16/O	86000000	32000000	1100
E coli	cfu/100mL	1	MOE E3371	01-Dec-16/O	2900000	1300000	10
Fecal Coliform	cfu/100mL	1	MOE E3371	01-Dec-16/O	4400000	1600000	40
Fecal Strep.	cfu/100mL	1	MOE E3371	01-Dec-16/O	1700000	3700000	20

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