

C.O.C.: ---

REPORT No. B16-24903

Report To:

Hamlet of Pangnirtung

P.O. Box 253,

Pangnirtung Nunavut X0A 0R0 Canada

Attention: Shawn Trepanier

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DATE RECEIVED: 22-Aug-16

JOB/PROJECT NO.:

DATE REPORTED: 12-Sep-16

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.	Influent Raw	Membrane #1	Effluent	
			Sample I.D.	B16-24903-1	B16-24903-2	B16-24903-3	
			Date Collected	17-Aug-16	17-Aug-16	17-Aug-16	
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
BOD	mg/L	3	SM 5210B	24-Aug-16/O	424	1720	< 3
Total Suspended Solids	mg/L	3	SM 2540D	26-Aug-16/O	184	15800	< 3
Hardness (as CaCO ₃)	mg/L	1	SM 3120	23-Aug-16/O	28	615	34
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	22-Aug-16/O	306	708	478
Conductivity @25°C	µmho/cm	1	SM 2510B	22-Aug-16/O	870	1460	1340
TDS (Calc. from Cond.)	mg/L		Calc.	22-Aug-16	615	1060	970
pH @25°C	pH Units		SM 4500H	22-Aug-16/O	7.30	7.88	8.23
Turbidity	NTU	0.1	SM 2130	09-Sep-16/O	237	> 1000	0.4
Nitrite (N)	mg/L	0.1	SM4110C	22-Aug-16/O	< 0.1	< 0.5	< 0.1
Nitrate (N)	mg/L	0.1	SM4110C	22-Aug-16/O	0.1	0.6	31.4
Chloride	mg/L	0.5	SM4110C	22-Aug-16/O	36.5	47.8	54.7
Sulphate	mg/L	1	SM4110C	22-Aug-16/O	< 1	27	34
Total Organic Carbon	mg/L	0.2	EPA 415.1	24-Aug-16/O	120	24.1	16.8
Dissolved Organic Carbon	mg/L	0.2	EPA 415.1	09-Sep-16/O	53.5	8.6	11.8
COD	mg/L	5	SM 5220D	09-Sep-16/O	707	21100	37
Total Kjeldahl Nitrogen	mg/L	0.05	MOEE 3367	07-Sep-16/O	87.4	949	1.61
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	06-Sep-16/O	71.5	3.33	< 0.01
o-Phosphate (P)	mg/L	0.01	MOEE 3366	06-Sep-16/O	7.78	23.8	10.7
Phosphorus-Total	mg/L	0.01	MOEE 3367	07-Sep-16/O	10.6	232	11.4
Phenolics	mg/L	0.001	MOEE 3179	24-Aug-16/O	0.125	< 0.001	< 0.001
Aluminum (total)	mg/L	0.01	SM 3120	23-Aug-16/O	0.66	111	0.10
Arsenic	mg/L	0.0005	EPA 200.8	23-Aug-16/O	< 0.0005	0.0406	< 0.0005
Barium	mg/L	0.001	SM 3120	23-Aug-16/O	0.013	0.887	0.008
Beryllium	mg/L	0.002	SM 3120	23-Aug-16/O	< 0.002	< 0.002	< 0.002
Bismuth	mg/L	0.02	SM 3120	23-Aug-16/O	< 0.02	0.50	< 0.02
Boron	mg/L	0.005	SM 3120	23-Aug-16/O	0.045	1.31	0.230
Calcium	mg/L	0.02	SM 3120	23-Aug-16/O	6.99	177	8.28
Cadmium	mg/L	0.005	SM 3120	23-Aug-16/O	< 0.005	0.015	< 0.005

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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			Sample I.D.	B16-24903-1	B16-24903-2	B16-24903-3	
			Date Collected	17-Aug-16	17-Aug-16	17-Aug-16	
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Chromium	mg/L	0.002	SM 3120	23-Aug-16/O	0.004	0.141	0.005
Cobalt	mg/L	0.005	SM 3120	23-Aug-16/O	< 0.005	0.021	< 0.005
Copper	mg/L	0.002	SM 3120	23-Aug-16/O	0.129	11.6	0.075
Iron (Total)	mg/L	0.005	SM 3120	23-Aug-16/O	0.719	53.9	0.201
Lead	mg/L	0.02	SM 3120	23-Aug-16/O	< 0.02	0.34	< 0.02
Magnesium	mg/L	0.01	SM 3120	23-Aug-16/O	2.65	41.6	3.29
Manganese (Total)	mg/L	0.001	SM 3120	23-Aug-16/O	0.050	2.57	0.025
Mercury	mg/L	0.00002	SM 3112 B	24-Aug-16/O	0.00007	0.0109	< 0.00002
Molybdenum	mg/L	0.01	SM 3120	23-Aug-16/O	< 0.01	0.05	< 0.01
Nickel	mg/L	0.01	SM 3120	23-Aug-16/O	< 0.01	0.16	< 0.01
Potassium	mg/L	0.1	SM 3120	23-Aug-16/O	21.5	68.8	24.9
Silicon	mg/L	0.01	SM 3120	23-Aug-16/O	2.13	28.5	2.76
Silica	mg/L	0.02	SM 3120	23-Aug-16/O	4.57	61.0	5.91
Silver	mg/L	0.005	SM 3120	23-Aug-16/O	< 0.005	0.010	< 0.005
Sodium	mg/L	0.2	SM 3120	23-Aug-16/O	40.1	349	288
Zinc	mg/L	0.005	SM 3120	23-Aug-16/O	0.169	13.9	0.133
Oil & Grease-Total	mg/L	1.0	SM 5520	26-Aug-16/K	77.5	53.7	1.1
Total Coliform	cfu/100mL	1	MOE E3371	22-Aug-16/O	29000000	19000000	< 10
E coli	cfu/100mL	1	MOE E3371	22-Aug-16/O	100000	300000	< 10
Fecal Coliform	cfu/100mL	1	MOE E3371	22-Aug-16/O	100000	600000	< 10
Fecal Strep.	cfu/100mL	1	MOE E3371	22-Aug-16/O	80	270000	< 10

1. Elevated detection limit due to Suspended solids

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