

C.O.C.: ---

REPORT No. B18-13372

Report To:

Hamlet of Pangnirtung

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

Attention: SAO -

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1
Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 16-May-18

JOB/PROJECT NO.: Waste Water

DATE REPORTED: 29-May-18

P.O. NUMBER:

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.	Influent Pan #2	Effluent Pan #3		
			Sample I.D.	B18-13372-1	B18-13372-2		
			Date Collected	14-May-18	14-May-18		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Hardness (as CaCO ₃)	mg/L	1	SM 3120	22-May-18/O	45	40	
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	23-May-18/O	345	35	
pH @25°C	pH Units		SM 4500H	23-May-18/O	7.60	7.27	
Conductivity @25°C	µmho/cm	1	SM 2510B	23-May-18/O	969	590	
TDS(ion sum calc.)	mg/L	1	Calc.	24-May-18/O	461	365	
Total Suspended Solids	mg/L	3	SM 2540D	17-May-18/O	220	< 3	
Turbidity	NTU	0.1	SM 2130	22-May-18/O	228	0.9	
Chloride	mg/L	0.5	SM4110C	18-May-18/O	46.4	58.7	
Nitrite (N)	mg/L	0.1	SM4110C	18-May-18/O	0.1	< 0.1	
Nitrate (N)	mg/L	0.1	SM4110C	18-May-18/O	0.2	26.7	
Sulphate	mg/L	1	SM4110C	18-May-18/O	8	32	
Aluminum	mg/L	0.01	SM 3120	22-May-18/O	0.78	0.03	
Arsenic	mg/L	0.0001	EPA 200.8	18-May-18/O	0.0014	0.0011	
Barium	mg/L	0.001	SM 3120	22-May-18/O	0.022	0.011	
Beryllium	mg/L	0.002	SM 3120	22-May-18/O	< 0.002	< 0.002	
Bismuth	mg/L	0.02	SM 3120	22-May-18/O	< 0.02	< 0.02	
Boron	mg/L	0.005	SM 3120	22-May-18/O	0.173	0.145	
Cadmium	mg/L	0.005	SM 3120	22-May-18/O	< 0.005	< 0.005	
Calcium	mg/L	0.02	SM 3120	22-May-18/O	11.1	10.4	
Chromium	mg/L	0.002	SM 3120	22-May-18/O	< 0.002	< 0.002	
Cobalt	mg/L	0.005	SM 3120	22-May-18/O	< 0.005	< 0.005	
Copper	mg/L	0.002	SM 3120	22-May-18/O	0.167	0.087	
Iron	mg/L	0.005	SM 3120	22-May-18/O	1.53	0.089	
Lead	mg/L	0.02	SM 3120	22-May-18/O	< 0.02	< 0.02	
Lithium	mg/L	0.01	SM 3120	22-May-18/O	< 0.01	< 0.01	
Magnesium	mg/L	0.02	SM 3120	22-May-18/O	4.08	3.48	
Mercury	mg/L	0.00002	SM 3112 B	24-May-18/O	0.00012	< 0.00002	

NOTE: Acceptable Holding Times for Bacteria Parameters exceeded upon arrival at Lab.



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,B-Barrie

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.		B18-13372-1	B18-13372-2		
			Date Collected		14-May-18	14-May-18		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Molybdenum	mg/L	0.01	SM 3120	22-May-18/O	< 0.01	< 0.01		
Manganese	mg/L	0.001	SM 3120	22-May-18/O	0.060	0.024		
Nickel	mg/L	0.01	SM 3120	22-May-18/O	< 0.01	< 0.01		
Silicon	mg/L	0.01	SM 3120	22-May-18/O	< 0.01	< 0.01		
Silver	mg/L	0.005	SM 3120	22-May-18/O	< 0.005	< 0.005		
Sodium	mg/L	0.2	SM 3120	22-May-18/O	46.7	88.3		
Zinc	mg/L	0.005	SM 3120	22-May-18/O	0.178	0.100		
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	23-May-18/O	85.8	< 0.01		
Total Kjeldahl Nitrogen	mg/L	0.1	E3199A.1	22-May-18/K	111	1.9		
o-Phosphate (P)	mg/L	0.01	MOEE 3366	23-May-18/O	9.52	11.4		
Phosphorus-Total	mg/L	0.01	E3199A.1	23-May-18/K	11.2	11.4		
Phenolics	mg/L	0.001	MOEE 3179	24-May-18/O	0.271	< 0.001		
BOD	mg/L	3	SM 5210B	17-May-18/O	178	< 3		
COD	mg/L	5	SM 5220D	25-May-18/O	969	36		
Dissolved Organic Carbon	mg/L	0.2	EPA 415.1	24-May-18/O	58.5	10.1		
Total Organic Carbon	mg/L	0.2	EPA 415.1	23-May-18/O	74.7	31.4		
Oil & Grease-Total	mg/L	1.0	SM 5520	22-May-18/K	41.9	< 1.0		
Total Coliform	cfu/100mL	1	MOE E3371	16-May-18/O	56000000	< 10		
E coli	cfu/100mL	1	MOE E3371	16-May-18/O	840000	< 10		
Fecal Strep.	cfu/100mL	1	MOE E3371	16-May-18/O	85000	< 10		
Fecal Coliform	cfu/100mL	1	MOE E3371	16-May-18/O	2200000	< 10		
Anion Sum	meq/L		Calc.	24-May-18/O	8.49	4.95		
Cation Sum	meq/L		Calc.	24-May-18/O	9.61	5.47		
% Difference	%		Calc.	24-May-18/O	6.17	5.00		
Ion Ratio	AS/CS		Calc.	24-May-18/O	0.884	0.905		
Sodium Adsorption Ratio	-		Calc.	24-May-18/O	3.05	6.05		
Conductivity (calc.)	µmho/cm		Calc.	24-May-18/O	970	596		

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			Date Collected	14-May-18	14-May-18		
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
TDS(calc.)/EC(actual)	-		Calc.	24-May-18/O	0.476	0.618	
EC(calc.)/EC(actual)	-		Calc.	24-May-18/O	1.00	1.01	
Langelier Index(25°C)	S.I.		Calc.	24-May-18/O	-0.279	-1.62	

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