

C.O.C.: ---

REPORT No. B18-26311

Report To:

Hamlet of Pond Inlet

P.O Box 379,
Pond Inlet Nunavut X0A 0S0 Canada

Attention: SAO -

Caduceon Environmental Laboratories

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

DATE RECEIVED: 30-Aug-18

JOB/PROJECT NO.: Landfill Leachate

DATE REPORTED: 07-Sep-18

P.O. NUMBER:

SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.		Landfill Leachate			
			Sample I.D.		B18-26311-1			
			Date Collected		22-Aug-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Hardness (as CaCO ₃)	mg/L	1	SM 3120	05-Sep-18/O	75			
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	31-Aug-18/O	325			
pH @25°C	pH Units		SM 4500H	31-Aug-18/O	7.45			
Conductivity @25°C	µmho/cm	1	SM 2510B	31-Aug-18/O	873			
Total Suspended Solids	mg/L	3	SM 2540D	04-Sep-18/O	300			
Chloride	mg/L	0.5	SM4110C	31-Aug-18/O	57.3			
Nitrite (N)	mg/L	0.1	SM4110C	31-Aug-18/O	< 0.1			
Nitrate (N)	mg/L	0.1	SM4110C	31-Aug-18/O	< 0.1			
Sulphate	mg/L	1	SM4110C	31-Aug-18/O	1			
Aluminum	mg/L	0.01	SM 3120	05-Sep-18/O	0.07			
Arsenic	mg/L	0.0001	EPA 200.8	31-Aug-18/O	0.0002			
Cadmium	mg/L	0.005	SM 3120	05-Sep-18/O	< 0.005			
Calcium	mg/L	0.02	SM 3120	05-Sep-18/O	17.9			
Chromium	mg/L	0.002	SM 3120	05-Sep-18/O	< 0.002			
Cobalt	mg/L	0.005	SM 3120	05-Sep-18/O	< 0.005			
Copper	mg/L	0.002	SM 3120	05-Sep-18/O	0.011			
Iron	mg/L	0.005	SM 3120	05-Sep-18/O	0.854			
Lead	mg/L	0.02	SM 3120	05-Sep-18/O	< 0.02			
Magnesium	mg/L	0.02	SM 3120	05-Sep-18/O	7.36			
Manganese	mg/L	0.001	SM 3120	05-Sep-18/O	0.047			
Mercury	mg/L	0.00002	SM 3112 B	07-Sep-18/O	< 0.00002			
Nickel	mg/L	0.01	SM 3120	05-Sep-18/O	< 0.01			
Potassium	mg/L	0.1	SM 3120	05-Sep-18/O	3.0			
Sodium	mg/L	0.2	SM 3120	05-Sep-18/O	9.9			
Zinc	mg/L	0.005	SM 3120	05-Sep-18/O	0.118			
Ammonia (N)-Total	mg/L	0.01	SM4500-NH ₃ -H	04-Sep-18/K	50.4			

NOTE: Fecal Coliform passed acceptable holding times 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

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			Sample I.D.	B18-26311-1			
			Date Collected	22-Aug-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Phosphorus-Total	mg/L	0.01	E3199A.1	05-Sep-18/K	14.1		
Phenolics	mg/L	0.002	MOEE 3179	06-Sep-18/K	< 0.002		
BOD	mg/L	3	SM 5210B	31-Aug-18/O	36		
Total Organic Carbon	mg/L	0.2	EPA 415.1	04-Sep-18/O	28.3		
Fecal Coliform	cfu/100mL	1	MOE E3371	31-Aug-18/O	< 2		
Benzene	µg/L	0.5	EPA 8260	04-Sep-18/O	< 0.5		
Toluene	µg/L	0.5	EPA 8260	04-Sep-18/O	< 0.5		
Ethylbenzene	µg/L	0.5	EPA 8260	04-Sep-18/O	< 0.5		
Xylene, m,p-	µg/L	0.4	EPA 8260	04-Sep-18/O	< 0.4		
Xylene, o-	µg/L	0.1	EPA 8260	04-Sep-18/O	< 0.1		
Xylene, m,p,o-	µg/L	0.4	EPA 8260	04-Sep-18/O	< 0.4		
Toluene-d8 (SS)	%		EPA 8260	04-Sep-18/O	107		
PHC F1 (C6-C10)	µg/L	20	MOE E3421	04-Sep-18/O	< 20		
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	05-Sep-18/K	60		
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	05-Sep-18/K	< 400		
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	05-Sep-18/K	< 400		
Oil & Grease-Total	mg/L	1.0	SM 5520	06-Sep-18/K	3.8		
Acenaphthene	µg/L	0.05	EPA 8270	04-Sep-18/K	< 0.7		
Acenaphthylene	µg/L	0.05	EPA 8270	04-Sep-18/K	< 0.7		
Anthracene	µg/L	0.05	EPA 8270	04-Sep-18/K	< 0.7		
Benzo(a)anthracene	µg/L	0.05	EPA 8270	04-Sep-18/K	< 0.7		
Benzo(a)pyrene	µg/L	0.01	EPA 8270	04-Sep-18/K	< 0.1		
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	04-Sep-18/K	< 0.7		
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	04-Sep-18/K	< 1		
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	04-Sep-18/K	< 0.7		
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	04-Sep-18/K	< 0.7		
Chrysene	µg/L	0.05	EPA 8270	04-Sep-18/K	< 0.7		

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			Date Collected	22-Aug-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	04-Sep-18/K	< 0.7		
Fluoranthene	µg/L	0.05	EPA 8270	04-Sep-18/K	< 0.7		
Fluorene	µg/L	0.05	EPA 8270	04-Sep-18/K	< 0.7		
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	04-Sep-18/K	< 0.7		
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	04-Sep-18/K	< 0.7		
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	04-Sep-18/K	< 0.7		
Naphthalene	µg/L	0.05	EPA 8270	04-Sep-18/K	< 0.7 ¹		
Phenanthrene	µg/L	0.05	EPA 8270	04-Sep-18/K	< 0.7		
Pyrene	µg/L	0.05	EPA 8270	04-Sep-18/K	< 0.7		
2-Fluorobiphenyl (SS)	% rec.	10	EPA 8270	04-Sep-18/K	82.0		

¹ NOTE: Elevated RL due to sample matrix interferences.

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