

C.O.C.: ---

REPORT No. B16-27149

Report To:

Municipality of Hall Beach
P.O. Box 3,
Hall Beach NU X0A 0K0 Canada
Attention: Kimberly Young

Caduceon Environmental Laboratories

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

DATE RECEIVED: 12-Sep-16

JOB/PROJECT NO.:

DATE REPORTED: 20-Sep-16

P.O. NUMBER:

SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.	Hal 2 Leachate			
			Sample I.D.	B16-27149-1			
			Date Collected	08-Sep-16			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Fecal Coliform	cfu/100mL	1	MOE E3371	12-Sep-16/O	< 10		
BOD	mg/L	3	SM 5210B	14-Sep-16/O	< 3		
Total Suspended Solids	mg/L	3	SM 2540D	13-Sep-16/O	63		
Hardness (as CaCO ₃)	mg/L	1	SM 3120	13-Sep-16/O	477		
Conductivity @25°C	µmho/cm	1	SM 2510B	13-Sep-16/O	1460		
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	13-Sep-16/O	348		
pH @25°C	pH Units		SM 4500H	13-Sep-16/O	7.97		
Total Organic Carbon	mg/L	0.2	EPA 415.1	13-Sep-16/O	6.0		
Chloride	mg/L	0.5	SM4110C	12-Sep-16/O	205		
Nitrite (N)	mg/L	0.1	SM4110C	12-Sep-16/O	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	12-Sep-16/O	0.1		
Sulphate	mg/L	1	SM4110C	12-Sep-16/O	182		
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	13-Sep-16/O	4.37		
Phosphorus-Total	mg/L	0.01	MOEE 3367	14-Sep-16/O	0.05		
Phenolics	mg/L	0.001	MOEE 3179	15-Sep-16/O	< 0.001		
Aluminum (total)	mg/L	0.01	SM 3120	13-Sep-16/O	0.04		
Arsenic	mg/L	0.0005	EPA 200.8	14-Sep-16/O	0.0026		
Cadmium	mg/L	0.005	SM 3120	13-Sep-16/O	< 0.005		
Calcium	mg/L	0.02	SM 3120	13-Sep-16/O	133		
Cobalt	mg/L	0.005	SM 3120	13-Sep-16/O	< 0.005		
Copper	mg/L	0.002	SM 3120	13-Sep-16/O	< 0.002		
Chromium	mg/L	0.002	SM 3120	13-Sep-16/O	< 0.002		
Iron (Total)	mg/L	0.005	SM 3120	13-Sep-16/O	1.20		
Lead	mg/L	0.02	SM 3120	13-Sep-16/O	< 0.02		
Magnesium	mg/L	0.01	SM 3120	13-Sep-16/O	34.9		
Manganese (Total)	mg/L	0.001	SM 3120	13-Sep-16/O	0.079		
Mercury	mg/L	0.00002	SM 3112 B	15-Sep-16/O	< 0.00002		

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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Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Nickel	mg/L	0.01	SM 3120	13-Sep-16/O	< 0.01		
Potassium	mg/L	0.1	SM 3120	13-Sep-16/O	19.1		
Sodium	mg/L	0.2	SM 3120	13-Sep-16/O	132		
Zinc	mg/L	0.005	SM 3120	13-Sep-16/O	< 0.005		
2-Fluorobiphenyl (SS)	% rec.	10	EPA 8270	13-Sep-16/K	80.0		
Acenaphthene	µg/L	0.05	EPA 8270	13-Sep-16/K	< 0.05		
Acenaphthylene	µg/L	0.05	EPA 8270	13-Sep-16/K	< 0.05		
Anthracene	µg/L	0.05	EPA 8270	13-Sep-16/K	< 0.05		
Benzo(a)anthracene	µg/L	0.05	EPA 8270	13-Sep-16/K	< 0.05		
Benzo(a)pyrene	µg/L	0.01	EPA 8270	13-Sep-16/K	< 0.01		
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	13-Sep-16/K	< 0.05		
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	13-Sep-16/K	< 0.1		
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	13-Sep-16/K	< 0.05		
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	13-Sep-16/K	< 0.05		
Chrysene	µg/L	0.05	EPA 8270	13-Sep-16/K	< 0.05		
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	13-Sep-16/K	< 0.05		
Fluoranthene	µg/L	0.05	EPA 8270	13-Sep-16/K	< 0.05		
Fluorene	µg/L	0.05	EPA 8270	13-Sep-16/K	< 0.05		
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	13-Sep-16/K	< 0.05		
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	13-Sep-16/K	< 0.05		
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	13-Sep-16/K	< 0.05		
Naphthalene	µg/L	0.05	EPA 8270	13-Sep-16/K	< 0.05		
Phenanthrene	µg/L	0.05	EPA 8270	13-Sep-16/K	< 0.05		
Pyrene	µg/L	0.05	EPA 8270	13-Sep-16/K	< 0.05		
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	13-Sep-16/K	77.0		
Benzene	µg/L	0.5	EPA 8260	14-Sep-16/O	< 0.5		
Toluene	µg/L	0.5	EPA 8260	14-Sep-16/O	< 0.5		

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Ethylbenzene	µg/L	0.5	EPA 8260	14-Sep-16/O	< 0.5			
Styrene	µg/L	0.5	EPA 8260	14-Sep-16/O	< 0.5			
Xylene, m,p-	µg/L	0.4	EPA 8260	14-Sep-16/O	< 0.4			
Xylene, o-	µg/L	0.1	EPA 8260	14-Sep-16/O	< 0.1			
Dichloroethane-d4,1,2-(SS)	%		EPA 8260	14-Sep-16/O	82.0			
Toluene-d8 (SS)	%		EPA 8260	14-Sep-16/O	101			
Bromofluorobenzene,4(SS)	%		EPA 8260	14-Sep-16/O	98.0			
PHC F1 (C6-C10)	µg/L	20	MOE E3421	14-Sep-16/O	< 20			
Comment-purgeable	-		-	14-Sep-16/O	-			
Oil & Grease-Total	mg/L	1.0	SM 5520	14-Sep-16/K	< 1.0			

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