

C.O.C.: ---

REPORT No. B15-25022

Report To:

Hamlet of Arctic Bay
Box 150,
Arctic Bay NU X0A 0A0 Canada

Attention: Deborah Johnson

Caduceon Environmental Laboratories

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

DATE RECEIVED: 25-Sep-15

JOB/PROJECT NO.: Landfill Leachate - ARC-6 Site

DATE REPORTED: 05-Oct-15

P.O. NUMBER: 17454

SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.		2015 Summer Leachate ARC-6 Site			
			Sample I.D.		B15-25022-1			
			Date Collected		22-Sep-15			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Hardness (as CaCO ₃)	mg/L	1	SM 3120	28-Sep-15/O	295			
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	25-Sep-15/O	182			
pH @25°C	pH Units		SM 4500H	25-Sep-15/O	8.06			
Conductivity @25°C	µmho/cm	1	SM 2510B	25-Sep-15/O	784			
Total Suspended Solids	mg/L	3	SM 2540D	30-Sep-15/O	15			
Chloride	mg/L	0.5	SM4110C	28-Sep-15/O	87.4			
Nitrite (N)	mg/L	0.1	SM4110C	28-Sep-15/O	< 0.1			
Nitrate (N)	mg/L	0.1	SM4110C	28-Sep-15/O	< 0.1			
Sulphate	mg/L	1	SM4110C	28-Sep-15/O	124			
Calcium	mg/L	0.02	SM 3120	28-Sep-15/O	62.1			
Magnesium	mg/L	0.01	SM 3120	28-Sep-15/O	34.0			
Sodium	mg/L	0.2	SM 3120	28-Sep-15/O	51.6			
Potassium	mg/L	0.1	SM 3120	28-Sep-15/O	7.2			
Aluminum	mg/L	0.01	SM 3120	28-Sep-15/O	0.06			
Arsenic	mg/L	0.0005	EPA 200.8	28-Sep-15/O	0.0023			
Cadmium	mg/L	0.005	SM 3120	28-Sep-15/O	< 0.005			
Chromium	mg/L	0.002	SM 3120	28-Sep-15/O	< 0.002			
Cobalt	mg/L	0.005	SM 3120	28-Sep-15/O	< 0.005			
Copper	mg/L	0.002	SM 3120	28-Sep-15/O	< 0.002			
Iron	mg/L	0.005	SM 3120	28-Sep-15/O	4.23			
Lead	mg/L	0.02	SM 3120	28-Sep-15/O	< 0.02			
Manganese	mg/L	0.001	SM 3120	28-Sep-15/O	1.63			
Mercury	mg/L	0.00002	SM 3112 B	28-Sep-15/O	< 0.00002			
Nickel	mg/L	0.01	SM 3120	28-Sep-15/O	< 0.01			
Zinc	mg/L	0.005	SM 3120	28-Sep-15/O	0.005			
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	29-Sep-15/O	0.23			

NOTE: Low Surrogate Recoveries for PAH's



R.L. = Reporting Limit

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

Uncertainty Values available upon request

Greg Clarkin, BSc., C. Chem
Lab Manager - Ottawa District

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Phosphorus-Total	mg/L	0.01	MOEE 3367	30-Sep-15/O	0.23			
Phenolics	mg/L	0.001	MOEE 3179	29-Sep-15/O	< 0.001			
Oil & Grease-Total	mg/L	1.0	SM 5520	29-Sep-15/K	< 1.0			
BOD	mg/L	3	SM 5210B	25-Sep-15/O	6			
Total Organic Carbon	mg/L	0.2	EPA 415.1	28-Sep-15/O	11.2			
Fecal Coliform	cfu/100mL	1	MOE E3371	25-Sep-15/O	<10			
Benzene	µg/L	0.5	EPA 8260	26-Sep-15/O	< 0.5			
Toluene	µg/L	0.5	EPA 8260	26-Sep-15/O	< 0.5			
Ethylbenzene	µg/L	0.5	EPA 8260	26-Sep-15/O	< 0.5			
Xylene, m,p-	µg/L	0.4	EPA 8260	26-Sep-15/O	< 0.4			
Xylene, o-	µg/L	0.1	EPA 8260	26-Sep-15/O	< 0.1			
Xylene, m,p,o-	µg/L	0.4	EPA 8260	26-Sep-15/O	< 0.4			
Toluene-d8 (SS)	%		EPA 8260	26-Sep-15/O	99.0			
PHC F1 (C6-C10)	µg/L	20	MOE E3421	26-Sep-15/O	< 20			
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	29-Sep-15/K	< 50			
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	29-Sep-15/K	< 400			
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	29-Sep-15/K	< 400			
Acenaphthene	µg/L	0.05	EPA 8270	29-Sep-15/K	< 0.3			
Acenaphthylene	µg/L	0.05	EPA 8270	29-Sep-15/K	< 0.3			
Anthracene	µg/L	0.05	EPA 8270	29-Sep-15/K	< 0.3			
Benzo(a)anthracene	µg/L	0.05	EPA 8270	29-Sep-15/K	< 0.3			
Benzo(a)pyrene	µg/L	0.01	EPA 8270	29-Sep-15/K	0.064			
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	29-Sep-15/K	< 0.3			
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	29-Sep-15/K	< 0.6			
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	29-Sep-15/K	< 0.3			
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	29-Sep-15/K	< 0.3			

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Chrysene	µg/L	0.05	EPA 8270	29-Sep-15/K	< 0.3		
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	29-Sep-15/K	< 0.3		
Fluoranthene	µg/L	0.05	EPA 8270	29-Sep-15/K	< 0.3		
Fluorene	µg/L	0.05	EPA 8270	29-Sep-15/K	< 0.3		
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	29-Sep-15/K	< 0.3		
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	29-Sep-15/K	< 0.3		
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	29-Sep-15/K	< 0.3		
Naphthalene	µg/L	0.05	EPA 8270	29-Sep-15/K	< 0.3		
Phenanthrene	µg/L	0.05	EPA 8270	29-Sep-15/K	< 0.3		
Pyrene	µg/L	0.05	EPA 8270	29-Sep-15/K	< 0.3		
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	29-Sep-15/K	49.0		

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