

C.O.C.: ---

REPORT No. B17-27659

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: 19-Sep-17

JOB/PROJECT NO.: Landfill Leachate

DATE REPORTED: 28-Sep-17

P.O. NUMBER: 18115

SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.		Leachate Dump Landfill ARC- 6			
			Sample I.D.		B17-27659-1			
			Date Collected		14-Sep-17			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Hardness (as CaCO ₃)	mg/L	1	SM 3120	20-Sep-17/O	318			
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	19-Sep-17/O	91			
pH @25°C	pH Units		SM 4500H	19-Sep-17/O	7.75			
Conductivity @25°C	µmho/cm	1	SM 2510B	19-Sep-17/O	1120			
Total Suspended Solids	mg/L	3	SM 2540D	26-Sep-17/O	22			
Chloride	mg/L	0.5	SM4110C	19-Sep-17/O	131			
Nitrite (N)	mg/L	0.1	SM4110C	19-Sep-17/O	< 0.1			
Nitrate (N)	mg/L	0.1	SM4110C	19-Sep-17/O	0.1			
Sulphate	mg/L	1	SM4110C	19-Sep-17/O	192			
Aluminum	mg/L	0.01	SM 3120	20-Sep-17/O	0.09			
Arsenic	mg/L	0.0005	EPA 200.8	20-Sep-17/O	0.0010			
Calcium	mg/L	0.02	SM 3120	20-Sep-17/O	64.9			
Cadmium	mg/L	0.005	SM 3120	20-Sep-17/O	< 0.005			
Chromium	mg/L	0.002	SM 3120	20-Sep-17/O	< 0.002			
Cobalt	mg/L	0.005	SM 3120	20-Sep-17/O	< 0.005			
Copper	mg/L	0.002	SM 3120	20-Sep-17/O	0.012			
Iron	mg/L	0.005	SM 3120	20-Sep-17/O	0.860			
Lead	mg/L	0.02	SM 3120	20-Sep-17/O	< 0.02			
Magnesium	mg/L	0.01	SM 3120	20-Sep-17/O	38.0			
Manganese	mg/L	0.001	SM 3120	20-Sep-17/O	0.411			
Mercury	mg/L	0.00002	SM 3112 B	20-Sep-17/O	< 0.00002			
Nickel	mg/L	0.01	SM 3120	20-Sep-17/O	0.01			
Potassium	mg/L	0.1	SM 3120	20-Sep-17/O	14.7			
Sodium	mg/L	0.2	SM 3120	20-Sep-17/O	98.7			
Zinc	mg/L	0.005	SM 3120	20-Sep-17/O	0.077			



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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Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	20-Sep-17/O	0.03			
Phosphorus-Total	mg/L	0.01	MOEE 3367	21-Sep-17/O	0.12			
Phenolics	mg/L	0.001	MOEE 3179	21-Sep-17/O	< 0.001			
BOD	mg/L	3	SM 5210B	21-Sep-17/O	6			
Total Organic Carbon	mg/L	0.2	EPA 415.1	19-Sep-17/O	16.7			
Fecal Coliform	cfu/100mL	1	MOE E3371	19-Sep-17/O	< 10			
Benzene	µg/L	0.5	EPA 8260	22-Sep-17/O	< 0.5			
Toluene	µg/L	0.5	EPA 8260	22-Sep-17/O	< 0.5			
Ethylbenzene	µg/L	0.5	EPA 8260	22-Sep-17/O	< 0.5			
Xylene, m,p-	µg/L	0.4	EPA 8260	22-Sep-17/O	< 0.4			
Xylene, o-	µg/L	0.1	EPA 8260	22-Sep-17/O	< 0.1			
Xylene, m,p,o-	µg/L	0.4	EPA 8260	22-Sep-17/O	< 0.4			
Toluene-d8 (SS)	%		EPA 8260	22-Sep-17/O	99.0			
PHC F1 (C6-C10)	µg/L	20	MOE E3421	22-Sep-17/O	< 20			
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	21-Sep-17/K	< 50			
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	21-Sep-17/K	< 400			
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	21-Sep-17/K	< 400			
Oil & Grease-Total	mg/L	1.0	SM 5520	25-Sep-17/K	< 1.0			
Acenaphthene	µg/L	0.05	EPA 8270	22-Sep-17/K	< 0.5			
Acenaphthylene	µg/L	0.05	EPA 8270	22-Sep-17/K	< 0.5			
Anthracene	µg/L	0.05	EPA 8270	22-Sep-17/K	< 0.5			
Benzo(a)anthracene	µg/L	0.05	EPA 8270	22-Sep-17/K	< 0.5			
Benzo(a)pyrene	µg/L	0.01	EPA 8270	22-Sep-17/K	< 0.09 ¹			
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	22-Sep-17/K	< 0.5			
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	22-Sep-17/K	< 0.9			



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Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	22-Sep-17/K	< 0.5			
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	22-Sep-17/K	< 0.5			
Chrysene	µg/L	0.05	EPA 8270	22-Sep-17/K	< 0.5			
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	22-Sep-17/K	< 0.5			
Fluoranthene	µg/L	0.05	EPA 8270	22-Sep-17/K	< 0.5			
Fluorene	µg/L	0.05	EPA 8270	22-Sep-17/K	< 0.5			
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	22-Sep-17/K	< 0.5			
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	22-Sep-17/K	< 0.5			
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	22-Sep-17/K	< 0.5			
Naphthalene	µg/L	0.05	EPA 8270	22-Sep-17/K	< 0.5			
Phenanthrene	µg/L	0.05	EPA 8270	22-Sep-17/K	< 0.5			
Pyrene	µg/L	0.05	EPA 8270	22-Sep-17/K	< 0.5			
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	22-Sep-17/K	53.0			

1 Note: Elevated MDL due to sample matrix.



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