

C.O.C.: ---

REPORT No. B18-19785

Report To:

Municipality of Cape Dorset

PO Box 30,
Cape Dorset NU X0A 0C0 Canada

Attention: SAO -

Caduceon Environmental Laboratories

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

DATE RECEIVED: 09-Jul-18

JOB/PROJECT NO.: Landfill Leachate

DATE REPORTED: 17-Jul-18

P.O. NUMBER:

SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.	Cap 19	Cap 2	Cap 20	
			Sample I.D.	B18-19785-1	B18-19785-2	B18-19785-3	
			Date Collected	06-Jul-18	04-Jul-18	06-Jul-18	
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Hardness (as CaCO ₃)	mg/L	1	SM 3120	10-Jul-18/O	34	248	20
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	11-Jul-18/O	< 5	68	23
pH @25°C	pH Units		SM 4500H	11-Jul-18/O	7.38	7.77	7.61
Conductivity @25°C	µmho/cm	1	SM 2510B	11-Jul-18/O	53	519	104
Total Suspended Solids	mg/L	3	SM 2540D	10-Jul-18/O	4	3	< 3
Chloride	mg/L	0.5	SM4110C	10-Jul-18/O	7.2	16.5	12.6
Nitrite (N)	mg/L	0.1	SM4110C	10-Jul-18/O	< 0.1	< 0.1	< 0.1
Nitrate (N)	mg/L	0.1	SM4110C	10-Jul-18/O	< 0.1	0.2	< 0.1
Sulphate	mg/L	1	SM4110C	10-Jul-18/O	2	196	5
Aluminum	mg/L	0.01	SM 3120	10-Jul-18/O	2.22	0.08	0.09
Arsenic	mg/L	0.0005	EPA 200.8	11-Jul-18/O	0.0020	0.0007	< 0.0005
Cadmium	mg/L	0.005	SM 3120	10-Jul-18/O	< 0.005	< 0.005	< 0.005
Calcium	mg/L	0.02	SM 3120	10-Jul-18/O	8.46	89.7	5.47
Chromium	mg/L	0.002	SM 3120	10-Jul-18/O	0.005	< 0.002	< 0.002
Cobalt	mg/L	0.005	SM 3120	10-Jul-18/O	< 0.005	< 0.005	0.005
Copper	mg/L	0.002	SM 3120	10-Jul-18/O	0.015	0.006	0.003
Iron	mg/L	0.005	SM 3120	10-Jul-18/O	3.39	0.556	0.174
Lead	mg/L	0.02	SM 3120	10-Jul-18/O	< 0.02	< 0.02	< 0.02
Magnesium	mg/L	0.02	SM 3120	10-Jul-18/O	3.07	5.90	1.57
Manganese	mg/L	0.001	SM 3120	10-Jul-18/O	0.053	0.227	0.019
Mercury	mg/L	0.00002	SM 3112 B	11-Jul-18/O	< 0.00002	< 0.00002	< 0.00002
Nickel	mg/L	0.01	SM 3120	10-Jul-18/O	< 0.01	< 0.01	< 0.01
Potassium	mg/L	0.1	SM 3120	10-Jul-18/O	1.9	5.3	1.4
Sodium	mg/L	0.2	SM 3120	10-Jul-18/O	10.5	17.9	12.1
Zinc	mg/L	0.005	SM 3120	10-Jul-18/O	0.063	0.059	0.007
Ammonia (N)-Total	mg/L	0.01	SM4500-NH ₃ -H	12-Jul-18/K	0.03	0.31	0.06
Phosphorus-Total	mg/L	0.01	E3199A.1	11-Jul-18/K	0.08	0.05	0.03

NOTE: Fecal Coliforms 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

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.	B18-19785-1	B18-19785-2	B18-19785-3	
			Date Collected	06-Jul-18	04-Jul-18	06-Jul-18	
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Phenolics	mg/L	0.001	MOEE 3179	16-Jul-18/K	< 0.001	0.022	< 0.001
BOD	mg/L	3	SM 5210B	09-Jul-18/O	< 3	4	< 3
Total Organic Carbon	mg/L	0.2	EPA 415.1	11-Jul-18/O	1.0	5.9	1.4
Fecal Coliform	cfu/100mL	1	MOE E3371	09-Jul-18/O	10	600	0
Benzene	µg/L	0.5	EPA 8260	09-Jul-18/O	< 0.5	< 0.5	< 0.5
Toluene	µg/L	0.5	EPA 8260	09-Jul-18/O	< 0.5	< 0.5	< 0.5
Ethylbenzene	µg/L	0.5	EPA 8260	09-Jul-18/O	< 0.5	< 0.5	< 0.5
Xylene, m,p-	µg/L	0.4	EPA 8260	09-Jul-18/O	< 0.4	< 0.4	< 0.4
Xylene, o-	µg/L	0.1	EPA 8260	09-Jul-18/O	< 0.1	< 0.1	< 0.1
Xylene, m,p,o-	µg/L	0.4	EPA 8260	09-Jul-18/O	< 0.4	< 0.4	< 0.4
Toluene-d8 (SS)	%		EPA 8260	09-Jul-18/O	96.0	94.0	96.0
PHC F1 (C6-C10)	µg/L	20	MOE E3421	09-Jul-18/O	< 20	< 20	< 20
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	12-Jul-18/K	< 50	< 50	< 50
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	12-Jul-18/K	< 400	< 400	< 400
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	12-Jul-18/K	< 400	< 400	< 400
Oil & Grease-Total	mg/L	1.0	SM 5520	10-Jul-18/K	1.9	1.7	2.1
Acenaphthene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.05	< 0.05	< 0.05
Acenaphthylene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.05	0.11	< 0.05
Anthracene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	µg/L	0.01	EPA 8270	13-Jul-18/K	< 0.01	< 0.01	< 0.01
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.05	< 0.05	< 0.05
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	13-Jul-18/K	< 0.1	< 0.1	< 0.1
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.05	< 0.05	< 0.05
Chrysene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.05	< 0.05	< 0.05

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Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Fluoranthene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.05	< 0.05	< 0.05
Fluorene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.05	0.07	< 0.05
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.05	< 0.05	< 0.05
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.05	0.10	< 0.05
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.05	0.12	< 0.05
Naphthalene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.05	0.27	< 0.05
Phenanthrene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.05	< 0.05	< 0.05
Pyrene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.05	< 0.05	< 0.05
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	13-Jul-18/K	96.0	95.0	97.0

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