

C.O.C.: ---

REPORT No. B17-27116

Report To:

Hamlet of Grise Fiord

P.O. Box 77 Grise Fiord,

Grise Fiord NU X0X 0J0

Attention: David Watsko

Caduceon Environmental Laboratories

2378 Holly Lane

Ottawa Ontario K1V 7P1

Tel: 613-526-0123

Fax: 613-526-1244

DATE RECEIVED: 14-Sep-17

JOB/PROJECT NO.: Landfill Leachate

DATE REPORTED: 21-Sep-17

P.O. NUMBER:

SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.		Leachate			
			Sample I.D.		B17-27116-1			
			Date Collected		05-Sep-17			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Hardness (as CaCO ₃)	mg/L	1	SM 3120	15-Sep-17/O	191			
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	15-Sep-17/O	155			
pH @25°C	pH Units		SM 4500H	15-Sep-17/O	7.88			
Conductivity @25°C	µmho/cm	1	SM 2510B	15-Sep-17/O	393			
Total Suspended Solids	mg/L	3	SM 2540D	19-Sep-17/O	36			
Chloride	mg/L	0.5	SM4110C	14-Sep-17/O	7.7			
Nitrite (N)	mg/L	0.1	SM4110C	14-Sep-17/O	< 0.1			
Nitrate (N)	mg/L	0.1	SM4110C	14-Sep-17/O	1.2			
Sulphate	mg/L	1	SM4110C	14-Sep-17/O	24			
Calcium	mg/L	0.02	SM 3120	15-Sep-17/O	60.7			
Magnesium	mg/L	0.01	SM 3120	15-Sep-17/O	9.49			
Sodium	mg/L	0.2	SM 3120	15-Sep-17/O	10.8			
Potassium	mg/L	0.1	SM 3120	15-Sep-17/O	2.4			
Aluminum	mg/L	0.01	SM 3120	15-Sep-17/O	0.11			
Arsenic	mg/L	0.0005	EPA 200.8	19-Sep-17/O	< 0.0005			
Cadmium	mg/L	0.005	SM 3120	15-Sep-17/O	< 0.005			
Chromium	mg/L	0.002	SM 3120	15-Sep-17/O	< 0.002			
Cobalt	mg/L	0.005	SM 3120	15-Sep-17/O	0.005			
Copper	mg/L	0.002	SM 3120	15-Sep-17/O	0.014			
Iron	mg/L	0.005	SM 3120	15-Sep-17/O	0.840			
Lead	mg/L	0.02	SM 3120	15-Sep-17/O	< 0.02			
Manganese	mg/L	0.001	SM 3120	15-Sep-17/O	0.042			
Mercury	mg/L	0.00002	SM 3112 B	15-Sep-17/O	< 0.00002			
Nickel	mg/L	0.01	SM 3120	15-Sep-17/O	< 0.01			
Zinc	mg/L	0.005	SM 3120	15-Sep-17/O	0.124			
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	18-Sep-17/O	0.04			
Phosphorus-Total	mg/L	0.01	MOEE 3367	19-Sep-17/O	0.24			

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

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

Handwritten: OK 12 MAR 18

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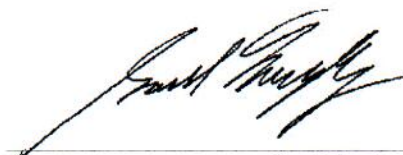
			Client I.D.	Leachate			
			Sample I.D.	B17-27116-1			
			Date Collected	05-Sep-17			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Phenolics	mg/L	0.001	MOEE 3179	18-Sep-17/O	< 0.001		
BOD	mg/L	3	SM 5210B	15-Sep-17/O	4		
Total Organic Carbon	mg/L	0.2	EPA 415.1	14-Sep-17/O	4.4		
Acenaphthene	µg/L	0.05	EPA 8270	21-Sep-17/K	< 0.5		
Acenaphthylene	µg/L	0.05	EPA 8270	21-Sep-17/K	< 0.5		
Anthracene	µg/L	0.05	EPA 8270	21-Sep-17/K	< 0.5		
Benzo(a)anthracene	µg/L	0.05	EPA 8270	21-Sep-17/K	< 0.5		
Benzo(a)pyrene	µg/L	0.01	EPA 8270	21-Sep-17/K	< 0.09		
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	21-Sep-17/K	< 0.5		
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	21-Sep-17/K	< 0.9		
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	21-Sep-17/K	< 0.5		
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	21-Sep-17/K	< 0.5		
Chrysene	µg/L	0.05	EPA 8270	21-Sep-17/K	< 0.5		
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	21-Sep-17/K	< 0.5		
Fluoranthene	µg/L	0.05	EPA 8270	21-Sep-17/K	< 0.5		
Fluorene	µg/L	0.05	EPA 8270	21-Sep-17/K	< 0.5		
Indeno(1,2,3-cd)pyrene	µg/L	0.05	EPA 8270	21-Sep-17/K	< 0.5		
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	21-Sep-17/K	< 0.5		
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	21-Sep-17/K	< 0.5		
Naphthalene	µg/L	0.05	EPA 8270	21-Sep-17/K	< 0.5		
Phenanthrene	µg/L	0.05	EPA 8270	21-Sep-17/K	< 0.5		
Pyrene	µg/L	0.05	EPA 8270	21-Sep-17/K	< 0.5		
2-Fluorobiphenyl (SS)	% rec.	10	EPA 8270	21-Sep-17/K	65.0		
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	21-Sep-17/K	67.0		
Oil & Grease-Total	mg/L	1.0	SM 5520	18-Sep-17/K	< 1.0		
Benzene	µg/L	0.5	EPA 8260	14-Sep-17/O	< 0.5		
Toluene	µg/L	0.5	EPA 8260	14-Sep-17/O	< 0.5		

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			Date Collected	05-Sep-17			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Ethylbenzene	µg/L	0.5	EPA 8260	14-Sep-17/O	< 0.5		
Xylene, m,p-	µg/L	0.4	EPA 8260	14-Sep-17/O	< 0.4		
Styrene	µg/L	0.5	EPA 8260	14-Sep-17/O	< 0.5		
Xylene, o-	µg/L	0.1	EPA 8260	14-Sep-17/O	< 0.1		
Toluene-d8 (SS)	%		EPA 8260	14-Sep-17/O	100		
PHC F1 (C6-C10)	µg/L	20	MOE E3421	14-Sep-17/O	< 20		
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	15-Sep-17/K	< 50		
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	15-Sep-17/K	< 400		
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	15-Sep-17/K	< 400		
Fecal Coliform	cfu/100mL	1	MOE E3371	14-Sep-17/O	10		

1. Note: Elevated MDL due to sample matrix.

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