

C.O.C.: ---

REPORT No. B15-21662

Report To:

Hamlet of Grise Fiord

P.O. Box 77 Grise Fiord,
Grise Fiord NU X0X 0J0

Attention: Marty Quluguktuk

Caduceon Environmental Laboratories

2378 Holly Lane
Ottawa Ontario K1V 7P1

Tel: 613-526-0123

Fax: 613-526-1244

DATE RECEIVED: 24-Aug-15

JOB/PROJECT NO.: Landfill Leachate

DATE REPORTED: 04-Sep-15

P.O. NUMBER:

SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.	Leachate			
			Sample I.D.	B15-21662-1			
			Date Collected	20-Aug-15			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Hardness (as CaCO ₃)	mg/L	1	SM 3120	25-Aug-15/O	240		
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	24-Aug-15/O	212		
pH @25°C	pH Units		SM 4500H	24-Aug-15/O	7.89		
Conductivity @25°C	µmho/cm	1	SM 2510B	24-Aug-15/O	614		
Total Suspended Solids	mg/L	3	SM 2540D	26-Aug-15/O	< 3		
Chloride	mg/L	0.5	SM4110C	25-Aug-15/O	28.0		
Nitrite (N)	mg/L	0.1	SM4110C	25-Aug-15/O	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	25-Aug-15/O	0.9		
Sulphate	mg/L	1	SM4110C	25-Aug-15/O	98		
Calcium	mg/L	0.02	SM 3120	25-Aug-15/O	77.4		
Magnesium	mg/L	0.01	SM 3120	25-Aug-15/O	11.4		
Sodium	mg/L	0.2	SM 3120	25-Aug-15/O	25.1		
Potassium	mg/L	0.1	SM 3120	25-Aug-15/O	5.0		
Aluminum	mg/L	0.01	SM 3120	25-Aug-15/O	0.08		
Arsenic	mg/L	0.0005	EPA 200.8	25-Aug-15/O	0.0008		
Cadmium	mg/L	0.005	SM 3120	25-Aug-15/O	< 0.005		
Chromium	mg/L	0.002	SM 3120	25-Aug-15/O	< 0.002		
Cobalt	mg/L	0.005	SM 3120	25-Aug-15/O	< 0.005		
Copper	mg/L	0.002	SM 3120	25-Aug-15/O	0.008		
Iron	mg/L	0.005	SM 3120	25-Aug-15/O	0.303		
Lead	mg/L	0.02	SM 3120	25-Aug-15/O	< 0.02		
Manganese	mg/L	0.001	SM 3120	25-Aug-15/O	0.073		
Mercury	mg/L	0.00002	SM 3112 B	25-Aug-15/O	< 0.00002		
Nickel	mg/L	0.01	SM 3120	25-Aug-15/O	< 0.01		
Zinc	mg/L	0.005	SM 3120	25-Aug-15/O	0.042		
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	27-Aug-15/O	0.04		
Phosphorus-Total	mg/L	0.01	E3199A.1	02-Sep-15/K	0.02		
Phenolics	mg/L	0.001	MOEE 3179	27-Aug-15/O	< 0.001		

NOTE: The maximum acceptable holding time for Fecal Coliform exceeded upon arrival at Lab.



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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			Date Collected	20-Aug-15			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
BOD	mg/L	3	SM 5210B	24-Aug-15/O	< 3		
Total Organic Carbon	mg/L	0.2	EPA 415.1	26-Aug-15/O	7.1		
Oil & Grease-Total	mg/L	1.0	SM 5520	26-Aug-15/K	1.1		
Fecal Coliform	cfu/100mL	1	MOE E3371	24-Aug-15/O	470		
Benzene	µg/L	0.5	EPA 8260	24-Aug-15/O	< 0.5		
Toluene	µg/L	0.5	EPA 8260	24-Aug-15/O	< 0.5		
Ethylbenzene	µg/L	0.5	EPA 8260	24-Aug-15/O	< 0.5		
Xylene, m,p-	µg/L	0.4	EPA 8260	24-Aug-15/O	< 0.4		
Xylene, o-	µg/L	0.1	EPA 8260	24-Aug-15/O	< 0.1		
Xylene, m,p,o-	µg/L	0.4	EPA 8260	24-Aug-15/O	< 0.4		
Toluene-d8 (SS)	%		EPA 8260	24-Aug-15/O	101		
PHC F1 (C6-C10)	µg/L	20	MOE E3421	24-Aug-15/O	< 20		
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	03-Sep-15/K	< 50		
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	03-Sep-15/K	< 400		
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	03-Sep-15/K	< 400		
Acenaphthene	µg/L	0.05	EPA 8270	27-Aug-15/K	< 0.05		
Acenaphthylene	µg/L	0.05	EPA 8270	27-Aug-15/K	< 0.05		
Anthracene	µg/L	0.05	EPA 8270	27-Aug-15/K	< 0.05		
Benzo(a)anthracene	µg/L	0.05	EPA 8270	27-Aug-15/K	< 0.05		
Benzo(a)pyrene	µg/L	0.01	EPA 8270	27-Aug-15/K	< 0.01		
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	27-Aug-15/K	< 0.05		
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	27-Aug-15/K	< 0.1		
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	27-Aug-15/K	< 0.05		
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	27-Aug-15/K	< 0.05		
Chrysene	µg/L	0.05	EPA 8270	27-Aug-15/K	< 0.05		
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	27-Aug-15/K	< 0.05		
Fluoranthene	µg/L	0.05	EPA 8270	27-Aug-15/K	< 0.05		
Fluorene	µg/L	0.05	EPA 8270	27-Aug-15/K	< 0.05		

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Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	27-Aug-15/K	< 0.05		
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	27-Aug-15/K	< 0.05		
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	27-Aug-15/K	< 0.05		
Naphthalene	µg/L	0.05	EPA 8270	27-Aug-15/K	< 0.05		
Phenanthrene	µg/L	0.05	EPA 8270	27-Aug-15/K	< 0.05		
Pyrene	µg/L	0.05	EPA 8270	27-Aug-15/K	< 0.05		
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	27-Aug-15/K	101		

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