

C.O.C.: G35536

REPORT No. B13-24836

Report To:

Hamlet of Pangnirtung

P.O. Box 253,
Pangnirtung Nunavut X0A 0R0 Canada

Attention: Ron Manseau

Caduceon Environmental Laboratories

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

DATE RECEIVED: 20-Sep-13

JOB/PROJECT NO.: Leachate

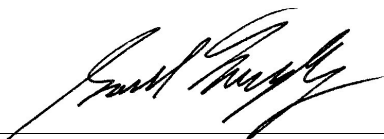
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SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.		Leachate			
			Sample I.D.		B13-24836-1			
			Date Collected		20-Sep-13			
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed				
Fecal Coliform	cfu/100mL	1	MOE E3371	20-Sep-13/O	2000			
BOD	mg/L	3	SM 5210B	21-Sep-13/O	1710			
Total Suspended Solids	mg/L	3	SM 2540D	25-Sep-13/O	5240			
Hardness (as CaCO ₃)	mg/L	1	SM 3120	24-Sep-13/O	1740			
Conductivity @25°C	µmho/cm	1	SM 2510B	23-Sep-13/O	2770			
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	23-Sep-13/O	645			
pH @25°C	pH Units		SM 4500H	23-Sep-13/O	7.55			
Chloride	mg/L	0.5	SM4110C	23-Sep-13/O	261			
Nitrite (N)	mg/L	0.1	SM4110C	23-Sep-13/O	< 0.5	1		
Nitrate (N)	mg/L	0.1	SM4110C	23-Sep-13/O	0.6			
Sulphate	mg/L	1	SM4110C	23-Sep-13/O	675			
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	24-Sep-13/O	29.9			
Phosphorus-Total	mg/L	0.01	MOEE 3367	26-Sep-13/O	60.7			
Phenolics	mg/L	0.001	MOEE 3179	25-Sep-13/O	0.048			
Total Organic Carbon	mg/L	0.2	EPA 415.1	23-Sep-13/O	55.7			
Aluminum (total)	mg/L	0.01	SM 3120	24-Sep-13/O	4.75			
Arsenic	mg/L	0.0001	EPA 200.8	24-Sep-13/O	0.0129			
Calcium	mg/L	0.02	SM 3120	24-Sep-13/O	595			
Cadmium	mg/L	0.005	SM 3120	24-Sep-13/O	0.041			
Cobalt	mg/L	0.005	SM 3120	24-Sep-13/O	0.272			
Copper	mg/L	0.002	SM 3120	24-Sep-13/O	1.78			
Chromium	mg/L	0.002	SM 3120	24-Sep-13/O	0.032			
Iron (Total)	mg/L	0.005	SM 3120	25-Sep-13/O	2040			
Potassium	mg/L	0.1	SM 3120	24-Sep-13/O	52.2			
Magnesium	mg/L	0.01	SM 3120	24-Sep-13/O	61.8			
Manganese (Total)	mg/L	0.001	SM 3120	24-Sep-13/O	14.6			
Mercury	mg/L	0.00002	SM 3112 B	24-Sep-13/O	0.00048			
Sodium	mg/L	0.2	SM 3120	24-Sep-13/O	181			



Gord Murphy
Lab Supervisor

M.D.L. = Method Detection Limit

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

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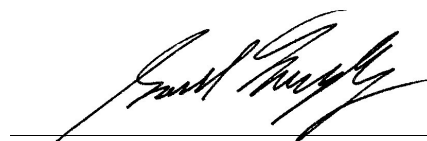
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Nickel	mg/L	0.01	SM 3120	24-Sep-13/O	0.21			
Lead	mg/L	0.02	SM 3120	24-Sep-13/O	0.39			
Zinc	mg/L	0.005	SM 3120	24-Sep-13/O	57.9			
Acenaphthene	µg/L	0.05	EPA 8270	27-Sep-13/K	< 0.2			
Acenaphthylene	µg/L	0.05	EPA 8270	27-Sep-13/K	< 0.2			
Anthracene	µg/L	0.05	EPA 8270	27-Sep-13/K	< 0.2			
Benzo(a)anthracene	µg/L	0.05	EPA 8270	27-Sep-13/K	< 0.2			
Benzo(a)pyrene	µg/L	0.01	EPA 8270	27-Sep-13/K	< 0.04			
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	27-Sep-13/K	< 0.2			
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	27-Sep-13/K	< 0.4			
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	27-Sep-13/K	< 0.2			
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	27-Sep-13/K	< 0.2			
Chrysene	µg/L	0.05	EPA 8270	27-Sep-13/K	< 0.2			
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	27-Sep-13/K	< 0.2			
Fluoranthene	µg/L	0.05	EPA 8270	27-Sep-13/K	< 0.2			
Fluorene	µg/L	0.05	EPA 8270	27-Sep-13/K	< 0.2			
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	27-Sep-13/K	< 0.2			
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	27-Sep-13/K	0.84			
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	27-Sep-13/K	0.72			
Naphthalene	µg/L	0.05	EPA 8270	27-Sep-13/K	0.30	2		
Phenanthrene	µg/L	0.05	EPA 8270	27-Sep-13/K	0.25			
Pyrene	µg/L	0.05	EPA 8270	27-Sep-13/K	< 0.2			
Comment-purgeable	-		-	24-Sep-13	-			
Benzene	µg/L	0.5	EPA 8260	26-Sep-13/R	< 0.5			
Toluene	µg/L	0.5	EPA 8260	26-Sep-13/R	< 0.5			
Ethylbenzene	µg/L	0.5	EPA 8260	26-Sep-13/R	0.6			
Xylene, m,p-	µg/L	1.0	EPA 8260	26-Sep-13/R	1.3			
Xylene, o-	µg/L	0.5	EPA 8260	26-Sep-13/R	1.1			



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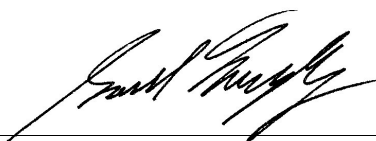
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Xylene, m,p,o-	µg/L	1.1	EPA 8260	26-Sep-13/R	2.4			
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	26-Sep-13/O	110			
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	26-Sep-13/O	< 400			
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	26-Sep-13/O	< 400			
Oil & Grease-Total	mg/L	1.0	SM 5520	27-Sep-13/K	2.5			

1. elevated detection limit due to high chloride & SO

2. Low Surrogate Recovery due to sample matrix



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