

C.O.C.: ---

REPORT No. B14-24588

Report To:

Hamlet of Arctic Bay

Box 150,
Arctic Bay NU X0A 0A0 Canada

Attention: Joeli Qamanirq

Caduceon Environmental Laboratories

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

DATE RECEIVED: 22-Sep-14

JOB/PROJECT NO.: Leachate

DATE REPORTED: 03-Oct-14

P.O. NUMBER: 12929

SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.	Leachate ARC-6 Site			
			Sample I.D.	B14-24588-1			
			Date Collected	18-Sep-14			
Parameter	Units	M.D.L.	Reference Method	Date/Site Analyzed			
Fecal Coliform	cfu/100mL	1	MOE E3371	23-Sep-14/O	400		
BOD	mg/L	3	SM 5210B	24-Sep-14/O	11		
Hardness (as CaCO ₃)	mg/L	1	SM 3120	24-Sep-14/O	360		
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	23-Sep-14/O	99		
Conductivity @25°C	µmho/cm	1	SM 2510B	23-Sep-14/O	1220		
pH @25°C	pH Units		SM 4500H	23-Sep-14/O	7.52		
Total Organic Carbon	mg/L	0.2	EPA 415.1	24-Sep-14/O	27.7		
Total Suspended Solids	mg/L	3	SM 2540D	24-Sep-14/O	44		
Chloride	mg/L	0.5	SM4110C	23-Sep-14/O	209		
Nitrite (N)	mg/L	0.1	SM4110C	23-Sep-14/O	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	23-Sep-14/O	< 0.1		
Sulphate	mg/L	1	SM4110C	23-Sep-14/O	195		
Ammonia (N)-Total	mg/L	0.01	MOEE 3364	25-Sep-14/O	0.30		
Phosphorus-Total	mg/L	0.01	MOEE 3367	01-Oct-14/O	0.21		
Phenolics	mg/L	0.001	MOEE 3179	24-Sep-14/O	< 0.001		
Aluminum (total)	mg/L	0.01	SM 3120	24-Sep-14/O	0.13		
Arsenic	mg/L	0.0005	EPA 200.8	24-Sep-14/O	0.0046		
Calcium	mg/L	0.02	SM 3120	24-Sep-14/O	74.8		
Cadmium	mg/L	0.005	SM 3120	24-Sep-14/O	< 0.005		
Cobalt	mg/L	0.005	SM 3120	24-Sep-14/O	< 0.005		
Copper	mg/L	0.002	SM 3120	24-Sep-14/O	0.006		
Chromium	mg/L	0.002	SM 3120	24-Sep-14/O	< 0.002		
Iron (Total)	mg/L	0.005	SM 3120	24-Sep-14/O	2.30		
Lead	mg/L	0.02	SM 3120	24-Sep-14/O	< 0.02		
Magnesium	mg/L	0.01	SM 3120	24-Sep-14/O	42.1		
Manganese (Total)	mg/L	0.001	SM 3120	24-Sep-14/O	0.848		
Mercury	mg/L	0.00002	SM 3112 B	24-Sep-14/O	< 0.00002		



M.D.L. = Method Detection Limit

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

Gord Murphy

Lab Supervisor

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Nickel	mg/L	0.01	SM 3120	24-Sep-14/O	< 0.01		
Sodium	mg/L	0.2	SM 3120	24-Sep-14/O	84.3		
Potassium	mg/L	0.1	SM 3120	24-Sep-14/O	10.8		
Zinc	mg/L	0.005	SM 3120	24-Sep-14/O	0.032		
Benzene	µg/L	0.5	EPA 8260	24-Sep-14/O	< 0.5		
Toluene	µg/L	0.5	EPA 8260	24-Sep-14/O	< 0.5		
Ethylbenzene	µg/L	0.5	EPA 8260	24-Sep-14/O	< 0.5		
Xylene, m,p-	µg/L	0.4	EPA 8260	24-Sep-14/O	< 0.4		
Styrene	µg/L	0.5	EPA 8260	24-Sep-14/O	< 0.5		
Xylene, o-	µg/L	0.1	EPA 8260	24-Sep-14/O	< 0.1		
Dichloroethane-d4,1,2-(SS)	%		EPA 8260	24-Sep-14/O	126		
Toluene-d8 (SS)	%		EPA 8260	24-Sep-14/O	100		
Bromofluorobenzene,4(SS)	%		EPA 8260	24-Sep-14/O	120		
PHC F1 (C6-C10)	µg/L	20	MOE E3421	24-Sep-14/O	< 20		
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	03-Oct-14/O	< 50		
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	03-Oct-14/O	< 400		
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	03-Oct-14/O	< 400		
Comment-extractable	-		-	03-Oct-14	-		
Oil & Grease-Total	mg/L	1.0	SM 5520	29-Sep-14/K	< 1.0		
Acenaphthene	µg/L	0.05	EPA 8270	26-Sep-14/K	< 0.2		
Acenaphthylene	µg/L	0.05	EPA 8270	26-Sep-14/K	< 0.2		
Anthracene	µg/L	0.05	EPA 8270	26-Sep-14/K	< 0.2		
Benzo(a)anthracene	µg/L	0.05	EPA 8270	26-Sep-14/K	< 0.2		
Benzo(a)pyrene	µg/L	0.01	EPA 8270	26-Sep-14/K	< 0.05		
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	26-Sep-14/K	< 0.2		
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	26-Sep-14/K	< 0.5		
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	26-Sep-14/K	< 0.2		



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Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	26-Sep-14/K	< 0.2		
Chrysene	µg/L	0.05	EPA 8270	26-Sep-14/K	< 0.2		
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	26-Sep-14/K	< 0.2		
Fluoranthene	µg/L	0.05	EPA 8270	26-Sep-14/K	< 0.2		
Fluorene	µg/L	0.05	EPA 8270	26-Sep-14/K	< 0.2		
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	26-Sep-14/K	< 0.2		
Methylnaphthalene, 1-	µg/L	0.05	EPA 8270	26-Sep-14/K	< 0.2		
Methylnaphthalene, 2-	µg/L	0.05	EPA 8270	26-Sep-14/K	< 0.2		
Naphthalene	µg/L	0.05	EPA 8270	26-Sep-14/K	< 0.2		
Phenanthrene	µg/L	0.05	EPA 8270	26-Sep-14/K	< 0.2		
Pyrene	µg/L	0.05	EPA 8270	26-Sep-14/K	< 0.2		
2-Fluorobiphenyl (SS)	% rec.	10	EPA 8270	26-Sep-14/K	76.0		
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	26-Sep-14/K	73.0		

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