

C.O.C.: ---

REPORT No. B18-31562

Report To:

Hamlet of Arctic Bay
Box 150,
Arctic Bay NU X0A 0A0 Canada

Attention: SAO -

Caduceon Environmental Laboratories

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

DATE RECEIVED: 12-Oct-18

JOB/PROJECT NO.:

DATE REPORTED: 25-Oct-18

P.O. NUMBER:

SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.	Landfill Leachate ARC-6			
			Sample I.D.	B18-31562-1			
			Date Collected	25-Sep-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Hardness (as CaCO ₃)	mg/L	1	SM 3120	19-Oct-18/O	383		
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	17-Oct-18/O	147		
pH @25°C	pH Units		SM 4500H	17-Oct-18/O	7.89		
Conductivity @25°C	µmho/cm	1	SM 2510B	17-Oct-18/O	1450		
Total Suspended Solids	mg/L	3	SM 2540D	15-Oct-18/O	19		
Chloride	mg/L	0.5	SM4110C	16-Oct-18/O	221		
Nitrite (N)	mg/L	0.1	SM4110C	16-Oct-18/O	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	16-Oct-18/O	< 0.1		
Sulphate	mg/L	1	SM4110C	16-Oct-18/O	238		
Aluminum	mg/L	0.01	SM 3120	19-Oct-18/O	0.07		
Arsenic	mg/L	0.0005	EPA 200.8	16-Oct-18/O	0.0008		
Cadmium	mg/L	0.005	SM 3120	19-Oct-18/O	< 0.005		
Calcium	mg/L	0.02	SM 3120	19-Oct-18/O	80.1		
Chromium	mg/L	0.002	SM 3120	19-Oct-18/O	0.003		
Cobalt	mg/L	0.005	SM 3120	19-Oct-18/O	0.005		
Copper	mg/L	0.002	SM 3120	19-Oct-18/O	0.018		
Iron	mg/L	0.005	SM 3120	19-Oct-18/O	1.89		
Lead	mg/L	0.02	SM 3120	19-Oct-18/O	< 0.02		
Manganese	mg/L	0.001	SM 3120	19-Oct-18/O	1.10		
Magnesium	mg/L	0.02	SM 3120	19-Oct-18/O	44.5		
Mercury	mg/L	0.00002	SM 3112 B	24-Oct-18/O	< 0.00002		
Nickel	mg/L	0.01	SM 3120	19-Oct-18/O	< 0.01		
Potassium	mg/L	0.1	SM 3120	19-Oct-18/O	24.3		
Sodium	mg/L	0.2	SM 3120	19-Oct-18/O	146		
Zinc	mg/L	0.005	SM 3120	19-Oct-18/O	0.031		

NOTE: Fecal Coliform passed acceptable holding time 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

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

DATE RECEIVED: 12-Oct-18

JOB/PROJECT NO.:

DATE REPORTED: 25-Oct-18

P.O. NUMBER:

SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.	Landfill Leachate ARC-6			
			Sample I.D.	B18-31562-1			
			Date Collected	25-Sep-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Ammonia (N)-Total	mg/L	0.01	SM4500- NH3-H	17-Oct-18/K	0.12		
Phosphorus-Total	mg/L	0.01	E3199A.1	17-Oct-18/K	0.12		
Phenolics	mg/L	0.002	MOEE 3179	19-Oct-18/K	0.005		
BOD	mg/L	3	SM 5210B	15-Oct-18/O	< 3		
Total Organic Carbon	mg/L	0.2	EPA 415.1	18-Oct-18/O	14.6		
Fecal Coliform	cfu/100mL	1	MOE E3371	12-Oct-18/O	< 10		
Acenaphthene	µg/L	0.05	EPA 8270	19-Oct-18/K	< 0.2		
Acenaphthylene	µg/L	0.05	EPA 8270	19-Oct-18/K	< 0.2		
Anthracene	µg/L	0.05	EPA 8270	19-Oct-18/K	< 0.2		
Benzo(a)anthracene	µg/L	0.05	EPA 8270	19-Oct-18/K	< 0.2		
Benzo(a)pyrene	µg/L	0.01	EPA 8270	19-Oct-18/K	< 0.05		
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	19-Oct-18/K	< 0.2		
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	19-Oct-18/K	< 0.5		
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	19-Oct-18/K	< 0.2		
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	19-Oct-18/K	< 0.2		
Chrysene	µg/L	0.05	EPA 8270	19-Oct-18/K	< 0.2		
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	19-Oct-18/K	< 0.2		
Fluoranthene	µg/L	0.05	EPA 8270	19-Oct-18/K	< 0.2		
Fluorene	µg/L	0.05	EPA 8270	19-Oct-18/K	< 0.2		
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	19-Oct-18/K	< 0.2		
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	19-Oct-18/K	< 0.2		
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	19-Oct-18/K	< 0.2		
Naphthalene	µg/L	0.05	EPA 8270	19-Oct-18/K	< 0.2	¹	
Phenanthrene	µg/L	0.05	EPA 8270	19-Oct-18/K	< 0.2		
Pyrene	µg/L	0.05	EPA 8270	19-Oct-18/K	< 0.2		

NOTE: Fecal Coliform passed acceptable holding time upon arrival at Lab.



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

Greg Clarkin , BSc., C. Chem
Lab Manager - Ottawa District

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Hamlet of Arctic Bay
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Attention: SAO -

Caduceon Environmental Laboratories

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

DATE RECEIVED: 12-Oct-18

JOB/PROJECT NO.:

DATE REPORTED: 25-Oct-18

P.O. NUMBER:

SAMPLE MATRIX: Leachate

WATERWORKS NO.

			Client I.D.	Landfill Leachate ARC-6			
			Sample I.D.	B18-31562-1			
			Date Collected	25-Sep-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	19-Oct-18/K	99.0		
Benzene	µg/L	0.5	EPA 8260	15-Oct-18/O	< 0.5		
Toluene	µg/L	0.5	EPA 8260	15-Oct-18/O	< 0.5		
Ethylbenzene	µg/L	0.5	EPA 8260	15-Oct-18/O	< 0.5		
Xylene, m,p-	µg/L	0.4	EPA 8260	15-Oct-18/O	< 0.4		
Xylene, o-	µg/L	0.1	EPA 8260	15-Oct-18/O	< 0.1		
Xylene, m,p,o-	µg/L	0.4	EPA 8260	15-Oct-18/O	< 0.4		
Toluene-d8 (SS)	%		EPA 8260	15-Oct-18/O	108		
PHC F1 (C6-C10)	µg/L	20	MOE E3421	15-Oct-18/O	< 20		
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	17-Oct-18/K	< 50		
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	17-Oct-18/K	< 400		
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	17-Oct-18/K	< 400		
Oil & Grease-Total	mg/L	1.0	SM 5520	17-Oct-18/K	1.9		

1. Note: Elevated MDL due to sample matrix.

NOTE: Fecal Coliform passed acceptable holding time upon arrival at Lab.



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Greg Clarkin, BSc., C. Chem
Lab Manager - Ottawa District

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C.O.C.: ---

REPORT No. B18-30658

Report To:

Hamlet of Arctic Bay
Box 150,
Arctic Bay NU X0A 0A0 Canada

Attention: SAO -

Caduceon Environmental Laboratories

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

DATE RECEIVED: 04-Oct-18

JOB/PROJECT NO.: WW - End of Decant

DATE REPORTED: 18-Oct-18

P.O. NUMBER: 16769

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.	End of Decant W/W			
			Sample I.D.	B18-30658-1			
			Date Collected	24-Sep-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Hardness (as CaCO ₃)	mg/L	1	SM 3120	11-Oct-18/O	350		
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	10-Oct-18/O	532		
pH @25°C	pH Units		SM 4500H	10-Oct-18/O	7.13		
Conductivity @25°C	µmho/cm	1	SM 2510B	10-Oct-18/O	1260		
Total Suspended Solids	mg/L	3	SM2540D	10-Oct-18/K	240		
Chloride	mg/L	0.5	SM4110C	10-Oct-18/O	52.6		
Nitrite (N)	mg/L	0.1	SM4110C	10-Oct-18/O	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	10-Oct-18/O	< 0.1		
Sulphate	mg/L	1	SM4110C	10-Oct-18/O	< 1		
Aluminum	mg/L	0.01	SM 3120	11-Oct-18/O	0.54		
Arsenic	mg/L	0.0005	EPA 200.8	10-Oct-18/O	0.0021		
Cadmium	mg/L	0.005	SM 3120	11-Oct-18/O	< 0.005		
Calcium	mg/L	0.02	SM 3120	11-Oct-18/O	70.0		
Chromium	mg/L	0.002	SM 3120	11-Oct-18/O	0.004		
Cobalt	mg/L	0.005	SM 3120	11-Oct-18/O	0.009		
Copper	mg/L	0.002	SM 3120	11-Oct-18/O	0.028		
Iron	mg/L	0.005	SM 3120	12-Oct-18/O	55.6		
Lead	mg/L	0.02	SM 3120	11-Oct-18/O	< 0.02		
Magnesium	mg/L	0.02	SM 3120	11-Oct-18/O	42.5		
Manganese	mg/L	0.001	SM 3120	11-Oct-18/O	2.40		
Mercury	mg/L	0.00002	SM 3112 B	17-Oct-18/O	< 0.00002		
Nickel	mg/L	0.01	SM 3120	11-Oct-18/O	< 0.01		
Potassium	mg/L	0.1	SM 3120	11-Oct-18/O	16.5		
Sodium	mg/L	0.2	SM 3120	11-Oct-18/O	54.4		
Zinc	mg/L	0.005	SM 3120	11-Oct-18/O	0.046		
Ammonia (N)-Total	mg/L	0.01	SM4500-NH ₃ -H	10-Oct-18/K	50.4		

NOTE: Several parameters including Fecal Coliform were passed acceptable holding times upon arrival at the Lab.



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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

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REPORT No. B18-30658

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Hamlet of Arctic Bay

Box 150,
Arctic Bay NU X0A 0A0 Canada

Attention: SAO -

Caduceon Environmental Laboratories

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

DATE RECEIVED: 04-Oct-18

JOB/PROJECT NO.: WW - End of Decant

DATE REPORTED: 18-Oct-18

P.O. NUMBER: 16769

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.	End of Decant W/W			
			Sample I.D.	B18-30658-1			
			Date Collected	24-Sep-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Phenolics	mg/L	0.002	MOEE 3179	11-Oct-18/K	0.211		
BOD	mg/L	3	SM 5210B	10-Oct-18/O	27		
Total Organic Carbon	mg/L	0.2	EPA 415.1	09-Oct-18/O	43.9		
Oil & Grease-Total	mg/L	1.0	SM 5520	15-Oct-18/K	1.0		
Fecal Coliform	cfu/100mL	1	MOE E3371	05-Oct-18/O	6300		

NOTE: Several parameters including Fecal Coliform were passed acceptable holding times upon arrival at the Lab.



R.L. = Reporting Limit

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

Greg Clarkin , BSc., C. Chem
Lab Manager - Ottawa District

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C.O.C.: ---

REPORT No. B18-28048

Report To:

Hamlet of Arctic Bay
Box 150,
Arctic Bay NU X0A 0A0 Canada

Attention: SAO -

Caduceon Environmental Laboratories

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

DATE RECEIVED: 14-Sep-18

JOB/PROJECT NO.: WW - Middle of Decant

DATE REPORTED: 28-Sep-18

P.O. NUMBER: 16769

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.		Middle of Decant "Annual"			
			Sample I.D.		B18-28048-1			
			Date Collected		11-Sep-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Hardness (as CaCO ₃)	mg/L	1	SM 3120	21-Sep-18/O	77			
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	14-Sep-18/O	351			
pH @25°C	pH Units		SM 4500H	14-Sep-18/O	7.82			
Conductivity @25°C	µmho/cm	1	SM 2510B	14-Sep-18/O	918			
Total Suspended Solids	mg/L	3	SM 2540D	18-Sep-18/O	27			
Chloride	mg/L	0.5	SM4110C	14-Sep-18/O	49.9			
Nitrite (N)	mg/L	0.1	SM4110C	14-Sep-18/O	< 0.1			
Nitrate (N)	mg/L	0.1	SM4110C	14-Sep-18/O	< 0.1			
Sulphate	mg/L	1	SM4110C	14-Sep-18/O	< 1			
Aluminum	mg/L	0.01	SM 3120	21-Sep-18/O	0.21			
Arsenic	mg/L	0.0005	EPA 200.8	17-Sep-18/O	0.0008			
Cadmium	mg/L	0.005	SM 3120	21-Sep-18/O	< 0.005			
Calcium	mg/L	0.02	SM 3120	21-Sep-18/O	15.7			
Chromium	mg/L	0.002	SM 3120	21-Sep-18/O	< 0.002			
Cobalt	mg/L	0.005	SM 3120	21-Sep-18/O	0.006			
Copper	mg/L	0.002	SM 3120	21-Sep-18/O	0.048			
Iron	mg/L	0.005	SM 3120	21-Sep-18/O	0.912			
Lead	mg/L	0.02	SM 3120	21-Sep-18/O	< 0.02			
Magnesium	mg/L	0.02	SM 3120	21-Sep-18/O	9.30			
Manganese	mg/L	0.001	SM 3120	21-Sep-18/O	0.272			
Mercury	mg/L	0.00002	SM 3112 B	20-Sep-18/O	< 0.00002			
Nickel	mg/L	0.01	SM 3120	21-Sep-18/O	< 0.01			
Potassium	mg/L	0.1	SM 3120	21-Sep-18/O	22.0			
Sodium	mg/L	0.2	SM 3120	21-Sep-18/O	47.8			
Zinc	mg/L	0.005	SM 3120	21-Sep-18/O	0.072			

NOTE: Acceptable Holding Time for Fecal Coliform exceeded upon arrival at the Lab.



R.L. = Reporting Limit

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

Greg Clarkin , BSc., C. Chem
Lab Manager - Ottawa District

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REPORT No. B18-28048

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Attention: SAO -

Caduceon Environmental Laboratories

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

DATE RECEIVED: 14-Sep-18

JOB/PROJECT NO.: WW - Middle of Decant

DATE REPORTED: 28-Sep-18

P.O. NUMBER: 16769

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.		Middle of Decant "Annual"			
			Sample I.D.		B18-28048-1			
			Date Collected		11-Sep-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	19-Sep-18/K	67.6			
Phenolics	mg/L	0.002	MOEE 3179	19-Sep-18/K	0.654			
BOD	mg/L	3	SM 5210B	17-Sep-18/O	103			
Total Organic Carbon	mg/L	0.2	EPA 415.1	19-Sep-18/O	54.8			
Oil & Grease-Total	mg/L	1.0	SM 5520	25-Sep-18/K	15.5			
Fecal Coliform	cfu/100mL	1	MOE E3371	14-Sep-18/O	< 1000			

NOTE: Acceptable Holding Time for Fecal Coliform exceeded upon arrival at the Lab.



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Lab Manager - Ottawa District

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REPORT No. B18-25326

Report To:

Hamlet of Arctic Bay
Box 150,
Arctic Bay NU X0A 0A0 Canada

Attention: Deborah Johnson

Caduceon Environmental Laboratories

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

DATE RECEIVED: 23-Aug-18

JOB/PROJECT NO.: Annual Decant Beginning

DATE REPORTED: 30-Aug-18

P.O. NUMBER: 16769

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.		Annual Decant Beginning			
			Sample I.D.		B18-25326-1			
			Date Collected		14-Aug-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Hardness (as CaCO ₃)	mg/L	1	SM 3120	28-Aug-18/O	55			
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	23-Aug-18/O	323			
pH @25°C	pH Units		SM 4500H	23-Aug-18/O	7.75			
Conductivity @25°C	µmho/cm	1	SM 2510B	23-Aug-18/O	926			
Total Suspended Solids	mg/L	3	SM 2540D	24-Aug-18/O	24			
Chloride	mg/L	0.5	SM4110C	23-Aug-18/O	53.4			
Nitrite (N)	mg/L	0.1	SM4110C	23-Aug-18/O	< 0.1			
Nitrate (N)	mg/L	0.1	SM4110C	23-Aug-18/O	< 0.1			
Sulphate	mg/L	1	SM4110C	23-Aug-18/O	< 1			
Aluminum	mg/L	0.01	SM 3120	28-Aug-18/O	0.16			
Arsenic	mg/L	0.0005	EPA 200.8	23-Aug-18/O	0.0010			
Cadmium	mg/L	0.005	SM 3120	28-Aug-18/O	< 0.005			
Calcium	mg/L	0.02	SM 3120	28-Aug-18/O	9.44			
Chromium	mg/L	0.002	SM 3120	28-Aug-18/O	< 0.002			
Cobalt	mg/L	0.005	SM 3120	28-Aug-18/O	< 0.005			
Copper	mg/L	0.002	SM 3120	28-Aug-18/O	0.044			
Iron	mg/L	0.005	SM 3120	28-Aug-18/O	0.828			
Lead	mg/L	0.02	SM 3120	28-Aug-18/O	< 0.02			
Magnesium	mg/L	0.02	SM 3120	28-Aug-18/O	7.70			
Manganese	mg/L	0.001	SM 3120	28-Aug-18/O	0.259			
Mercury	mg/L	0.00002	SM 3112 B	30-Aug-18/O	0.00003			
Nickel	mg/L	0.01	SM 3120	28-Aug-18/O	< 0.01			
Potassium	mg/L	0.1	SM 3120	28-Aug-18/O	21.8			
Sodium	mg/L	0.2	SM 3120	28-Aug-18/O	47.9			
Zinc	mg/L	0.005	SM 3120	28-Aug-18/O	0.073			



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

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Lab Manager - Ottawa District

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Attention: Deborah Johnson

Caduceon Environmental Laboratories

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

DATE RECEIVED: 23-Aug-18

JOB/PROJECT NO.: Annual Decant Beginning

DATE REPORTED: 30-Aug-18

P.O. NUMBER: 16769

SAMPLE MATRIX: Waste Water

WATERWORKS NO.

			Client I.D.		Annual Decant Beginning			
			Sample I.D.		B18-25326-1			
			Date Collected		14-Aug-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	28-Aug-18/K	78.6			
Phenolics	mg/L	0.002	MOEE 3179	27-Aug-18/K	0.599			
BOD	mg/L	3	SM 5210B	24-Aug-18/O	112			
Total Organic Carbon	mg/L	0.2	EPA 415.1	23-Aug-18/O	83.6			
Oil & Grease-Total	mg/L	1.0	SM 5520	27-Aug-18/K	10.4			
Fecal Coliform	cfu/100mL	1	MOE E3371	23-Aug-18/O	44000			

R.L. = Reporting Limit

Test methods are modified from specified reference method unless indicated by an *

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



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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.