

ENVIRONMENTAL WASTE PROCESSING FACILITY

2018 ANNUAL REPORT

Nunavut Water Board
c/o Manager of Licensing
PO Box 119
Gjoa Haven, Nunanut X0B 1J0

September 27, 2019

O/Ref.: QE19-300-3

Confidential document



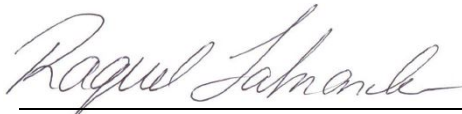
Environmental Waste Processing Facility

2018 ANNUAL REPORT

Confidential document presented to

NUNAVUT WATER BOARD

Prepared and verified by:



Raquel Labranche, P.Eng.
Project Manager

Approved by:



Jennifer Godin
Director

NWB Annual Report

Year being reported:

2018

License No: 1BR-THI1722 Issued Date: May 4, 2017
 Expiry Date: May 3, 2022

Project Name: Hydrocarbon Impacted Water Treatment Facility Project

Licensee: Qikiqtaaluk Environmental Inc.

Mailing Address: PO Box 2110
 2027 Iqaluit Lane
 Iqaluit, NU
 X0A 0H0

Name of Company filing Annual Report (if different from Name of Licensee please clarify relationship between the two entities, if applicable):

Same

General Background Information on the Project (*optional):

Licence Requirements: the licensee must provide the following information in accordance with

A summary report of water use and waste disposal activities, including, but not limited to: methods of obtaining water; sewage and greywater management; drill waste management; solid and hazardous waste management.

Water Source(s):	No water used	
Water Quantity:	0	Quantity Allowable Domestic (cu.m)
	0	Actual Quantity Used Domestic (cu.m)
	0	Quantity Allowable Drilling (cu.m)
	0	Total Quantity Used Drilling (cu.m)

Waste Management and/or Disposal

Additional Details: Hydrocarbon Impacted Water

A list of unauthorized discharges and a summary of follow-up actions taken.

Spill No.: (as reported to the Spill Hot-line)
 Date of Spill:
 Date of Notification to an Inspector:
 Additional Details: (impacts to water, mitigation measures, short/long term monitoring, etc)

N/A

Revisions to the Spill Contingency Plan

Additional Details:

N/A

Revisions to the Abandonment and Restoration Plan

Additional Details:

Progressive Reclamation Work Undertaken

Additional Details (i.e., work completed and future works proposed)

N/A

Results of the Monitoring Program including:

The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where sources of water are utilized;

Additional Details:

No water used.

The GPS Co-ordinates (in degrees, minutes and seconds of latitude and longitude) of each location where wastes associated with the licence are deposited;

Additional Details:

Treated water was discharged at N63°44.640', W068° 35.986'. Associated hazardous waste, if any, is packaged and shipped South to an authorized disposal facility.

Results of any additional sampling and/or analysis that was requested by an Inspector

Additional Details: (date of request, analysis of results, data attached, etc)

N/A

Any other details on water use or waste disposal requested by the Board by November 1 of the year being reported.

Additional Details: (Attached or provided below)

N/A

Any responses or follow-up actions on inspection/compliance reports

Additional Details: (Dates of Report, Follow-up by the Licensee)

N/A

Any additional comments or information for the Board to consider

Attached are the analytical results for water samples collected at monitoring station THI-1 prior to the discharge of treated water on June 30 (~ 46,091 L), August 12 (~ 159 L), August 16 (~ 256 L), September 2 (~ 197 L), and September 9.

Date Submitted:

September 26, 2019

Submitted/Prepared by:

Raquel Labranche

Contact Information:

Tel: 514-208-5981

Fax: N/A

email: rlabranche@qenv.ca

C.O.C.: ---

REPORT No. B18-16772

Report To:

Qikiqtaaluk Env Inc
9935, rue de Chateaufort, Entrée 1
Brossard Quebec J4Z 3V4 Canada

Attention: Olivier Simard

Caduceon Environmental Laboratories

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

DATE RECEIVED: 13-Jun-18

JOB/PROJECT NO.: 1st Batch 2018_QE17-110-2

DATE REPORTED: 15-Jun-18

P.O. NUMBER: 430002170

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

			Client I.D.	RestT1-T2_T3_2018_0612			
			Sample I.D.	B18-16772-1			
			Date Collected	12-Jun-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Hardness (as CaCO ₃)	mg/L	1	SM 3120	14-Jun-18/O	121		
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	13-Jun-18/O	103		
pH @25°C	pH Units		SM 4500H	13-Jun-18/O	7.65		
Conductivity @25°C	µmho/cm	1	SM 2510B	13-Jun-18/O	282		
Total Suspended Solids	mg/L	3	SM 2540D	13-Jun-18/O	18		
Chloride	mg/L	0.5	SM4110C	13-Jun-18/O	11.6		
Nitrite (N)	mg/L	0.1	SM4110C	13-Jun-18/O	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	13-Jun-18/O	< 0.1		
Sulphate	mg/L	1	SM4110C	13-Jun-18/O	12		
Aluminum	mg/L	0.01	SM 3120	14-Jun-18/O	0.12		
Antimony	µg/L	0.1	EPA 200.8	15-Jun-18/O	2.0		
Arsenic	µg/L	0.1	EPA 200.8	15-Jun-18/O	1.0		
Barium	mg/L	0.001	SM 3120	14-Jun-18/O	0.037		
Beryllium	mg/L	0.002	SM 3120	14-Jun-18/O	< 0.002		
Bismuth	mg/L	0.02	SM 3120	14-Jun-18/O	< 0.02		
Boron	mg/L	0.005	SM 3120	14-Jun-18/O	0.247		
Cadmium	µg/L	0.02	EPA 200.8	15-Jun-18/O	0.024		
Calcium	mg/L	0.02	SM 3120	14-Jun-18/O	40.8		
Chromium	mg/L	0.002	SM 3120	14-Jun-18/O	< 0.002		
Chromium (VI)	mg/L	0.002	MOE E3056	14-Jun-18/O	< 0.002		
Cobalt	µg/L	0.1	EPA 200.8	15-Jun-18/O	0.8		
Copper	µg/L	0.1	EPA 200.8	15-Jun-18/O	5.8		
Iron	mg/L	0.005	SM 3120	14-Jun-18/O	1.98		
Lead	µg/L	0.02	EPA 200.8	15-Jun-18/O	4.12		
Magnesium	mg/L	0.02	SM 3120	14-Jun-18/O	4.55		



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

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.

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9935, rue de Chateaufort, Entrée 1
Brossard Quebec J4Z 3V4 Canada

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WATERWORKS NO.

			Client I.D.	RestT1-T2_T3_2018_0612			
			Sample I.D.	B18-16772-1			
			Date Collected	12-Jun-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Molybdenum	mg/L	0.01	SM 3120	14-Jun-18/O	< 0.01		
Potassium	mg/L	0.1	SM 3120	14-Jun-18/O	5.5		
Manganese	mg/L	0.001	SM 3120	14-Jun-18/O	0.577		
Mercury	mg/L	0.00002	SM 3112 B	14-Jun-18/O	< 0.00002		
Nickel	µg/L	0.2	EPA 200.8	15-Jun-18/O	3.7		
Selenium	µg/L	1	EPA 200.8	15-Jun-18/O	< 1		
Silver	µg/L	0.1	EPA 200.8	15-Jun-18/O	< 0.1		
Sodium	mg/L	0.2	SM 3120	14-Jun-18/O	8.6		
Strontium	mg/L	0.001	SM 3120	14-Jun-18/O	0.142		
Thallium	µg/L	0.05	EPA 200.8	15-Jun-18/O	< 0.05		
Tin	mg/L	0.05	SM 3120	14-Jun-18/O	< 0.05		
Uranium	µg/L	0.05	EPA 200.8	15-Jun-18/O	0.08		
Vanadium	mg/L	0.005	SM 3120	14-Jun-18/O	< 0.005		
Yttrium	mg/L	0.005	SM 3120	14-Jun-18/O	< 0.005		
Zinc	mg/L	0.005	SM 3120	14-Jun-18/O	0.045		
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	14-Jun-18/K	0.69		
Phenolics	mg/L	0.001	MOEE 3179	14-Jun-18/O	0.003		
Oil and Grease-Anim/Veg.	mg/L	1.0	SM 5520	15-Jun-18/K	< 1.0		
Oil and Grease-Mineral	mg/L	1.0	SM 5520	15-Jun-18/K	< 1.0		
Oil & Grease-Total	mg/L	1.0	SM 5520	15-Jun-18/K	< 1.0		
Benzene	µg/L	0.5	EPA 8260	13-Jun-18/O	< 0.5		
Toluene	µg/L	0.5	EPA 8260	13-Jun-18/O	2.7		
Ethylbenzene	µg/L	0.5	EPA 8260	13-Jun-18/O	< 0.5		
Xylene, m,p-	µg/L	0.4	EPA 8260	13-Jun-18/O	< 0.4		
Xylene, o-	µg/L	0.1	EPA 8260	13-Jun-18/O	< 0.1		



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Lab Manager - Ottawa District

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Brossard Quebec J4Z 3V4 Canada

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Caduceon Environmental Laboratories

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Ottawa Ontario K1V 7P1
Tel: 613-526-0123
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JOB/PROJECT NO.: 1st Batch 2018_QE17-110-2

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SAMPLE MATRIX: Surface Water

WATERWORKS NO.

			Client I.D.	RestT1-T2_T3_2018_0612			
			Sample I.D.	B18-16772-1			
			Date Collected	12-Jun-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Xylene, m,p,o-	µg/L	0.4	EPA 8260	13-Jun-18/O	< 0.4		
Toluene-d8 (SS)	%		EPA 8260	13-Jun-18/O	103		
PHC F1 (C6-C10)	µg/L	20	MOE E3421	13-Jun-18/O	21		
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	14-Jun-18/K	300		
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	14-Jun-18/K	< 400		
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	14-Jun-18/K	< 400		
Acenaphthene	µg/L	0.05	EPA 8270	15-Jun-18/K	< 0.05		
Acenaphthylene	µg/L	0.05	EPA 8270	15-Jun-18/K	< 0.05		
Anthracene	µg/L	0.05	EPA 8270	15-Jun-18/K	< 0.05		
Benzo(a)anthracene	µg/L	0.05	EPA 8270	15-Jun-18/K	< 0.05		
Benzo(a)pyrene	µg/L	0.01	EPA 8270	15-Jun-18/K	< 0.01		
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	15-Jun-18/K	< 0.05		
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	15-Jun-18/K	< 0.1		
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	15-Jun-18/K	< 0.05		
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	15-Jun-18/K	< 0.05		
Chrysene	µg/L	0.05	EPA 8270	15-Jun-18/K	< 0.05		
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	15-Jun-18/K	< 0.05		
Fluoranthene	µg/L	0.05	EPA 8270	15-Jun-18/K	< 0.05		
Fluorene	µg/L	0.05	EPA 8270	15-Jun-18/K	< 0.05		
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	15-Jun-18/K	< 0.05		
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	15-Jun-18/K	< 0.05		
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	15-Jun-18/K	< 0.05		
Methylnaphthalene 2-(1-)	µg/L	0.07	EPA 8270	15-Jun-18/K	< 0.07		
Naphthalene	µg/L	0.05	EPA 8270	15-Jun-18/K	< 0.05		
Phenanthrene	µg/L	0.05	EPA 8270	15-Jun-18/K	< 0.05		



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9935, rue de Chateaufort, Entrée 1
Brossard Quebec J4Z 3V4 Canada

Attention: Olivier Simard

Caduceon Environmental Laboratories

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

DATE RECEIVED: 13-Jun-18

JOB/PROJECT NO.: 1st Batch 2018_QE17-110-2

DATE REPORTED: 15-Jun-18

P.O. NUMBER: 430002170

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

			Client I.D.	RestT1-T2_T3_2018_0612			
			Sample I.D.	B18-16772-1			
			Date Collected	12-Jun-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Pyrene	µg/L	0.05	EPA 8270	15-Jun-18/K	< 0.05		
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	15-Jun-18/K	99.0		

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

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De : [Monteith, Joseph \(AADNC/AANDC\)](#)
A : [Olivier Simard](#)
Cc : [Allain, Erik \(AADNC/AANDC\)](#); licensing@nwb-oen.ca; [Mesher, Jonathan \(AADNC/AANDC\)](#)
Objet : RE: Water License 1BR-THI1419 - Request for Discharge June 15, 2018
Date : Friday, June 29, 2018 4:26:42 PM
Pièces jointes : [image001.jpg](#)
[image002.png](#)
[image003.jpg](#)

Thank you, You can proceed with the discharge on June 30, 2018 at the Qikiqtaaluk Environmental landfarm, gps location N63°44.640', W068° 35.986'. Thank you for being patient with this request.
Regards, JM

Joseph Monteith
Water Resources Officer
Qikiqtani region
Indigenous and Northern Affairs Canada
P.O. Box 2200
Iqaluit, NU
X0A 0H0
Ph: 867 975-4289
Fax: 867 979-6445
Email:joseph.monteith@canada.ca

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INAC



From: Olivier Simard [<mailto:osimard@qenv.ca>]
Sent: Friday, June 29, 2018 3:22 PM
To: Monteith, Joseph (AADNC/AANDC)
Cc: Allain, Erik (AADNC/AANDC); Mesher, Jonathan (AADNC/AANDC); licensing@nwb-oen.ca
Subject: RE: Water License 1BR-THI1419 - Request for Discharge June 15, 2018

According to the flowmeter readings while we were treating, the total volume of treated water is 46,091L.

Olivier Simard B.Sc.

Project Manager, Northern Projects



2027 Iqaluit Lane, PO Box 2110

Iqaluit, Nunavut X0A 0H0 Canada

Cellular 1 867 222-8194

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De : Monteith, Joseph (AADNC/AANDC) [mailto:joseph.monteith@canada.ca]

Envoyé : juin 29 2018 14:49

À : Olivier Simard

Cc : Allain, Erik (AADNC/AANDC); Mesher, Jonathan (AADNC/AANDC); licensing@nwb-oen.ca

Objet : Water License 1BR-TH1419 - Request for Discharge June 15, 2018

Hello,

As per your request dated June 15, 2018 requesting to discharge onto your site at the Qikiqtaaluk Environmental Land Farm at GPS coordinates: N63°44.640', W068° 35.986'. On June 30, 2018. In our follow up inspection you noted 43,000 Litres, but in the correspondence, you noted 37,000 Litres, can you confirm the amount you'd like to discharge ahead of your discharge date?

Regards,

JM

Joseph Monteith
Water Resources Officer
Qikiqtani region
Indigenous and Northern Affairs Canada
P.O. Box 2200
Iqaluit, NU
X0A 0H0
Ph: 867 975-4289
Fax: 867 979-6445
Email: joseph.monteith@canada.ca

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INAC



C.O.C.: ---

REPORT No. B18-20417

Report To:

Qikiqtaaluk Env Inc
9935, rue de Chateauneuf, Entrée 1
Brossard Quebec J4Z 3V4 Canada

Attention: Olivier Simard

Caduceon Environmental Laboratories

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

DATE RECEIVED: 12-Jul-18

JOB/PROJECT NO.: 2nd Batch 2018_QE17-110-2

DATE REPORTED: 17-Jul-18

P.O. NUMBER: 430002170

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

			Client I.D.		ResT1-T2_T3_20180711			
			Sample I.D.		B18-20417-1			
			Date Collected		11-Jul-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Hardness (as CaCO ₃)	mg/L	1	SM 3120	13-Jul-18/O	91			
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	12-Jul-18/O	41			
pH @25°C	pH Units		SM 4500H	12-Jul-18/O	7.63			
Conductivity @25°C	µmho/cm	1	SM 2510B	12-Jul-18/O	143			
Total Suspended Solids	mg/L	3	SM 2540D	13-Jul-18/O	6			
Chloride	mg/L	0.5	SM4110C	12-Jul-18/O	< 0.5			
Nitrite (N)	mg/L	0.1	SM4110C	12-Jul-18/O	< 0.1			
Nitrate (N)	mg/L	0.1	SM4110C	12-Jul-18/O	< 0.1			
Sulphate	mg/L	1	SM4110C	12-Jul-18/O	< 1			
Calcium	mg/L	0.02	SM 3120	13-Jul-18/O	31.4			
Magnesium	mg/L	0.02	SM 3120	13-Jul-18/O	3.00			
Sodium	mg/L	0.2	SM 3120	13-Jul-18/O	4.1			
Potassium	mg/L	0.1	SM 3120	13-Jul-18/O	2.1			
Antimony	mg/L	0.0001	EPA 200.8	12-Jul-18/O	0.0007			
Aluminum	mg/L	0.01	SM 3120	13-Jul-18/O	0.18			
Arsenic	mg/L	0.0001	EPA 200.8	12-Jul-18/O	0.0005			
Barium	mg/L	0.001	SM 3120	13-Jul-18/O	0.038			
Beryllium	mg/L	0.002	SM 3120	13-Jul-18/O	< 0.002			
Bismuth	mg/L	0.02	SM 3120	13-Jul-18/O	< 0.02			
Boron	mg/L	0.005	SM 3120	13-Jul-18/O	0.023			
Cadmium	mg/L	0.000015	EPA 200.8	12-Jul-18/O	0.000020			
Chromium	mg/L	0.001	EPA 200.8	12-Jul-18/O	< 0.001			
Chromium (VI)	mg/L	0.001	MOE E3056	13-Jul-18/O	< 0.001 ¹			
Cobalt	mg/L	0.0001	EPA 200.8	12-Jul-18/O	0.0010			
Copper	mg/L	0.0001	EPA 200.8	12-Jul-18/O	0.0054			
Iron	mg/L	0.005	SM 3120	13-Jul-18/O	0.377			



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P.O. NUMBER: 430002170

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

			Client I.D.		ResT1-T2_T3_2018 0711			
			Sample I.D.		B18-20417-1			
			Date Collected		11-Jul-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Lead	mg/L	0.00002	EPA 200.8	12-Jul-18/O	0.00110			
Molybdenum	mg/L	0.0001	EPA 200.8	12-Jul-18/O	0.0004			
Nickel	mg/L	0.0002	EPA 200.8	12-Jul-18/O	0.0028			
Manganese	mg/L	0.001	SM 3120	13-Jul-18/O	0.329			
Mercury	mg/L	0.00002	SM 3112 B	13-Jul-18/O	< 0.00002			
Selenium	mg/L	0.001	EPA 200.8	12-Jul-18/O	< 0.001			
Silver	mg/L	0.0001	EPA 200.8	12-Jul-18/O	< 0.0001			
Strontium	mg/L	0.001	SM 3120	13-Jul-18/O	0.161			
Thallium	mg/L	0.00005	EPA 200.8	12-Jul-18/O	< 0.00005			
Tin	mg/L	0.05	SM 3120	13-Jul-18/O	< 0.05			
Uranium	mg/L	0.00005	EPA 200.8	12-Jul-18/O	0.00007			
Vanadium	mg/L	0.005	SM 3120	13-Jul-18/O	< 0.005			
Yttrium	mg/L	0.005	SM 3120	13-Jul-18/O	< 0.005			
Zinc	mg/L	0.005	SM 3120	13-Jul-18/O	0.043			
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	13-Jul-18/K	0.10			
Phenolics	mg/L	0.001	MOEE 3179	14-Jul-18/O	0.147			
Benzene	µg/L	0.5	EPA 8260	14-Jul-18/O	1.2			
Toluene	µg/L	0.5	EPA 8260	14-Jul-18/O	11.7			
Ethylbenzene	µg/L	0.5	EPA 8260	14-Jul-18/O	< 0.5			
Xylene, m,p-	µg/L	0.4	EPA 8260	14-Jul-18/O	1.3			
Xylene, o-	µg/L	0.1	EPA 8260	14-Jul-18/O	1.6			
Xylene, m,p,o-	µg/L	0.4	EPA 8260	14-Jul-18/O	3.0			
Toluene-d8 (SS)	%		EPA 8260	14-Jul-18/O	87.0			
PHC F1 (C6-C10)	µg/L	20	MOE E3421	14-Jul-18/O	113			
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	16-Jul-18/K	5200			



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

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.

C.O.C.: ---

REPORT No. B18-20417

Report To:

Qikiqtaaluk Env Inc
9935, rue de Chateauneuf, Entrée 1
Brossard Quebec J4Z 3V4 Canada

Attention: Olivier Simard

Caduceon Environmental Laboratories

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

DATE RECEIVED: 12-Jul-18

JOB/PROJECT NO.: 2nd Batch 2018_QE17-110-2

DATE REPORTED: 17-Jul-18

P.O. NUMBER: 430002170

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

			Client I.D.		ResT1-T2_T3_20180711			
			Sample I.D.		B18-20417-1			
			Date Collected		11-Jul-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	16-Jul-18/K	< 400			
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	16-Jul-18/K	< 400			
Oil & Grease-Total	mg/L	1.0	SM 5520	16-Jul-18/K	24.8			
Acenaphthene	µg/L	0.05	EPA 8270	13-Jul-18/K	0.89			
Acenaphthylene	µg/L	0.05	EPA 8270	13-Jul-18/K	1.31			
Anthracene	µg/L	0.05	EPA 8270	13-Jul-18/K	1.12			
Benzo(a)anthracene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.2			
Benzo(a)pyrene	µg/L	0.01	EPA 8270	13-Jul-18/K	< 0.05			
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.2			
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	13-Jul-18/K	< 0.5			
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.2			
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.2			
Chrysene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.2			
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.2			
Fluoranthene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.2			
Fluorene	µg/L	0.05	EPA 8270	13-Jul-18/K	0.47			
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.2			
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.2			
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.2			
Methylnaphthalene 2-(1-)	µg/L	0.07	EPA 8270	13-Jul-18/K	< 0.07			
Naphthalene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.2 ²			
Phenanthrene	µg/L	0.05	EPA 8270	13-Jul-18/K	1.03			
Pyrene	µg/L	0.05	EPA 8270	13-Jul-18/K	< 0.2			
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	13-Jul-18/K	98.0			

1 Chromium (VI) result is based on total chromium

2 NOTE: Elevated RL's for select PAH's due to sample matrix interferences.



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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C.O.C.: ---

REPORT No. B18-21507

Report To:

Qikiqtaaluk Env Inc
9935, rue de Chateauneuf, Entrée 1
Brossard Quebec J4Z 3V4 Canada

Attention: Olivier Simard

Caduceon Environmental Laboratories

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

DATE RECEIVED: 23-Jul-18

JOB/PROJECT NO.: 3rd Batch 2018_QE17-110-2

DATE REPORTED: 25-Jul-18

P.O. NUMBER: 430002170

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

			Client I.D.		ResT1-T2_T3_2018 0722			
			Sample I.D.		B18-21507-1			
			Date Collected		22-Jul-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Hardness (as CaCO3)	mg/L	1	SM 3120	24-Jul-18/O	161			
Alkalinity(CaCO3) to pH4.5	mg/L	5	SM 2320B	23-Jul-18/O	95			
pH @25°C	pH Units		SM 4500H	23-Jul-18/O	7.26			
Conductivity @25°C	µmho/cm	1	SM 2510B	23-Jul-18/O	443			
Total Suspended Solids	mg/L	3	SM2540D	24-Jul-18/K	12			
Chloride	mg/L	0.5	SM4110C	23-Jul-18/O	13.3			
Nitrite (N)	mg/L	0.1	SM4110C	23-Jul-18/O	< 0.1			
Nitrate (N)	mg/L	0.1	SM4110C	23-Jul-18/O	< 0.1			
Sulphate	mg/L	1	SM4110C	23-Jul-18/O	86			
Arsenic	mg/L	0.0001	EPA 200.8	24-Jul-18/O	0.0008			
Cadmium	mg/L	0.000015	EPA 200.8	24-Jul-18/O	0.000351			
Chromium	mg/L	0.001	EPA 200.8	24-Jul-18/O	0.001			
Chromium (VI)	mg/L	0.002	MOE E3056	24-Jul-18/O	< 0.002 ¹			
Copper	mg/L	0.0001	EPA 200.8	24-Jul-18/O	0.0309			
Iron	mg/L	0.005	SM 3120	24-Jul-18/O	3.49			
Nickel	mg/L	0.0002	EPA 200.8	24-Jul-18/O	0.0119			
Mercury	mg/L	0.00002	SM 3112 B	24-Jul-18/O	< 0.00002			
Zinc	mg/L	0.005	SM 3120	24-Jul-18/O	1.36			
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	25-Jul-18/K	0.24			
Phenolics	mg/L	0.001	MOEE 3179	25-Jul-18/K	1.10			
Benzene	µg/L	0.5	EPA 8260	24-Jul-18/O	9.1			
Toluene	µg/L	0.5	EPA 8260	24-Jul-18/O	121			
Ethylbenzene	µg/L	0.5	EPA 8260	24-Jul-18/O	10.2			
Xylene, m,p-	µg/L	0.4	EPA 8260	24-Jul-18/O	29.8			
Xylene, o-	µg/L	0.1	EPA 8260	24-Jul-18/O	20.1			



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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. B18-21507

Report To:

Qikiqtaaluk Env Inc
9935, rue de Chateaufort, Entrée 1
Brossard Quebec J4Z 3V4 Canada

Attention: Olivier Simard

Caduceon Environmental Laboratories

2378 Holly Lane
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Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 23-Jul-18

JOB/PROJECT NO.: 3rd Batch 2018_QE17-110-2

DATE REPORTED: 25-Jul-18

P.O. NUMBER: 430002170

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

			Client I.D.		ResT1-T2_T3_2018 0722			
			Sample I.D.		B18-21507-1			
			Date Collected		22-Jul-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Xylene, m,p,o-	µg/L	0.4	EPA 8260	24-Jul-18/O	49.9			
Toluene-d8 (SS)	%		EPA 8260	24-Jul-18/O	98.0			
PHC F1 (C6-C10)	µg/L	20	MOE E3421	24-Jul-18/O	756			
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	24-Jul-18/K	12700			
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	24-Jul-18/K	800			
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	24-Jul-18/K	< 400			
Oil & Grease-Total	mg/L	1.0	SM 5520	25-Jul-18/K	29.3			
Acenaphthene	µg/L	0.05	EPA 8270	25-Jul-18/K	< 1.0			
Acenaphthylene	µg/L	0.05	EPA 8270	25-Jul-18/K	< 1.0			
Anthracene	µg/L	0.05	EPA 8270	25-Jul-18/K	< 1.0			
Benzo(a)anthracene	µg/L	0.05	EPA 8270	25-Jul-18/K	< 1.0			
Benzo(a)pyrene	µg/L	0.01	EPA 8270	25-Jul-18/K	< 0.2			
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	25-Jul-18/K	< 1.0			
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	25-Jul-18/K	< 2			
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	25-Jul-18/K	< 1.0			
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	25-Jul-18/K	< 1.0			
Chrysene	µg/L	0.05	EPA 8270	25-Jul-18/K	< 1.0			
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	25-Jul-18/K	< 1.0			
Fluoranthene	µg/L	0.05	EPA 8270	25-Jul-18/K	< 1.0			
Fluorene	µg/L	0.05	EPA 8270	25-Jul-18/K	< 1.0			
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	25-Jul-18/K	< 1.0			
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	25-Jul-18/K	< 1.0			
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	25-Jul-18/K	< 1.0			
Methylnaphthalene 2-(1-)	µg/L	0.07	EPA 8270	25-Jul-18/K	< 0.07			
Naphthalene	µg/L	0.05	EPA 8270	25-Jul-18/K	< 1.0 ²			
Phenanthrene	µg/L	0.05	EPA 8270	25-Jul-18/K	< 1.0			

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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C.O.C.: ---

REPORT No. B18-21507

Report To:

Qikiqtaaluk Env Inc
9935, rue de Chateauneuf, Entrée 1
Brossard Quebec J4Z 3V4 Canada

Attention: Olivier Simard

Caduceon Environmental Laboratories

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

DATE RECEIVED: 23-Jul-18

JOB/PROJECT NO.: 3rd Batch 2018_QE17-110-2

DATE REPORTED: 25-Jul-18

P.O. NUMBER: 430002170

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

			Client I.D.	ResT1-T2_T3_2018 0722			
			Sample I.D.	B18-21507-1			
			Date Collected	22-Jul-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Pyrene	µg/L	0.05	EPA 8270	25-Jul-18/K	< 1.0		
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	25-Jul-18/K	105		

1. Chromium (VI) result is based on total chromium
2. NOTE: Elevated RL's for PAH's due to sample matrix interferences.



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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C.O.C.: ---

REPORT No. B18-23370

Report To:

Qikiqtaaluk Env Inc

9935, rue de Chateauneuf, Entrée 1
Brossard Quebec J4Z 3V4 Canada

Attention: Olivier Simard

Caduceon Environmental Laboratories

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

DATE RECEIVED: 07-Aug-18

JOB/PROJECT NO.: QE17-110-2_Insta-Berm

DATE REPORTED: 10-Aug-18

P.O. NUMBER: 430002170

SAMPLE MATRIX: Surface Water

WATERWORKS NO. 2018-8-05

			Client I.D.	InstaBerm-180805			
			Sample I.D.	B18-23370-1			
			Date Collected	05-Aug-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Hardness (as CaCO ₃)	mg/L	1	SM 3120	08-Aug-18/O	237		
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	08-Aug-18/O	68		
pH @25°C	pH Units		SM 4500H	08-Aug-18/O	8.18		
Conductivity @25°C	µmho/cm	1	SM 2510B	08-Aug-18/O	624		
Total Suspended Solids	mg/L	3	SM 2540D	09-Aug-18/O	< 3		
Chloride	mg/L	0.5	SM4110C	08-Aug-18/O	14.6		
Nitrite (N)	mg/L	0.1	SM4110C	08-Aug-18/O	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	08-Aug-18/O	< 0.1		
Sulphate	mg/L	1	SM4110C	08-Aug-18/O	225		
Aluminum	mg/L	0.01	SM 3120	08-Aug-18/O	0.11		
Antimony	mg/L	0.0001	EPA 200.8	08-Aug-18/O	0.0039		
Arsenic	mg/L	0.0001	EPA 200.8	08-Aug-18/O	0.0342		
Barium	mg/L	0.001	SM 3120	08-Aug-18/O	0.041		
Beryllium	mg/L	0.002	SM 3120	08-Aug-18/O	< 0.002		
Boron	mg/L	0.005	SM 3120	08-Aug-18/O	0.069		
Bismuth	mg/L	0.02	SM 3120	08-Aug-18/O	< 0.02		
Cadmium	mg/L	0.000015	EPA 200.8	08-Aug-18/O	0.000025		
Calcium	mg/L	0.02	SM 3120	08-Aug-18/O	82.1		
Chromium	mg/L	0.001	EPA 200.8	08-Aug-18/O	< 0.001		
Chromium (VI)	mg/L	0.002	MOE E3056	08-Aug-18/O	< 0.002		
Cobalt	mg/L	0.0001	EPA 200.8	08-Aug-18/O	0.0007		
Cobalt	mg/L	0.005	SM 3120	08-Aug-18/O	< 0.005		
Copper	mg/L	0.0001	EPA 200.8	08-Aug-18/O	0.0016		
Iron	mg/L	0.005	SM 3120	08-Aug-18/O	0.157		
Lead	mg/L	0.00002	EPA 200.8	08-Aug-18/O	0.00010		
Magnesium	mg/L	0.02	SM 3120	08-Aug-18/O	7.82		
Manganese	mg/L	0.001	SM 3120	08-Aug-18/O	0.354		



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. B18-23370

Report To:

Qikiqtaaluk Env Inc

9935, rue de Chateaufort, Entrée 1
Brossard Quebec J4Z 3V4 Canada

Attention: Olivier Simard

Caduceon Environmental Laboratories

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

DATE RECEIVED: 07-Aug-18

JOB/PROJECT NO.: QE17-110-2_Insta-Berm

DATE REPORTED: 10-Aug-18

P.O. NUMBER: 430002170

SAMPLE MATRIX: Surface Water

WATERWORKS NO. 2018-8-05

			Client I.D.	InstaBerm-180805			
			Sample I.D.	B18-23370-1			
			Date Collected	05-Aug-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Mercury	mg/L	0.00002	SM 3112 B	09-Aug-18/O	< 0.00002		
Molybdenum	mg/L	0.0001	EPA 200.8	08-Aug-18/O	0.0043		
Nickel	mg/L	0.0002	EPA 200.8	08-Aug-18/O	0.0031		
Potassium	mg/L	0.1	SM 3120	08-Aug-18/O	7.5		
Selenium	mg/L	0.001	EPA 200.8	08-Aug-18/O	< 0.001		
Silver	mg/L	0.0001	EPA 200.8	08-Aug-18/O	< 0.0001		
Sodium	mg/L	0.2	SM 3120	08-Aug-18/O	33.9		
Strontium	mg/L	0.001	SM 3120	08-Aug-18/O	0.285		
Tin	mg/L	0.05	SM 3120	08-Aug-18/O	< 0.05		
Titanium	mg/L	0.005	SM 3120	08-Aug-18/O	< 0.005		
Uranium	mg/L	0.00005	EPA 200.8	08-Aug-18/O	0.00108		
Vanadium	mg/L	0.005	SM 3120	08-Aug-18/O	< 0.005		
Yttrium	mg/L	0.005	SM 3120	08-Aug-18/O	< 0.005		
Zinc	mg/L	0.005	SM 3120	08-Aug-18/O	0.020		
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	09-Aug-18/K	0.17		
Phenolics	mg/L	0.002	MOEE 3179	10-Aug-18/K	0.003		
Benzene	µg/L	0.5	EPA 8260	09-Aug-18/O	< 0.5		
Toluene	µg/L	0.5	EPA 8260	09-Aug-18/O	< 0.5		
Ethylbenzene	µg/L	0.5	EPA 8260	09-Aug-18/O	< 0.5		
Xylene, m,p-	µg/L	0.4	EPA 8260	09-Aug-18/O	< 0.4		
Xylene, o-	µg/L	0.1	EPA 8260	09-Aug-18/O	< 0.1		
Xylene, m,p,o-	µg/L	0.4	EPA 8260	09-Aug-18/O	< 0.4		
Toluene-d8 (SS)	%		EPA 8260	09-Aug-18/O	99.0		
PHC F1 (C6-C10)	µg/L	20	MOE E3421	09-Aug-18/O	< 20		
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	09-Aug-18/K	< 50		
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	09-Aug-18/K	< 400		



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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C.O.C.: ---

REPORT No. B18-23370

Report To:

Qikiqtaaluk Env Inc

9935, rue de Chateauneuf, Entrée 1
Brossard Quebec J4Z 3V4 Canada

Attention: Olivier Simard

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Tel: 613-526-0123
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DATE RECEIVED: 07-Aug-18

JOB/PROJECT NO.: QE17-110-2_Insta-Berm

DATE REPORTED: 10-Aug-18

P.O. NUMBER: 430002170

SAMPLE MATRIX: Surface Water

WATERWORKS NO. 2018-8-05

			Client I.D.	InstaBerm-180805			
			Sample I.D.	B18-23370-1			
			Date Collected	05-Aug-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	09-Aug-18/K	< 400		
Oil & Grease-Total	mg/L	1.0	SM 5520	09-Aug-18/K	< 1.0		
Acenaphthene	µg/L	0.05	EPA 8270	10-Aug-18/K	< 0.05		
Acenaphthylene	µg/L	0.05	EPA 8270	10-Aug-18/K	< 0.05		
Anthracene	µg/L	0.05	EPA 8270	10-Aug-18/K	< 0.05		
Benzo(a)anthracene	µg/L	0.05	EPA 8270	10-Aug-18/K	< 0.05		
Benzo(a)pyrene	µg/L	0.01	EPA 8270	10-Aug-18/K	< 0.01		
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	10-Aug-18/K	< 0.05		
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	10-Aug-18/K	< 0.1		
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	10-Aug-18/K	< 0.05		
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	10-Aug-18/K	< 0.05		
Chrysene	µg/L	0.05	EPA 8270	10-Aug-18/K	< 0.05		
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	10-Aug-18/K	< 0.05		
Fluoranthene	µg/L	0.05	EPA 8270	10-Aug-18/K	< 0.05		
Fluorene	µg/L	0.05	EPA 8270	10-Aug-18/K	< 0.05		
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	10-Aug-18/K	< 0.05		
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	10-Aug-18/K	< 0.05		
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	10-Aug-18/K	< 0.05		
Methylnaphthalene 2-(1-)	µg/L	0.07	EPA 8270	10-Aug-18/K	< 0.07		
Naphthalene	µg/L	0.05	EPA 8270	10-Aug-18/K	< 0.05		
Phenanthrene	µg/L	0.05	EPA 8270	10-Aug-18/K	< 0.05		
Pyrene	µg/L	0.05	EPA 8270	10-Aug-18/K	< 0.05		
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	10-Aug-18/K	97.0		

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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De : [Olivier Simard](#)
A : ["Monteith, Joseph \(AADNC/AANDC\)"](#)
Cc : ["Jennifer Godin \(jgodin@genv.ca\)"; Raphaël Gagnon \(rgagnon@sanexen.com\)](#)
Objet : QE Discharge of treated water
Date : Sunday, August 12, 2018 2:51:00 PM
Pièces jointes : [B18-23370_R.pdf](#)
[image002.png](#)
[image004.jpg](#)

Hello Joseph,

We received results for treated water that are below our Licence criteria (see attached). We will discharge right away and start treatment of a new batch. Should you have any question please let me know. Thank you.

Olivier Simard B.Sc.

Project Manager, Northern Projects



2027 Iqaluit Lane, PO Box 2110

Iqaluit, Nunavut X0A 0H0 Canada

Cellular 1 867 222-8194

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C.O.C.: ---

REPORT No. B18-23995

Report To:

Qikiqtaaluk Env Inc

9935, rue de Chateaufort, Entrée 1
Brossard Quebec J4Z 3V4 Canada

Attention: Olivier Simard

Caduceon Environmental Laboratories

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

DATE RECEIVED: 13-Aug-18

JOB/PROJECT NO.: QE17-110-2_Wt Tx2018

DATE REPORTED: 16-Aug-18

P.O. NUMBER: 430002170

SAMPLE MATRIX: Surface Water

WATERWORKS NO. 5th Batch

			Client I.D.	InstaBerm-180812			
			Sample I.D.	B18-23995-1			
			Date Collected	12-Aug-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Hardness (as CaCO ₃)	mg/L	1	SM 3120	16-Aug-18/O	274		
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	14-Aug-18/O	57		
pH @25°C	pH Units		SM 4500H	14-Aug-18/O	7.47		
Conductivity @25°C	µmho/cm	1	SM 2510B	14-Aug-18/O	658		
Total Suspended Solids	mg/L	3	SM 2540D	14-Aug-18/O	11		
Chloride	mg/L	0.5	SM4110C	14-Aug-18/O	13.8		
Nitrite (N)	mg/L	0.1	SM4110C	14-Aug-18/O	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	14-Aug-18/O	< 0.1		
Sulphate	mg/L	1	SM4110C	14-Aug-18/O	248		
Aluminum	mg/L	0.005	SM 3120	16-Aug-18/O	0.114		
Antimony	mg/L	0.0001	EPA 200.8	14-Aug-18/O	0.0238		
Arsenic	mg/L	0.0001	EPA 200.8	14-Aug-18/O	0.0081		
Barium	mg/L	0.001	SM 3120	16-Aug-18/O	0.071		
Beryllium	mg/L	0.002	SM 3120	16-Aug-18/O	< 0.002		
Boron	mg/L	0.005	SM 3120	16-Aug-18/O	0.047		
Bismuth	mg/L	0.02	SM 3120	16-Aug-18/O	< 0.02		
Cadmium	mg/L	0.000015	EPA 200.8	14-Aug-18/O	0.000375		
Calcium	mg/L	0.02	SM 3120	16-Aug-18/O	95.2		
Chromium	mg/L	0.001	EPA 200.8	14-Aug-18/O	< 0.001		
Chromium (VI)	mg/L	0.002	MOE E3056	14-Aug-18/O	< 0.002		
Cobalt	mg/L	0.0001	EPA 200.8	14-Aug-18/O	0.0043		
Copper	mg/L	0.0001	EPA 200.8	14-Aug-18/O	0.0022		
Iron	mg/L	0.005	SM 3120	16-Aug-18/O	0.463		
Lead	mg/L	0.00002	EPA 200.8	14-Aug-18/O	0.00129		
Magnesium	mg/L	0.02	SM 3120	16-Aug-18/O	8.71		
Manganese	mg/L	0.001	SM 3120	16-Aug-18/O	2.80		
Mercury	mg/L	0.00002	SM 3112 B	15-Aug-18/O	< 0.00002		



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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REPORT No. B18-23995

Report To:

Qikiqtaaluk Env Inc

9935, rue de Chateauneuf, Entrée 1
Brossard Quebec J4Z 3V4 Canada

Attention: Olivier Simard

Caduceon Environmental Laboratories

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

DATE RECEIVED: 13-Aug-18

JOB/PROJECT NO.: QE17-110-2_Wt Tx2018

DATE REPORTED: 16-Aug-18

P.O. NUMBER: 430002170

SAMPLE MATRIX: Surface Water

WATERWORKS NO. 5th Batch

			Client I.D.	InstaBerm-180812			
			Sample I.D.	B18-23995-1			
			Date Collected	12-Aug-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Molybdenum	mg/L	0.0001	EPA 200.8	14-Aug-18/O	0.0015		
Nickel	mg/L	0.0002	EPA 200.8	14-Aug-18/O	0.0113		
Potassium	mg/L	0.1	SM 3120	16-Aug-18/O	6.2		
Selenium	mg/L	0.001	EPA 200.8	14-Aug-18/O	< 0.001		
Silver	mg/L	0.0001	EPA 200.8	14-Aug-18/O	< 0.0001		
Sodium	mg/L	0.2	SM 3120	16-Aug-18/O	29.3		
Strontium	mg/L	0.001	SM 3120	16-Aug-18/O	0.292		
Tin	mg/L	0.05	SM 3120	16-Aug-18/O	< 0.05		
Titanium	mg/L	0.005	SM 3120	16-Aug-18/O	< 0.005		
Uranium	mg/L	0.00005	EPA 200.8	14-Aug-18/O	0.00039		
Vanadium	mg/L	0.005	SM 3120	16-Aug-18/O	< 0.005		
Yttrium	mg/L	0.005	SM 3120	16-Aug-18/O	< 0.005		
Zinc	mg/L	0.005	SM 3120	16-Aug-18/O	0.024		
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	16-Aug-18/K	0.33		
Phenolics	mg/L	0.002	MOEE 3179	15-Aug-18/K	< 0.002		
Benzene	µg/L	0.5	EPA 8260	14-Aug-18/O	< 0.5		
Toluene	µg/L	0.5	EPA 8260	14-Aug-18/O	< 0.5		
Ethylbenzene	µg/L	0.5	EPA 8260	14-Aug-18/O	< 0.5		
Xylene, m,p-	µg/L	0.4	EPA 8260	14-Aug-18/O	< 0.4		
Xylene, o-	µg/L	0.1	EPA 8260	14-Aug-18/O	< 0.1		
Xylene, m,p,o-	µg/L	0.4	EPA 8260	14-Aug-18/O	< 0.4		
Toluene-d8 (SS)	%		EPA 8260	14-Aug-18/O	99.0		
PHC F1 (C6-C10)	µg/L	20	MOE E3421	14-Aug-18/O	< 20		
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	16-Aug-18/K	< 50		
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	16-Aug-18/K	< 400		
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	16-Aug-18/K	< 400		



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

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9935, rue de Chateauneuf, Entrée 1
Brossard Quebec J4Z 3V4 Canada

Attention: Olivier Simard

Caduceon Environmental Laboratories

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

DATE RECEIVED: 13-Aug-18

JOB/PROJECT NO.: QE17-110-2_Wt Tx2018

DATE REPORTED: 16-Aug-18

P.O. NUMBER: 430002170

SAMPLE MATRIX: Surface Water

WATERWORKS NO. 5th Batch

			Client I.D.	InstaBerm-180812			
			Sample I.D.	B18-23995-1			
			Date Collected	12-Aug-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Oil & Grease-Total	mg/L	1.0	SM 5520	16-Aug-18/K	13.2		
Acenaphthene	µg/L	0.05	EPA 8270	16-Aug-18/K	< 0.05		
Acenaphthylene	µg/L	0.05	EPA 8270	16-Aug-18/K	< 0.05		
Anthracene	µg/L	0.05	EPA 8270	16-Aug-18/K	< 0.05		
Benzo(a)anthracene	µg/L	0.05	EPA 8270	16-Aug-18/K	< 0.05		
Benzo(a)pyrene	µg/L	0.01	EPA 8270	16-Aug-18/K	< 0.01		
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	16-Aug-18/K	< 0.05		
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	16-Aug-18/K	< 0.1		
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	16-Aug-18/K	< 0.05		
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	16-Aug-18/K	< 0.05		
Chrysene	µg/L	0.05	EPA 8270	16-Aug-18/K	< 0.05		
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	16-Aug-18/K	< 0.05		
Fluoranthene	µg/L	0.05	EPA 8270	16-Aug-18/K	< 0.05		
Fluorene	µg/L	0.05	EPA 8270	16-Aug-18/K	< 0.05		
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	16-Aug-18/K	< 0.05		
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	16-Aug-18/K	< 0.05		
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	16-Aug-18/K	< 0.05		
Methylnaphthalene 2-(1-)	µg/L	0.07	EPA 8270	16-Aug-18/K	< 0.07		
Naphthalene	µg/L	0.05	EPA 8270	16-Aug-18/K	< 0.05		
Phenanthrene	µg/L	0.05	EPA 8270	16-Aug-18/K	< 0.05		
Pyrene	µg/L	0.05	EPA 8270	16-Aug-18/K	< 0.05		
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	16-Aug-18/K	93.0		

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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De : [Olivier Simard](#)
A : ["Monteith, Joseph \(AADNC/AANDC\)"](#)
Cc : ["Jennifer Godin \(jgodin@qenv.ca\)"; Raphaël Gagnon \(rgagnon@sanexen.com\)](#)
Objet : RE: QE Discharge of treated water
Date : Thursday, August 16, 2018 4:32:00 PM
Pièces jointes : [B18-23995_R.pdf](#)
[image001.png](#)
[image003.jpg](#)
[image005.png](#)
[image006.jpg](#)

Hello again Joseph,

Another batch treated and analysed (see attached). All parameters within our discharge criteria. We will discharge and start another batch right away. Thank you.

Olivier Simard B.Sc.

Project Manager, Northern Projects



2027 Iqaluit Lane, PO Box 2110

Iqaluit, Nunavut X0A 0H0 Canada

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De : Olivier Simard [mailto:osimard@qenv.ca]

Envoyé : août 12 2018 14:51

À : 'Monteith, Joseph (AADNC/AANDC)'

Cc : 'Jennifer Godin (jgodin@qenv.ca)'; Raphaël Gagnon (rgagnon@sanexen.com)

Objet : QE Discharge of treated water

Hello Joseph,

We received results for treated water that are below our Licence criteria (see attached). We will discharge right away and start treatment of a new batch. Should you have any question please let me know. Thank you.

Olivier Simard B.Sc.

Project Manager, Northern Projects



2027 Iqaluit Lane, PO Box 2110

Iqaluit, Nunavut X0A 0H0 Canada

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C.O.C.: ---

REPORT No. B18-25794 (ii)

Report To:

Qikiqtaaluk Env Inc
9935, rue de Chateauneuf, Entrée 1
Brossard Quebec J4Z 3V4 Canada

Attention: Olivier Simard

Caduceon Environmental Laboratories

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

DATE RECEIVED: 28-Aug-18

JOB/PROJECT NO.: EWPF Soils Treatment 2018

DATE REPORTED: 04-Sep-18

P.O. NUMBER: 430002267

SAMPLE MATRIX: Soil

WATERWORKS NO. Pad A 2018-08-27

			Client I.D.	A18-1 20180827	A18-2 20180827	A18-3 20180827	A18-4 20180827
			Sample I.D.	B18-25794-1	B18-25794-2	B18-25794-3	B18-25794-4
			Date Collected	27-Aug-18	27-Aug-18	27-Aug-18	27-Aug-18
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Acenaphthene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Acenaphthylene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Anthracene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Benzo(b+k)fluoranthene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Benzo(g,h,i)perylene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Chrysene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Fluoranthene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Fluorene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Indeno(1,2,3,-cd)pyrene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Methylnaphthalene,1-	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Methylnaphthalene,2-	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Methylnaphthalene 2-(1-)	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Naphthalene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Phenanthrene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Pyrene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	03-Sep-18/K	83.0	91.0	92.0

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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Qikiqtaaluk Env Inc
9935, rue de Chateauneuf, Entrée 1
Brossard Quebec J4Z 3V4 Canada

Attention: Olivier Simard

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

DATE RECEIVED: 28-Aug-18

JOB/PROJECT NO.: EWPF Soils Treatment 2018

DATE REPORTED: 04-Sep-18

P.O. NUMBER: 430002267

SAMPLE MATRIX: Soil

WATERWORKS NO. Pad A 2018-08-27

			Client I.D.	A18-5 20180827	A18-6 20180827	A18-7 20180827	A18-8 20180827
			Sample I.D.	B18-25794-5	B18-25794-6	B18-25794-7	B18-25794-8
			Date Collected	27-Aug-18	27-Aug-18	27-Aug-18	27-Aug-18
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Acenaphthene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Acenaphthylene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Anthracene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Benzo(a)anthracene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Benzo(a)pyrene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Benzo(b)fluoranthene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Benzo(b+k)fluoranthene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Benzo(g,h,i)perylene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Benzo(k)fluoranthene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Chrysene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Dibenzo(a,h)anthracene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Fluoranthene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Fluorene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Indeno(1,2,3,-cd)pyrene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Methylnaphthalene,1-	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Methylnaphthalene,2-	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Methylnaphthalene 2-(1-)	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Naphthalene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Phenanthrene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Pyrene	µg/g	0.05	EPA 8270	03-Sep-18/K	< 0.05	< 0.05	< 0.05
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	03-Sep-18/K	93.0	92.0	84.0

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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C.O.C.: ---

REPORT No. B18-26526

Report To:

Qikiqtaaluk Env Inc

9935, rue de Chateauneuf, Entrée 1
Brossard Quebec J4Z 3V4 Canada

Attention: Olivier Simard

Caduceon Environmental Laboratories

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

DATE RECEIVED: 04-Sep-18

JOB/PROJECT NO.: QE17-110-2 Wt Tx2018 7th Batch

DATE REPORTED: 06-Sep-18

P.O. NUMBER: 430002170

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

			Client I.D.		Instaberm-180902			
			Sample I.D.		B18-26526-1			
			Date Collected		02-Sep-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Hardness (as CaCO ₃)	mg/L	1	SM 3120	05-Sep-18/O	360			
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	04-Sep-18/O	61			
pH @25°C	pH Units		SM 4500H	04-Sep-18/O	7.97			
Conductivity @25°C	µmho/cm	1	SM 2510B	04-Sep-18/O	806			
Total Suspended Solids	mg/L	3	SM 2540D	05-Sep-18/O	4			
Chloride	mg/L	0.5	SM4110C	04-Sep-18/O	20.7			
Nitrite (N)	mg/L	0.1	SM4110C	04-Sep-18/O	< 0.1			
Nitrate (N)	mg/L	0.1	SM4110C	04-Sep-18/O	< 0.1			
Sulphate	mg/L	1	SM4110C	04-Sep-18/O	338			
Aluminum	mg/L	0.01	SM 3120	05-Sep-18/O	0.09			
Antimony	mg/L	0.0001	EPA 200.8	04-Sep-18/O	0.0010			
Arsenic	mg/L	0.0001	EPA 200.8	04-Sep-18/O	0.0014			
Barium	mg/L	0.001	SM 3120	05-Sep-18/O	0.035			
Beryllium	mg/L	0.002	SM 3120	05-Sep-18/O	< 0.002			
Boron	mg/L	0.005	SM 3120	05-Sep-18/O	0.029			
Bismuth	mg/L	0.02	SM 3120	05-Sep-18/O	< 0.02			
Cadmium	mg/L	0.000015	EPA 200.8	04-Sep-18/O	0.000033			
Calcium	mg/L	0.02	SM 3120	05-Sep-18/O	134			
Chromium	mg/L	0.001	EPA 200.8	04-Sep-18/O	< 0.001			
Chromium (VI)	mg/L	0.001	MOE E3056	05-Sep-18/O	< 0.001			
Cobalt	mg/L	0.0001	EPA 200.8	04-Sep-18/O	0.0019			
Copper	mg/L	0.0001	EPA 200.8	04-Sep-18/O	0.0007			
Iron	mg/L	0.005	SM 3120	05-Sep-18/O	0.471			
Lead	mg/L	0.00002	EPA 200.8	04-Sep-18/O	0.00012			
Magnesium	mg/L	0.02	SM 3120	05-Sep-18/O	6.17			
Manganese	mg/L	0.001	SM 3120	05-Sep-18/O	1.01			
Mercury	mg/L	0.00002	SM 3112 B	05-Sep-18/O	< 0.00002			



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SAMPLE MATRIX: Surface Water

WATERWORKS NO.

			Client I.D.		Instaberm-180902			
			Sample I.D.		B18-26526-1			
			Date Collected		02-Sep-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Molybdenum	mg/L	0.0001	EPA 200.8	04-Sep-18/O	0.0032			
Nickel	mg/L	0.0002	EPA 200.8	04-Sep-18/O	0.0054			
Potassium	mg/L	0.1	SM 3120	05-Sep-18/O	5.6			
Selenium	mg/L	0.001	EPA 200.8	04-Sep-18/O	< 0.001			
Sodium	mg/L	0.2	SM 3120	05-Sep-18/O	20.5			
Silver	mg/L	0.0001	EPA 200.8	04-Sep-18/O	< 0.0001			
Strontium	mg/L	0.001	SM 3120	05-Sep-18/O	0.278			
Tin	mg/L	0.05	SM 3120	05-Sep-18/O	< 0.05			
Titanium	mg/L	0.005	SM 3120	05-Sep-18/O	< 0.005			
Vanadium	mg/L	0.005	SM 3120	05-Sep-18/O	< 0.005			
Yttrium	mg/L	0.005	SM 3120	05-Sep-18/O	< 0.005			
Uranium	mg/L	0.00005	EPA 200.8	04-Sep-18/O	0.00012			
Zinc	mg/L	0.005	SM 3120	05-Sep-18/O	0.014			
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	06-Sep-18/K	0.38			
Phenolics	mg/L	0.002	MOEE 3179	06-Sep-18/K	< 0.002			
Acenaphthene	µg/L	0.05	EPA 8270	06-Sep-18/K	< 0.05			
Acenaphthylene	µg/L	0.05	EPA 8270	06-Sep-18/K	< 0.05			
Anthracene	µg/L	0.05	EPA 8270	06-Sep-18/K	< 0.05			
Benzo(a)anthracene	µg/L	0.05	EPA 8270	06-Sep-18/K	< 0.05			
Benzo(a)pyrene	µg/L	0.01	EPA 8270	06-Sep-18/K	< 0.01			
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	06-Sep-18/K	< 0.05			
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	06-Sep-18/K	< 0.1			
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	06-Sep-18/K	< 0.05			
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	06-Sep-18/K	< 0.05			
Chrysene	µg/L	0.05	EPA 8270	06-Sep-18/K	< 0.05			
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	06-Sep-18/K	< 0.05			



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Tel: 613-526-0123
Fax: 613-526-1244

DATE RECEIVED: 04-Sep-18

JOB/PROJECT NO.: QE17-110-2 Wt Tx2018 7th Batch

DATE REPORTED: 06-Sep-18

P.O. NUMBER: 430002170

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

			Client I.D.		Instaberm-180902			
			Sample I.D.		B18-26526-1			
			Date Collected		02-Sep-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Fluoranthene	µg/L	0.05	EPA 8270	06-Sep-18/K	< 0.05			
Fluorene	µg/L	0.05	EPA 8270	06-Sep-18/K	< 0.05			
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	06-Sep-18/K	< 0.05			
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	06-Sep-18/K	< 0.05			
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	06-Sep-18/K	< 0.05			
Methylnaphthalene 2-(1-)	µg/L	0.07	EPA 8270	06-Sep-18/K	< 0.07			
Naphthalene	µg/L	0.05	EPA 8270	06-Sep-18/K	< 0.05			
Phenanthrene	µg/L	0.05	EPA 8270	06-Sep-18/K	< 0.05			
Pyrene	µg/L	0.05	EPA 8270	06-Sep-18/K	< 0.05			
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	06-Sep-18/K	99.0			
Benzene	µg/L	0.5	EPA 8260	04-Sep-18/O	< 0.5			
Toluene	µg/L	0.5	EPA 8260	04-Sep-18/O	< 0.5			
Ethylbenzene	µg/L	0.5	EPA 8260	04-Sep-18/O	< 0.5			
Xylene, m,p-	µg/L	0.4	EPA 8260	04-Sep-18/O	< 0.4			
Xylene, o-	µg/L	0.1	EPA 8260	04-Sep-18/O	< 0.1			
Xylene, m,p,o-	µg/L	0.4	EPA 8260	04-Sep-18/O	< 0.4			
Toluene-d8 (SS)	%		EPA 8260	04-Sep-18/O	106			
PHC F1 (C6-C10)	µg/L	20	MOE E3421	04-Sep-18/O	< 20			
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	05-Sep-18/K	< 50			
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	05-Sep-18/K	< 400			
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	05-Sep-18/K	< 400			
Oil & Grease-Total	mg/L	1.0	SM 5520	06-Sep-18/K	< 1.0			

1 Chromium (VI) result is based on total Chromium

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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REPORT No. B18-27755

Report To:

Qikiqtaaluk Env Inc
9935, rue de Chateauneuf, Entrée 1
Brossard Quebec J4Z 3V4 Canada

Attention: Olivier Simard

Caduceon Environmental Laboratories

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

DATE RECEIVED: 12-Sep-18

JOB/PROJECT NO.: QE17-110-2 Wt Tx2018_8 Batch

DATE REPORTED: 14-Sep-18

P.O. NUMBER: 430002170

SAMPLE MATRIX: Surface Water

WATERWORKS NO.

			Client I.D.	Instaberm-180909			
			Sample I.D.	B18-27755-1			
			Date Collected	09-Sep-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Hardness (as CaCO ₃)	mg/L	1	SM 3120	13-Sep-18/O	404		
Alkalinity(CaCO ₃) to pH4.5	mg/L	5	SM 2320B	12-Sep-18/O	82		
pH @25°C	pH Units		SM 4500H	12-Sep-18/O	7.55		
Conductivity @25°C	µmho/cm	1	SM 2510B	12-Sep-18/O	877		
Total Suspended Solids	mg/L	3	SM 2540D	13-Sep-18/O	7		
Chloride	mg/L	0.5	SM4110C	12-Sep-18/O	19.7		
Nitrite (N)	mg/L	0.1	SM4110C	12-Sep-18/O	< 0.1		
Nitrate (N)	mg/L	0.1	SM4110C	12-Sep-18/O	< 0.1		
Sulphate	mg/L	1	SM4110C	13-Sep-18/O	340		
Aluminum	mg/L	0.01	SM 3120	13-Sep-18/O	0.25		
Antimony	mg/L	0.0001	EPA 200.8	14-Sep-18/O	0.0010		
Arsenic	mg/L	0.0001	EPA 200.8	14-Sep-18/O	0.0009		
Barium	mg/L	0.001	SM 3120	13-Sep-18/O	0.035		
Beryllium	mg/L	0.002	SM 3120	13-Sep-18/O	< 0.002		
Boron	mg/L	0.005	SM 3120	13-Sep-18/O	0.025		
Bismuth	mg/L	0.02	SM 3120	13-Sep-18/O	< 0.02		
Cadmium	mg/L	0.000015	EPA 200.8	14-Sep-18/O	0.000127		
Calcium	mg/L	0.02	SM 3120	13-Sep-18/O	150		
Chromium	mg/L	0.001	EPA 200.8	14-Sep-18/O	< 0.001		
Chromium (VI)	mg/L	0.001	MOE E3056	14-Sep-18/O	< 0.001		
Cobalt	mg/L	0.0001	EPA 200.8	14-Sep-18/O	0.0014		
Copper	mg/L	0.0001	EPA 200.8	14-Sep-18/O	0.0054		
Iron	mg/L	0.005	SM 3120	13-Sep-18/O	0.723		
Lead	mg/L	0.00002	EPA 200.8	14-Sep-18/O	0.00058		
Magnesium	mg/L	0.02	SM 3120	13-Sep-18/O	7.04		
Manganese	mg/L	0.001	SM 3120	13-Sep-18/O	1.63		
Mercury	mg/L	0.00002	SM 3112 B	13-Sep-18/O	< 0.00002		



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

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Brossard Quebec J4Z 3V4 Canada

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DATE REPORTED: 14-Sep-18

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SAMPLE MATRIX: Surface Water

WATERWORKS NO.

			Client I.D.	Instaberm-180909			
			Sample I.D.	B18-27755-1			
			Date Collected	09-Sep-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed			
Molybdenum	mg/L	0.0001	EPA 200.8	14-Sep-18/O	0.0036		
Nickel	mg/L	0.0002	EPA 200.8	14-Sep-18/O	0.0013		
Potassium	mg/L	0.1	SM 3120	13-Sep-18/O	7.8		
Selenium	mg/L	0.001	EPA 200.8	14-Sep-18/O	< 0.001		
Sodium	mg/L	0.2	SM 3120	13-Sep-18/O	24.3		
Silver	mg/L	0.0001	EPA 200.8	14-Sep-18/O	< 0.0001		
Strontium	mg/L	0.001	SM 3120	13-Sep-18/O	0.304		
Tin	mg/L	0.05	SM 3120	13-Sep-18/O	< 0.05		
Titanium	mg/L	0.005	SM 3120	13-Sep-18/O	< 0.005		
Vanadium	mg/L	0.005	SM 3120	13-Sep-18/O	< 0.005		
Yttrium	mg/L	0.005	SM 3120	13-Sep-18/O	< 0.005		
Uranium	mg/L	0.00005	EPA 200.8	14-Sep-18/O	0.00024		
Zinc	mg/L	0.005	SM 3120	13-Sep-18/O	0.036		
Ammonia (N)-Total	mg/L	0.01	SM4500-NH3-H	13-Sep-18/K	0.40		
Phenolics	mg/L	0.002	MOEE 3179	14-Sep-18/K	0.002		
Acenaphthene	µg/L	0.05	EPA 8270	14-Sep-18/K	< 0.05		
Acenaphthylene	µg/L	0.05	EPA 8270	14-Sep-18/K	< 0.05		
Anthracene	µg/L	0.05	EPA 8270	14-Sep-18/K	< 0.05		
Benzo(a)anthracene	µg/L	0.05	EPA 8270	14-Sep-18/K	< 0.05		
Benzo(a)pyrene	µg/L	0.01	EPA 8270	14-Sep-18/K	< 0.01		
Benzo(b)fluoranthene	µg/L	0.05	EPA 8270	14-Sep-18/K	< 0.05		
Benzo(b+k)fluoranthene	µg/L	0.1	EPA 8270	14-Sep-18/K	< 0.1		
Benzo(g,h,i)perylene	µg/L	0.05	EPA 8270	14-Sep-18/K	< 0.05		
Benzo(k)fluoranthene	µg/L	0.05	EPA 8270	14-Sep-18/K	< 0.05		
Chrysene	µg/L	0.05	EPA 8270	14-Sep-18/K	< 0.05		
Dibenzo(a,h)anthracene	µg/L	0.05	EPA 8270	14-Sep-18/K	< 0.05		



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SAMPLE MATRIX: Surface Water

WATERWORKS NO.

			Client I.D.		Instaberm-180909			
			Sample I.D.		B18-27755-1			
			Date Collected		09-Sep-18			
Parameter	Units	R.L.	Reference Method	Date/Site Analyzed				
Fluoranthene	µg/L	0.05	EPA 8270	14-Sep-18/K	< 0.05			
Fluorene	µg/L	0.05	EPA 8270	14-Sep-18/K	< 0.05			
Indeno(1,2,3,-cd)pyrene	µg/L	0.05	EPA 8270	14-Sep-18/K	< 0.05			
Methylnaphthalene,1-	µg/L	0.05	EPA 8270	14-Sep-18/K	< 0.05			
Methylnaphthalene,2-	µg/L	0.05	EPA 8270	14-Sep-18/K	< 0.05			
Methylnaphthalene 2-(1-)	µg/L	0.07	EPA 8270	14-Sep-18/K	< 0.07			
Naphthalene	µg/L	0.05	EPA 8270	14-Sep-18/K	< 0.05			
Phenanthrene	µg/L	0.05	EPA 8270	14-Sep-18/K	< 0.05			
Pyrene	µg/L	0.05	EPA 8270	14-Sep-18/K	< 0.05			
Terphenyl-d14 (SS)	% rec.	10	EPA 8270	14-Sep-18/K	107			
Benzene	µg/L	0.5	EPA 8260	14-Sep-18/O	< 0.5			
Toluene	µg/L	0.5	EPA 8260	14-Sep-18/O	< 0.5			
Ethylbenzene	µg/L	0.5	EPA 8260	14-Sep-18/O	< 0.5			
Xylene, m,p-	µg/L	0.4	EPA 8260	14-Sep-18/O	< 0.4			
Xylene, o-	µg/L	0.1	EPA 8260	14-Sep-18/O	< 0.1			
Xylene, m,p,o-	µg/L	0.4	EPA 8260	14-Sep-18/O	< 0.4			
Toluene-d8 (SS)	%		EPA 8260	14-Sep-18/O	105			
PHC F1 (C6-C10)	µg/L	20	MOE E3421	14-Sep-18/O	< 20			
PHC F2 (>C10-C16)	µg/L	50	MOE E3421	14-Sep-18/K	100			
PHC F3 (>C16-C34)	µg/L	400	MOE E3421	14-Sep-18/K	< 400			
PHC F4 (>C34-C50)	µg/L	400	MOE E3421	14-Sep-18/K	< 400			
Oil & Grease-Total	mg/L	1.0	SM 5520	14-Sep-18/K	< 1.0			

1 Chromium (VI) result is based on total chromium

R.L. = Reporting Limit

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