

Service Request No:R1808357

Ms. Alene Onion New York State DEC 625 Broadway Albany, NY 12233-3502

Laboratory Results for: LCI 2018

Dear Ms.Onion,

Enclosed are the results of the sample(s) submitted to our laboratory August 30, 2018 For your reference, these analyses have been assigned our service request number **R1808357**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7472. You may also contact me via email at Janice.Jaeger@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger Project Manager

Jamansto

CC: Jason Fagel



## **Narrative Documents**

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com



Client:New York State DECService Request: R1808357Project:LCI 2018Date Received: 08/30/2018

Sample Matrix: Water

#### **CASE NARRATIVE**

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier IV, validation deliverables including all summary forms and associated raw data. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

#### **Sample Receipt:**

Thirty water samples were received for analysis at ALS Environmental on 08/30/2018. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at 6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

#### Metals

No significant anomalies were noted with this analysis.

#### **General Chemistry:**

Approved by

Method SM 2120 B-2001(2011), One or more samples were received past the recommended holding time. The customer was notified when the discrepancy was found and instructed the laboratory to proceed with processing. The analysis was performed as soon as possible after receipt by the laboratory. The data is flagged to indicate the holding time violation.

Janan Sox

Date 09/20/2018



# Sample Receipt Information

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com Client: New York State DEC Project: LCI 2018/LCI2018

#### **SAMPLE CROSS-REFERENCE**

SAMPLE #	CLIENT SAMPLE ID	<u>DATE</u>	<u>TIME</u>
R1808357-001	18LCB025	8/28/2018	1000
R1808357-002	18LCB025 Diss	8/28/2018	1000
R1808357-003	18LCB026	8/28/2018	1005
R1808357-004	18LCB026 Diss	8/28/2018	1005
R1808357-005	18LCB019	8/28/2018	1150
R1808357-006	18LCB019 Diss	8/28/2018	1150
R1808357-007	18LCB020	8/28/2018	1155
R1808357-008	18LCB020 Diss	8/28/2018	1155
R1808357-009	18LCB023	8/29/2018	0910
R1808357-010	18LCB023 Diss	8/29/2018	0910
R1808357-011	18LCB097	8/28/2018	1155
R1808357-012	18LCB097 Diss	8/28/2018	1155
R1808357-013	18LCB003	8/29/2018	1045
R1808357-014	18LCB003 Diss	8/29/2018	1045
R1808357-015	18LCB009	8/29/2018	1255
R1808357-016	18LCB009 Diss	8/29/2018	1255
R1808357-017	18LCB005	8/29/2018	1435
R1808357-018	18LCB005 Diss	8/29/2018	1435
R1808357-019	18LCB013	8/29/2018	0833
R1808357-020	18LCB013 Diss	8/29/2018	0833
R1808357-021	18LCB014	8/29/2018	0852
R1808357-022	18LCB014 Diss	8/29/2018	0852
R1808357-023	18LCB001	8/29/2018	1050
R1808357-024	18LCB001 Diss	8/29/2018	1050
R1808357-025	18LCB011	8/29/2018	1202
R1808357-026	18LCB011 Diss	8/29/2018	1202
R1808357-027	18LCB012	8/29/2018	1211
R1808357-028	18LCB012 Diss	8/29/2018	1211
R1808357-029	18LCB198	8/29/2018	1202
R1808357-030	18LCB198 Diss	8/29/2018	1202

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New York State Departme		A	llbany, N	y 12	233-	3502												Q,	Alba	ny, NY 12233-3502
Environmental Conservat	ion –	Phone: (518) 4	402-8166					F	Phone	<b>):</b>								Pho	ņe: 518-402-	-8156
Division of Water		Email: alene	.onion@c	dec.n	ıy.gov	,		E	Email	:								Ema	il: Jason,fag	el@dec.ny.gov
									:	Ana	lyse	s C	rde	red	(list	:)				Preservative Codes
Matrix Codes:						3			2		0		3		0				0	0 = Cool to < 6°C
<b>WW</b> = Wastewater						150	$\dashv$		ANC	r	Ť		ANC			ANC				1 = HCL 2 = HNO <sub>3</sub>
GW = Groundwater AW = Ambient Water				Ś		NO3				*										3 = H <sub>2</sub> SO <sub>4</sub>
SE = Sediment	ē	] e		<u>.</u>		Z				Na,			li						_	4 = NaOH 5 = Zn. Acetate
SL = Sludge	Date		ا به ا	ä	🔀	TKN,				Mg,									= <u>a</u>	6 = MeOH
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NYSDEC	Collection	Collection Time	Matrix	No. o	TP, NH4, NOx, TKN	, NH4, NOx,	Dissolved	, Mn, As,	, Mg,	, Mn,	Color	TOC	200	Alkalinity	SO4 & UV-254	SO4. CL	SO4, CI,		0	
LCI Sample ID			2	Z	Ţ	TP,		Fe,	౮	Fe			۵		SC	SC	SC			Location Info
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Special Analysis Instruction	ns:				r					<u>!</u>	<u> </u>		<u> </u>						<u> </u>	<u></u>
Relinquished by Samplers		Date: 08/24	Time: 3,45	Rec	ceived t	ıy:					Date	1		11	me:		Labo	orato	R1808 New York State LCI 2018	3357 5
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#### **CHAIN OF CUSTODY** Page of Project Number: LCI2018 **NYSDEC SDG:** Project Name: LCI Sampler Signature: Sampler Phone No.: Sampler Collector: Project Manager: Alene Onion ☐ Bill to Project Manager X Report to Project Manager Bill to: Jason Fagel Report to: Address: 625 Broadway, 4th Floor Address: 625 Broadway, 4th Floor Address: Albany, NY 12233-3502 Albany, NY 12233-3502 New York State Department of **Environmental Conservation -**Phone: (518) 402-8166 Phone: 518-402-8156 Phone: **Division of Water** Email: alene.onion@dec.ny.gov Email: Email: Jason.fagel@dec.ny.gov **Analyses Ordered (list) Preservative Codes: Matrix Codes:** 0 = Cool to < 6°C 0 3 0 0 3 2 1 = HCL WW = Wastewater ANC 2 = HNO<sub>3</sub> **GW** = Groundwater TP, NH4, NOx, TKN, NO3 3 = H2SO4 of Containers AW = Ambient Water 4 = NaOH **Collection Time Collection Date** SE = Sediment 5 = Zn. Acetate Chlorophyll a | Vol (ml) TP, NH4, NOx, TKN χg̈́ Code 6 = MeOH SL = Sludge 7 = NaHSO4 SO4, Cl, UV-254 T = Tissue Dissolved TOP4 Q SO4 & UV-254 8 = Other Ca, Mg, Na, K O = Other Fe, Mn, As, Fc, Mn, As, Matrix Alkalinity **NYSDEC** Color DOC TOC **Location Info LCI Sample ID** Late Kushagus - epi Late Kushagus - hupo Barnum Pand - epi × 750 186CB013 8-29-18 (8:37 × AW Ü Ø N 8-29-18 08:57 AW 18LCB 014 W Ø 8-29-18 10:50 6 2.50 184CB 001 AW X) 500 0 V V W| Late Colby -epi 18LCBOIL 8-29-15 12:02 AW M Ø Ø Ø W Late Coller- huno M X 8-29-18 12:11 18 LCB012 AW Ø 500 N m 8-29-11 12:02 V V MW 198181CB198 Special Analysis Instructions: R1808357 New York State DEC LCI 2018 5 Relinquished by Sampler: / Time: Received by: Date: Time: Labora Date: Steshause Ine 8/29/18 13:30 Relinquished by: Time: Received by: Date: Time: Sample Temp.: \_\_

8/30/11

0935

Properly Preserved: Y / N

Samples Intact: Y / N

Received by Laboratory

Time:

Date:

Relinguished by:



### Cooler Receipt and Preservation Check Form

Custody papers properly completed (ink, signed)?  Did all bottles arrive in good condition (unbroken)?  Note that the proper is	oject/Clie	$ent \underline{LC}$	<i>F</i>			Folde	r Number_				. , IIIII				
Custody papers properly completed (ink, signed)?  Did all bottles arrive in good condition (unbroken)?  N  6 Where did the houtes originate?  Time: D92 ID: ReD IR#9 From: cmp Bland Sample Bottlesserved Temp (°C)  Promoted Temp	oler receive	ed on 8/3	Bolir_	by: 🙆	sc	_	COURIER:	ALS	<b>(PS)</b>	FEDE	X VEL	OCITY	Y CLIE	NT	
Did all bottles arrive in good condition (unbroken)? No Circle: Wet 10 Dry Ice Gel packs present? No Toricle: Wet 10 Dry Ice Gel packs present? No Toricle: Wet 10 Dry Ice Gel packs present? No Toricle: Wet 10 Dry Ice Gel packs present? No Toricle: Wet 10 Dry Ice Gel packs present? No Toricle: Wet 10 Dry Ice Gel packs present? No Toricle: Wet 10 Dry Ice Gel packs present? No Toricle: Wet 10 Dry Ice Gel packs present? No Toricle: Wet 10 Dry Ice Gel packs present? No Toricle: Wet 10 Dry Ice Gel packs present? No Toricle: Wet 10 Dry Ice Gel packs present? No Toricle: Wet 10 Dry Ice Gel packs present? No Toricle: Wet 10 Dry Ice Gel packs present? No Toricle: Wet 10 Dry Ice Gel packs present? No Toricle: Wet 10 Dry Ice Gel packs present? No Toricle: Wet 10 Dry Ice Gel packs present? No Toricle: Wet 10 Dry Ice Gel packs present with Ice Gel packs presen	Were Cu	stody seals o	n outside of coole	r?	(	N	5a Perch	lorate :	samples h	ave rec	quired he	adspac	æ?	YN	I (A)
Circle: Wet 50 Dry Ice Gel packs present? N 7 Soil VOA received as: Bulk Encore S03-Set No remperature Readings Date: Clark Time: D22 ID: R#D IR#9 From: Cmp Blank Sample Bott Served Temp (°C)  Drected Te	Custody	papers prope	erly completed (in	k, sign	ed)? (	N	5b Did V	OA via	ls(Alk,d	Sulfide	e have si	g* bub	bles?	YN	NA C
Pemperature Readings Date:   Jahr Time:   1922   ID:   R#9   From:   Cemp Blan)   Sample Bott   Deserved Temp (°C)   2.2   3.6     Deserved Temp (°C)   4/0     Deserved Temp (°C)   3.2   4/6     Deserved Temp (°C)   4/0     Dese	Did all be	ottles arrive ir	good condition	(unbrol	ken)?	Y) N	6 When	e did the	bottles o	originat	e?	ALS/	ROC	CLIE	NT
Served Temp (°C)   2.2   3.6	Circle:	Wet Ice Dr	y Ice Gel packs	pres	ent?	N	7 Soil V	OA rec	eived as:	Вι	ılk E	ncore	5035	set (	JĀ)
Served Temp (°C)   2.2   3.6	remperatur	e Readings	Date: 0/30	In	Time	 : 1928	 ' ID:	(R#7)	IR#9		From:	Temp	Blank	Samr	ele Bottle
Samples   Samp														· ·	
### Standing Approval    Cooler Breakdown/Preservation Check**: Date: ****   No   No   No   No   No   No   No															-
It samples held in storage location   Standing Approval   Client aware at drop-off   Client notified by:   Same Day Ru   Same Day Ru   Samples held in storage location   Same Day Ru   Samples placed in storage location   Samples   Standing Approval   Client aware at drop-off   Client notified by:   Samples placed in storage location   Samples   Standing   Samples placed in storage location   Samples   Standing   Samples   Standing   Samples   Standing   Samples   Sam															
Samples frozen   Y N Y N Y N Y N Y N Y N Y N Y N Y N Y				//											
Same Day Ru	ithin 0-6°0	C?	N		<b>(</b> (2)	N	YN	Y	N	Y	N	Y	N	Y	N
**Client Approval to Run Samples: Standing Approval Client aware at drop-off Client notified by:    Il samples held in storage location: by	<0°C, wer	e samples fro	zen? Y N				YN	Y	N	Y	N	Y	N	Y	N
Samples held in storage location   Samples   Samples placed in storage location:   Samples   Samples placed in storage location:   Samples   Sam	lf out of T	emperature	, note packing/ic	e cond	ition:	•	Ice mel	ted P	oorly Pac	cked (d	escribed	below	) :	Same D	—— ∂ay Rul€
Samples held in storage location   Samples   Samples placed in storage location:   Samples   Samples placed in storage location:   Samples   Sam		-					·		•	,					•
Were correct containers used for the tests indicated?   Were 5035 vials acceptable (no extra labels, not leaking)?   YES NO   NO   NO   NO   NO   NO   NO   NO								1858							_
11. Were correct containers used for the tests indicated?  Were 5035 vials acceptable (no extra labels, not leaking)?  13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated  PH Lot of test Reagent Preserved? Lot Received Exp Sample ID Vol. Lot Added Final Adjusted Added PH  21. NaOH  22. TOUSTS HNO3 V CNEWT Label  24. NaHSO4  35-9 For 608pest No=No=Notify for 3day  Residual For CN, Iff+, contact PM to add NauS2O3 (625, 608, CH)  Chlorine Phenol, 625, 608pest, 522  Chart label  25. CN, ascorbic (phenol).  26. TOUSTS HOO SET CON, ascorbic (phenol).  27. TOUSTS HOO SET CON, ascorbic (phenol).  28. TOUSTS HOO SET CON, ascorbic (phenol).  18. Toustant PM to add NauS2O3 (625, 608, CN), ascorbic (phenol).  29. Toust of the set of all samples with chemical preservative are checked (not just representatives).  Bottle lot numbers: South label  Explain all Discrepancies/ Other Comments:									Œ	$\overline{z}$					
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized  PH Lot of test paper   Preserved?   Lot Received   Exp   Sample ID   Vol.   Lot Added   Final paper   Preserved?   Lot Received   Exp   Sample ID   Adjusted   Added   Preserved?   Lot Received   Exp   Sample ID   Adjusted   Added   Preserved?   Lot Received   Exp   Sample ID   Vol.   Lot Added   Preserved?   Lot Received   Exp   Sample ID   Adjusted   Added   Preserved?   Lot Received   Exp   Sample ID   Vol.   Lot Added   Preserved?   Lot Received   Lot Received   Preserved?   Lot Received   Exp   Sample ID   Vol.   Lot Added   Preserved?   Lot Received   Lot Added   Preserved?   Lot Received   Lot Added   Preserved?   Lot Received   Preserved?   Lot Received   Preserved?   Lot Received   Lot Added   Preserved?   Lot Received   Lot Added   Preserved?   Lot Received   Preserved?   Lot Received   Lot Added   Preserved?   Lot Received   Preserved   Preserved?   Lot Received   Preserved   Preserved   Preserved   Lot Received   Preserved   Preserved   Lot Received   Preserved							<b>(</b>		ALE ALE	<u>२</u> ज					
PH Lot of test paper   Preserved?   Lot Received   Exp   Sample ID   Adjusted   Added   Final pH    ≥12   NaOH							;)?		YE	S			(	NVAN	
paper   Yes   No   Adjusted   Added   pH     ≥12						· · · · · · · · · · · · · · · · · · ·								<u> </u>	TO: 1
NaOH	pH	•	Reagent		,	Lot Rece	eived	Exp			1		ot Adde	a	
Clerk   HNO3   Clerk   Label	>12	paper	NaOH	1.05	1.0		•		Aujust		7 Idded				P11
NaHSO4   No=Notify for 3day   Residual   For CN,   If +, contact PM to add   Phenol, 625,   Na2S2O3 (625, 608, CN), ascorbic (phenol).   Na2S2O3   ZnAcetate   -     Otherwise, all bottles of all samples with chemical preservative are checked (not just representatives).	<u>≤</u> 2	204518		V		client.	lubel								
For 608pest   No=Notify for 3day   Residual   For CN,   If +, contact PM to add   Phenol, 625,   608pest, 522   CN), ascorbic (phenol).	≤2	L L		V			<u> </u>								
For CN, Phenol, 625, 608 pest, 522   Phenol				-		No-Notit	fu for 2 days								
Chlorine (-) Phenol, 625, 608, CN), ascorbic (phenol).  Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> ZnAcetate + **VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservative are checked (not just representatives).  Bottle lot numbers: 8-077-col, Clord labe  Explain all Discrepancies/ Other Comments:  CLRES BULK			<u> </u>				· · · · · ·					-			
(-) 608pest, 522   CN), ascorbic (phenol).  Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>   **VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservative are checked (not just representatives).  Bottle lot numbers: 8-077-col, Citar labe Explain all Discrepancies/ Other Comments:  CLRES BULK						Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (	625, 608,								
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>						CN), asco	rbic (phenol).								
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Explain all Discrepancies/ Other Comments:  CLRES BULK			* - TO - 1 - 2	ا مداد	1.1.1						-				
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HPROD HGFB															

DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

Labels secondary reviewed by: PC Secondary Review:

\*significant air bubbles: VOA > 5-6 mm: WC > 1 in. diameter



## Miscellaneous Forms

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com



#### REPORT QUALIFIERS AND DEFINITIONS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- \* Indicates that a quality control parameter has exceeded laboratory limits. Under the õNotesö column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an õimmediateö hold time criteria.
- # Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (×100% Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ)

  The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



#### Rochester Lab ID # for State Certifications<sup>1</sup>

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Approved	New Jersey ID # NY004	294100 A/B
DoD ELAP #65817	New York ID # 10145	Pennsylvania ID# 68-786
Florida ID # E87674	North Carolina #676	Rhode Island ID # 158
		Virginia #460167

<sup>&</sup>lt;sup>1</sup> Analyses were performed according to our laboratory NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to <a href="https://www.alselobal.com/locations/americas/north-america/usa/new-vork/rochester-environmental">https://www.alselobal.com/locations/americas/north-america/usa/new-vork/rochester-environmental</a>

#### **ALS Laboratory Group**

#### Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

MDL Method Detection Limit
MPN Most Probable Number
MRL Method Reporting Limit

NA Not Applicable NC Not Calculated

NCASI National Council of the Paper Industry for Air and Stream Improvement

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

tr Trace level is the concentration of an analyte that is less than the PQL but

greater than or equal to the MDL.

Client: New York State DEC Service Request: R1808357

**Project:** LCI 2018/LCI2018

**Non-Certified Analytes** 

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
SM 5910 B	Water	UV254
SM20 10200 H	Water	Chlorophyll A

Analyst Summary report

Client: New York State DEC Service Request: R1808357

**Project:** LCI 2018/LCI2018

 Sample Name:
 18LCB025
 Date Collected:
 08/28/18

 Lab Code:
 R1808357-001
 Date Received:
 08/30/18

Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
351.2	NSMITH	GNITAJOUPPI
353.2		AMOSES
365.1	KWONG	GNITAJOUPPI
ASTM D6919-09		BKALKMAN
SM 2120 B-2001(2011)		BKALKMAN
SM 2320 B-1997(2011)		CWOODS
SM 5310 C-2000(2011)		CWOODS
SM20 10200 H		GNITAJOUPPI

 Sample Name:
 18LCB025 Diss
 Date Collected:
 08/28/18

 Lab Code:
 R1808357-002
 Date Received:
 08/30/18

Sample Matrix: Water

Analysis MethodExtracted/Digested ByAnalyzed By365.1KWONGGNITAJOUPPI

 Sample Name:
 18LCB026
 Date Collected:
 08/28/18

 Lab Code:
 R1808357-003
 Date Received:
 08/30/18

Sample Matrix: Water

**Analyzed By Analysis Method Extracted/Digested By** 351.2 **NSMITH GNITAJOUPPI** 353.2 **AMOSES** 365.1 **KWONG GNITAJOUPPI** ASTM D6919-09 **BKALKMAN** SM 2120 B-2001(2011) **BKALKMAN CWOODS** SM 5310 C-2000(2011)

Analyst Summary report

Client: New York State DEC Service Request: R1808357

**Project:** LCI 2018/LCI2018

 Sample Name:
 18LCB026 Diss

 Date Collected:
 08/28/18

 Lab Code:
 R1808357-004

 Date Received:
 08/30/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

Sample Name: 18LCB019 Date Collected: 08/28/18

**Lab Code:** R1808357-005 **Date Received:** 08/30/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

351.2 NSMITH GNITAJOUPPI

353.2 AMOSES

365.1 KWONG GNITAJOUPPI

ASTM D6919-09 BKALKMAN
SM 2120 B-2001(2011) BKALKMAN

SM 2320 B-1997(2011) CWOODS

SM 5310 C-2000(2011) CWOODS SM20 10200 H GNITAJOUPPI

Sample Name: 18LCB019 Diss Date Collected: 08/28/18

**Lab Code:** R1808357-006 **Date Received:** 08/30/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

Sample Name: 18LCB020 Date Collected: 08/28/18

**Lab Code:** R1808357-007 **Date Received:** 08/30/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

351.2 NSMITH GNITAJOUPPI

353.2 AMOSES

365.1 KWONG GNITAJOUPPI

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Analyst Summary report

**Client:** New York State DEC Service Request: R1808357

**Project:** LCI 2018/LCI2018

**Sample Name:** 18LCB020 **Date Collected:** 08/28/18 Lab Code: R1808357-007 **Date Received:** 08/30/18

**Sample Matrix:** Water

**Analyzed By Analysis Method Extracted/Digested By** 

ASTM D6919-09 **BKALKMAN** SM 2120 B-2001(2011) **BKALKMAN** 

**CWOODS** SM 5310 C-2000(2011)

**Date Collected:** 08/28/18 Sample Name: 18LCB020 Diss R1808357-008 Lab Code: **Date Received:** 08/30/18

Sample Matrix: Water

**Analyzed By Analysis Method Extracted/Digested By** 

**KWONG** 365.1 **GNITAJOUPPI** 

Sample Name: 18LCB023 **Date Collected:** 08/29/18 R1808357-009 Lab Code:

**Date Received:** 08/30/18

**Sample Matrix:** Water

**Analyzed By Analysis Method Extracted/Digested By** 

**NSMITH** 351.2 **GNITAJOUPPI** 

353.2 **AMOSES** 

365.1 **KWONG GNITAJOUPPI** 

ASTM D6919-09 **BKALKMAN** 

**BKALKMAN** SM 2120 B-2001(2011)

SM 2320 B-1997(2011) **CWOODS** 

SM 5310 C-2000(2011) **CWOODS** 

SM20 10200 H **GNITAJOUPPI** 

**Sample Name:** 18LCB023 Diss **Date Collected:** 08/29/18

Lab Code: R1808357-010 **Date Received:** 08/30/18 **Sample Matrix:** Water

**Analyzed By Extracted/Digested By Analysis Method** 

365.1 **KWONG GNITAJOUPPI** 

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Analyst Summary report

Client: New York State DEC Service Request: R1808357

**Project:** LCI 2018/LCI2018

 Sample Name:
 18LCB097
 Date Collected:
 08/28/18

 Lab Code:
 R1808357-011
 Date Received:
 08/30/18

Sample Matrix: Water

Analysis Method

Stracted/Digested By

Analyzed By

SSI.2

NSMITH

GNITAJOUPPI

AMOSES

AMOSES

KWONG

GNITAJOUPPI

BKALKMAN

SM 2120 B-2001(2011)

BKALKMAN

SM 5310 C-2000(2011) CWOODS

 Sample Name:
 18LCB097 Diss
 Date Collected:
 08/28/18

 Lab Code:
 R1808357-012
 Date Received:
 08/30/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

 Sample Name:
 18LCB003
 Date Collected:
 08/29/18

 Lab Code:
 R1808357-013
 Date Received:
 08/30/18

Sample Matrix: Water

**Analyzed By Analysis Method** Extracted/Digested By 300.0 AMOSES 351.2 **NSMITH GNITAJOUPPI** 353.2 **AMOSES** 365.1 **KWONG GNITAJOUPPI** ASTM D6919-09 **BKALKMAN BKALKMAN** SM 2120 B-2001(2011) **CWOODS** SM 2320 B-1997(2011)

SM 5910 B MROGERSON SM20 10200 H GNITAJOUPPI

Analyst Summary report

Client: New York State DEC Service Request: R1808357

**Project:** LCI 2018/LCI2018

 Sample Name:
 18LCB003 Diss
 Date Collected: 08/29/18

 Lab Code:
 R1808357-014
 Date Received: 08/30/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

SM 5310 C-2000(2011) CWOODS

Sample Name: 18LCB009 Date Collected: 08/29/18

**Lab Code:** R1808357-015 **Date Received:** 08/30/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

300.0 AMOSES

351.2 NSMITH GNITAJOUPPI

353.2 AMOSES

365.1 KWONG GNITAJOUPPI

ASTM D6919-09 BKALKMAN

SM 2120 B-2001(2011)

SM 2320 B-1997(2011)

CWOODS

 SM 2320 B-1997(2011)
 CWOODS

 SM 5910 B
 MROGERSON

SM20 10200 H GNITAJOUPPI

Sample Name: 18LCB009 Diss Date Collected: 08/29/18

**Lab Code:** R1808357-016 **Date Received:** 08/30/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

SM 5310 C-2000(2011) CWOODS

Analyst Summary report

Client: New York State DEC Service Request: R1808357

**Project:** LCI 2018/LCI2018

 Sample Name:
 18LCB005
 Date Collected:
 08/29/18

 Lab Code:
 R1808357-017
 Date Received:
 08/30/18

Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		AMOSES
351.2	NSMITH	GNITAJOUPPI
353.2		AMOSES
365.1	KWONG	GNITAJOUPPI
ASTM D6919-09		BKALKMAN
SM 2120 B-2001(2011)		BKALKMAN
SM 2320 B-1997(2011)		CWOODS
SM 5910 B		MROGERSON
SM20 10200 H		GNITAJOUPPI
SM 2320 B-1997(2011) SM 5910 B		CWOODS MROGERSON

 Sample Name:
 18LCB005 Diss
 Date Collected:
 08/29/18

 Lab Code:
 R1808357-018
 Date Received:
 08/30/18

Sample Matrix: Water

Analysis MethodExtracted/Digested ByAnalyzed By365.1KWONGGNITAJOUPPISM 5310 C-2000(2011)CWOODS

 Sample Name:
 18LCB013
 Date Collected: 08/29/18

 Lab Code:
 R1808357-019
 Date Received: 08/30/18

Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
351.2	NSMITH	GNITAJOUPPI
353.2		AMOSES
365.1	KWONG	GNITAJOUPPI
ASTM D6919-09		BKALKMAN
SM 2120 B-2001(2011)		BKALKMAN
SM 2320 B-1997(2011)		CWOODS
SM 5310 C-2000(2011)		CWOODS
SM20 10200 H		GNITAJOUPPI

Analyst Summary report

Client: New York State DEC Service Request: R1808357

**Project:** LCI 2018/LCI2018

 Sample Name:
 18LCB013 Diss

 Lab Code:
 R1808357-020

 Date Received:
 08/30/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

Sample Name: 18LCB014 Date Collected: 08/29/18

**Lab Code:** R1808357-021 **Date Received:** 08/30/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

351.2 NSMITH GNITAJOUPPI

353.2 AMOSES

365.1 KWONG GNITAJOUPPI

ASTM D6919-09 BKALKMAN SM 2120 B-2001(2011) BKALKMAN

SM 5310 C-2000(2011) CWOODS

Sample Name: 18LCB014 Diss Date Collected: 08/29/18

**Lab Code:** R1808357-022 **Date Received:** 08/30/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

Sample Name: 18LCB001 Date Collected: 08/29/18

Lab Code: R1808357-023 Date Received: 08/30/18
Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

351.2 NSMITH GNITAJOUPPI

353.2 AMOSES

365.1 KWONG GNITAJOUPPI

STM DOLO 00

ASTM D6919-09 BKALKMAN

SM 2120 B-2001(2011) BKALKMAN

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Analyst Summary report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

 Sample Name:
 18LCB001
 Date Collected:
 08/29/18

 Lab Code:
 R1808357-023
 Date Received:
 08/30/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

 SM 2320 B-1997(2011)
 CWOODS

 SM 5310 C-2000(2011)
 CWOODS

 SM20 10200 H
 GNITAJOUPPI

 Sample Name:
 18LCB001 Diss
 Date Collected: 08/29/18

 Lab Code:
 R1808357-024
 Date Received: 08/30/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

Sample Name: 18LCB011 Date Collected: 08/29/18

**Lab Code:** R1808357-025 **Date Received:** 08/30/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

300.0 AMOSES

351.2 NSMITH GNITAJOUPPI

353.2 AMOSES

365.1 KWONG GNITAJOUPPI

ASTM D6919-09 BKALKMAN

SM 2120 B-2001(2011)
SM 2320 B-1997(2011)
CWOODS

SM 5910 B MROGERSON

SM20 10200 H GNITAJOUPPI

Service Request: R1808357

Analyst Summary report

Client: New York State DEC Service Request: R1808357

Project: LCI 2018/LCI2018

 Sample Name:
 18LCB011 Diss

 Lab Code:
 R1808357-026

 Date Received:
 08/30/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

SM 5310 C-2000(2011) CWOODS

Sample Name: 18LCB012 Date Collected: 08/29/18

**Lab Code:** R1808357-027 **Date Received:** 08/30/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

300.0 AMOSES

351.2 NSMITH GNITAJOUPPI

353.2 AMOSES

365.1 KWONG GNITAJOUPPI

ASTM D6919-09 BKALKMAN

SM 2120 B-2001(2011)

SM 5910 B

MROGERSON

Sample Name: 18LCB012 Diss Date Collected: 08/29/18

**Lab Code:** R1808357-028 **Date Received:** 08/30/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

SM 5310 C-2000(2011) CWOODS

 Sample Name:
 18LCB198
 Date Collected:
 08/29/18

 Lab Code:
 R1808357-029
 Date Received:
 08/30/18

Lab Code: R1808357-029 Date Received: 08/30/18
Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

300.0 AMOSES

351.2 NSMITH GNITAJOUPPI

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Analyst Summary report

Client: New York State DEC

Project: LCI 2018/LCI2018

Service Request: R1808357

Sample Name: 18LCB198 Date Collected: 08/29/18

**Lab Code:** R1808357-029 **Sample Matrix:** Water

**Date Received:** 08/30/18

Analysis Method

Stracted/Digested By

Analyzed By

AMOSES

AMOSES

KWONG

GNITAJOUPPI

BKALKMAN

SM 2120 B-2001(2011)

BKALKMAN

 SM 2120 B-2001(2011)
 BKALKMAN

 SM 2320 B-1997(2011)
 CWOODS

 SM 5910 B
 MROGERSON

 SM20 10200 H
 GNITAJOUPPI

 Sample Name:
 18LCB198 Diss
 Date Collected: 08/29/18

 Lab Code:
 R1808357-030
 Date Received: 08/30/18

Sample Matrix: Water

Analysis MethodExtracted/Digested ByAnalyzed By365.1KWONGGNITAJOUPPISM 5310 C-2000(2011)CWOODS



#### **INORGANIC PREPARATION METHODS**

The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

#### Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid	9030B
Soluble	
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual	SM 4500-CN-G
Cyanide	
SM 4500-CN-E WAD	SM 4500-CN-I
Cyanide	

#### Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation
	Method
6010C	3050B
6020A	3050B
6010C TCLP (1311)	3005A/3010A
extract	
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/	DI extraction
353.2/ SM 2320B/ SM	
5210B/ 9056A Anions	

For analytical methods not listed, the preparation method is the same as the analytical method reference.



# Sample Results

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com



## Metals

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com

# METALS - 1 INORGANIC ANALYSIS DATA PACKAGE

Client: New York State DEC Service Request: LCI0827

**Project No.:** R1808357 **Date Collected:** 8/29/2018

Project Name: Date Received: 8/30/2018

Matrix: WATER ug/L

Basis:

Sample Name: 18LCB003 Lab Code: R1808357-013

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	С	Q
Arsenic	200.8	1.0	0.39	1.0	1.0	Ū	
Iron	200.7	100	13.0	1.0	415		
Manganese	200.7	10.0	1.7	1.0	21.1		

% Solids: 0.0

# METALS - 1 INORGANIC ANALYSIS DATA PACKAGE

Client: New York State DEC Service Request: LCI0827

**Project No.:** R1808357 **Date Collected:** 8/29/2018

Project Name: Date Received: 8/30/2018

Matrix: WATER ug/L

Basis:

Sample Name: 18LCB009 Lab Code: R1808357-015

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	С	Q
Arsenic	200.8	1.0	0.39	1.0	1.0	υ	
Iron	200.7	100	13.0	1.0	32.3	J	
Manganese	200.7	10.0	1.7	1.0	10.1		

% Solids: 0.0

# METALS - 1 INORGANIC ANALYSIS DATA PACKAGE

Client: New York State DEC Service Request: LCI0827

**Project No.:** R1808357 **Date Collected:** 8/29/2018

Project Name: Date Received: 8/30/2018

Matrix: WATER ug/L

Basis:

Sample Name: 18LCB005 Lab Code: R1808357-017

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	С	Q
Arsenic	200.8	1.0	0.39	1.0	1.0	υ	
Iron	200.7	100	13.0	1.0	508		
Manganese	200.7	10.0	1.7	1.0	16.6		

% Solids: 0.0

#### METALS - 1 -

#### INORGANIC ANALYSIS DATA PACKAGE

Client: New York State DEC Service Request: LCI0827

**Project No.:** R1808357 **Date Collected:** 8/29/2018

Project Name: Date Received: 8/30/2018

Matrix: WATER ug/L

Basis:

Sample Name: 18LCB012 Lab Code: R1808357-027

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	С	Q
Arsenic	200.8	1.0	0.39	1.0	1.0	Ū	
Iron	200.7	100	13.0	1.0	506		
Manganese	200.7	10.0	1.7	1.0	590		

% Solids: 0.0



# **General Chemistry**

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com

#### Analytical Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix: Water

**Sample Name:** 

18LCB025 Basis: NA

**Lab Code:** R1808357-001

#### **Inorganic Parameters**

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	14.4	mg/L	2.0	1	09/10/18 14:50	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	09/09/18 19:16	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	6.8	mg/L	1.0	1	09/11/18 00:16	NA	
Chlorophyll A	SM20 10200 H	2.69	ug/L	0.32	4	09/13/18 08:30	NA	
Color, True	SM 2120 B-2001(2011)	34.0	ColorUnits	1.0	1	08/30/18 10:15	NA	*
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/13/18 13:42	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.76	mg/L	0.10	1	09/19/18 13:40	09/18/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.51	pH Units	-	1	09/01/18 08:30	NA	*
Phosphorus, Total	365.1	0.0114	mg/L	0.0050	1	09/14/18 12:11	09/11/18	

**Service Request:** R1808357 **Date Collected:** 08/28/18 10:00

**Date Received:** 08/30/18 09:35

Analytical Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix: W

Water

Service Request: R1808357

**Date Collected:** 08/28/18 10:00

**Date Received:** 08/30/18 09:35

Sample Name: 18LCB025 Diss Basis: NA

**Lab Code:** R1808357-002

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/14/18 11:02	09/11/18	

#### Analytical Report

**Client:** New York State DEC

**Project:** LCI 2018/LCI2018

**Sample Matrix:** 

**Sample Name:** 

Water

**Date Collected:** 08/28/18 10:05

**Date Received:** 08/30/18 09:35

Service Request: R1808357

18LCB026 Basis: NA

Lab Code: R1808357-003

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	09/11/18 19:37	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	6.1	mg/L	1.0	1	09/11/18 00:36	NA	
Color, True	SM 2120 B-2001(2011)	36.0	ColorUnits	1.0	1	08/30/18 10:15	NA	*
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/13/18 13:50	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.38	mg/L	0.10	1	09/19/18 13:50	09/18/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.00	pH Units	-	1	09/01/18 08:30	NA	*
Phosphorus, Total	365.1	0.0191	mg/L	0.0050	1	09/14/18 12:12	09/11/18	

Analytical Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1808357

**Date Collected:** 08/28/18 10:05

**Date Received:** 08/30/18 09:35

Sample Name: 18LCB026 Diss Basis: NA

**Lab Code:** R1808357-004

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0055	mg/L	0.0050	1	09/14/18 11:03	09/11/18	

#### Analytical Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix: Water

Sample Name: 18LCB019

**Lab Code:** R1808357-005

Service Request: R1808357

**Date Collected:** 08/28/18 11:50

**Date Received:** 08/30/18 09:35

Basis: NA

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	15.6	mg/L	2.0	1	09/10/18 14:59	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0064	mg/L	0.0050	1	09/11/18 21:29	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	<b>7.1</b>	mg/L	1.0	1	09/11/18 00:57	NA	
Chlorophyll A	SM20 10200 H	3.16	ug/L	0.16	2	09/13/18 08:30	NA	
Color, True	SM 2120 B-2001(2011)	38.0	ColorUnits	1.0	1	08/30/18 10:15	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/13/18 13:52	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.51	mg/L	0.10	1	09/19/18 13:51	09/18/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.43	pH Units	-	1	09/01/18 08:30	NA	*
Phosphorus, Total	365.1	0.0134	mg/L	0.0050	1	09/14/18 12:55	09/11/18	

Analytical Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1808357

**Date Collected:** 08/28/18 11:50

**Date Received:** 08/30/18 09:35

Sample Name: 18LCB019 Diss

**Lab Code:** R1808357-006

Basis: NA

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus Dissolved	365.1	0.0062	mg/I	0.0050	1	09/14/18 11:04	09/11/18	

Analytical Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix: Water

**Sample Name:** 

Water

18LCB020

**Lab Code:** R1808357-007

Service Request: R1808357

**Date Collected:** 08/28/18 11:55

**Date Received:** 08/30/18 09:35

Basis: NA

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	09/11/18 21:45	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	5.5	mg/L	1.0	1	09/11/18 01:18	NA	
Color, True	SM 2120 B-2001(2011)	60.0	ColorUnits	5.0	5	08/30/18 10:15	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0037	mg/L	0.0020	1	09/13/18 13:53	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.34	mg/L	0.10	1	09/19/18 13:42	09/18/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.07	pH Units	-	5	09/01/18 08:30	NA	*
Phosphorus, Total	365.1	0.0153	mg/L	0.0050	1	09/14/18 12:15	09/11/18	

Analytical Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1808357

**Date Collected:** 08/28/18 11:55

**Date Received:** 08/30/18 09:35

Basis: NA

Sample Name: 18LCB020 Diss

**Lab Code:** R1808357-008

**Inorganic Parameters** 

Analysis

Analyte NameMethodResultUnitsMRLDil.Date AnalyzedDate ExtractedQPhosphorus, Dissolved365.10.0050 Umg/L0.0050109/14/18 11:0509/11/18

#### Analytical Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix: Water

**Sample Name:** 

18LCB023 Basis: NA

**Lab Code:** R1808357-009

#### **Inorganic Parameters**

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	78.4	mg/L	2.0	1	09/10/18 16:25	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0091	mg/L	0.0050	1	09/11/18 22:01	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	8.3	mg/L	1.0	1	09/11/18 02:21	NA	
Chlorophyll A	SM20 10200 H	76.9	ug/L	3.2	20	09/13/18 08:30	NA	
Color, True	SM 2120 B-2001(2011)	110	ColorUnits	5.0	5	08/30/18 10:15	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0076	mg/L	0.0020	1	09/13/18 13:55	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.72	mg/L	0.10	1	09/19/18 15:56	09/18/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.59	pH Units	-	5	09/01/18 08:30	NA	*
Phosphorus, Total	365.1	0.0565	mg/L	0.0050	1	09/14/18 12:16	09/11/18	

**Service Request:** R1808357 **Date Collected:** 08/29/18 09:10

**Date Received:** 08/30/18 09:35

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1808357

**Date Collected:** 08/29/18 09:10

**Date Received:** 08/30/18 09:35

Sample Name: 18LCB023 Diss

**Lab Code:** R1808357-010

Basis: NA

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Phosphorus Dissolved	365.1	0.0262	mg/I	0.0050	1	09/14/18 11:06	09/11/18	

Analytical Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix: Water

**Sample Name:** 

18LCB097

**Lab Code:** R1808357-011

Service Request: R1808357

**Date Collected:** 08/28/18 11:55

**Date Received:** 08/30/18 09:35

Basis: NA

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0080	mg/L	0.0050	1	09/11/18 22:17	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	09/11/18 02:42	NA	
Color, True	SM 2120 B-2001(2011)	8.0	ColorUnits	1.0	1	08/30/18 10:15	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/13/18 13:56	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10 U	mg/L	0.10	1	09/19/18 15:58	09/18/18	
pH of Color Analysis	SM 2120 B-2001(2011)	6.53	pH Units	-	1	09/01/18 08:30	NA	*
Phosphorus, Total	365.1	0.0050 U	mg/L	0.0050	1	09/14/18 12:17	09/11/18	

Analytical Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1808357

**Date Collected:** 08/28/18 11:55

**Date Received:** 08/30/18 09:35

Sample Name: 18LCB097 Diss Basis: NA

**Lab Code:** R1808357-012

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/14/18 11:08	09/11/18	

Analytical Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix: Water

Sample Name: 18LCB003

**Lab Code:** R1808357-013

Service Request: R1808357

**Date Collected:** 08/29/18 10:45

**Date Received:** 08/30/18 09:35

Basis: NA

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	<b>Date Analyzed</b>	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	21.2	mg/L	2.0	1	09/10/18 16:30	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0178	mg/L	0.0050	1	09/11/18 22:33	NA	
Chlorophyll A	SM20 10200 H	1.82	ug/L	0.053	1	09/13/18 08:30	NA	
Color, True	SM 2120 B-2001(2011)	29.0	ColorUnits	1.0	1	08/30/18 10:15	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0024	mg/L	0.0020	1	09/13/18 13:57	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.33	mg/L	0.10	1	09/19/18 17:04	09/18/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.61	pH Units	-	1	09/01/18 08:30	NA	*
Phosphorus, Total	365.1	0.0140	mg/L	0.0050	1	09/14/18 12:18	09/11/18	
Sulfate	300.0	2.0 U	mg/L	2.0	10	09/06/18 20:51	NA	
UV254	SM 5910 B	0.117	cm-1	-	1	08/30/18 14:28	NA	

Analytical Report

**Client:** New York State DEC

**Project:** LCI 2018/LCI2018

**Sample Matrix:** 

Water

Service Request: R1808357

**Date Collected:** 08/29/18 10:45

**Date Received:** 08/30/18 09:35

**Sample Name:** 18LCB003 Diss Basis: NA

Lab Code: R1808357-014

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	5.1	mg/L	1.0	1	09/10/18 10:16	NA	
Phosphorus, Dissolved	365.1	0.0064	mg/L	0.0050	1	09/14/18 11:09	09/11/18	

#### Analytical Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix: Water

Sample Name: 18LCB009 Basis: NA

**Lab Code:** R1808357-015

#### **Inorganic Parameters**

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	8.0	mg/L	2.0	1	09/10/18 16:34	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	09/11/18 22:50	NA	
Chlorophyll A	SM20 10200 H	1.28	ug/L	0.11	2	09/13/18 08:30	NA	
Color, True	SM 2120 B-2001(2011)	12.0	ColorUnits	1.0	1	08/30/18 10:15	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/13/18 13:59	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.32	mg/L	0.10	1	09/19/18 15:59	09/18/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.05	pH Units	-	1	09/01/18 08:30	NA	*
Phosphorus, Total	365.1	0.0058	mg/L	0.0050	1	09/14/18 12:19	09/11/18	
Sulfate	300.0	3.2	mg/L	2.0	10	09/06/18 20:56	NA	
UV254	SM 5910 B	0.0480	cm-1	-	1	08/30/18 14:28	NA	

**Service Request:** R1808357 **Date Collected:** 08/29/18 12:55

**Date Received:** 08/30/18 09:35

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

**Sample Name:** 

18LCB009 Diss

**Lab Code:** R1808357-016

Service Request: R1808357

**Date Collected:** 08/29/18 12:55

**Date Received:** 08/30/18 09:35

Basis: NA

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	4.0	mg/L	1.0	1	09/10/18 10:37	NA	
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/14/18 11:10	09/11/18	

Analytical Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix: Water

Sample Name: 18LCB005

**Lab Code:** R1808357-017

Service Request: R1808357

**Date Collected:** 08/29/18 14:35

**Date Received:** 08/30/18 09:35

Basis: NA

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	<b>Date Analyzed</b>	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	9.6	mg/L	2.0	1	09/10/18 16:51	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0062	mg/L	0.0050	1	09/12/18 00:26	NA	
Chlorophyll A	SM20 10200 H	12.0	ug/L	0.64	4	09/13/18 08:30	NA	
Color, True	SM 2120 B-2001(2011)	29.0	ColorUnits	1.0	1	08/30/18 10:15	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0036	mg/L	0.0020	1	09/13/18 14:00	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.45	mg/L	0.10	1	09/19/18 16:00	09/18/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.27	pH Units	-	1	09/01/18 08:30	NA	*
Phosphorus, Total	365.1	0.0198	mg/L	0.0050	1	09/14/18 12:22	09/11/18	
Sulfate	300.0	2.0 U	mg/L	2.0	10	09/06/18 21:17	NA	
UV254	SM 5910 B	0.102	cm-1	-	1	08/30/18 14:28	NA	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

**Date Collected:** 08/29/18 14:35 **Date Received:** 08/30/18 09:35

Date Received: 08/30/18 09.3

Basis: NA

Service Request: R1808357

Sample Name: 18LCB005 Diss

**Lab Code:** R1808357-018

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	5.6	mg/L	1.0	1	09/10/18 10:58	NA	
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/14/18 11:11	09/11/18	

#### Analytical Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix: Water

Sample Name: 18LCB013

**Lab Code:** R1808357-019

Service Request: R1808357

**Date Collected:** 08/29/18 08:33

**Date Received:** 08/30/18 09:35

Basis: NA

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	18.0	mg/L	2.0	1	09/10/18 16:59	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0075	mg/L	0.0050	1	09/12/18 00:42	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	5.4	mg/L	1.0	1	09/11/18 03:03	NA	
Chlorophyll A	SM20 10200 H	3.30	ug/L	0.11	2	09/13/18 08:30	NA	
Color, True	SM 2120 B-2001(2011)	37.0	ColorUnits	1.0	1	08/30/18 10:15	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/13/18 14:01	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.28	mg/L	0.10	1	09/19/18 16:02	09/18/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.40	pH Units	-	1	09/01/18 08:30	NA	*
Phosphorus, Total	365.1	0.0121	mg/L	0.0050	1	09/14/18 12:24	09/11/18	

Analytical Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1808357

**Date Collected:** 08/29/18 08:33

**Date Received:** 08/30/18 09:35

**Sample Name:** 18LCB013 Diss

**Lab Code:** R1808357-020

Basis: NA

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	<b>Date Extracted</b>	Q
Phosphorus Dissolved	365.1	0.0050 II	mg/I	0.0050	1	09/14/18 11:17	09/11/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Service Request: R1808357

**Date Collected:** 08/29/18 08:52

**Date Received:** 08/30/18 09:35

Sample Name: 18LCB014 Basis: NA

**Lab Code:** R1808357-021

							Date	
<b>Analyte Name</b>	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0296	mg/L	0.0050	1	09/12/18 00:58	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	6.5	mg/L	1.0	1	09/11/18 03:24	NA	
Color, True	SM 2120 B-2001(2011)	155	ColorUnits	5.0	5	08/30/18 10:15	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.261	mg/L	0.0020	1	09/13/18 14:05	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.25	mg/L	0.10	1	09/19/18 17:05	09/18/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.03	pH Units	-	5	09/01/18 08:30	NA	*
Phosphorus, Total	365.1	0.0211	mg/L	0.0050	1	09/14/18 12:25	09/11/18	

Analytical Report

**Client:** New York State DEC

**Project:** LCI 2018/LCI2018

**Sample Matrix:** 

Water

Service Request: R1808357

**Date Collected:** 08/29/18 08:52

**Date Received:** 08/30/18 09:35

**Sample Name:** 18LCB014 Diss Basis: NA

Lab Code: R1808357-022

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0076	mg/L	0.0050	1	09/14/18 11:18	09/11/18	

#### Analytical Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix: Water

**Sample Name:** 

18LCB001 Basis: NA

**Lab Code:** R1808357-023

#### **Inorganic Parameters**

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	10.0	mg/L	2.0	1	09/10/18 17:03	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0095	mg/L	0.0050	1	09/12/18 01:14	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	8.7	mg/L	1.0	1	09/11/18 03:44	NA	
Chlorophyll A	SM20 10200 H	26.6	ug/L	0.64	4	09/13/18 08:30	NA	
Color, True	SM 2120 B-2001(2011)	110	ColorUnits	5.0	5	08/30/18 10:15	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0058	mg/L	0.0020	1	09/13/18 14:07	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.76	mg/L	0.10	1	09/19/18 16:04	09/18/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.07	pH Units	-	5	09/01/18 08:30	NA	*
Phosphorus, Total	365.1	0.0261	mg/L	0.0050	1	09/14/18 12:28	09/11/18	

**Service Request:** R1808357 **Date Collected:** 08/29/18 10:50

**Date Received:** 08/30/18 09:35

Analytical Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1808357

**Date Collected:** 08/29/18 10:50

**Date Received:** 08/30/18 09:35

Sample Name: 18LCB001 Diss Lab Code: R1808357-024 Basis: NA

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0094	mg/L	0.0050	1	09/14/18 11:19	09/11/18	

Analytical Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix: Water

Sample Name: 18LCB011

**Lab Code:** R1808357-025

Service Request: R1808357

**Date Collected:** 08/29/18 12:02

**Date Received:** 08/30/18 09:35

Basis: NA

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	<b>Date Analyzed</b>	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	31.2	mg/L	2.0	1	09/10/18 17:08	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0142	mg/L	0.0050	1	09/12/18 01:30	NA	
Chlorophyll A	SM20 10200 H	1.79	ug/L	0.080	1	09/13/18 08:30	NA	
Color, True	SM 2120 B-2001(2011)	17.0	ColorUnits	1.0	1	08/30/18 10:15	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/13/18 14:11	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.22	mg/L	0.10	1	09/19/18 16:04	09/18/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.58	pH Units	-	1	09/01/18 08:30	NA	*
Phosphorus, Total	365.1	0.0072	mg/L	0.0050	1	09/14/18 12:29	09/11/18	
Sulfate	300.0	4.7	mg/L	2.0	10	09/06/18 21:22	NA	
UV254	SM 5910 B	0.112	cm-1	-	1	08/30/18 14:28	NA	

Analytical Report

**Client:** New York State DEC

Service Request: R1808357 **Date Collected:** 08/29/18 12:02 **Project:** LCI 2018/LCI2018

**Date Received:** 08/30/18 09:35 **Sample Matrix:** Water

**Sample Name:** 18LCB011 Diss Basis: NA

Lab Code: R1808357-026

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	5.6	mg/L	1.0	1	09/10/18 11:19	NA	
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/14/18 11:20	09/11/18	

#### Analytical Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix: Water

**Sample Name:** 

18LCB012

**Lab Code:** R1808357-027

Service Request: R1808357

**Date Collected:** 08/29/18 12:11

**Date Received:** 08/30/18 09:35

Basis: NA

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0240	mg/L	0.0050	1	09/12/18 01:46	NA	
Color, True	SM 2120 B-2001(2011)	34.0	ColorUnits	1.0	1	08/30/18 10:15	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0030	mg/L	0.0020	1	09/13/18 14:12	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.49	mg/L	0.10	1	09/19/18 17:15	09/18/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.20	pH Units	-	1	09/01/18 08:30	NA	*
Phosphorus, Total	365.1	0.0407	mg/L	0.0050	1	09/14/18 12:30	09/11/18	
Sulfate	300.0	4.2	mg/L	2.0	10	09/06/18 21:27	NA	
UV254	SM 5910 B	0.155	cm-1	-	1	08/30/18 14:28	NA	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

**Sample Name:** 

18LCB012 Diss Basis: NA

**Lab Code:** R1808357-028

#### **Inorganic Parameters**

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	4.9	mg/L	1.0	1	09/10/18 11:39	NA	
Phosphorus, Dissolved	365.1	0.0130	mg/L	0.0050	1	09/14/18 11:21	09/11/18	

**Service Request:** R1808357 **Date Collected:** 08/29/18 12:11

**Date Received:** 08/30/18 09:35

#### Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Sample Name: 18LCB198

**Lab Code:** R1808357-029

Service Request: R1808357

**Date Collected:** 08/29/18 12:02

**Date Received:** 08/30/18 09:35

Basis: NA

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	31.2	mg/L	2.0	1	09/10/18 17:12	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	09/12/18 02:02	NA	
Chlorophyll A	SM20 10200 H	2.16	ug/L	0.080	1	09/13/18 08:30	NA	
Color, True	SM 2120 B-2001(2011)	18.0	ColorUnits	1.0	1	08/30/18 10:15	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/13/18 14:14	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.25	mg/L	0.10	1	09/19/18 16:06	09/18/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.64	pH Units	-	1	09/01/18 08:30	NA	*
Phosphorus, Total	365.1	0.0070	mg/L	0.0050	1	09/14/18 12:31	09/11/18	
Sulfate	300.0	4.8	mg/L	2.0	10	09/06/18 21:32	NA	
UV254	SM 5910 B	0.109	cm-1	-	1	08/30/18 14:28	NA	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

**Sample Name:** 

18LCB198 Diss Basis: NA

**Lab Code:** R1808357-030

#### **Inorganic Parameters**

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	5.4	mg/L	1.0	1	09/10/18 12:00	NA	
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/14/18 11:22	09/11/18	

**Service Request:** R1808357 **Date Collected:** 08/29/18 12:02

**Date Received:** 08/30/18 09:35



# **QC Summary Forms**

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com



# Metals

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com

### **METALS**

-3-

**BLANKS** 

Contract:	R1808357			
Lab Code:	Case No.:	SAS No.:	SDG NO.:	LCI0827
Preparation	Blank Matrix (soil/water):	WATER		
Preparation	Blank Concentration Units (ug/L,	, ppt, or mg/kg): UG/L		

	Initial Calib. Blank		Continuing Calibration Blank ug/L						Preparation Blank			
Analyte	ug/L	С	1	С	2	С	3	С		С		M
Arsenic	0.39	U	0.39	Ū	0.39	U	0.39	Ū	0.39	Ū		MS
Iron	13.00	Ū	13.00	Ū	13.00	U	13.00	ŭ	13.000	U	Ī	P
Manganese	1.70	Ū	1.70	Ū	1.70	U	1.70	Ū	1.700	Ū	Ī	P

Comments:

### **METALS**

-3-

**BLANKS** 

Contract:	R1808357						
Lab Code:		Case No.:	SAS No.:		SDG NO.:	LCI0827	
Preparation	Blank Matrix (s	soil/water):	WATER				
Preparation	Blank Concentra	ation Units (ug/L	, ppt, or mg/kg):	UG/L			

	Initial Calib. Blank	Cont	inu	Preparation Blank								
Analyte	ug/L	С	1	С	2	С	3	С		С		M
Arsenic	İ		0.39	Ū	0.39	U	0.39	Ū		l	M	4S
Iron			13.00	Ū	13.00	U	13.00	U			E	?
Manganese			1.70	U	1.70	Ū	1.70	U			E	?

Comments:

#### **METALS**

-7-

### LABORATORY CONTROL SAMPLE

Contract:	R1808357				
Lab Code:		Case No.:	SAS No.:	SDG NO.:	LCI0827
Solid LCS S	ource:				
Aqueous LCS	Source:	ACCUSTANDARD			

	Aqueous	s (ug/L		Solid (mg/K							
Analyte	True	Found	%R	True	Found	С	Limits	%R			
Arsenic	20.0	21.4	107								
Iron	1000	969	97								
Manganese	500	499	100								

Comments:



# **General Chemistry**

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com

#### Analytical Report

Client: New York State DEC Service Request: R1808357

Project: LCI 2018/LCI2018

Date Collected: NA

Sample Matrix: Water Date Received: NA

Sample Name: Method Blank Basis: NA

**Lab Code:** R1808357-MB1

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	09/10/18 14:30	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	09/09/18 14:27	NA	
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	09/10/18 19:02	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	09/10/18 17:17	NA	
Chlorophyll A	SM20 10200 H	0.16 U	ug/L	0.16	1	09/13/18 08:30	NA	
Color, True	SM 2120 B-2001(2011)	1.0	ColorUnits	1.0	1	08/30/18 10:15	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/13/18 13:15	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10 U	mg/L	0.10	1	09/19/18 13:25	09/18/18	
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/14/18 10:49	09/11/18	
Phosphorus, Total	365.1	0.0050 U	mg/L	0.0050	1	09/14/18 12:00	09/11/18	
Sulfate	300.0	0.20 U	mg/L	0.20	1	09/06/18 19:02	NA	
UV254	SM 5910 B	0.00150	cm-1	-	1	08/30/18 14:28	NA	

Analytical Report

Client: New York State DEC Service Request: R1808357

Project: LCI 2018/LCI2018 Date Collected: NA

Sample Matrix: Water Date Received: NA

Sample Name: Method Blank Basis: NA

**Lab Code:** R1808357-MB2

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	09/10/18 16:42	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	09/11/18 13:45	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/13/18 13:48	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10 U	mg/L	0.10	1	09/19/18 15:54	09/18/18	
Sulfate	300.0	0.20 U	mg/L	0.20	1	09/06/18 21:06	NA	

Analytical Report

Client: New York State DEC Service Request: R1808357

Project: LCI 2018/LCI2018

Date Collected: NA

Sample Matrix: Water Date Received: NA

Sample Name: Method Blank Basis: NA

**Lab Code:** R1808357-MB3

Analyte Name	<b>Analysis Method</b>	Result	Units	MRL	Dil.	<b>Date Analyzed</b>	Q
Ammonia as Nitrogen undistilled	ASTM D6919-09	0.0050 U	mø/L	0.0050	1	09/11/18 20:57	

QA/QC Report

**Client:** New York State DEC **Project:** 

LCI 2018/LCI2018

**Service Request:** 

R1808357

**Date Collected: Date Received:** 

08/28/18 08/30/18

Date Analyzed:

09/13/18

**Duplicate Matrix Spike Summary** 

Nitrate+Nitrite as Nitrogen

**Sample Name:** 18LCB025 Lab Code: R1808357-001 **Units:** 

mg/L

**Analysis Method:** 

**Sample Matrix:** 

353.2

Water

**Basis:** 

NA

**Matrix Spike** 

**Duplicate Matrix Spike** 

R1808357-001MS

R1808357-001DMS

	Sample		Spike			Spike		% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Nitrate+Nitrite as Nitrogen	0.0020 U	0.538	0.500	108	0.554	0.500	111	75-125	3	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

New York State DEC **Client: Service Request:** R1808357 **Project:** LCI 2018/LCI2018 **Date Collected:** 08/28/18 **Sample Matrix:** Water **Date Received:** 08/30/18 **Date Analyzed:** 09/19/18 **Date Extracted:** 09/18/18

**Duplicate Matrix Spike Summary** 

Nitrogen, Total Kjeldahl (TKN)

 Sample Name:
 18LCB020
 Units:
 mg/L

 Lab Code:
 R1808357-007
 Basis:
 NA

**Analysis Method:** 351.2 **Prep Method:** Method

Matrix Spike Duplicate Matrix Spike

R1808357-007MS R1808357-007DMS

	Sample		Spike			Spike		% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Nitrogen, Total Kjeldahl (TKN)	0.34	2.69	2.50	94	2.73	2.50	95	75-125	1	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

New York State DEC **Client: Service Request:** R1808357 **Project:** LCI 2018/LCI2018 **Date Collected:** 08/29/18 **Sample Matrix:** Water **Date Received:** 08/30/18 **Date Analyzed:** 09/19/18 **Date Extracted:** 09/18/18

**Duplicate Matrix Spike Summary** 

Nitrogen, Total Kjeldahl (TKN)

 Sample Name:
 18LCB023
 Units: mg/L

 Lab Code:
 R1808357-009
 Basis: NA

**Analysis Method:** 351.2 **Prep Method:** Method

Matrix Spike Duplicate Matrix Spike

R1808357-009MS R1808357-009DMS

	Sample		Spike			Spike		% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Nitrogen, Total Kjeldahl (TKN)	0.72	3.09	2.50	94	2.94	2.50	89	75-125	5	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

QA/QC Report

**Client:** New York State DEC **Service Request:** R1808357 **Project:** LCI 2018/LCI2018 **Date Collected:** 08/29/18 **Sample Matrix:** Water **Date Received:** 08/30/18 **Date Analyzed:** 09/14/18 **Date Extracted:** 09/11/18

> Duplicate Matrix Spike Summary Phosphorus, Dissolved

 Sample Name:
 18LCB005 Diss
 Units:
 mg/L

 Lab Code:
 R1808357-018
 Basis:
 NA

**Analysis Method:** 365.1 **Prep Method:** Method

Matrix Spike Duplicate Matrix Spike

R1808357-018MS R1808357-018DMS

	Sample		Spike			Spike		% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Phosphorus, Dissolved	0.0050 U	0.0269	0.0250	108	0.0270	0.0250	108	75-125	<1	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client: New York State DEC **Service Request:** R1808357 **Project:** LCI 2018/LCI2018 **Date Collected:** 08/29/18 **Sample Matrix:** Water **Date Received:** 08/30/18 Date Analyzed: 09/14/18 **Date Extracted:** 09/11/18

> Duplicate Matrix Spike Summary Phosphorus, Total

 Sample Name:
 18LCB014
 Units:
 mg/L

 Lab Code:
 R1808357-021
 Basis:
 NA

**Analysis Method:** 365.1 **Prep Method:** Method

Matrix SpikeDuplicate Matrix SpikeR1808357-021MSR1808357-021DMS

% Rec **RPD** Sample Spike **Spike** Analyte Name % Rec Result Result Amount % Rec Result Amount Limits **RPD** Limit Phosphorus, Total 0.0211 0.0447 0.0250 0.0453 0.0250 75-125 20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

**Client:** New York State DEC **Project:** 

LCI 2018/LCI2018

**Date Collected: Date Received:** 

R1808357

**Service Request:** 

08/29/18 08/30/18

Date Analyzed:

09/13/18

**Duplicate Matrix Spike Summary** 

Nitrate+Nitrite as Nitrogen

**Sample Name:** 18LCB001 **Units:** 

mg/L

Lab Code:

**Sample Matrix:** 

R1808357-023

**Basis:** 

NA

**Analysis Method:** 

353.2

Water

**Matrix Spike** 

**Duplicate Matrix Spike** 

R1808357-023MS

R1808357-023DMS

	Sample		Spike			Spike		% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Nitrate+Nitrite as Nitrogen	0.0058	0.501	0.500	99	0.496	0.500	98	75-125	1	20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

dba ALS Environmental

QA/QC Report

Client: New York State DEC **Project** 

LCI 2018/LCI2018

**Date Collected:** 08/28/18

Sample Matrix: Water **Date Received:** 08/30/18 **Date Analyzed:** 09/10/18

Service Request: R1808357

**Replicate Sample Summary General Chemistry Parameters** 

2.0

Sample Name: 18LCB025 Units: mg/L

Lab Code: R1808357-001 Basis: NA

**Duplicate** Sample

R1808357-

14.4

Sample Analyte Name **Analysis Method** Result **MRL** Alkalinity, Total as CaCO3 SM 2320 B-1997(2011)

**001DUP** 

**RPD Limit** Result Average 14.4 14.4

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

dba ALS Environmental

QA/QC Report

Client: New York State DEC

Service Request: R1808357

Project LCI 2018/LCI2018

**Date Collected:** 08/28/18 **Date Received:** 08/30/18

Sample Matrix: Water

**Date Analyzed:** 09/10/18

Replicate Sample Summary General Chemistry Parameters

Sample Name: 18LCB019

Units: mg/L

Lab Code:

R1808357-005

Basis: NA

Duplicate Sample

R1808357-

Sample

Analyte Name Analysis Method

Result

005DUP Result Average

RPD Limit

Alkalinity, Total as CaCO3

SM 2320 B-1997(2011)

MRL 2.0

15.6

15.2

15.4

20

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

dba ALS Environmental

QA/QC Report

Client: New York State DEC Service Request: R1808357

**Project** LCI 2018/LCI2018

**Date Collected:** 08/29/18 **Date Received:** 08/30/18

Sample Matrix: Water

**Date Analyzed:** 09/10/18

**Replicate Sample Summary General Chemistry Parameters** 

Sample Name: 18LCB005 Units: mg/L

Lab Code: R1808357-017 Basis: NA

**Duplicate** Sample

R1808357-

Analyte Name **Analysis Method MRL**  Sample Result

**017DUP** Result Average

**RPD Limit** 

Alkalinity, Total as CaCO3

SM 2320 B-1997(2011)

2.0

9.6

9.6

9.60

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

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QA/QC Report

Client: New York State DEC
Project LCI 2018/LCI2018

New York State DEC

LCI 2018/LCI2018

Service Request: R1808357

Date Collected: 08/29/18

Sample Matrix: Water Date Received: 08/30/18

**Date Analyzed:** 08/30/18

Replicate Sample Summary General Chemistry Parameters

Sample Name: 18LCB005 Units: ColorUnits

**Lab Code:** R1808357-017 **Basis:** NA

Duplicate Sample

R1808357-Sample 017DUP

Analyte NameAnalysis MethodMRLResultResultAverageRPDRPD LimitColor, TrueSM 2120 B-2001(2011)1.029.029.029.0<1</td>5

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

dba ALS Environmental

QA/QC Report

Client: New York State DEC **Project** 

LCI 2018/LCI2018

**Date Collected:** 08/29/18 **Date Received:** 08/30/18

Service Request: R1808357

Sample Matrix:

Lab Code:

Water

**Date Analyzed:** 09/01/18

**Replicate Sample Summary General Chemistry Parameters** 

Sample Name: 18LCB005 Units: pH Units

R1808357-017

Basis: NA

**Duplicate** Sample

R1808357-

Sample

**017DUP** 

**Analysis Method** Result Analyte Name **MRL** Result **RPD Limit** Average pH of Color Analysis SM 2120 B-2001(2011) 7.27 7.27

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

dba ALS Environmental

QA/QC Report

Client: New York State DEC

Water

**Project** 

**Sample Matrix:** 

Sample Name:

Lab Code:

LCI 2018/LCI2018

Service Request: R1808357

**Date Collected:** 08/29/18

**Date Received:** 08/30/18 **Date Analyzed:** 08/30/18

**Replicate Sample Summary General Chemistry Parameters** 

18LCB011

R1808357-025

Units: cm-1

Basis: NA

**Duplicate** 

Sample R1808357-

**025DUP** 

Sample **Analysis Method** Result **RPD Limit Analyte Name MRL** Result **RPD** Average SM 5910 B UV254 0.112 0.112 0.112

Results flagged with an asterisk (\*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

**Sample Matrix:** Water

Service Request: R1808357

**Date Analyzed:** 09/06/18 - 09/19/18

**Lab Control Sample Summary General Chemistry Parameters** 

Units:mg/L Basis:NA

# **Lab Control Sample**

R1808357-LCS1

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	17.2	20.0	86	70-130
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.533	0.500	107	70-130
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	10.5	10.0	105	70-130
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.3	10.0	103	70-130
Nitrate+Nitrite as Nitrogen	353.2	0.520	0.500	104	70-130
Nitrogen, Total Kjeldahl (TKN)	351.2	2.38	2.50	95	70-130
Phosphorus, Dissolved	365.1	0.0229	0.0250	92	70-130
Phosphorus, Total	365.1	0.0245	0.0250	98	70-130
Sulfate	300.0	1.96	2.00	98	70-130

QA/QC Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Sample Matrix: Water

Service Request: R1808357

**Date Analyzed:** 09/06/18 - 09/19/18

**Lab Control Sample Summary General Chemistry Parameters** 

Units:mg/L
Basis:NA

## **Lab Control Sample**

R1808357-LCS2

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits	
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	17.2	20.0	86	70-130	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.503	0.500	101	70-130	
Nitrate+Nitrite as Nitrogen	353.2	0.520	0.500	104	70-130	
Nitrogen, Total Kjeldahl (TKN)	351.2	2.26	2.50	90	70-130	
Sulfate	300.0	1.97	2.00	98	70-130	

QA/QC Report

Client: New York State DEC Project: LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1808357 Date Analyzed: 09/11/18

**Lab Control Sample Summary General Chemistry Parameters** 

Units:mg/L Basis:NA

Lab Control Sample

R1808357-LCS3

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.485	0.500	97	70-130	