



September 10, 2018

Service Request No:R1807761

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

**Laboratory Results for: LCI**

Dear Ms.Onion,

Enclosed are the results of the sample(s) submitted to our laboratory August 15, 2018  
For your reference, these analyses have been assigned our service request number **R1807761**.

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](mailto:Janice.Jaeger@alsglobal.com).

Respectfully submitted,

**ALS Group USA, Corp. dba ALS Environmental**

Janice Jaeger  
Project Manager

CC: Jason Fagel

**ADDRESS**

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

**PHONE** +1 585 288 5380 | **FAX** +1 585 288 8475

ALS Group USA, Corp.  
dba ALS Environmental



## 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](http://www.alsglobal.com)

**Client:** New York State DEC  
**Project:** LCI  
**Sample Matrix:** Water

**Service Request:** R1807761  
**Date Received:** 08/15/2018

### 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:

Eighteen water samples were received for analysis at ALS Environmental on 08/15/2018. 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:

No significant anomalies were noted with this analysis.



Approved by \_\_\_\_\_

Date 09/10/2018



## 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](http://www.alsglobal.com)

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

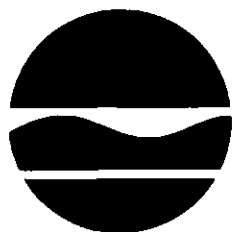
**Service Request:**R1807761

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1807761-001	18LHB239	8/13/2018	1530
R1807761-002	18LHB239 Diss	8/13/2018	1530
R1807761-003	18LHB203	8/14/2018	0810
R1807761-004	18LHB203 Diss	8/14/2018	0810
R1807761-005	18LHB204	8/14/2018	0815
R1807761-006	18LHB204 Diss	8/14/2018	0815
R1807761-007	18LHB227	8/14/2018	1120
R1807761-008	18LHB227 Diss	8/14/2018	1120
R1807761-009	18LHB298	8/14/2018	0815
R1807761-010	18LHB298 Diss	8/14/2018	0815
R1807761-011	18LHB225	8/14/2018	1440
R1807761-012	18LHB225 Diss	8/14/2018	1440
R1807761-013	18LHB243	8/14/2018	
R1807761-014	18LHB243 Diss	8/14/2018	
R1807761-015	18LHB244	8/14/2018	
R1807761-016	18LHB244 Diss	8/14/2018	
R1807761-017	18LHB241	8/14/2018	1255
R1807761-018	18LHB241 Diss	8/14/2018	1255

# CHAIN OF CUSTODY

Page 1 of 1



New York State Department of  
Environmental Conservation –  
Division of Water

Project Name: LCI

Project Number: LCI2018

NYSDEC SDG:

Sampler Collector:

*Sara Gonzalez*

Sampler Signature:

*Sara Gonzalez*

Sampler Phone No.:

845-216-9575

Project Manager: Alene Onion

☒ Report to Project Manager

☐ Bill to Project Manager

Report to:

Bill to: Jason Fagel

Address: 625 Broadway, 4<sup>th</sup> Floor  
Albany, NY 12233-3502

Address:

Address: 625 Broadway, 4<sup>th</sup> Floor  
Albany, NY 12233-3502

Phone: (518) 402-8166

Phone:

Phone: 518-402-8156

Email: alene.onion@dec.ny.gov

Email:

Email: Jason.fagel@dec.ny.gov

## Matrix Codes:

WW = Wastewater  
GW = Groundwater  
AW = Ambient Water  
SE = Sediment  
SL = Sludge  
T = Tissue  
O = Other \_\_\_\_\_

## Analyses Ordered (list)

## Preservative Codes:

0 = Cool to < 6°C  
1 = HCL  
2 = HNO<sub>3</sub>  
3 = H<sub>2</sub>SO<sub>4</sub>  
4 = NaOH  
5 = Zn. Acetate  
6 = MeOH  
7 = NaHSO<sub>4</sub>  
8 = Other \_\_\_\_\_

## NYSDEC LCI Sample ID

Collection Date

Collection Time

Matrix Code

No. of Containers

3

ANC

TP, NH<sub>4</sub>, NO<sub>3</sub>

TKN, NO<sub>3</sub>

Dissolved TOP4

Fe, Mn, As,

Ca, Mg, Na, K

ANC

Fe, Mn, As, Ca, Mg, Na, K

Color

TOC

DOC

ANC

Alkalinity

SO<sub>4</sub> & UV-254

SO<sub>4</sub>, Cl

SO<sub>4</sub>, Cl, UV-254

0

Chlorophyll a |

Vol (ml)

## Location Info

18 LHB 239

08/13

15:30

AW

6

X

X

X

X

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18 LHB 203

08/14

8:10

AW

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18 LHB 204

08/14

8:15

AW

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18 LHB 227

08/14

11:20

AW

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18 LHB 228

08/14

8:15

AW

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18 LHB 225

08/14

14:40

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## Special Analysis Instructions:

Relinquished by Sampler:

*Sara Gonzalez*

Date:

08/14

Time:

3:30 PM

Received by:

*[Signature]*

Date:

8/15/18

Time:

0930

Laboratory Receipt Notes:

Relinquished by:

Date:

Time:

Received by:

Date:

Time:

Relinquished by:

Date:

Time:

Received by Laboratory:

Date:

Time:

Sar  
Pro  
Sar

R1807761  
New York State DEC  
LCI

5





# Cooler Receipt and Preservation Check Form

R1807761

New York State DEC



5

Project/Client \_\_\_\_\_ Folder Number \_\_\_\_\_

Cooler received on 8/15/18 by: SL

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u>	N
2	Custody papers properly completed (ink, signed)?	<u>Y</u>	N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u>	N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u>	N

5a	Perchlorate samples have required headspace?	Y	N	<u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y	<u>N</u>	NA
6	Where did the bottles originate?	<u>ALS/ROC</u>	CLIENT	
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>		

8. Temperature Readings Date: 8/15/18 Time: 1005 ID: IR#7 IR#9 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>8.1</u>							
Correction Factor (°C)	<u>0.0</u>							
Corrected Temp (°C)	<u>8.1</u>							
Temp from: Type of bottle	<u>containing</u>							
Within 0-6°C?	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>
If <0°C, were samples frozen?	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>	<u>Y</u> <u>N</u>

If out of Temperature, note packing/ice condition: Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: \_\_\_\_\_ Standing Approval Client aware at drop-off Client notified by: \_\_\_\_\_

All samples held in storage location: PS by SL on 8/15/18 at 1010  
5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_

Cooler Breakdown/Preservation Check\*\*: Date: \_\_\_\_\_ Time: \_\_\_\_\_ by: \_\_\_\_\_

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO  
10. Did all bottle labels and tags agree with custody papers? YES NO  
11. Were correct containers used for the tests indicated? YES NO  
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A  
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH	Yes	No						
≤2		HNO <sub>3</sub>								
≤2		H <sub>2</sub> SO <sub>4</sub>								
<4		NaHSO <sub>4</sub>								
5-9		For 608pest			No=Notify for 3 days					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (625, 608, CN), ascorbic (phenol).					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>								
		ZnAcetate	-	-						
		HCl	**	**						

\*\*VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: \_\_\_\_\_

Explain all Discrepancies/ Other Comments: \_\_\_\_\_

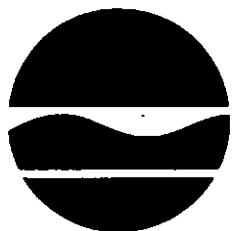
CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
ALS	REV

Labels secondary reviewed by: \_\_\_\_\_

PC Secondary Review: \_\_\_\_\_

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

## Page 1 of 1



**Email:** [Jason.fagel@dec.ny.gov](mailto:Jason.fagel@dec.ny.gov)

<b>Matrix Codes:</b> <b>WW</b> = Wastewater <b>GW</b> = Groundwater <b>AW</b> = Ambient Water <b>SE</b> = Sediment <b>SL</b> = Sludge <b>T</b> = Tissue <b>O</b> = Other _____		Collection Date	Collection Time	Matrix Code	No. of Containers	Analyses Ordered (list)											Preservative Codes:			
						3	2	0	3	0	0	0	0	0	0	0	0	0	0	0
<b>NYSDEC</b> <b>LCI Sample ID</b>						TP, NH4, NOx, TKN	TP, NH4, NOx, TKN, NO3	Dissolved TOP4	Fe, Mn, As,	Ca, Mg, Na, K	Fe, Mn, As, Ca, Mg, Na, K	Color	TOC	DOC	Alkalinity	SO4 & UV-254	SO4, Cl	SO4, Cl, UV-254	Chlorophyll a   Vol (ml)	0 = Cool to < 6°C 1 = HCL 2 = HNO3 3 = H2SO4 4 = NaOH 5 = Zn. Acetate 6 = MeOH 7 = NaHSO4 8 = Other _____
18LHB243	8-14-8		AW	7	X		X				X		X	X	X			X	520	Chloride Epi
18LHB244	8-14-8		AW	6	X		X	X			X		X		X					Chloride Hypo
18LHB241	8/14	1255			X			X			X	X		X				X	250	

**Special Analysis Instructions:**

1807761 coded as per Aline Union Lms 8/17/18						Laboratory Receipt Notes:		
Relinquished by: <i>[Signature]</i>	Date: 8-14-18	Time: 1:50	Received by: <i>[Signature]</i>	Date: 8/14/18	Time: 1:50pm	<b>Sample</b> <b>Proper</b> <b>Sample</b>	<b>R1807761</b> New York State DEC LCI	<b>5</b>
Relinquished by: <i>[Signature]</i>	Date: 8/14/18	Time: 1600	Received by: <i>[Signature]</i>	Date: 8/15/18	Time: 0915			
Relinquished by:	Date:	Time:	Received by Laboratory:	Date:	Time:			





# Cooler Receipt and Preservation Check Form

R1807761

5

New York State DEC  
LCI



Project/Client \_\_\_\_\_ Folder Number \_\_\_\_\_

Cooler received on 8/15/18 by: SL

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	<u>Y</u> N
2	Custody papers properly completed (ink, signed)?	<u>Y</u> N
3	Did all bottles arrive in good condition (unbroken)?	<u>Y</u> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<u>Y</u> N

5a	Perchlorate samples have required headspace?	Y N <u>NA</u>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <u>N</u> NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as: Bulk Encore 5035set	<u>NA</u>

8. Temperature Readings Date: 8/15/18 Time: 6:10 ID: IR# IR#9 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>5.1</u>						
Correction Factor (°C)	<u>-</u>						
Corrected Temp (°C)	<u>5.1</u>						
Temp from: Type of bottle	<u>250ml 8104M</u>						
Within 0-6°C?	<u>Y</u> N	Y N	Y N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

If out of Temperature, note packing/ice condition: \_\_\_\_\_ Ice melted Poorly Packed (described below) Same Day Rule

& Client Approval to Run Samples: \_\_\_\_\_ Standing Approval Client aware at drop-off Client notified by: \_\_\_\_\_

All samples held in storage location: Rm by SL on 8/15/18 at 6:10  
5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_

Cooler Breakdown/Preservation Check\*\*: Date: 8/16/18 Time: 0920 by: SL

9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO  
10. Did all bottle labels and tags agree with custody papers? YES NO  
11. Were correct containers used for the tests indicated? YES NO  
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO  
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated W/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2	<u>204518</u>	HNO <sub>3</sub>	<u>✓</u>		<u>B2805E</u>	<u>7/19</u>				
≤2		H <sub>2</sub> SO <sub>4</sub>	<u>✓</u>		<u>190642, 21430071</u>	<u>↓</u>				
<4		NaHSO <sub>4</sub>								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (625, 608, CN), ascorbic (phenol).					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>								
		ZnAcetate	-	-						
		HCl	**	**						

\*\*VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).

Bottle lot numbers: 8-072-008 070218-2440

Explain all Discrepancies/ Other Comments:

2) No collection time

Rec'd location not on any COC  
184113241 8/14/18 @ 1255  
Lake Casse (epi.)

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

Labels secondary reviewed by: SL  
PC Secondary Review: SL 8/17/18

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



## Miscellaneous Forms

**ALS Environmental—Rochester Laboratory**

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Phone (585) 288-5380 Fax (585) 288-8475

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## 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.	+	Correlation coefficient for MSA is <0.995.
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/Aroclors).	N	Inorganics- Matrix spike recovery was outside laboratory limits.
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.	N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.	S	Concentration has been determined using Method of Standard Additions (MSA).
E	Organics- Concentration has exceeded the calibration range for that specific analysis.	W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
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.	P	Concentration >40% difference between the two GC columns.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the öNotesö column of the Form I, this qualifier denotes analysis was performed out of Holding Time.	C	Confirmed by GC/MS
H	Analysis was performed out of hold time for tests that have an öimmediateö hold time criteria.	Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (×100% Difference between two GC columns).
#	Spike was diluted out.	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>1</sup> Analyses were performed according to our laboratory's 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 <https://www.alsglobal.com/locations/americas/north-america/usa/new-york/rochester-environmental>

# ALS Laboratory Group

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## 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  
**Project:** LCI/LCI2018

**Service Request:** R1807761

**Non-Certified Analytes**

**Certifying Agency:** New York Department of Health

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

ALS Group USA, Corp.  
dba ALS Environmental

Analyst Summary report

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

**Service Request:** R1807761

**Sample Name:** 18LHB239  
**Lab Code:** R1807761-001  
**Sample Matrix:** Water

**Date Collected:** 08/13/18  
**Date Received:** 08/15/18

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

**Sample Name:** 18LHB239 Diss  
**Lab Code:** R1807761-002  
**Sample Matrix:** Water

**Date Collected:** 08/13/18  
**Date Received:** 08/15/18

Analysis Method	Extracted/Digested By	Analyzed By
365.1	KWONG	GNITAJOUPPI

**Sample Name:** 18LHB203  
**Lab Code:** R1807761-003  
**Sample Matrix:** Water

**Date Collected:** 08/14/18  
**Date Received:** 08/15/18

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

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## Analyst Summary report

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

**Service Request:** R1807761

**Sample Name:** 18LHB203 Diss  
**Lab Code:** R1807761-004  
**Sample Matrix:** Water

**Date Collected:** 08/14/18  
**Date Received:** 08/15/18

**Analysis Method**

365.1  
SM 5310 C-2000(2011)

**Extracted/Digested By**

KWONG

**Analyzed By**

GNITAJOUPPI  
CWOODS

**Sample Name:** 18LHB204  
**Lab Code:** R1807761-005  
**Sample Matrix:** Water

**Date Collected:** 08/14/18  
**Date Received:** 08/15/18

**Analysis Method**

300.0  
351.2  
353.2  
365.1  
ASTM D6919-09  
SM 2120 B-2001(2011)  
SM 5910 B

**Extracted/Digested By**

NSMITH  
  
AFELSER

**Analyzed By**

BKALKMAN  
CWOODS  
GNITAJOUPPI  
GNITAJOUPPI  
BKALKMAN  
SCYMBAL  
MROGERSON

**Sample Name:** 18LHB204 Diss  
**Lab Code:** R1807761-006  
**Sample Matrix:** Water

**Date Collected:** 08/14/18  
**Date Received:** 08/15/18

**Analysis Method**

365.1  
SM 5310 C-2000(2011)

**Extracted/Digested By**

KWONG

**Analyzed By**

GNITAJOUPPI  
CWOODS

**Sample Name:** 18LHB227  
**Lab Code:** R1807761-007  
**Sample Matrix:** Water

**Date Collected:** 08/14/18  
**Date Received:** 08/15/18

**Analysis Method**

351.2  
353.2

**Extracted/Digested By**

NSMITH

**Analyzed By**

CWOODS  
GNITAJOUPPI

**ALS Group USA, Corp.**

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## Analyst Summary report

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

**Service Request:** R1807761

**Sample Name:** 18LHB227  
**Lab Code:** R1807761-007  
**Sample Matrix:** Water

**Date Collected:** 08/14/18  
**Date Received:** 08/15/18

**Analysis Method**

365.1  
ASTM D6919-09  
SM 2120 B-2001(2011)  
SM 2320 B-1997(2011)  
SM 5310 C-2000(2011)  
SM20 10200 H

**Extracted/Digested By**

AFELSER

**Analyzed By**

GNITAJOUPPI  
BKALKMAN  
SCYMBAL  
CWOODS  
NSMITH  
NSMITH

**Sample Name:** 18LHB227 Diss  
**Lab Code:** R1807761-008  
**Sample Matrix:** Water

**Date Collected:** 08/14/18  
**Date Received:** 08/15/18

**Analysis Method**

365.1

**Extracted/Digested By**

KWONG

**Analyzed By**

GNITAJOUPPI

**Sample Name:** 18LHB298  
**Lab Code:** R1807761-009  
**Sample Matrix:** Water

**Date Collected:** 08/14/18  
**Date Received:** 08/15/18

**Analysis Method**

300.0  
351.2  
353.2  
365.1  
ASTM D6919-09  
SM 2120 B-2001(2011)  
SM 5910 B

**Extracted/Digested By**

NSMITH  
AFELSER

**Analyzed By**

BKALKMAN  
CWOODS  
GNITAJOUPPI  
GNITAJOUPPI  
BKALKMAN  
SCYMBAL  
MROGERSON



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Analyst Summary report

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

**Service Request:** R1807761

**Sample Name:** 18LHB298 Diss  
**Lab Code:** R1807761-010  
**Sample Matrix:** Water

**Date Collected:** 08/14/18  
**Date Received:** 08/15/18

**Analysis Method**  
365.1  
SM 5310 C-2000(2011)

**Extracted/Digested By**  
KWONG

**Analyzed By**  
GNITAJOUPPI  
CWOODS

**Sample Name:** 18LHB225  
**Lab Code:** R1807761-011  
**Sample Matrix:** Water

**Date Collected:** 08/14/18  
**Date Received:** 08/15/18

**Analysis Method**  
300.0  
351.2  
353.2  
365.1  
ASTM D6919-09

**Extracted/Digested By**  
  
NSMITH  
  
AFELSER

**Analyzed By**  
BKALKMAN  
CWOODS  
GNITAJOUPPI  
GNITAJOUPPI  
BKALKMAN

SM 2120 B-2001(2011)  
SM 2320 B-1997(2011)  
SM 5910 B  
SM20 10200 H

SCYMBAL  
CWOODS  
MROGERSON  
NSMITH

**Sample Name:** 18LHB225 Diss  
**Lab Code:** R1807761-012  
**Sample Matrix:** Water

**Date Collected:** 08/14/18  
**Date Received:** 08/15/18

**Analysis Method**  
365.1  
SM 5310 C-2000(2011)

**Extracted/Digested By**  
KWONG

**Analyzed By**  
GNITAJOUPPI  
CWOODS

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Analyst Summary report

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

**Service Request:** R1807761

**Sample Name:** 18LHB243  
**Lab Code:** R1807761-013  
**Sample Matrix:** Water

**Date Collected:** 08/14/18  
**Date Received:** 08/15/18

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

**Sample Name:** 18LHB243 Diss  
**Lab Code:** R1807761-014  
**Sample Matrix:** Water

**Date Collected:** 08/14/18  
**Date Received:** 08/15/18

Analysis Method	Extracted/Digested By	Analyzed By
365.1	KWONG	GNITAJOUPPI
SM 5310 C-2000(2011)		CWOODS

**Sample Name:** 18LHB244  
**Lab Code:** R1807761-015  
**Sample Matrix:** Water

**Date Collected:** 08/14/18  
**Date Received:** 08/15/18

Analysis Method	Extracted/Digested By	Analyzed By
300.0		BKALKMAN
351.2	NSMITH	CWOODS
353.2		GNITAJOUPPI
365.1	AFELSER	GNITAJOUPPI
ASTM D6919-09		BKALKMAN
SM 2120 B-2001(2011)		SCYMBAL
SM 5910 B		MROGERSON

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Analyst Summary report

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

**Service Request:** R1807761

**Sample Name:** 18LHB244 Diss  
**Lab Code:** R1807761-016  
**Sample Matrix:** Water

**Date Collected:** 08/14/18  
**Date Received:** 08/15/18

**Analysis Method**  
365.1  
SM 5310 C-2000(2011)

**Extracted/Digested By**  
KWONG

**Analyzed By**  
GNITAJOUPPI  
CWOODS

**Sample Name:** 18LHB241  
**Lab Code:** R1807761-017  
**Sample Matrix:** Water

**Date Collected:** 08/14/18  
**Date Received:** 08/15/18

**Analysis Method**  
351.2  
353.2  
365.1  
ASTM D6919-09  
SM 2120 B-2001(2011)

**Extracted/Digested By**  
NSMITH  
  
AFELSER

**Analyzed By**  
CWOODS  
GNITAJOUPPI  
GNITAJOUPPI  
BKALKMAN  
SCYMBAL

SM 2320 B-1997(2011)  
SM 5310 C-2000(2011)  
SM20 10200 H

CWOODS  
NSMITH  
NSMITH

**Sample Name:** 18LHB241 Diss  
**Lab Code:** R1807761-018  
**Sample Matrix:** Water

**Date Collected:** 08/14/18  
**Date Received:** 08/15/18

**Analysis Method**  
365.1

**Extracted/Digested By**  
KWONG

**Analyzed By**  
GNITAJOUPPI



## 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 Soluble	9030B
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual Cyanide	SM 4500-CN-G
SM 4500-CN-E WAD Cyanide	SM 4500-CN-I

### Solid/Soil/Non-Aqueous Matrix

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

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



## Sample Results

**ALS Environmental—Rochester Laboratory**

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Phone (585) 288-5380 Fax (585) 288-8475

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## Metals

**ALS Environmental—Rochester Laboratory**

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**METALS**  
**- 1 -**  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** New York State DEC **Service Request:** LCI0813  
**Project No.:** R1807761 **Date Collected:** 8/14/2018  
**Project Name:** **Date Received:** 8/15/2018  
**Matrix:** WATER **Units:** ug/L  
**Basis:**

**Sample Name:** 18LHB204 **Lab Code:** R1807761-005

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	200.8	1.0	0.39	1.0	1.0	U	
Iron	200.7	100	13.0	1.0	1110		
Manganese	200.7	10.0	1.7	1.0	376		

% Solids: 0.0

Comments:

**METALS**  
**- 1 -**  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** New York State DEC **Service Request:** LCI0813  
**Project No.:** R1807761 **Date Collected:** 8/14/2018  
**Project Name:** **Date Received:** 8/15/2018  
**Matrix:** WATER **Units:** ug/L  
**Basis:**

**Sample Name:** 18LHB298 **Lab Code:** R1807761-009

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	200.8	1.0	0.39	1.0	1.0	U	
Iron	200.7	100	13.0	1.0	810		
Manganese	200.7	10.0	1.7	1.0	313		

% Solids: 0.0

Comments:



**METALS**  
**- 1 -**  
**INORGANIC ANALYSIS DATA PACKAGE**

**Client:** New York State DEC **Service Request:** LCI0813  
**Project No.:** R1807761 **Date Collected:** 8/14/2018  
**Project Name:** **Date Received:** 8/15/2018  
**Matrix:** WATER **Units:** ug/L  
**Basis:**

**Sample Name:** 18LHB244 **Lab Code:** R1807761-015

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	200.8	1.0	0.39	1.0	1.1		
Iron	200.7	100	13.0	1.0	3240		
Manganese	200.7	10.0	1.7	1.0	6510		

% Solids: 0.0

Comments:



## General Chemistry

**ALS Environmental—Rochester Laboratory**

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water  
  
**Sample Name:** 18LHB239  
**Lab Code:** R1807761-001

**Service Request:** R1807761  
**Date Collected:** 08/13/18 15:30  
**Date Received:** 08/15/18 09:30  
  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	46.8	mg/L	2.0	1	08/27/18 16:36	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0332	mg/L	0.0050	1	08/30/18 09:21	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	8.0	mg/L	1.0	1	08/19/18 19:39	NA	
Chlorophyll A	SM20 10200 H	85.8	ug/L	3.2	20	08/29/18 11:45	NA	
Color, True	SM 2120 B-2001(2011)	65.0	ColorUnits	5.0	5	08/15/18 11:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0061	mg/L	0.0020	1	08/29/18 19:25	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	1.52	mg/L	0.10	1	08/31/18 13:32	08/30/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.71	pH Units	-	5	08/21/18 15:00	NA	*
Phosphorus, Total	365.1	0.104	mg/L	0.010	2	08/29/18 13:59	08/28/18	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water  
  
**Sample Name:** 18LHB239 Diss  
**Lab Code:** R1807761-002

**Service Request:** R1807761  
**Date Collected:** 08/13/18 15:30  
**Date Received:** 08/15/18 09:30  
  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0103	mg/L	0.0050	1	08/27/18 16:00	08/23/18	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water  
  
**Sample Name:** 18LHB203  
**Lab Code:** R1807761-003

**Service Request:** R1807761  
**Date Collected:** 08/14/18 08:10  
**Date Received:** 08/15/18 09:30  
  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO <sub>3</sub>	SM 2320 B-1997(2011)	16.4	mg/L	2.0	1	08/27/18 16:40	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0092	mg/L	0.0050	1	08/30/18 09:37	NA	
Chlorophyll A	SM20 10200 H	9.70	ug/L	0.40	5	08/29/18 11:45	NA	
Color, True	SM 2120 B-2001(2011)	23.0	ColorUnits	1.0	1	08/15/18 11:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	08/29/18 19:29	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.36	mg/L	0.10	1	08/31/18 13:32	08/30/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.46	pH Units	-	1	08/21/18 15:00	NA	*
Phosphorus, Total	365.1	0.0093	mg/L	0.0050	1	08/29/18 12:42	08/28/18	
Sulfate	300.0	6.1	mg/L	2.0	10	08/29/18 22:04	NA	
UV254	SM 5910 B	0.112	cm-1	-	1	08/15/18 09:30	NA	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water  
  
**Sample Name:** 18LHB203 Diss  
**Lab Code:** R1807761-004

**Service Request:** R1807761  
**Date Collected:** 08/14/18 08:10  
**Date Received:** 08/15/18 09:30  
  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	4.2	mg/L	1.0	1	08/19/18 10:16	NA	
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	08/27/18 16:02	08/23/18	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water  
  
**Sample Name:** 18LHB204  
**Lab Code:** R1807761-005

**Service Request:** R1807761  
**Date Collected:** 08/14/18 08:15  
**Date Received:** 08/15/18 09:30  
  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0883	mg/L	0.0050	1	08/30/18 09:53	NA	
Color, True	SM 2120 B-2001(2011)	36.0	ColorUnits	1.0	1	08/16/18 15:30	NA	*
Nitrate+Nitrite as Nitrogen	353.2	0.0290	mg/L	0.0020	1	08/29/18 19:30	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.29	mg/L	0.10	1	08/31/18 13:34	08/30/18	
pH of Color Analysis	SM 2120 B-2001(2011)	6.90	pH Units	-	1	08/21/18 15:00	NA	*
Phosphorus, Total	365.1	0.0208	mg/L	0.0050	1	08/29/18 12:45	08/28/18	
Sulfate	300.0	6.4	mg/L	2.0	10	08/29/18 22:19	NA	
UV254	SM 5910 B	0.110	cm-1	-	1	08/15/18 09:30	NA	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water  
  
**Sample Name:** 18LHB204 Diss  
**Lab Code:** R1807761-006

**Service Request:** R1807761  
**Date Collected:** 08/14/18 08:15  
**Date Received:** 08/15/18 09:30  
  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	3.1	mg/L	1.0	1	08/19/18 10:36	NA	
Phosphorus, Dissolved	365.1	0.0080	mg/L	0.0050	1	08/27/18 16:03	08/23/18	



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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water  
**Sample Name:** 18LHB227  
**Lab Code:** R1807761-007

**Service Request:** R1807761  
**Date Collected:** 08/14/18 11:20  
**Date Received:** 08/15/18 09:30  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	11.6	mg/L	2.0	1	08/27/18 16:44	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0417	mg/L	0.0050	1	08/30/18 10:09	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	7.4	mg/L	1.0	1	08/19/18 20:42	NA	
Chlorophyll A	SM20 10200 H	41.2	ug/L	1.6	10	08/29/18 11:45	NA	
Color, True	SM 2120 B-2001(2011)	95.0	ColorUnits	5.0	5	08/15/18 11:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0115	mg/L	0.0020	1	08/29/18 19:31	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.57	mg/L	0.10	1	08/31/18 13:35	08/30/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.14	pH Units	-	5	08/21/18 15:00	NA	*
Phosphorus, Total	365.1	0.0210	mg/L	0.0050	1	08/29/18 12:46	08/28/18	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water  
**Sample Name:** 18LHB227 Diss  
**Lab Code:** R1807761-008

**Service Request:** R1807761  
**Date Collected:** 08/14/18 11:20  
**Date Received:** 08/15/18 09:30  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0057	mg/L	0.0050	1	08/27/18 16:04	08/23/18	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water  
  
**Sample Name:** 18LHB298  
**Lab Code:** R1807761-009

**Service Request:** R1807761  
**Date Collected:** 08/14/18 08:15  
**Date Received:** 08/15/18 09:30  
  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0635	mg/L	0.0050	1	08/30/18 10:25	NA	
Color, True	SM 2120 B-2001(2011)	37.0	ColorUnits	1.0	1	08/15/18 11:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0287	mg/L	0.0020	1	08/29/18 19:33	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.36	mg/L	0.10	1	08/31/18 13:36	08/30/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.11	pH Units	-	1	08/21/18 15:00	NA	*
Phosphorus, Total	365.1	0.0156	mg/L	0.0050	1	08/29/18 12:47	08/28/18	
Sulfate	300.0	6.6	mg/L	2.0	10	08/29/18 22:25	NA	
UV254	SM 5910 B	0.103	cm-1	-	1	08/15/18 09:30	NA	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water  
**Sample Name:** 18LHB298 Diss  
**Lab Code:** R1807761-010

**Service Request:** R1807761  
**Date Collected:** 08/14/18 08:15  
**Date Received:** 08/15/18 09:30  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	3.2	mg/L	1.0	1	08/19/18 10:57	NA	
Phosphorus, Dissolved	365.1	0.0090	mg/L	0.0050	1	08/27/18 16:05	08/23/18	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water  
  
**Sample Name:** 18LHB225  
**Lab Code:** R1807761-011

**Service Request:** R1807761  
**Date Collected:** 08/14/18 14:40  
**Date Received:** 08/15/18 09:30  
  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO <sub>3</sub>	SM 2320 B-1997(2011)	70.4	mg/L	2.0	1	08/27/18 16:49	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0650	mg/L	0.0050	1	08/30/18 11:13	NA	
Chlorophyll A	SM20 10200 H	4.61	ug/L	0.16	1	08/29/18 11:45	NA	
Color, True	SM 2120 B-2001(2011)	75.0	ColorUnits	5.0	5	08/15/18 11:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.457	mg/L	0.0020	1	08/29/18 19:34	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.59	mg/L	0.10	1	08/31/18 13:37	08/30/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.92	pH Units	-	5	08/21/18 15:00	NA	*
Phosphorus, Total	365.1	0.0536	mg/L	0.0050	1	08/29/18 12:48	08/28/18	
Sulfate	300.0	14.1	mg/L	2.0	10	08/29/18 22:30	NA	
UV254	SM 5910 B	0.289	cm-1	-	1	08/15/18 09:30	NA	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water  
  
**Sample Name:** 18LHB225 Diss  
**Lab Code:** R1807761-012

**Service Request:** R1807761  
**Date Collected:** 08/14/18 14:40  
**Date Received:** 08/15/18 09:30  
  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	7.8	mg/L	1.0	1	08/19/18 11:18	NA	
Phosphorus, Dissolved	365.1	0.0376	mg/L	0.0050	1	08/27/18 16:06	08/23/18	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water  
  
**Sample Name:** 18LHB243  
**Lab Code:** R1807761-013

**Service Request:** R1807761  
**Date Collected:** 08/14/18  
**Date Received:** 08/15/18 09:30  
  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO <sub>3</sub>	SM 2320 B-1997(2011)	60.0	mg/L	2.0	1	08/27/18 17:02	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0099	mg/L	0.0050	1	08/30/18 11:29	NA	
Chlorophyll A	SM20 10200 H	25.0	ug/L	0.80	10	08/29/18 11:45	NA	
Color, True	SM 2120 B-2001(2011)	32.0	ColorUnits	1.0	1	08/15/18 11:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	08/29/18 19:36	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.45	mg/L	0.10	1	08/31/18 13:37	08/30/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.89	pH Units	-	1	08/21/18 15:00	NA	
Phosphorus, Total	365.1	0.0171	mg/L	0.0050	1	08/29/18 12:49	08/28/18	
Sulfate	300.0	5.2	mg/L	2.0	10	08/29/18 22:35	NA	
UV254	SM 5910 B	0.183	cm-1	-	1	08/15/18 09:30	NA	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water  
**Sample Name:** 18LHB243 Diss  
**Lab Code:** R1807761-014

**Service Request:** R1807761  
**Date Collected:** 08/14/18  
**Date Received:** 08/15/18 09:30  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	6.6	mg/L	1.0	1	08/19/18 11:39	NA	
Phosphorus, Dissolved	365.1	0.0056	mg/L	0.0050	1	08/27/18 16:09	08/23/18	



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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water  
  
**Sample Name:** 18LHB244  
**Lab Code:** R1807761-015

**Service Request:** R1807761  
**Date Collected:** 08/14/18  
**Date Received:** 08/15/18 09:30  
  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.151	mg/L	0.0050	1	08/30/18 11:45	NA	
Color, True	SM 2120 B-2001(2011)	130	ColorUnits	10	10	08/15/18 11:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0166	mg/L	0.0020	1	08/29/18 19:37	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.78	mg/L	0.10	1	08/31/18 13:38	08/30/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.99	pH Units	-	10	08/21/18 15:00	NA	
Phosphorus, Total	365.1	0.099	mg/L	0.025	5	08/29/18 12:51	08/28/18	
Sulfate	300.0	2.6	mg/L	2.0	10	08/29/18 23:11	NA	
UV254	SM 5910 B	0.401	cm-1	-	1	08/15/18 09:30	NA	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water  
**Sample Name:** 18LHB244 Diss  
**Lab Code:** R1807761-016

**Service Request:** R1807761  
**Date Collected:** 08/14/18  
**Date Received:** 08/15/18 09:30  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	6.7	mg/L	1.0	1	08/19/18 12:00	NA	
Phosphorus, Dissolved	365.1	0.0559	mg/L	0.0050	1	08/27/18 16:11	08/23/18	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water  
  
**Sample Name:** 18LHB241  
**Lab Code:** R1807761-017

**Service Request:** R1807761  
**Date Collected:** 08/14/18 12:55  
**Date Received:** 08/15/18 09:30  
  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	86.8	mg/L	2.0	1	08/27/18 18:31	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0853	mg/L	0.0050	1	08/30/18 12:02	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.0	mg/L	1.0	1	08/19/18 22:26	NA	
Chlorophyll A	SM20 10200 H	71.1	ug/L	3.2	20	08/29/18 11:45	NA	
Color, True	SM 2120 B-2001(2011)	36.0	ColorUnits	1.0	1	08/15/18 11:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0120	mg/L	0.0020	1	08/30/18 17:15	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	1.75	mg/L	0.10	1	08/31/18 13:39	08/30/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.80	pH Units	-	1	08/21/18 15:00	NA	*
Phosphorus, Total	365.1	0.0700	mg/L	0.0050	1	08/29/18 12:52	08/28/18	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water  
  
**Sample Name:** 18LHB241 Diss  
**Lab Code:** R1807761-018

**Service Request:** R1807761  
**Date Collected:** 08/14/18 12:55  
**Date Received:** 08/15/18 09:30  
  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0097	mg/L	0.0050	1	08/27/18 16:12	08/23/18	



## QC Summary Forms

**ALS Environmental—Rochester Laboratory**

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## Metals

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METALS

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BLANKS

Contract: R1807761

Lab Code: Case No.: SAS No.: SDG NO.: LCI0813

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

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

Comments:

METALS  
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BLANKS

Contract: R1807761

Lab Code: Case No.: SAS No.: SDG NO.: LCI0813

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L, ppt, or mg/kg): UG/L

Analyte	Initial Calib. Blank ug/L		Continuing Calibration Blank ug/L									Preparation Blank		M
	C		1	C	2	C	3	C				C		
Arsenic			0.39	U	0.39	U	0.39	U						MS
Iron			13.00	U	13.00	U	13.00	U						P
Manganese			1.70	U	1.70	U	1.70	U						P

Comments:



METALS

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LABORATORY CONTROL SAMPLE

Contract: R1807761

Lab Code: Case No.: SAS No.: SDG NO.: LCI0813

Solid LCS Source:

Aqueous LCS Source: ACCUSTANDARD

Analyte	Aqueous (ug/L			Solid (mg/K					
	True	Found	%R	True	Found	C	Limits	%R	
Arsenic	20.0	21.0	105						
Iron	1000	997	100						
Manganese	500	523	105						

Comments:



## General Chemistry

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water  
  
**Sample Name:** Method Blank  
**Lab Code:** R1807761-MB1

**Service Request:** R1807761  
**Date Collected:** NA  
**Date Received:** NA  
  
**Basis:** NA

**Inorganic Parameters**

<b>Analyte Name</b>	<b>Analysis Method</b>	<b>Result</b>	<b>Units</b>	<b>MRL</b>	<b>Dil.</b>	<b>Date Analyzed</b>	<b>Date Extracted</b>	<b>Q</b>
Alkalinity, Total as CaCO <sub>3</sub>	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	08/27/18 16:01	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	08/30/18 07:28	NA	
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	08/19/18 04:21	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	08/19/18 16:52	NA	
Chlorophyll A	SM20 10200 H	0.40 U	ug/L	0.40	1	08/29/18 11:45	NA	
Color, True	SM 2120 B-2001(2011)	<b>1.0</b>	ColorUnits	1.0	1	08/15/18 11:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	08/29/18 19:07	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10 U	mg/L	0.10	1	08/31/18 13:26	08/30/18	
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	08/27/18 15:50	08/23/18	
Phosphorus, Total	365.1	0.0050 U	mg/L	0.0050	1	08/29/18 12:01	08/28/18	
Sulfate	300.0	0.20 U	mg/L	0.20	1	08/29/18 20:41	NA	
UV254	SM 5910 B	<b>0.00200</b>	cm-1	-	1	08/15/18 09:30	NA	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** R1807761-MB2

**Service Request:** R1807761  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	08/27/18 17:50	NA	
Color, True	SM 2120 B-2001(2011)	1.0	ColorUnits	1.0	1	08/16/18 15:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	08/30/18 16:50	NA	
Phosphorus, Total	365.1	0.0050 U	mg/L	0.0050	1	08/29/18 12:36	08/28/18	
Sulfate	300.0	0.20 U	mg/L	0.20	1	08/29/18 22:45	NA	

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QA/QC Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water

**Service Request:**R1807761  
**Date Collected:**08/13/18  
**Date Received:**08/15/18  
**Date Analyzed:**08/19/18 - 08/29/18

**Duplicate Matrix Spike Summary**  
**General Chemistry Parameters**

**Sample Name:** 18LHB239 **Units:**mg/L  
**Lab Code:** R1807761-001 **Basis:**NA

**Matrix Spike**  
R1807761-001MS

**Duplicate Matrix Spike**  
R1807761-001DMS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Nitrate+Nitrite as Nitrogen	353.2	0.0061	0.469	0.500	93	0.469	0.500	93	75-125	<1	20
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	8.0	19.7	10.0	117	20.3	10.0	123	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.

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QA/QC Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water

**Service Request:**R1807761  
**Date Collected:**08/14/18  
**Date Received:**08/15/18  
**Date Analyzed:**8/29/18

**Duplicate Matrix Spike Summary**  
**General Chemistry Parameters**

**Sample Name:** 18LHB203 **Units:**mg/L  
**Lab Code:** R1807761-003 **Basis:**NA

Matrix Spike R1807761-003MS						Duplicate Matrix Spike R1807761-003DMS					
Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Sulfate	300.0	6.1	24.3	20.0	91	24.7	20.0	93	75-125	1	20
Phosphorus, Total	365.1	0.0093	0.0307	0.0250	85	0.0309	0.0250	87	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.

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QA/QC Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water

**Service Request:** R1807761  
**Date Collected:** 08/14/18  
**Date Received:** 08/15/18  
**Date Analyzed:** 08/19/18

**Duplicate Matrix Spike Summary**  
**Carbon, Total Organic (TOC)**

**Sample Name:** 18LHB227  
**Lab Code:** R1807761-007  
**Analysis Method:** SM 5310 C-2000(2011)

**Units:** mg/L  
**Basis:** NA

Analyte Name	Sample Result	Matrix Spike R1807761-007MS			Duplicate Matrix Spike R1807761-007DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Carbon, Total Organic (TOC)	7.4	18.1	10.0	107	18.4	10.0	110	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.

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QA/QC Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water

**Service Request:**R1807761  
**Date Collected:**08/14/18  
**Date Received:**08/15/18  
**Date Analyzed:**08/19/18 - 08/31/18

**Duplicate Matrix Spike Summary**  
**General Chemistry Parameters**

**Sample Name:** 18LHB241 **Units:**mg/L  
**Lab Code:** R1807761-017 **Basis:**NA

**Matrix Spike**  
R1807761-017MS

**Duplicate Matrix Spike**  
R1807761-017DMS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Nitrate+Nitrite as Nitrogen	353.2	0.0120	0.457	0.500	89	0.473	0.500	92	75-125	3	20
Nitrogen, Total Kjeldahl (TKN)	351.2	1.75	4.02	2.50	91	3.98	2.50	89	75-125	1	20
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.0	21.9	10.0	119	21.7	10.0	117	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.



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QA/QC Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water

**Service Request:** R1807761  
**Date Collected:** 08/14/18  
**Date Received:** 08/15/18  
**Date Analyzed:** 08/27/18  
**Date Extracted:** 08/23/18

**Duplicate Matrix Spike Summary**  
**Phosphorus, Dissolved**

**Sample Name:** 18LHB241 Diss  
**Lab Code:** R1807761-018  
**Analysis Method:** 365.1  
**Prep Method:** Method

**Units:** mg/L  
**Basis:** NA

Analyte Name	Sample Result	Result	Matrix Spike		Duplicate Matrix Spike		% Rec	Limits	RPD	RPD Limit
			Spike Amount	% Rec	Result	Spike Amount	% Rec			
Phosphorus, Dissolved	0.0097	0.0317	0.0250	88	0.0317	0.0250	88	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.

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## QA/QC Report

**Client:** New York State DEC  
**Project** LCI/LCI2018  
**Sample Matrix:** Water

**Service Request:** R1807761**Date Collected:** 08/14/18**Date Received:** 08/15/18**Date Analyzed:** 08/15/18

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** 18LHB204  
**Lab Code:** R1807761-005

**Units:** cm-1**Basis:** NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
				R1807761-005DUP Result			
UV254	SM 5910 B	-	0.110	0.110	0.110	<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.

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QA/QC Report

**Client:** New York State DEC  
**Project** LCI/LCI2018  
**Sample Matrix:** Water

**Service Request:** R1807761**Date Collected:** 08/14/18**Date Received:** 08/15/18**Date Analyzed:** 08/15/18

**Replicate Sample Summary**  
**General Chemistry Parameters**

**Sample Name:** 18LHB225  
**Lab Code:** R1807761-011

**Units:** cm-1**Basis:** NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
				R1807761-011DUP Result			
UV254	SM 5910 B	-	0.289	0.282	0.285	2	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.

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QA/QC Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water

**Service Request:** R1807761  
**Date Analyzed:** 08/19/18 - 08/31/18

**Lab Control Sample Summary**  
**General Chemistry Parameters**

**Units:**mg/L  
**Basis:**NA

**Lab Control Sample**  
R1807761-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO <sub>3</sub>	SM 2320 B-1997(2011)	19.2	20.0	96	70-130
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.505	0.500	101	70-130
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	10.2	10.0	102	70-130
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.6	10.0	106	70-130
Nitrate+Nitrite as Nitrogen	353.2	0.519	0.500	104	70-130
Nitrogen, Total Kjeldahl (TKN)	351.2	2.34	2.50	94	70-130
Phosphorus, Dissolved	365.1	0.0233	0.0250	93	70-130
Phosphorus, Total	365.1	0.0224	0.0250	90	70-130
Sulfate	300.0	1.93	2.00	96	70-130

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QA/QC Report

**Client:** New York State DEC  
**Project:** LCI/LCI2018  
**Sample Matrix:** Water

**Service Request:** R1807761  
**Date Analyzed:** 08/27/18 - 08/30/18

**Lab Control Sample Summary**  
**General Chemistry Parameters**

**Units:**mg/L  
**Basis:**NA

**Lab Control Sample**  
R1807761-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	19.2	20.0	96	70-130
Nitrate+Nitrite as Nitrogen	353.2	0.519	0.500	104	70-130
Phosphorus, Total	365.1	0.0233	0.0250	93	70-130
Sulfate	300.0	1.91	2.00	96	70-130