August 07, 2018 Service Request No:R1806659

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 July 17, 2018
For your reference, these analyses have been assigned our service request number **R1806659.**

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

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

ALS Environmental

Client: New York State DEC
Project: LCI 2018
Sample Matrix: Water

Service Request: R1806659
Date Received: 07/17/2018

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:

Twenty four water samples were received for analysis at ALS Environmental on 07/17/2018. 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:

Method 351.2, 07/25/2018: The Method Blank contained a low level of one or more analytes at concentrations above the Method Reporting Limit (MRL), but less than ten times the concentration in the associated samples. Contamination is deemed insignificant relative to the reported samples and the data is reported with no further corrective action required.

Approved by _____ Date 08/07/2018

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

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1806659-001	18LHB111	7/16/2018	1255
R1806659-002	18LHB111 Diss	7/16/2018	1255
R1806659-003	18LHB112	7/16/2018	1310
R1806659-004	18LHB112 Diss	7/16/2018	1310
R1806659-005	18LHB119	7/16/2018	1044
R1806659-006	18LHB119 Diss	7/16/2018	1044
R1806659-007	18LHB120	7/16/2018	1054
R1806659-008	18LHB120 Diss	7/16/2018	1054
R1806659-009	18LHB133	7/16/2018	0800
R1806659-010	18LHB133 Diss	7/16/2018	0800
R1806659-011	18LHB134	7/16/2018	0815
R1806659-012	18LHB134 Diss	7/16/2018	0815
R1806659-013	18LHB109	7/16/2018	0950
R1806659-014	18LHB109 Diss	7/16/2018	0950
R1806659-015	18LHB110	7/16/2018	0955
R1806659-016	18LHB110 Diss	7/16/2018	0955
R1806659-017	18LHB117	7/16/2018	1215
R1806659-018	18LHB117 Diss	7/16/2018	1215
R1806659-019	18LHB118	7/16/2018	1220
R1806659-020	18LHB118 Diss	7/16/2018	1220
R1806659-021	18LHB005	7/16/2018	1350
R1806659-022	18LHB005 Diss	7/16/2018	1350
R1806659-023	18LHB123	7/16/2018	1444
R1806659-024	18LHB123 Diss	7/16/2018	1444

CHAIN OF CUSTODY

New York State Department of Environmental Conservation – Division of Water

Project Name: LCI	**Project Number:** LCI2018	**NYSDEC SDG:**
Sampler Collector:	**Sampler Signature:**	**Sampler Phone No.:**
Project Manager: Alene Onion	**X Report to Project Manager** **Report to:**	☐ **Bill to Project Manager** **Bill to:** Jason Fagel
Address: 625 Broadway, 4th Floor Albany, NY 12233-3502	**Address:**	**Address:** 625 Broadway, 4th 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 _____

Preservative Codes:
0 = Cool to < 6°C
1 = HCL
2 = HNO_3
3 = H_2SO_4
4 = NaOH
5 = Zn. Acetate
6 = MeOH
7 = NaHSO4
8 = Other_____

Analyses Ordered (list)

NYSDEC LCI Sample ID	Collection Date	Collection Time	Matrix Code	No. of Containers	3: TP, NH4, NOx, TKN	3: ANC TP, NH4, NOx, TKN, NO3	3: Dissolved TOP4	2: Fe, Mn, As,	2: ANC Ca, Mg, Na, K	2: Fe, Mn, As, Ca, Mg, Na, K	0: Color	3: TOC	3: ANC DOC	0: Alkalinity	0: SO4 & UV-254	0: ANC SO4, Cl	0: SO4, Cl, UV-254	0: Chlorophyll a | Vol (ml)	Location Info
18LHB111	7/16/18	12:55	AW	7	X		X				X		X	X	X			✓ 250mL	Coxsackie Res - LHR epi
18LHB112	7/16/18	13:10	AW	6	X		X	X			X		X	X	X				Coxsackie Res - hypo
18LHB119	7/16/18	10:44	AW	7	X		X				X		X	X	X			✓ 250mL	Hollister Lake - epi
18LHB120	7/16/18	10:54	AW	6	X		X	X			X		X	X	X				Hollister Lake - hypo
18LHB133	7/16/18	08:00	AW	7	X		X				X		X	X	X			✓ 500mL	Troy Res - epi
18LHB134	7/16/18	08:15	AW	6	X		X	X			X		X	X	X				Troy Res - hypo

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Special Analysis Instructions: Class IA - UV254 Samples

	Date:	Time:		Date:	Time:
Relinquished by Sampler: Stephanie June	7/16/18	14:59	**Received by:**	7/16/18	14:59
Relinquished by:	7/16/18	1600	**Received by:**	Date:	Time:
Relinquished by:	Date:	Time:	**Received by Laboratory:**	7/17/18	0850

Laboratory Receipt Notes:

Sample Temp.: _____°C
Properly Preserved: Y / N
Samples Intact: Y / N

Cooler Receipt and Preservation Check Form

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New York State DEC
LCI 2018

Project/Client LCI Folder Number

Cooler received on 7/17/18 by: @ COURIER: ALS UPS (FEDEX) VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y) N	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk, or Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (Wet Ice) **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 7/17/18 Time: 0855 ID: (IR#7) IR#9 From: Temp Blank (Sample Bottle)

Observed Temp (°C)	3.1						
Correction Factor (°C)	–						
Corrected Temp (°C)	3.1						
Temp from:Type of bottle	–						
Within 0-6°C?	(Y) 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: R-002 by @ on 7/17/18 at 0900
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 7/17/18 Time: 1355 by: dm

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? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2	204578	HNO_3	✓		1117092	7/19				
≤2	↓	H_2SO_4	✓		190642	6/19				
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**						

Bottle lot numbers: 8-072-cal, 120417-ZAAW
Explain all Discrepancies/ Other Comments:

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

Labels secondary reviewed by: dl
PC Secondary Review: JMS 7/17/18 *significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

CHAIN OF CUSTODY

New York State Department of Environmental Conservation – Division of Water

Project Name: LCI	**Project Number:** LCI2018	**NYSDEC SDG:**
Sampler Collector: Sara Gonzalez	**Sampler Signature:**	**Sampler Phone No.:** 845-216-9575
Project Manager: Alene Onion	**X Report to Project Manager** **Report to:**	**☐ Bill to Project Manager** **Bill to:** Jason Fagel
Address: 625 Broadway, 4th Floor Albany, NY 12233-3502	**Address:**	**Address:** 625 Broadway, 4th 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 _____

Preservative Codes:
0 = Cool to < 6°C
1 = HCL
2 = HNO_3
3 = H_2SO_4
4 = NaOH
5 = Zn. Acetate
6 = MeOH
7 = NaHSO4
8 = Other_____

Analyses Ordered (list)

NYSDEC LCI Sample ID	Collection Date	Collection Time	Matrix Code	No. of Containers	3 / TP, NH4, NOx, TKN	3 / ANC TP, NH4, NOx, TKN, NO3	3 / Dissolved TOP4	2 / Fe, Mn, As,	2 / ANC Ca, Mg, Na, K	2 / Fe, Mn, As, Ca, Mg, Na, K	0 / Color	3 / TOC	3 / ANC DOC	0 / Alkalinity	0 / SO4 & UV-254	0 / ANC SO4, Cl	0 / SO4, Cl, UV-254	0 / Chlorophyll a | Vol (ml)		Location Info	
18LHB 109	07/16	9:50	AW	7	X		X				X		X	X	X			X	150	Chodikeel, epi	A
18LHB 110	07/16	9:55	AW	6	X		X	X			X		X		X					Chodikeel, hypo	A
18LHB 117	07/16	12:15	AW	7	X		X				X		X	X	X			X	250	Goshen R, epi	A
18LHB 118	07/16	12:20	AW	6	X		X	X			X		X		X					Goshen R, hypo	A
18LHB005	07/16	13:50	AW	6	X		X				X	X		X				X	250	Binnewater, epi	B
18LHB 123	07/16	14:49	AW	8	X		X	X			X		X	X	X			X	260	Mill Pond, epi	A
~~18LHB 129~~	~~07/16~~		~~AW~~	~~6~~	X		X				X	X		X				X		~~Winding Hills, epi~~	B

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Special Analysis Instructions:

Relinquished by Sampler: Jesse Koltz	**Date:** 7/16/18	**Time:** 4:00pm	**Received by:**	**Date:**	**Time:**	**Laboratory Receipt Notes:**
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**	**Sample Temp.:** _____°C
Relinquished by:	**Date:**	**Time:**	**Received by Laboratory:** Stephen Cymbol	**Date:** 7/17/18	**Time:** 0945	**Properly Preserved:** Y / N **Samples Intact:** Y / N

Cooler Receipt and Preservation Check Form

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New York State DEC
LCI 2018

Project/Client_____ Folder Number_____

Cooler received on 7/17/18 by: SC

COURIER: ALS (UPS) FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	(Y) N	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y (N) NA
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	(ALS/ROC) CLIENT
4	Circle: (Wet Ice) **Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	(NA)

8. Temperature Readings Date: 7/17/18 Time: 0950 ID: (IR#7) IR#9 From (Temp Blank) Sample Bottle

Observed Temp (°C)	3.1						
Correction Factor (°C)	+1.0						
Corrected Temp (°C)	4.1						
Temp from:Type of bottle	Cooler						
Within 0-6°C?	(Y) 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: ROC by SC on 7/18/18 at 0955
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? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH								
≤2		HNO_3								
≤2		H_2SO_4								
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		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: * See 1st temp sheet.

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

Miscellaneous Forms

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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 ñNotesò 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 ñimmediateò 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 (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: 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[1]

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

[1] Analyses were performed according to our laboratoryôs 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

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:** R1806659
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

Client: New York State DEC **Service Request:** R1806659
Project: LCI 2018/LCI2018

Sample Name: 18LHB111 **Date Collected:** 07/16/18
Lab Code: R1806659-001 **Date Received:** 07/17/18
Sample Matrix: Water

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

Sample Name: 18LHB111 Diss **Date Collected:** 07/16/18
Lab Code: R1806659-002 **Date Received:** 07/17/18
Sample Matrix: Water

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

Sample Name: 18LHB112 **Date Collected:** 07/16/18
Lab Code: R1806659-003 **Date Received:** 07/17/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		AMOSES
351.2	NSMITH	CWOODS
353.2		NMANSEN
365.1	KMENGS	NMANSEN
ASTM D6919-09		AMOSES
SM 2120 B-2001(2011)		SCYMBAL
SM 5910 B		NMANSEN

Client: New York State DEC **Service Request:** R1806659
Project: LCI 2018/LCI2018

Sample Name: 18LHB112 Diss **Date Collected:** 07/16/18
Lab Code: R1806659-004 **Date Received:** 07/17/18
Sample Matrix: Water

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

Sample Name: 18LHB119 **Date Collected:** 07/16/18
Lab Code: R1806659-005 **Date Received:** 07/17/18
Sample Matrix: Water

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

Sample Name: 18LHB119 Diss **Date Collected:** 07/16/18
Lab Code: R1806659-006 **Date Received:** 07/17/18
Sample Matrix: Water

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

Client: New York State DEC **Service Request:** R1806659
Project: LCI 2018/LCI2018

Sample Name: 18LHB120 **Date Collected:** 07/16/18
Lab Code: R1806659-007 **Date Received:** 07/17/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		AMOSES
351.2	NSMITH	CWOODS
353.2		NMANSEN
365.1	KMENGS	NMANSEN
ASTM D6919-09		AMOSES
SM 2120 B-2001(2011)		SCYMBAL
SM 5910 B		NMANSEN

Sample Name: 18LHB120 Diss **Date Collected:** 07/16/18
Lab Code: R1806659-008 **Date Received:** 07/17/18
Sample Matrix: Water

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

Sample Name: 18LHB133 **Date Collected:** 07/16/18
Lab Code: R1806659-009 **Date Received:** 07/17/18
Sample Matrix: Water

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

Client: New York State DEC **Service Request:** R1806659
Project: LCI 2018/LCI2018

Sample Name: 18LHB133 Diss **Date Collected:** 07/16/18
Lab Code: R1806659-010 **Date Received:** 07/17/18
Sample Matrix: Water

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

Sample Name: 18LHB134 **Date Collected:** 07/16/18
Lab Code: R1806659-011 **Date Received:** 07/17/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		AMOSES
351.2	NSMITH	CWOODS
353.2		NMANSEN
365.1	KMENGS	NMANSEN
ASTM D6919-09		AMOSES
SM 2120 B-2001(2011)		SCYMBAL
SM 5910 B		NMANSEN

Sample Name: 18LHB134 Diss **Date Collected:** 07/16/18
Lab Code: R1806659-012 **Date Received:** 07/17/18
Sample Matrix: Water

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

Sample Name: 18LHB109 **Date Collected:** 07/16/18
Lab Code: R1806659-013 **Date Received:** 07/17/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		AMOSES
351.2	NSMITH	CWOODS

Client: New York State DEC **Service Request:** R1806659
Project: LCI 2018/LCI2018

Sample Name: 18LHB109 **Date Collected:** 07/16/18
Lab Code: R1806659-013 **Date Received:** 07/17/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
353.2		NMANSEN
365.1	KMENGS	NMANSEN
ASTM D6919-09		AMOSES
SM 2120 B-2001(2011)		SCYMBAL
SM 2320 B-1997(2011)		CWOODS
SM 5910 B		NMANSEN
SM20 10200 H		NSMITH

Sample Name: 18LHB109 Diss **Date Collected:** 07/16/18
Lab Code: R1806659-014 **Date Received:** 07/17/18
Sample Matrix: Water

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

Sample Name: 18LHB110 **Date Collected:** 07/16/18
Lab Code: R1806659-015 **Date Received:** 07/17/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		AMOSES
351.2	NSMITH	CWOODS
353.2		NMANSEN
365.1	KMENGS	NMANSEN
ASTM D6919-09		AMOSES
SM 2120 B-2001(2011)		SCYMBAL
SM 5910 B		NMANSEN

Client: New York State DEC **Service Request:** R1806659
Project: LCI 2018/LCI2018

Sample Name: 18LHB110 Diss **Date Collected:** 07/16/18
Lab Code: R1806659-016 **Date Received:** 07/17/18
Sample Matrix: Water

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

Sample Name: 18LHB117 **Date Collected:** 07/16/18
Lab Code: R1806659-017 **Date Received:** 07/17/18
Sample Matrix: Water

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

Sample Name: 18LHB117 Diss **Date Collected:** 07/16/18
Lab Code: R1806659-018 **Date Received:** 07/17/18
Sample Matrix: Water

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

Client: New York State DEC **Service Request:** R1806659
Project: LCI 2018/LCI2018

Sample Name: 18LHB118 **Date Collected:** 07/16/18
Lab Code: R1806659-019 **Date Received:** 07/17/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
300.0		AMOSES
351.2	NSMITH	CWOODS
353.2		NMANSEN
365.1	KMENGS	NMANSEN
ASTM D6919-09		AMOSES
SM 2120 B-2001(2011)		SCYMBAL
SM 5910 B		NMANSEN

Sample Name: 18LHB118 Diss **Date Collected:** 07/16/18
Lab Code: R1806659-020 **Date Received:** 07/17/18
Sample Matrix: Water

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

Sample Name: 18LHB005 **Date Collected:** 07/16/18
Lab Code: R1806659-021 **Date Received:** 07/17/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
351.2	NSMITH	CWOODS
353.2		NMANSEN
365.1	KMENGS	NMANSEN
ASTM D6919-09		AMOSES
SM 2120 B-2001(2011)		SCYMBAL
SM 2320 B-1997(2011)		CWOODS
SM 5310 C-2000(2011)		CWOODS

Client: New York State DEC **Service Request:** R1806659
Project: LCI 2018/LCI2018

Sample Name: 18LHB005 Diss **Date Collected:** 07/16/18
Lab Code: R1806659-022 **Date Received:** 07/17/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
365.1	KMENGS	NMANSEN

Sample Name: 18LHB123 **Date Collected:** 07/16/18
Lab Code: R1806659-023 **Date Received:** 07/17/18
Sample Matrix: Water

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

Sample Name: 18LHB123 Diss **Date Collected:** 07/16/18
Lab Code: R1806659-024 **Date Received:** 07/17/18
Sample Matrix: Water

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

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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Metals

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METALS

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INORGANIC ANALYSIS DATA PACKAGE

Client:	New York State DEC	**Service Request:**	LCI0716
Project No.:	R1806659	**Date Collected:**	7/16/2018
Project Name:		**Date Received:**	7/17/2018
Matrix:	WATER	**Units:**	ug/L
		Basis:	

Sample Name: **18LHB112** **Lab Code:** **R1806659-003**

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	**200.8**	**1.0**	**0.39**	**1.0**	**0.59**	**J**	
Iron	**200.7**	**100**	**13.0**	**1.0**	**484**		
Manganese	**200.7**	**10.0**	**1.7**	**1.0**	**2050**		

% Solids: **0.0**

Comments:

METALS

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INORGANIC ANALYSIS DATA PACKAGE

Client:	New York State DEC	**Service Request:**	LCI0716
Project No.:	R1806659	**Date Collected:**	7/16/2018
Project Name:		**Date Received:**	7/17/2018
Matrix:	WATER	**Units:**	ug/L
		Basis:	

Sample Name: **18LHB120** **Lab Code:** **R1806659-007**

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	**200.8**	**1.0**	**0.39**	**1.0**	**0.62**	**J**	
Iron	**200.7**	**100**	**13.0**	**1.0**	**180**		
Manganese	**200.7**	**10.0**	**1.7**	**1.0**	**2200**		

% Solids: **0.0**

Comments:

METALS

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INORGANIC ANALYSIS DATA PACKAGE

Client:	New York State DEC	**Service Request:**	LCI0716
Project No.:	R1806659	**Date Collected:**	7/16/2018
Project Name:		**Date Received:**	7/17/2018
Matrix:	WATER	**Units:**	ug/L
		Basis:	

Sample Name: **18LHB134** **Lab Code:** **R1806659-011**

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	**200.8**	**1.0**	**0.39**	**1.0**	**0.71**	**J**	
Iron	**200.7**	**100**	**13.0**	**1.0**	**258**		
Manganese	**200.7**	**10.0**	**1.7**	**1.0**	**3020**		

% Solids: **0.0**

Comments:

METALS

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INORGANIC ANALYSIS DATA PACKAGE

Client:	New York State DEC	**Service Request:**	LCI0716
Project No.:	R1806659	**Date Collected:**	7/16/2018
Project Name:		**Date Received:**	7/17/2018
Matrix:	WATER	**Units:**	ug/L
		Basis:	

Sample Name: **18LHB110** **Lab Code:** **R1806659-015**

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	**200.8**	**1.0**	**0.39**	**1.0**	**1.8**		
Iron	**200.7**	**100**	**13.0**	**1.0**	**2660**		
Manganese	**200.7**	**10.0**	**1.7**	**1.0**	**2660**		

% Solids: **0.0**

Comments:

METALS

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client:	New York State DEC	**Service Request:**	LCI0716
Project No.:	R1806659	**Date Collected:**	7/16/2018
Project Name:		**Date Received:**	7/17/2018
Matrix:	WATER	**Units:**	ug/L
		Basis:	

Sample Name: **18LHB118** **Lab Code:** **R1806659-019**

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**	**265**		
Manganese	**200.7**	**10.0**	**1.7**	**1.0**	**218**		

% Solids: **0.0**

Comments:

METALS

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INORGANIC ANALYSIS DATA PACKAGE

Client:	New York State DEC	**Service Request:**	LCI0716
Project No.:	R1806659	**Date Collected:**	7/16/2018
Project Name:		**Date Received:**	7/17/2018
Matrix:	WATER	**Units:**	ug/L
		Basis:	

Sample Name: **18LHB123** **Lab Code:** **R1806659-023**

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	**200.8**	**1.0**	**0.39**	**1.0**	**2.1**		
Iron	**200.7**	**100**	**13.0**	**1.0**	**1250**		
Manganese	**200.7**	**10.0**	**1.7**	**1.0**	**668**		

% Solids: **0.0**

Comments:

General Chemistry

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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www.alsglobal.com

Analytical Report

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18 12:55
Sample Matrix:	Water	**Date Received:**	07/17/18 08:50
Sample Name:	18LHB111	**Basis:**	NA
Lab Code:	R1806659-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**18.4**	mg/L	2.0	1	07/24/18 03:08	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	07/24/18 14:03	NA	
Chlorophyll A	SM20 10200 H	**1.95**	ug/L	0.16	1	07/26/18 12:00	NA	
Color, True	SM 2120 B-2001(2011)	**23.0**	ColorUnits	1.0	1	07/17/18 14:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	07/27/18 17:41	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.40**	mg/L	0.10	1	07/30/18 10:45	07/27/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**7.65**	pH Units	1.0	1	07/17/18 13:20	NA	
Phosphorus, Total	365.1	**0.0097**	mg/L	0.0050	1	07/25/18 19:39	07/20/18	
Sulfate	300.0	**6.6**	mg/L	2.0	10	07/19/18 23:03	NA	
UV254	SM 5910 B	**0.0760**	cm-1	-	1	07/17/18 18:03	NA	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18 12:55
Sample Matrix:	Water	**Date Received:**	07/17/18 08:50
Sample Name:	18LHB111 Diss	**Basis:**	NA
Lab Code:	R1806659-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	**4.7**	mg/L	1.0	1	07/18/18 20:42	NA	
Phosphorus, Dissolved	365.1	**0.0052**	mg/L	0.0050	1	07/25/18 17:54	07/20/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18 13:10
Sample Matrix:	Water	**Date Received:**	07/17/18 08:50
Sample Name:	18LHB112	**Basis:**	NA
Lab Code:	R1806659-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	07/24/18 14:19	NA	
Color, True	SM 2120 B-2001(2011)	**26.0**	ColorUnits	1.0	1	07/17/18 14:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	**0.0031**	mg/L	0.0020	1	07/27/18 17:45	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**1.09**	mg/L	0.10	1	07/30/18 10:46	07/27/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**7.62**	pH Units	1.0	1	07/17/18 13:20	NA	
Phosphorus, Total	365.1	**0.0445**	mg/L	0.0050	1	07/25/18 19:40	07/20/18	
Sulfate	300.0	**5.1**	mg/L	2.0	10	07/19/18 23:20	NA	
UV254	SM 5910 B	**0.0770**	cm-1	-	1	07/17/18 18:03	NA	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18 13:10
Sample Matrix:	Water	**Date Received:**	07/17/18 08:50
Sample Name:	18LHB112 Diss	**Basis:**	NA
Lab Code:	R1806659-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	**4.1**	mg/L	1.0	1	07/18/18 21:03	NA	
Phosphorus, Dissolved	365.1	**0.0087**	mg/L	0.0050	1	07/25/18 17:57	07/20/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18 10:44
Sample Matrix:	Water	**Date Received:**	07/17/18 08:50
Sample Name:	18LHB119	**Basis:**	NA
Lab Code:	R1806659-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**66.0**	mg/L	2.0	1	07/24/18 03:13	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	07/24/18 14:35	NA	
Chlorophyll A	SM20 10200 H	**18.8**	ug/L	0.80	5	07/26/18 12:00	NA	
Color, True	SM 2120 B-2001(2011)	**80.0**	ColorUnits	5.0	5	07/17/18 14:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	07/27/18 17:46	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.87**	mg/L	0.10	1	07/30/18 10:49	07/27/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**7.60**	pH Units	1.0	5	07/17/18 13:20	NA	
Phosphorus, Total	365.1	**0.0369**	mg/L	0.0050	1	07/25/18 19:41	07/20/18	
Sulfate	300.0	**7.1**	mg/L	2.0	10	07/19/18 23:26	NA	
UV254	SM 5910 B	**0.123**	cm-1	-	1	07/17/18 18:03	NA	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18 10:44
Sample Matrix:	Water	**Date Received:**	07/17/18 08:50
Sample Name:	18LHB119 Diss	**Basis:**	NA
Lab Code:	R1806659-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	**5.9**	mg/L	1.0	1	07/18/18 21:24	NA	
Phosphorus, Dissolved	365.1	**0.0099**	mg/L	0.0050	1	07/25/18 17:58	07/20/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18 10:54
Sample Matrix:	Water	**Date Received:**	07/17/18 08:50
Sample Name:	18LHB120	**Basis:**	NA
Lab Code:	R1806659-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	**0.113**	mg/L	0.0050	1	07/24/18 14:51	NA	
Color, True	SM 2120 B-2001(2011)	**33.0**	ColorUnits	1.0	1	07/17/18 14:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	**0.0021**	mg/L	0.0020	1	07/27/18 17:48	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.96**	mg/L	0.10	1	07/30/18 10:50	07/27/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**7.51**	pH Units	1.0	1	07/17/18 13:20	NA	
Phosphorus, Total	365.1	**0.0452**	mg/L	0.0050	1	07/25/18 19:45	07/20/18	
Sulfate	300.0	**6.2**	mg/L	2.0	10	07/19/18 23:32	NA	
UV254	SM 5910 B	**0.0890**	cm-1	-	1	07/17/18 18:03	NA	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18 10:54
Sample Matrix:	Water	**Date Received:**	07/17/18 08:50
Sample Name:	18LHB120 Diss	**Basis:**	NA
Lab Code:	R1806659-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	**4.3**	mg/L	1.0	1	07/18/18 21:45	NA	
Phosphorus, Dissolved	365.1	**0.0094**	mg/L	0.0050	1	07/25/18 17:59	07/20/18	

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18 08:00
Sample Matrix:	Water	**Date Received:**	07/17/18 08:50
Sample Name:	18LHB133	**Basis:**	NA
Lab Code:	R1806659-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**85.2**		mg/L	2.0	1	07/24/18 03:19	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050	U	mg/L	0.0050	1	07/24/18 15:07	NA	
Chlorophyll A	SM20 10200 H	**2.38**		ug/L	0.080	1	07/26/18 12:00	NA	
Color, True	SM 2120 B-2001(2011)	**25.0**		ColorUnits	1.0	1	07/17/18 14:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020	U	mg/L	0.0020	1	07/27/18 17:49	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.40**		mg/L	0.10	1	07/30/18 10:50	07/27/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**7.99**		pH Units	1.0	1	07/17/18 13:20	NA	
Phosphorus, Total	365.1	**0.0141**		mg/L	0.0050	1	07/25/18 19:46	07/20/18	
Sulfate	300.0	**16.9**		mg/L	2.0	10	07/19/18 23:38	NA	
UV254	SM 5910 B	**0.0505**		cm-1	-	1	07/17/18 18:03	NA	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18 08:00
Sample Matrix:	Water	**Date Received:**	07/17/18 08:50
Sample Name:	18LHB133 Diss	**Basis:**	NA
Lab Code:	R1806659-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	**3.7**	mg/L	1.0	1	07/18/18 22:06	NA	
Phosphorus, Dissolved	365.1	**0.0066**	mg/L	0.0050	1	07/25/18 18:01	07/20/18	

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18 08:15
Sample Matrix:	Water	**Date Received:**	07/17/18 08:50
Sample Name:	18LHB134	**Basis:**	NA
Lab Code:	R1806659-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	**0.0159**	mg/L	0.0050	1	07/24/18 16:43	NA	
Color, True	SM 2120 B-2001(2011)	**36.0**	ColorUnits	1.0	1	07/17/18 14:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	**0.0032**	mg/L	0.0020	1	07/27/18 17:50	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.69**	mg/L	0.10	1	07/30/18 10:51	07/27/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**7.58**	pH Units	1.0	1	07/17/18 13:20	NA	
Phosphorus, Total	365.1	**0.0411**	mg/L	0.0050	1	07/25/18 19:49	07/20/18	
Sulfate	300.0	**11.1**	mg/L	2.0	10	07/19/18 23:44	NA	
UV254	SM 5910 B	**0.0630**	cm-1	-	1	07/17/18 18:03	NA	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18 08:15
Sample Matrix:	Water	**Date Received:**	07/17/18 08:50
Sample Name:	18LHB134 Diss	**Basis:**	NA
Lab Code:	R1806659-012		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	**3.7**	mg/L	1.0	1	07/18/18 23:50	NA	
Phosphorus, Dissolved	365.1	**0.0133**	mg/L	0.0050	1	07/25/18 18:02	07/20/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18 09:50
Sample Matrix:	Water	**Date Received:**	07/17/18 08:50
Sample Name:	18LHB109	**Basis:**	NA
Lab Code:	R1806659-013		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**92.4**	mg/L	2.0	1	07/24/18 03:25	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	**0.0085**	mg/L	0.0050	1	07/24/18 17:31	NA	
Chlorophyll A	SM20 10200 H	**71.3**	ug/L	2.7	10	07/26/18 12:00	NA	
Color, True	SM 2120 B-2001(2011)	**120**	ColorUnits	10	10	07/17/18 14:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	**0.0021**	mg/L	0.0020	1	07/27/18 17:52	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**1.23**	mg/L	0.10	1	07/30/18 10:52	07/27/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**8.52**	pH Units	1.0	10	07/17/18 13:20	NA	
Phosphorus, Total	365.1	**0.0396**	mg/L	0.0050	1	07/25/18 19:50	07/20/18	
Sulfate	300.0	**7.1**	mg/L	2.0	10	07/19/18 23:50	NA	
UV254	SM 5910 B	**0.177**	cm-1	-	1	07/17/18 18:03	NA	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18 09:50
Sample Matrix:	Water	**Date Received:**	07/17/18 08:50
Sample Name:	18LHB109 Diss	**Basis:**	NA
Lab Code:	R1806659-014		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	**7.2**	mg/L	1.0	1	07/19/18 00:53	NA	
Phosphorus, Dissolved	365.1	**0.0115**	mg/L	0.0050	1	07/25/18 18:03	07/20/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18 09:55
Sample Matrix:	Water	**Date Received:**	07/17/18 08:50
Sample Name:	18LHB110	**Basis:**	NA
Lab Code:	R1806659-015		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	**1.22**	mg/L	0.0050	1	07/24/18 17:47	NA	
Color, True	SM 2120 B-2001(2011)	**160**	ColorUnits	10	10	07/17/18 14:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	**0.0117**	mg/L	0.0020	1	07/27/18 17:56	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**2.34**	mg/L	0.10	1	07/25/18 15:52	07/24/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**7.44**	pH Units	1.0	10	07/17/18 13:20	NA	
Phosphorus, Total	365.1	**0.49**	mg/L	0.10	20	07/25/18 20:26	07/20/18	
Sulfate	300.0	**4.2**	mg/L	2.0	10	07/19/18 23:56	NA	
UV254	SM 5910 B	**0.243**	cm-1	-	1	07/17/18 18:03	NA	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18 09:55
Sample Matrix:	Water	**Date Received:**	07/17/18 08:50
Sample Name:	18LHB110 Diss	**Basis:**	NA
Lab Code:	R1806659-016		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	**8.8**	mg/L	1.0	1	07/19/18 01:14	NA	
Phosphorus, Dissolved	365.1	**0.197**	mg/L	0.050	10	07/25/18 19:59	07/20/18	

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18 12:15
Sample Matrix:	Water	**Date Received:**	07/17/18 08:50
Sample Name:	18LHB117	**Basis:**	NA
Lab Code:	R1806659-017		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**46.4**	mg/L	2.0	1	07/24/18 03:31	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	07/24/18 18:03	NA	
Chlorophyll A	SM20 10200 H	**16.1**	ug/L	1.6	10	07/26/18 12:00	NA	
Color, True	SM 2120 B-2001(2011)	**140**	ColorUnits	10	10	07/17/18 14:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	**0.0022**	mg/L	0.0020	1	07/27/18 17:57	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.64**	mg/L	0.10	1	07/30/18 10:53	07/27/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**7.86**	pH Units	1.0	10	07/17/18 13:20	NA	
Phosphorus, Total	365.1	**0.0310**	mg/L	0.0050	1	07/25/18 19:52	07/20/18	
Sulfate	300.0	**8.5**	mg/L	2.0	10	07/20/18 00:19	NA	
UV254	SM 5910 B	**0.0790**	cm-1	-	1	07/17/18 18:03	NA	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18 12:15
Sample Matrix:	Water	**Date Received:**	07/17/18 08:50
Sample Name:	18LHB117 Diss	**Basis:**	NA
Lab Code:	R1806659-018		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	**5.2**	mg/L	1.0	1	07/19/18 01:35	NA	
Phosphorus, Dissolved	365.1	**0.0109**	mg/L	0.0050	1	07/25/18 18:09	07/20/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18 12:20
Sample Matrix:	Water	**Date Received:**	07/17/18 08:50
Sample Name:	18LHB118	**Basis:**	NA
Lab Code:	R1806659-019		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Q	Units	MRL	Dil.	Date Analyzed	Date Extracted
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050	U	mg/L	0.0050	1	07/24/18 18:19	NA
Color, True	SM 2120 B-2001(2011)	**150**		ColorUnits	10	10	07/17/18 14:30	NA
Nitrate+Nitrite as Nitrogen	353.2	**0.0065**		mg/L	0.0020	1	07/27/18 17:58	NA
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.58**		mg/L	0.10	1	07/30/18 10:53	07/27/18
pH of Color Analysis	SM 2120 B-2001(2011)	**7.77**		pH Units	1.0	10	07/17/18 13:20	NA
Phosphorus, Total	365.1	**0.0293**		mg/L	0.0050	1	07/25/18 19:53	07/20/18
Sulfate	300.0	**8.6**		mg/L	2.0	10	07/20/18 00:25	NA
UV254	SM 5910 B	**0.0785**		cm-1	-	1	07/17/18 18:03	NA

Analytical Report

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18 12:20
Sample Matrix:	Water	**Date Received:**	07/17/18 08:50
Sample Name:	18LHB118 Diss	**Basis:**	NA
Lab Code:	R1806659-020		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	**4.8**	mg/L	1.0	1	07/19/18 01:56	NA	
Phosphorus, Dissolved	365.1	**0.0087**	mg/L	0.0050	1	07/25/18 18:11	07/20/18	

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18 13:50
Sample Matrix:	Water	**Date Received:**	07/17/18 08:50
Sample Name:	18LHB005	**Basis:**	NA
Lab Code:	R1806659-021		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**23.6**	mg/L	2.0	1	07/24/18 03:44	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	**0.0105**	mg/L	0.0050	1	07/24/18 18:35	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**8.8**	mg/L	1.0	1	07/19/18 02:37	NA	
Color, True	SM 2120 B-2001(2011)	**130**	ColorUnits	10	10	07/17/18 14:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	**0.0030**	mg/L	0.0020	1	07/27/18 18:00	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.80**	mg/L	0.10	1	07/30/18 10:57	07/27/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**7.12**	pH Units	1.0	10	07/17/18 13:20	NA	
Phosphorus, Total	365.1	**0.0913**	mg/L	0.0050	1	07/25/18 19:55	07/20/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18 13:50
Sample Matrix:	Water	**Date Received:**	07/17/18 08:50
Sample Name:	18LHB005 Diss	**Basis:**	NA
Lab Code:	R1806659-022		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	**0.0129**	mg/L	0.0050	1	07/25/18 18:12	07/20/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18 14:44
Sample Matrix:	Water	**Date Received:**	07/17/18 08:50
Sample Name:	18LHB123	**Basis:**	NA
Lab Code:	R1806659-023		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**76.0**	mg/L	2.0	1	07/24/18 03:50	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	**0.0082**	mg/L	0.0050	1	07/24/18 20:12	NA	
Chlorophyll A	SM20 10200 H	**20.8**	ug/L	3.2	20	07/26/18 12:00	NA	
Color, True	SM 2120 B-2001(2011)	**275**	ColorUnits	25	25	07/17/18 14:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	**0.0071**	mg/L	0.0020	1	07/27/18 18:01	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**1.13**	mg/L	0.10	1	07/30/18 13:13	07/27/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**7.74**	pH Units	1.0	25	07/17/18 13:20	NA	
Phosphorus, Total	365.1	**0.0278**	mg/L	0.0050	1	07/25/18 19:58	07/20/18	
Sulfate	300.0	2.0 U	mg/L	2.0	10	07/20/18 00:31	NA	
UV254	SM 5910 B	**0.296**	cm-1	-	1	07/17/18 18:03	NA	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18 14:44
Sample Matrix:	Water	**Date Received:**	07/17/18 08:50
Sample Name:	18LHB123 Diss	**Basis:**	NA
Lab Code:	R1806659-024		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	**9.9**	mg/L	1.0	1	07/19/18 02:17	NA	
Phosphorus, Dissolved	365.1	**0.0215**	mg/L	0.0050	1	07/25/18 18:13	07/20/18	

QC Summary Forms

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Metals

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METALS

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BLANKS

Contract: R1806659

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: LCI0716

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
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: R1806659

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: LCI0716

Preparation Blank Matrix (soil/water): WATER

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

Analyte	Initial Calib. Blank ug/L	C	Continuing Calibration Blank ug/L 1	C	2	C	3	C	Preparation Blank	C	M
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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BLANKS

Contract: R1806659

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: LCI0716

Preparation Blank Matrix (soil/water): WATER

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

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

Comments:

METALS

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BLANKS

Contract: R1806659

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: LCI0716

Preparation Blank Matrix (soil/water): WATER

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

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

Comments:

METALS

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BLANKS

Contract: R1806659

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: LCI0716

Preparation Blank Matrix (soil/water): WATER

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

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

Comments:

METALS

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LABORATORY CONTROL SAMPLE

Contract: R1806659

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG NO.: LCI0716

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	20.8	104					
Iron	1000	1020	102					
Manganese	500	503	101					

Comments: _____

General Chemistry

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Analytical Report

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1806659-MB1		

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	07/24/18 01:30	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050	U	mg/L	0.0050	1	07/24/18 13:15	NA	
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	1	07/18/18 11:22	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	1	07/18/18 20:21	NA	
Chlorophyll A	SM20 10200 H	0.40	U	ug/L	0.40	1	07/26/18 12:00	NA	
Color, True	SM 2120 B-2001(2011)	**1.0**		ColorUnits	1.0	1	07/17/18 14:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020	U	mg/L	0.0020	1	07/27/18 17:38	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.14**		mg/L	0.10	1	07/25/18 15:43	07/24/18	
Phosphorus, Dissolved	365.1	0.0050	U	mg/L	0.0050	1	07/25/18 17:13	07/20/18	
Phosphorus, Total	365.1	0.0050	U	mg/L	0.0050	1	07/25/18 17:24	07/20/18	
Sulfate	300.0	0.20	U	mg/L	0.20	1	07/19/18 21:47	NA	
UV254	SM 5910 B	**0.00100**		cm-1	-	1	07/17/18 18:03	NA	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1806659-MB2		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050	U	mg/L	0.0050	1	07/24/18 19:40	NA	
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	1	07/18/18 20:21	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10	U	mg/L	0.10	1	07/30/18 10:32	07/27/18	
Phosphorus, Dissolved	365.1	0.0050	U	mg/L	0.0050	1	07/25/18 17:17	07/20/18	
Phosphorus, Total	365.1	0.0050	U	mg/L	0.0050	1	07/25/18 17:29	07/20/18	
Sulfate	300.0	0.20	U	mg/L	0.20	1	07/20/18 00:07	NA	

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1806659-MB3		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10 U	mg/L	0.10	1	07/30/18 10:54	07/27/18	

Client: New York State DEC
Project: LCI 2018/LCI2018
Sample Matrix: Water

Service Request:R1806659
Date Collected:07/16/18
Date Received:07/17/18
Date Analyzed:07/19/18 - 07/27/18

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: 18LHB111
Lab Code: R1806659-001

Units:mg/L
Basis:NA

			Matrix Spike R1806659-001MS			Duplicate Matrix Spike R1806659-001DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	0.455	0.500	91	0.457	0.500	91	75-125	<1	20
Sulfate	300.0	6.6	25.9	20.0	97	25.6	20.0	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.

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18
Sample Matrix:	Water	**Date Received:**	07/17/18
		Date Analyzed:	07/25/18
		Date Extracted:	07/20/18

Duplicate Matrix Spike Summary
Phosphorus, Dissolved

Sample Name:	18LHB111 Diss	**Units:**	mg/L
Lab Code:	R1806659-002	**Basis:**	NA
Analysis Method:	365.1		
Prep Method:	Method		

		Matrix Spike R1806659-002MS			Duplicate Matrix Spike R1806659-002DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Phosphorus, Dissolved	0.0052	0.0263	0.0250	84	0.0269	0.0250	87	75-125	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.

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18
Sample Matrix:	Water	**Date Received:**	07/17/18
		Date Analyzed:	07/30/18
		Date Extracted:	07/27/18

Duplicate Matrix Spike Summary
Nitrogen, Total Kjeldahl (TKN)

Sample Name:	18LHB112	**Units:**	mg/L
Lab Code:	R1806659-003	**Basis:**	NA
Analysis Method:	351.2		
Prep Method:	Method		

		Matrix Spike R1806659-003MS			**Duplicate Matrix Spike** R1806659-003DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Nitrogen, Total Kjeldahl (TKN)	1.09	3.25	2.50	87	3.21	2.50	85	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.

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18
Sample Matrix:	Water	**Date Received:**	07/17/18
		Date Analyzed:	07/25/18
		Date Extracted:	07/20/18

Duplicate Matrix Spike Summary
Phosphorus, Total

Sample Name:	18LHB133	**Units:**	mg/L
Lab Code:	R1806659-009	**Basis:**	NA
Analysis Method:	365.1		
Prep Method:	Method		

		Matrix Spike			Duplicate Matrix Spike					
		R1806659-009MS			R1806659-009DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Phosphorus, Total	0.0141	0.0369	0.0250	91	0.0353	0.0250	85	75-125	4	20

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18
Sample Matrix:	Water	**Date Received:**	07/17/18
		Date Analyzed:	07/24/18

Duplicate Matrix Spike Summary
Ammonia as Nitrogen, undistilled

Sample Name:	18LHB134	**Units:**	mg/L
Lab Code:	R1806659-011	**Basis:**	NA
Analysis Method:	ASTM D6919-09		

		Matrix Spike R1806659-011MS			Duplicate Matrix Spike R1806659-011DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Ammonia as Nitrogen, undistilled	0.0159	0.511	0.500	99	0.508	0.500	98	75-125	<1	20

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

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

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client:	New York State DEC	**Service Request:**	R1806659
Project:	LCI 2018/LCI2018	**Date Collected:**	07/16/18
Sample Matrix:	Water	**Date Received:**	07/17/18
		Date Analyzed:	07/30/18
		Date Extracted:	07/27/18

Duplicate Matrix Spike Summary
Nitrogen, Total Kjeldahl (TKN)

Sample Name:	18LHB123	**Units:**	mg/L
Lab Code:	R1806659-023	**Basis:**	NA
Analysis Method:	351.2		
Prep Method:	Method		

		Matrix Spike R1806659-023MS			**Duplicate Matrix Spike** R1806659-023DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Nitrogen, Total Kjeldahl (TKN)	1.13	3.51	2.50	95	3.53	2.50	96	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.

Client:	New York State DEC	**Service Request:**	R1806659
Project	LCI 2018/LCI2018	**Date Collected:**	07/16/18
Sample Matrix:	Water	**Date Received:**	07/17/18
		Date Analyzed:	07/17/18

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	18LHB111	**Units:**	cm-1
Lab Code:	R1806659-001	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R1806659-001DUP Result	Average	RPD	RPD Limit
UV254	SM 5910 B	-	0.0760	0.0785	0.0773	3	20

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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.

Client:	New York State DEC	**Service Request:**	R1806659
Project	LCI 2018/LCI2018	**Date Collected:**	07/16/18
Sample Matrix:	Water	**Date Received:**	07/17/18
		Date Analyzed:	07/17/18

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	18LHB133	**Units:**	cm-1
Lab Code:	R1806659-009	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R1806659-009DUP Result	Average	RPD	RPD Limit
UV254	SM 5910 B	-	0.0505	0.0520	0.0513	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.

Client:	New York State DEC	**Service Request:**	R1806659
Project	LCI 2018/LCI2018	**Date Collected:**	07/16/18
Sample Matrix:	Water	**Date Received:**	07/17/18
		Date Analyzed:	07/17/18

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	18LHB123	**Units:**	ColorUnits
Lab Code:	R1806659-023	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R1806659-023DUP Result	Average	RPD	RPD Limit
Color, True	SM 2120 B-2001(2011)	25	275	275	275	<1	5

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.

Client:	New York State DEC	**Service Request:**	R1806659
Project	LCI 2018/LCI2018	**Date Collected:**	07/16/18
Sample Matrix:	Water	**Date Received:**	07/17/18
		Date Analyzed:	07/17/18

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	18LHB123	**Units:**	pH Units
Lab Code:	R1806659-023	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R1806659-023DUP Result	Average	RPD	RPD Limit
pH of Color Analysis	SM 2120 B-2001(2011)	1.0	7.74	7.74	7.74	<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.

Client: New York State DEC
Project: LCI 2018/LCI2018
Sample Matrix: Water

Service Request: R1806659
Date Analyzed: 07/18/18 - 07/27/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1806659-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	18.8	20.0	94	70-130
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.504	0.500	101	70-130
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	9.74	10.0	97	70-130
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.4	10.0	104	70-130
Nitrate+Nitrite as Nitrogen	353.2	0.485	0.500	97	70-130
Nitrogen, Total Kjeldahl (TKN)	351.2	2.30	2.50	92	70-130
Phosphorus, Dissolved	365.1	0.0232	0.0250	93	70-130
Phosphorus, Total	365.1	0.0237	0.0250	95	70-130
Sulfate	300.0	2.00	2.00	100	70-130

Client: New York State DEC
Project: LCI 2018/LCI2018
Sample Matrix: Water

Service Request: R1806659
Date Analyzed: 07/18/18 - 07/30/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1806659-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.494	0.500	99	70-130
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	10.4	10.0	104	70-130
Nitrogen, Total Kjeldahl (TKN)	351.2	2.28	2.50	91	70-130
Phosphorus, Dissolved	365.1	0.0235	0.0250	94	70-130
Phosphorus, Total	365.1	0.0243	0.0250	97	70-130
Sulfate	300.0	2.00	2.00	100	70-130

Client: New York State DEC
Project: LCI 2018/LCI2018
Sample Matrix: Water

Service Request: R1806659
Date Analyzed: 07/30/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1806659-LCS3

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Nitrogen, Total Kjeldahl (TKN)	351.2	2.33	2.50	93	70-130