



July 20, 2018

Service Request No:R1806132

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 June 28, 2018
For your reference, these analyses have been assigned our service request number **R1806132**.

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

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

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

Service Request: R1806132
Date Received: 06/28/2018

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:

Fourteen water samples were received for analysis at ALS Environmental on 06/28/2018. 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 365.1, R1806132-001: The Method Reporting Limit (MRL) was elevated due to reactivity of sample. Sample was analyzed without dilution several times. When analyzed without dilution, a reaction occurred which reacted with the analytical reagent, resulting in air spikes, and therefore a high bias. The sample was diluted and reported with an elevated MRL to mitigate this occurrence.

A handwritten signature in black ink, appearing to read "Samanta".

Approved by _____

Date 07/20/2018



Sample Receipt Information

ALS Environmental—Rochester Laboratory

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

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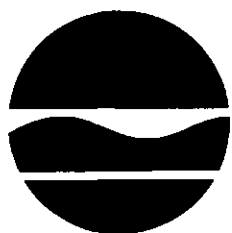
Client: New York State DEC
Project: LCI 2018/LCI2018

Service Request:R1806132

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1806132-001	18BLK001	6/27/2018	0945
R1806132-002	18BLK001 Diss	6/27/2018	0945
R1806132-003	18BLK002	6/27/2018	1000
R1806132-004	18BLK002 Diss	6/27/2018	1000
R1806132-005	18BLK003	6/27/2018	1200
R1806132-006	18BLK003 Diss	6/27/2018	1200
R1806132-007	18BLK004	6/27/2018	1210
R1806132-008	18BLK004 Diss	6/27/2018	1210
R1806132-009	18BLK998	6/27/2018	1245
R1806132-010	18BLK998 Diss	6/27/2018	1245
R1806132-011	18BLK007	6/27/2018	1350
R1806132-012	18BLK007 Diss	6/27/2018	1350
R1806132-013	18BLK008	6/27/2018	1355
R1806132-014	18BLK008 Diss	6/27/2018	1355

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Project Name: LCI
Sampler Collector: Rebecca Barney
Project Manager: Alene Onion
Address: 625 Broadway, 4 th Floor Albany, NY 12233-3502
Phone: (518) 402-8166
Email: alene.onion@dec.ny.gov

Sampler Signature:

X Report to Project Manager
Report to:

Address:

Phone:**Email:****Sampler Phone No.:**

802 338 2456

☐ **Bill to Project Manager**
Bill to: Jason Fagel

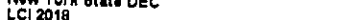
Address: 625 Broadway, 4th Floor
Albany, NY 12233-3502

Phone: 518-402-8156

Email: Jason.fagel@dec.ny.gov

[illegible]

Special Analysis Instructions:

Relinquished by Sampler: <i>Rebecca Gomez</i>	Date: <i>6/27/19</i>	Time: <i>5:30 pm</i>	Received by:	Date:	Time:	Laboratory Receipt Notes: <div style="text-align: right; font-size: 1.2em; font-weight: bold;">R1806132</div> <div style="text-align: right; font-size: 1.5em; font-weight: bold;">5</div> <div style="text-align: center; font-size: 0.8em;">New York State DEC LCI 2018</div> <div style="text-align: center;">  </div>
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	
Relinquished by:	Date:	Time:	Received by Laboratory: <i>Simon L...</i>	Date: <i>6/28/19</i>	Time: <i>0930</i>	



Cooler Receipt and Preservation Check Form

R1806132

5

New York State DEC
LCI 2018



Project/Client LCI Folder Number _____

Cooler received on 6/28/18 by: @

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 <u>(Gel packs)</u> present?	<u>(Y)</u> N

5a	Perchlorate samples have required headspace?	Y N <u>(NA)</u>
5b	Did VOA vials <u>(Alk)</u> or Sulfide have sig* bubbles?	<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: 6/28/18 Time: 0946 ID: IR#7 (IR#9) From: (Temp Blank) (Sample Bottle)

Observed Temp (°C)	<u>4.4</u>	<u>4.9</u>					
Correction Factor (°C)	<u>+1.3</u>	<u>+1.3</u>					
Corrected Temp (°C)	<u>5.7</u>	<u>6.2</u>					
Temp from: Type of bottle	<u>cont tube</u>	<u>cont tube</u>					
Within 0-6°C?	<u>(Y)</u> N	<u>(Y)</u> 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 6/28/18 at 0954
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 6/29/18 Time: 1550 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
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	<u>204518</u>	HNO ₃	<u>(✓)</u>	<u>204518</u>	<u>12/18</u>				
≤2	<u>204518</u>	H ₂ SO ₄	<u>(✓)</u>	<u>188709, 2H90071</u>					
<4		NaHSO ₄							
5-9		For 608pest		No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522, Na ₂ S ₂ O ₃		If +, contact PM to add Na ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		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: 8-072-001, 040317-2440

Explain all Discrepancies/ Other Comments:

BLK 995 label says TOC
BLK 002 label says TOC
BLK 001 label says TOC
samples bagged together per location
COC says TOC
COC says TOC

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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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 Certifications¹

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

¹ 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

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 2018/LCI2018

Service Request: R1806132

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 2018/LCI2018

Service Request: R1806132

Sample Name: 18BLK001
Lab Code: R1806132-001
Sample Matrix: Water

Date Collected: 06/27/18
Date Received: 06/28/18

Analysis Method	Extracted/Digested By	Analyzed By
300.0		AMOSSES
351.2	NSMITH	GNITAJOUPPI
353.2		GNITAJOUPPI
365.1	MROGERSON	KMENGS
ASTM D6919-09		AMOSSES
SM 2120 B-2001(2011)		SCYMBAL
SM 2320 B-1997(2011)		CWOODS
SM 5310 C-2000(2011)		CWOODS
SM 5910 B		MROGERSON
SM20 10200 H		GNITAJOUPPI

Sample Name: 18BLK001 Diss
Lab Code: R1806132-002
Sample Matrix: Water

Date Collected: 06/27/18
Date Received: 06/28/18

Analysis Method	Extracted/Digested By	Analyzed By
365.1	MROGERSON	KMENGS

Sample Name: 18BLK002
Lab Code: R1806132-003
Sample Matrix: Water

Date Collected: 06/27/18
Date Received: 06/28/18

Analysis Method	Extracted/Digested By	Analyzed By
300.0		AMOSSES
351.2	NSMITH	GNITAJOUPPI
353.2		GNITAJOUPPI
365.1	MROGERSON	KMENGS
ASTM D6919-09		AMOSSES
SM 2120 B-2001(2011)		SCYMBAL
SM 5310 C-2000(2011)		CWOODS
SM 5910 B		MROGERSON

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dba ALS Environmental

Analyst Summary report

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

Service Request: R1806132

Sample Name: 18BLK002 Diss
Lab Code: R1806132-004
Sample Matrix: Water

Date Collected: 06/27/18
Date Received: 06/28/18

Analysis Method
365.1

Extracted/Digested By
MROGERSON

Analyzed By
KMENGs

Sample Name: 18BLK003
Lab Code: R1806132-005
Sample Matrix: Water

Date Collected: 06/27/18
Date Received: 06/28/18

Analysis Method
300.0
351.2
353.2
365.1
ASTM D6919-09

Extracted/Digested By

NSMITH

MROGERSON

Analyzed By
AMOSEs
GNITAJOUPI
GNITAJOUPI
KMENGs
AMOSEs

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

SCYMBAL
CWOODS
MROGERSON
GNITAJOUPI

Sample Name: 18BLK003 Diss
Lab Code: R1806132-006
Sample Matrix: Water

Date Collected: 06/27/18
Date Received: 06/28/18

Analysis Method
365.1
SM 5310 C-2000(2011)

Extracted/Digested By
MROGERSON

Analyzed By
KMENGs
CWOODS

Sample Name: 18BLK004
Lab Code: R1806132-007
Sample Matrix: Water

Date Collected: 06/27/18
Date Received: 06/28/18

Analysis Method
300.0

Extracted/Digested By

Analyzed By
AMOSEs

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dba ALS Environmental

Analyst Summary report

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

Service Request: R1806132

Sample Name: 18BLK004
Lab Code: R1806132-007
Sample Matrix: Water

Date Collected: 06/27/18
Date Received: 06/28/18

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

Sample Name: 18BLK004 Diss
Lab Code: R1806132-008
Sample Matrix: Water

Date Collected: 06/27/18
Date Received: 06/28/18

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

Sample Name: 18BLK998
Lab Code: R1806132-009
Sample Matrix: Water

Date Collected: 06/27/18
Date Received: 06/28/18

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

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

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

Service Request: R1806132

Sample Name: 18BLK998 Diss
Lab Code: R1806132-010
Sample Matrix: Water

Date Collected: 06/27/18
Date Received: 06/28/18

Analysis Method

365.1
SM 5310 C-2000(2011)

Extracted/Digested By

MROGERSON

Analyzed By

KMENG
CWOODS

Sample Name: 18BLK007
Lab Code: R1806132-011
Sample Matrix: Water

Date Collected: 06/27/18
Date Received: 06/28/18

Analysis Method

351.2
353.2
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

NSMITH

MROGERSON

Analyzed By

GNITAJOUPPI
GNITAJOUPPI
KMENG
AMOSE
SCYMBAL
CWOODS
CWOODS
GNITAJOUPPI

Sample Name: 18BLK007 Diss
Lab Code: R1806132-012
Sample Matrix: Water

Date Collected: 06/27/18
Date Received: 06/28/18

Analysis Method

365.1

Extracted/Digested By

MROGERSON

Analyzed By

KMENG

Sample Name: 18BLK008
Lab Code: R1806132-013
Sample Matrix: Water

Date Collected: 06/27/18
Date Received: 06/28/18

Analysis Method

351.2
353.2

Extracted/Digested By

NSMITH

Analyzed By

GNITAJOUPPI
GNITAJOUPPI

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

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

Service Request: R1806132

Sample Name: 18BLK008
Lab Code: R1806132-013
Sample Matrix: Water

Date Collected: 06/27/18
Date Received: 06/28/18

Analysis Method

365.1
ASTM D6919-09
SM 2120 B-2001(2011)
SM 5310 C-2000(2011)

Extracted/Digested By

MROGERSON

Analyzed By

KMENGs
AMOSEs
SCYMBAL
CWOODS

Sample Name: 18BLK008 Diss
Lab Code: R1806132-014
Sample Matrix: Water

Date Collected: 06/27/18
Date Received: 06/28/18

Analysis Method

365.1

Extracted/Digested By

MROGERSON

Analyzed By

KMENGs



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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Metals

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METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: New York State DEC

Service Request: LCI0625

Project No.: R1806132

Date Collected: 6/27/2018

Project Name:

Date Received: 6/28/2018

Matrix: WATER

Units: ug/L

Basis:

Sample Name: 18BLK002

Lab Code: R1806132-003

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	148		
Manganese	200.7	10.0	1.7	1.0	161		

% Solids: 0.0

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: New York State DEC **Service Request:** LCI0625
Project No.: R1806132 **Date Collected:** 6/27/2018
Project Name: **Date Received:** 6/28/2018
Matrix: WATER **Units:** ug/L
Basis:

Sample Name: 18BLK004 **Lab Code:** R1806132-007

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	C	Q
Arsenic	200.8	1.0	0.39	1.0	0.43	J	
Iron	200.7	100	13.0	1.0	36.9	J	
Manganese	200.7	10.0	1.7	1.0	5.9	J	

% Solids: 0.0

Comments:

METALS
- 1 -
INORGANIC ANALYSIS DATA PACKAGE

Client: New York State DEC **Service Request:** LCI0625
Project No.: R1806132 **Date Collected:** 6/27/2018
Project Name: **Date Received:** 6/28/2018
Matrix: WATER **Units:** ug/L
Basis:

Sample Name: 18BLK998 **Lab Code:** R1806132-009

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	100	U	
Manganese	200.7	10.0	1.7	1.0	2.0	J	

% Solids: 0.0

Comments:



General Chemistry

ALS Environmental—Rochester Laboratory

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www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Sample Name: 18BLK001
Lab Code: R1806132-001

Service Request: R1806132
Date Collected: 06/27/18 09:45
Date Received: 06/28/18 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)	16.4	mg/L	2.0	1	07/09/18 21:43	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0074	mg/L	0.0050	1	07/10/18 17:34	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	4.0	mg/L	1.0	1	07/11/18 18:14	NA	
Chlorophyll A	SM20 10200 H	2.02	ug/L	0.080	1	07/17/18 09:30	NA	
Color, True	SM 2120 B-2001(2011)	21.0	ColorUnits	1.0	1	06/28/18 13:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0041	mg/L	0.0020	1	07/11/18 12:21	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.32	mg/L	0.10	1	07/10/18 11:14	07/09/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.32	pH Units	-	1	06/28/18 10:00	NA	
Phosphorus, Total	365.1	0.010 U	mg/L	0.010	2	07/03/18 10:03	07/02/18	
Sulfate	300.0	2.8	mg/L	2.0	10	07/03/18 15:09	NA	
UV254	SM 5910 B	0.0860	cm-1	-	1	06/28/18 17:25	NA	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Sample Name: 18BLK001 Diss
Lab Code: R1806132-002

Service Request: R1806132
Date Collected: 06/27/18 09:45
Date Received: 06/28/18 09:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0060	mg/L	0.0050	1	07/03/18 08:45	07/02/18	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Sample Name: 18BLK002
Lab Code: R1806132-003

Service Request: R1806132
Date Collected: 06/27/18 10:00
Date Received: 06/28/18 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	0.130	mg/L	0.0050	1	07/10/18 17:50	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	4.7	mg/L	1.0	1	07/11/18 18:35	NA	
Color, True	SM 2120 B-2001(2011)	22.0	ColorUnits	1.0	1	06/28/18 13:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0491	mg/L	0.0020	1	07/11/18 12:28	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.50	mg/L	0.10	1	07/10/18 11:15	07/09/18	
pH of Color Analysis	SM 2120 B-2001(2011)	6.65	pH Units	-	1	06/28/18 10:00	NA	
Phosphorus, Total	365.1	0.0093	mg/L	0.0050	1	07/03/18 09:13	07/02/18	
Sulfate	300.0	2.6	mg/L	2.0	10	07/03/18 15:14	NA	
UV254	SM 5910 B	0.0885	cm-1	-	1	06/28/18 17:25	NA	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Sample Name: 18BLK002 Diss
Lab Code: R1806132-004

Service Request: R1806132
Date Collected: 06/27/18 10:00
Date Received: 06/28/18 09:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0080	mg/L	0.0050	1	07/03/18 08:46	07/02/18	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1806132
Date Collected: 06/27/18 12:00
Date Received: 06/28/18 09:30

Sample Name: 18BLK003
Lab Code: R1806132-005

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO ₃	SM 2320 B-1997(2011)	15.2	mg/L	2.0	1	07/09/18 21:47	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0135	mg/L	0.0050	1	07/10/18 18:07	NA	
Chlorophyll A	SM20 10200 H	1.17	ug/L	0.040	1	07/17/18 09:30	NA	
Color, True	SM 2120 B-2001(2011)	22.0	ColorUnits	1.0	1	06/28/18 13:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0627	mg/L	0.0020	1	07/11/18 12:30	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.35	mg/L	0.10	1	07/10/18 11:16	07/09/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.21	pH Units	-	1	06/28/18 10:00	NA	
Phosphorus, Total	365.1	0.0050 U	mg/L	0.0050	1	07/03/18 09:14	07/02/18	
Sulfate	300.0	3.6	mg/L	2.0	10	07/03/18 15:20	NA	
UV254	SM 5910 B	0.116	cm-1	-	1	06/28/18 17:25	NA	

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dba ALS Environmental

Analytical Report

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

Sample Name: 18BLK003 Diss
Lab Code: R1806132-006

Service Request: R1806132
Date Collected: 06/27/18 12:00
Date Received: 06/28/18 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)	4.4	mg/L	1.0	1	07/11/18 07:18	NA	
Phosphorus, Dissolved	365.1	0.0058	mg/L	0.0050	1	07/03/18 08:47	07/02/18	

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Analytical Report

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

Sample Name: 18BLK004
Lab Code: R1806132-007

Service Request: R1806132
Date Collected: 06/27/18 12:10
Date Received: 06/28/18 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	0.0071	mg/L	0.0050	1	07/10/18 18:23	NA	
Color, True	SM 2120 B-2001(2011)	28.0	ColorUnits	1.0	1	06/28/18 13:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.112	mg/L	0.0020	1	07/11/18 12:31	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.29	mg/L	0.10	1	07/10/18 11:16	07/09/18	
pH of Color Analysis	SM 2120 B-2001(2011)	6.78	pH Units	-	1	06/28/18 10:00	NA	
Phosphorus, Total	365.1	0.0050	U mg/L	0.0050	1	07/03/18 09:15	07/02/18	
Sulfate	300.0	3.8	mg/L	2.0	10	07/03/18 15:26	NA	
UV254	SM 5910 B	0.117	cm-1	-	1	06/28/18 17:25	NA	

ALS Group USA, Corp.
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Analytical Report

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

Sample Name: 18BLK004 Diss
Lab Code: R1806132-008

Service Request: R1806132
Date Collected: 06/27/18 12:10
Date Received: 06/28/18 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)	4.0	mg/L	1.0	1	07/11/18 09:03	NA	
Phosphorus, Dissolved	365.1	0.0059	mg/L	0.0050	1	07/03/18 08:48	07/02/18	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Sample Name: 18BLK998
Lab Code: R1806132-009

Service Request: R1806132
Date Collected: 06/27/18 12:45
Date Received: 06/28/18 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	0.0050	U mg/L	0.0050	1	07/10/18 20:31	NA	
Color, True	SM 2120 B-2001(2011)	13.0	ColorUnits	1.0	1	06/28/18 13:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0054	mg/L	0.0020	1	07/11/18 12:32	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.13	mg/L	0.10	1	07/10/18 11:17	07/09/18	
pH of Color Analysis	SM 2120 B-2001(2011)	4.81	pH Units	-	1	06/28/18 10:00	NA	
Phosphorus, Total	365.1	0.0050	U mg/L	0.0050	1	07/03/18 09:16	07/02/18	
Sulfate	300.0	2.0	U mg/L	2.0	10	07/03/18 15:32	NA	
UV254	SM 5910 B	0.0160	cm-1	-	1	06/28/18 17:25	NA	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: New York State DEC
Project: LCI 2018/LCI2018
Sample Matrix: Water
Sample Name: 18BLK998 Diss
Lab Code: R1806132-010

Service Request: R1806132
Date Collected: 06/27/18 12:45
Date Received: 06/28/18 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)	4.8	mg/L	1.0	1	07/11/18 09:28	NA	
Phosphorus, Dissolved	365.1	0.0076	mg/L	0.0050	1	07/03/18 08:49	07/02/18	

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dba ALS Environmental

Analytical Report

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

Sample Name: 18BLK007
Lab Code: R1806132-011

Service Request: R1806132
Date Collected: 06/27/18 13:50
Date Received: 06/28/18 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)	5.2	mg/L	2.0	1	07/09/18 21:51	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	07/10/18 20:47	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	6.5	mg/L	1.0	1	07/11/18 18:56	NA	
Chlorophyll A	SM20 10200 H	2.70	ug/L	0.080	1	07/17/18 09:30	NA	
Color, True	SM 2120 B-2001(2011)	180	ColorUnits	10	10	06/28/18 13:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0376	mg/L	0.0020	1	07/11/18 12:34	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.40	mg/L	0.10	1	07/10/18 11:18	07/09/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.21	pH Units	-	10	06/28/18 10:00	NA	
Phosphorus, Total	365.1	0.0050	mg/L	0.0050	1	07/03/18 09:17	07/02/18	

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Analytical Report

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

Sample Name: 18BLK007 Diss
Lab Code: R1806132-012

Service Request: R1806132
Date Collected: 06/27/18 13:50
Date Received: 06/28/18 09:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0072	mg/L	0.0050	1	07/03/18 08:50	07/02/18	

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Analytical Report

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

Sample Name: 18BLK008
Lab Code: R1806132-013

Service Request: R1806132
Date Collected: 06/27/18 13:55
Date Received: 06/28/18 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	0.120	mg/L	0.0050	1	07/10/18 21:03	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	6.6	mg/L	1.0	1	07/11/18 19:17	NA	
Color, True	SM 2120 B-2001(2011)	210	ColorUnits	10	10	06/28/18 13:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.103	mg/L	0.0020	1	07/11/18 12:35	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.50	mg/L	0.10	1	07/10/18 11:20	07/09/18	
pH of Color Analysis	SM 2120 B-2001(2011)	6.27	pH Units	-	10	06/28/18 10:00	NA	
Phosphorus, Total	365.1	0.0107	mg/L	0.0050	1	07/03/18 09:18	07/02/18	

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Analytical Report

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

Sample Name: 18BLK008 Diss
Lab Code: R1806132-014

Service Request: R1806132
Date Collected: 06/27/18 13:55
Date Received: 06/28/18 09:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0065	mg/L	0.0050	1	07/03/18 08:51	07/02/18	



QC Summary Forms

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Metals

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METALS
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BLANKS

Contract: R1806132

Lab Code: Case No.: SAS No.: SDG NO.: LCI0625

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: R1806132

Lab Code: Case No.: SAS No.: SDG NO.: LCI0625

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	0.39	0.39	U	U	U			MS
Iron		13.00	13.00	13.00	U	U	U			P
Manganese		1.70	1.70	1.70	U	U	U			P

Comments:

METALS

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BLANKS

Contract: R1806132

Lab Code: Case No.: SAS No.: SDG NO.: LCI0625

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	0.39							MS
Iron		13.00								P
Manganese		1.70								P

Comments:

METALS

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LABORATORY CONTROL SAMPLE

Contract: R1806132

Lab Code: Case No.: SAS No.: SDG NO.: LCI0625

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	21.8	109						
Iron	1000	1020	102						
Manganese	500	504	101						

Comments:



General Chemistry

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Analytical Report

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

Sample Name: Method Blank
Lab Code: R1806132-MB

Service Request: R1806132
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	07/09/18 19:49	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	07/10/18 17:02	NA	
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	07/11/18 03:50	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	07/11/18 16:29	NA	
Chlorophyll A	SM20 10200 H	0.16 U	ug/L	0.16	1	07/17/18 09:30	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	07/11/18 11:53	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10 U	mg/L	0.10	1	07/10/18 11:03	07/09/18	
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	07/03/18 08:28	07/02/18	
Phosphorus, Total	365.1	0.0050 U	mg/L	0.0050	1	07/03/18 09:03	07/02/18	
Sulfate	300.0	0.20 U	mg/L	0.20	1	07/03/18 13:23	NA	
UV254	SM 5910 B	0.00100	cm-1	-	1	06/28/18 17:25	NA	

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QA/QC Report

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

Service Request: R1806132
Date Collected: 06/27/18
Date Received: 06/28/18
Date Analyzed: 07/11/18

Duplicate Matrix Spike Summary
Nitrate+Nitrite as Nitrogen

Sample Name: 18BLK001
Lab Code: R1806132-001
Analysis Method: 353.2

Units: mg/L
Basis: NA

Analyte Name	Matrix Spike R1806132-001MS				Duplicate Matrix Spike R1806132-001DMS					
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Nitrate+Nitrite as Nitrogen	0.0041	0.508	0.500	101	0.508	0.500	101	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 2018/LCI2018
Sample Matrix: Water

Service Request: R1806132
Date Collected: 06/27/18
Date Received: 06/28/18
Date Analyzed: 07/11/18

Duplicate Matrix Spike Summary
Carbon, Dissolved Organic (DOC)

Sample Name: 18BLK003 Diss
Lab Code: R1806132-006
Analysis Method: SM 5310 C-2000(2011)

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R1806132-006MS			Duplicate Matrix Spike R1806132-006DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Carbon, Dissolved Organic (DOC)	4.4	14.3	10.0	99	14.9	10.0	105	75-125	4	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 2018/LCI2018
Sample Matrix: Water

Service Request: R1806132
Date Collected: 06/27/18
Date Received: 06/28/18
Date Analyzed: 07/10/18
Date Extracted: 07/9/18

Duplicate Matrix Spike Summary
Nitrogen, Total Kjeldahl (TKN)

Sample Name: 18BLK008
Lab Code: R1806132-013
Analysis Method: 351.2
Prep Method: Method

Units: mg/L
Basis: NA

Analyte Name	Matrix Spike R1806132-013MS				Duplicate Matrix Spike R1806132-013DMS					
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Nitrogen, Total Kjeldahl (TKN)	0.50	2.79	2.50	91	2.83	2.50	93	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 2018/LCI2018
Sample Matrix: Water

Service Request: R1806132
Date Collected: 06/27/18
Date Received: 06/28/18
Date Analyzed: 06/28/18

Replicate Sample Summary
General Chemistry Parameters

Sample Name: 18BLK001
Lab Code: R1806132-001

Units: cm-1
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample	Average	RPD	RPD Limit
				R1806132-001DUP Result			
UV254	SM 5910 B	-	0.0860	0.0870	0.0865	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 2018/LCI2018
Sample Matrix: Water

Service Request: R1806132
Date Analyzed: 07/03/18 - 07/11/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1806132-LCS

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO ₃	SM 2320 B-1997(2011)	18.4	20.0	92	70-130
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.510	0.500	102	70-130
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	9.7	10.0	97	70-130
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.7	10.0	97	70-130
Nitrate+Nitrite as Nitrogen	353.2	0.525	0.500	105	70-130
Nitrogen, Total Kjeldahl (TKN)	351.2	2.41	2.50	96	70-130
Phosphorus, Dissolved	365.1	0.0228	0.0250	91	70-130
Phosphorus, Total	365.1	0.0232	0.0250	93	70-130
Sulfate	300.0	2.07	2.00	103	70-130