



September 28, 2018

Service Request No:R1808653

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 September 11, 2018  
For your reference, these analyses have been assigned our service request number **R1808653**.

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

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

Respectfully submitted,

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

Janice Jaeger  
Project Manager

CC: Jason Fagel

**ADDRESS**

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

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

ALS Group USA, Corp.  
dba ALS Environmental



## Narrative Documents

**ALS Environmental—Rochester Laboratory**

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

**Service Request:** R1808653  
**Date Received:** 09/11/2018

### 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:

Three water samples were received for analysis at ALS Environmental on 09/11/2018. 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.

### General Chemistry:

No significant anomalies were noted with this analysis.



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

Date 09/28/2018

### SAMPLE DETECTION SUMMARY

<b>CLIENT ID: 19PKTP19FW</b>	<b>Lab ID: R1808653-001</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO <sub>3</sub>	65.6		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen, undistilled	0.0100		0.0008	0.0050	mg/L	ASTM D6919-09
Nitrogen, Total Kjeldahl (TKN)	0.81		0.08	0.10	mg/L	351.2
Phosphorus, Total	0.0095		0.0020	0.0050	mg/L	365.1

<b>CLIENT ID: 19PKTP18DS</b>	<b>Lab ID: R1808653-002</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO <sub>3</sub>	66.0		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen, undistilled	0.0073		0.0008	0.0050	mg/L	ASTM D6919-09
Nitrogen, Total Kjeldahl (TKN)	0.80		0.08	0.10	mg/L	351.2
Phosphorus, Total	0.0092		0.0020	0.0050	mg/L	365.1

<b>CLIENT ID: 19PKTP18DD</b>	<b>Lab ID: R1808653-003</b>
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Analyte	Results	Flag	MDL	MRL	Units	Method
Ammonia as Nitrogen, undistilled	5.43		0.0008	0.0050	mg/L	ASTM D6919-09
Nitrate+Nitrite as Nitrogen	0.0060		0.0007	0.0020	mg/L	353.2
Nitrogen, Total Kjeldahl (TKN)	5.57		0.08	0.10	mg/L	351.2
Phosphorus, Total	0.87		0.10	0.25	mg/L	365.1



## Sample Receipt Information

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**Client:** New York State DEC  
**Project:** LCI 2018/PK2018

**Service Request:**R1808653

**SAMPLE CROSS-REFERENCE**

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1808653-001	19PKTP19FW	9/6/2018	1032
R1808653-002	19PKTP18DS	9/6/2018	0957
R1808653-003	19PKTP18DD	9/6/2018	1003

Page 1 of 1

**Email:** Jason.fagel@dec.ny.gov

Rockland Lake SP

## LCI 2018





## Cooler Receipt and Preservation Check Form

R1808653

New York State DEC  
LCI 2018

5

Project/Client

Folder Number

Cooler received on

9/11/18

by:

e

COURIER: ALS UPS ~~REDEX~~ VELOCITY CLIENT

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

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

8. Temperature Readings

Date:

9/11/18

Time:

0925

ID: IR#7

IR#910

From: Temp Blank

Sample Bottle

Observed Temp (°C)	1.9						
Correction Factor (°C)	+0.4						
Corrected Temp (°C)	2.3						
Temp from: Type of bottle	Cust tubes						
Within 0-6°C?	<input checked="" type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
If <0°C, were samples frozen?	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N

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

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

All samples held in storage location: ROC by e on 9/11/18 at 0936  
 5035 samples placed in storage location: \_\_\_\_\_ by \_\_\_\_\_ on \_\_\_\_\_ at \_\_\_\_\_

Cooler Breakdown/Preservation Check\*\*: Date: 9/11/18 Time: 1440 by: e

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 ☐ N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO <sub>3</sub>								
≤2	<u>209378</u>	H <sub>2</sub> SO <sub>4</sub>	<input checked="" type="checkbox"/>		<u>B260002C</u>	<u>5/70</u>				
<4		NaHSO <sub>4</sub>								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> (625, 608, CN), ascorbic (phenol).					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>								
		ZnAcetate	-	-						
		HCl	**	**						

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

Bottle lot numbers: all vials  
 Explain all Discrepancies/ Other Comments:

headspace: TB - all vials

001 - 2 vials 005 - 1 vial  
 002 - 1 vial 006 - 1 vial  
 003 - 1 vial  
 004 - 2 vials

Labels secondary reviewed by: ePC Secondary Review: 9/13/18

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

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





## 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 Certifications<sup>1</sup>

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

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

# ALS Laboratory Group

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## Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

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Analyst Summary report

**Client:** New York State DEC  
**Project:** LCI 2018/PK2018

**Service Request:** R1808653

**Sample Name:** 19PKTP19FW  
**Lab Code:** R1808653-001  
**Sample Matrix:** Water

**Date Collected:** 09/6/18  
**Date Received:** 09/11/18

**Analysis Method**

351.2  
353.2  
365.1  
ASTM D6919-09  
SM 2320 B-1997(2011)

**Extracted/Digested By**

NSMITH  
  
MROGERSON

**Analyzed By**

CWOODS  
MROGERSON  
MROGERSON  
AMOSSES  
CWOODS

**Sample Name:** 19PKTP18DS  
**Lab Code:** R1808653-002  
**Sample Matrix:** Water

**Date Collected:** 09/6/18  
**Date Received:** 09/11/18

**Analysis Method**

351.2  
353.2  
365.1  
ASTM D6919-09  
SM 2320 B-1997(2011)

**Extracted/Digested By**

NSMITH  
  
MROGERSON

**Analyzed By**

CWOODS  
MROGERSON  
MROGERSON  
AMOSSES  
CWOODS

**Sample Name:** 19PKTP18DD  
**Lab Code:** R1808653-003  
**Sample Matrix:** Water

**Date Collected:** 09/6/18  
**Date Received:** 09/11/18

**Analysis Method**

351.2  
353.2  
365.1  
ASTM D6919-09

**Extracted/Digested By**

NSMITH  
  
MROGERSON

**Analyzed By**

CWOODS  
MROGERSON  
MROGERSON  
AMOSSES



## 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

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## General Chemistry

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI 2018/PK2018  
**Sample Matrix:** Water  
  
**Sample Name:** 19PKTP19FW  
**Lab Code:** R1808653-001

**Service Request:** R1808653  
**Date Collected:** 09/06/18 10:32  
**Date Received:** 09/11/18 09:15  
  
**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)	65.6	mg/L	2.0	1	09/17/18 18:29	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0100	mg/L	0.0050	1	09/18/18 14:32	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/17/18 18:40	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.81	mg/L	0.10	1	09/24/18 18:29	09/21/18	
Phosphorus, Total	365.1	0.0095	mg/L	0.0050	1	09/21/18 17:13	09/19/18	



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Analytical Report

**Client:** New York State DEC  
**Project:** LCI 2018/PK2018  
**Sample Matrix:** Water  
  
**Sample Name:** 19PKTP18DS  
**Lab Code:** R1808653-002

**Service Request:** R1808653  
**Date Collected:** 09/06/18 09:57  
**Date Received:** 09/11/18 09:15  
  
**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)	66.0	mg/L	2.0	1	09/17/18 18:43	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0073	mg/L	0.0050	1	09/19/18 06:18	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/17/18 18:41	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.80	mg/L	0.10	1	09/24/18 18:29	09/21/18	
Phosphorus, Total	365.1	0.0092	mg/L	0.0050	1	09/21/18 17:14	09/19/18	

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dba ALS Environmental

Analytical Report

**Client:** New York State DEC  
**Project:** LCI 2018/PK2018  
**Sample Matrix:** Water  
  
**Sample Name:** 19PKTP18DD  
**Lab Code:** R1808653-003

**Service Request:** R1808653  
**Date Collected:** 09/06/18 10:03  
**Date Received:** 09/11/18 09:15  
  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	5.43	mg/L	0.0050	1	09/18/18 15:04	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0060	mg/L	0.0020	1	09/17/18 18:43	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	5.57	mg/L	0.10	1	09/24/18 18:30	09/21/18	
Phosphorus, Total	365.1	0.87	mg/L	0.25	50	09/21/18 18:02	09/19/18	



## QC Summary Forms

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## General Chemistry

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI 2018/PK2018  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** R1808653-MB1

**Service Request:** R1808653  
**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	09/17/18 15:29	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	09/18/18 14:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/17/18 18:17	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10 U	mg/L	0.10	1	09/24/18 18:25	09/21/18	
Phosphorus, Total	365.1	0.0050 U	mg/L	0.0050	1	09/21/18 16:47	09/19/18	

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Analytical Report

**Client:** New York State DEC  
**Project:** LCI 2018/PK2018  
**Sample Matrix:** Water  
**Sample Name:** Method Blank  
**Lab Code:** R1808653-MB2

**Service Request:** R1808653  
**Date Collected:** NA  
**Date Received:** NA  
**Basis:** NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050	U mg/L	0.0050	1	09/19/18 02:50	

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dba ALS Environmental

QA/QC Report

**Client:** New York State DEC  
**Project:** LCI 2018/PK2018  
**Sample Matrix:** Water

**Service Request:** R1808653  
**Date Analyzed:** 09/17/18 - 09/24/18

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

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

**Lab Control Sample**  
R1808653-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO <sub>3</sub>	SM 2320 B-1997(2011)	21.2	20.0	106	70-130
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.549	0.500	110	70-130
Nitrate+Nitrite as Nitrogen	353.2	0.531	0.500	106	70-130
Nitrogen, Total Kjeldahl (TKN)	351.2	2.31	2.50	92	70-130
Phosphorus, Total	365.1	0.0247	0.0250	99	70-130

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QA/QC Report

**Client:** New York State DEC  
**Project:** LCI 2018/PK2018  
**Sample Matrix:** Water

**Service Request:** R1808653  
**Date Analyzed:** 09/19/18

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

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

**Lab Control Sample**  
R1808653-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.500	0.500	100	70-130