

Service Request No:R1806067

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 **R1806067**.

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

Camanesto

CC: Jason Fagel



## **Narrative Documents**



Client: New York State DEC Service Request: R1806067

Project: LCI 2018 Date Received: 06/28/2018

Sample Matrix: Water

#### **CASE NARRATIVE**

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

#### **Sample Receipt:**

Two 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:**

Approved by

Method 353.2: One or more samples were received with insufficient hold time remaining to complete the analysis within the recommended limit. Client provided Chain of Custody did not have nitrite analysis listed as being required. The analysis was performed as soon as possible after receipt by the laboratory once analysts were notified of analysis. The data is flagged to indicate the holding time violation.

Janan Sox

Date	07/20/2018
I Jair:	0///0//010



# Sample Receipt Information

Client: New York State DEC Service Request:R1806067

Project: LCI 2018/LCI2018

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

SAMPLE #	CLIENT SAMPLE ID	<u>DATE</u>	<u>TIME</u>
R1806067-001	18LHB001	6/27/2018	0940
R1806067-002	18LHB001 Diss	6/27/2018	0940

		(	CHA	IN	O	F C	:U	Sī	ГО	D)	<b>7</b>									Page	of <u> </u>
						Project Number: LCI2018						NYSDEC SDG:			, . <del></del> .						
	S	ampler Co	llector:				<del></del>	•	Samp	ler S	Signa	ture	:					Sampler Phone No.:			
	P	<b>_</b>					X Report to Project Manager Report to:							☐ Bill to Project Manager Bill to: Jason Fagel							
New York State Department								Addre						<del>-</del> "		į	Address: 625 Broadway, 4 <sup>th</sup> Floor Albany, NY 12233-3502				
<b>Environmental Conservation</b>	- PI	hone: (518) 4	02-8166					1,	hone	);								Pho	ne: 518-402-	-8156	<del></del>
Division of Water	E	mail: alene.	onion@	dec.n	y gov	,		1	Email:									Ema	il: Jason.fag	gel@dec.ny.gov	
	· ·									Ans	luco	- O	rdo	red	/lict	<u>,                                     </u>	Ť		1.1.	Preservative	Codes
Matrix Codes:				ļ		3			2	Alle	0		1 u e 3		0	,			0	0 = Cool to < 6°C 1 = HCL	<del>, oodes.</del>
<pre>WW = Wastewater GW = Groundwater AW = Ambient Water SE = Sediment SL = Sludge T = Tissue O = Other</pre>	Collection Date	Collection Time	ix Code	No. of Containers	TP, NH4, NOx, TKN	TP, NH4, NOx, TKN, NO3 3	Dissolved TOP4	Mn, As,	, Na, K	As, Ca, Mg, Na, K			ANC	ity	& UV-254	ANC	I, UV-254		Chlorophyll a   Vol (ml)	2 = HNO <sub>3</sub> 3 = H <sub>2</sub> SO <sub>4</sub> 4 = NaOH 5 = Zn. Acetate 6 = MeOH 7 = NaHSO <sub>4</sub> 8 = Other	
NYSDEC LCI Sample ID	Colle	Colle	Matrix	No.	TP, NH	TP, NH	Dissolv	Fe, Mn,	Ca, Mg, Na, K	Fe, Mn, As,	Color	тос	DÓC	Alkalinity	.SO4 &	SO4. CI	SO4, CI,			Location	Info
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									i									R1	806067	5	<u> </u>
																	<u> </u>	LCI 2016			·
Special Analysis Instructions:	met	als bo	ttle c	- LØ	رون	6,	120	16	•		<u>!</u>		-			<b>.</b>	_	<u> </u>		<u>'                                    </u>	·
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Rollingalished by:		0ato: 62718 0ato:	Time:		elved t	y Lab	prator	<i>[[]]</i> y:		<i>M</i>	O Date	818		0	875 <u></u>	1	Prop	erly f	emp.: Preserved: ntact: Y /	Y / N	

AL	5	Cooler	Rece	ipt a	and P	reservat	ion Che	eck Fo	rm	R1806	067 DEC	5
roject/Clie	nt NYS1	JEC- L	.CI		Fold	er Numbe	r					
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		outside of coole	-		Y N	5a Pe	rchlorate :	samples h	ave re	quired head	space?	/ N NA
		rly completed (in		ed)?	Y) N	5b Di	d VOA via	ls, Alk,or	Sulfid	e have sig*	bubbles?	/ N NA
B Did all bo	ottles arrive in	good condition	(unbro	ken)?	N K	6 W	here did the	e bottles o	origina	te? A	ALS/ROC (	CLIENT
1 Circle: 7	Wet Ice Dry	lce Gel packs	pre	sent?	N	7 Sc	il VOA rec	eived as:	В	ulk Ence	ore 5035se	t NA
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Corrected Te		3.6				•				<del>-   -</del>		
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pН	Lot of test paper	Reagent	Yes	No	Lot Ke	eceived	Exp	Adjuste		Added	Lot Added	pH
≥12	204578	NaOH		ļ	13087	J15813	4118	1	<del></del>	-	<u></u>	
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<4		NaHSO <sub>4</sub>			1 1	<u> </u>	6/7	3/18				
5-9		For 608pest				otify for 3day						
Residual Chlorine		For CN, Phenol, 625,				ntact PM to a	id					
(-)		608pest, 522		İ	CN), as	corbic (pheno	1).					
		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>			<u> </u>					<u> </u>		
		Zn Acetate HCl	**	**				Otherwis	e, all bo	ttles of all san	sted before analy uples with chemic	
				<u> </u>			i	are checi	cea (not	just representa	itives).	
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## Miscellaneous Forms



#### REPORT QUALIFIERS AND DEFINITIONS

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

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

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



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

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

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

### **ALS Laboratory Group**

#### Acronyms

ASTM American Society for Testing and Materials

A2LA American Association for Laboratory Accreditation

CARB California Air Resources Board

CAS Number Chemical Abstract Service registry Number

CFC Chlorofluorocarbon CFU Colony-Forming Unit

DEC Department of Environmental Conservation

DEQ Department of Environmental Quality

DHS Department of Health Services

DOE Department of Ecology DOH Department of Health

EPA U. S. Environmental Protection Agency

ELAP Environmental Laboratory Accreditation Program

GC Gas Chromatography

GC/MS Gas Chromatography/Mass Spectrometry

LUFT Leaking Underground Fuel Tank

M Modified

MCL Maximum Contaminant Level is the highest permissible concentration of a

substance allowed in drinking water as established by the USEPA.

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

NA Not Applicable NC Not Calculated

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

ND Not Detected

NIOSH National Institute for Occupational Safety and Health

PQL Practical Quantitation Limit

RCRA Resource Conservation and Recovery Act

SIM Selected Ion Monitoring

TPH Total Petroleum Hydrocarbons

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

greater than or equal to the MDL.

## ALS Group USA, Corp. dba ALS Environmental

Client: New York State DEC Service Request: R1806067

**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

## ALS Group USA, Corp. dba ALS Environmental

Analyst Summary report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

Service Request: R1806067

 Sample Name:
 18LHB001
 Date Collected:
 06/27/18

 Lab Code:
 R1806067-001
 Date Received:
 06/28/18

Sample Matrix: Water

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

 Sample Name:
 18LHB001 Diss
 Date Collected: 06/27/18

 Lab Code:
 R1806067-002
 Date Received: 06/28/18

Sample Matrix: Water

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



#### **INORGANIC PREPARATION METHODS**

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

#### Water/Liquid Matrix

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

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

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

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



# Sample Results



## Metals

#### METALS -1-

#### INORGANIC ANALYSIS DATA PACKAGE

Client: New York State DEC Service Request: LCI0625

**Project No.:** R1806067 **Date Collected:** 6/27/2018

Project Name: Date Received: 6/28/2018

Matrix: WATER ug/L

Basis:

Sample Name: 18LHB001 Lab Code: R1806067-001

Analyte	Analysis Method	PQL	MDL	Dil. Factor	Result	С	Q
Arsenic	200.8	1.0	0.39	1.0	0.88	J	
Iron	200.7	100	13.0	1.0	69.0	J	
Manganese	200.7	10.0	1.7	1.0	55.6		

% Solids: 0.0



# **General Chemistry**

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

#### Analytical Report

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

LCI 2018/LCI2018

**Sample Matrix:** Water

**Sample Name:** 18LHB001

Lab Code: R1806067-001 Service Request: R1806067

**Date Collected:** 06/27/18 09:40

**Date Received:** 06/28/18 08:55

Basis: NA

#### **Inorganic Parameters**

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	68.4	mg/L	2.0	1	07/09/18 22:20	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	07/10/18 14:06	NA	
Chlorophyll A	SM20 10200 H	3.80	ug/L	0.16	2	07/17/18 09:30	NA	
Color, True	SM 2120 B-2001(2011)	27.0	ColorUnits	1.0	1	06/28/18 13:00	NA	
Nitrate as Nitrogen	Calculation	0.05 U	mg/L	0.05	1	NA	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	07/11/18 12:46	NA	
Nitrite as Nitrogen	353.2	0.010 U	mg/L	0.010	1	07/12/18 15:39	NA	*
Nitrogen, Total Kjeldahl (TKN)	351.2	0.48	mg/L	0.10	1	07/10/18 11:28	07/09/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.48	pH Units	-	1	06/28/18 10:00	NA	
Phosphorus, Total	365.1	0.0175	mg/L	0.0050	1	07/03/18 09:22	07/02/18	
Sulfate	300.0	5.6	mg/L	2.0	10	07/02/18 16:37	NA	
UV254	SM 5910 B	0.0840	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 Service Request: R1806067

**Date Collected:** 06/27/18 09:40

**Date Received:** 06/28/18 08:55

**Sample Name:** 18LHB001 Diss Basis: NA

Lab Code: R1806067-002

#### **Inorganic Parameters**

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	4.0	mg/L	1.0	1	07/11/18 22:04	NA	
Phosphorus, Dissolved	365.1	0.0070	mg/L	0.0050	1	07/03/18 09:23	07/02/18	



# **QC Summary Forms**



## Metals

-3-

**BLANKS** 

Contract:	R1806067					
Lab Code:		Case No.:	SAS No.:		SDG NO.:	LCI0625
Preparation	Blank Matrix	(soil/water):	WATER			
Preparation	Blank Concent	tration Units (ug/I	L, ppt, or mg/kg):	UG/L		

	Initial Calib. Blank		Conti	inu	ing Calibrati	on	Blank ug/L		Preparation Blank		
Analyte	ug/L	С	1	С	2	С	3	С		С	М
Arsenic	0.39	ŭ	0.39	ŭ	0.39	Ū	0.39	Ū	0.39	U	MS
Iron	13.00	Ū	13.00	Ū	13.00	Ū	13.00	Ū	13.000	Ū	P
Manganese	1.70	Ū	1.70	Ū	1.70	Ū	1.70	Ū	1.700	U	P

-3-

**BLANKS** 

Contract:	R1806067					
Lab Code:		Case No.:	SAS No.:		SDG NO.:	LCI0625
Preparation	Blank Matrix	(soil/water):	WATER			
Preparation	Blank Concent	tration Units (ug/I	L, ppt, or mg/kg):	UG/L		

	Initial Calib. Blank		Cont	inu	ing Calibrati	lon	Blank ug/L		Preparation Blank			
Analyte	ug/L	С	1	С	2	С	3	С		С		М
Arsenic	[		0.39	Ū	0.39	Ū	0.39	Ū			1	MS
Iron	[		13.00	Ū	13.00	Ū	13.00	Ū				P
Manganese			1.70	Ū	1.70	U	1.70	Ū			] ]	P

-3-

**BLANKS** 

Contract:	R1806067			
Lab Code:	Case No.:	SAS No.:	SDG NO.:	LCI0625
Preparation	Blank Matrix (soil/water):	WATER	<u> </u>	
Preparation	Blank Concentration Units (ug/L,	ppt, or mg/kg): UG	/L	

	Conti	Prepa: Blank	ration										
Analyte	ug/L	С	1	С	2	С	3	С			С		M
Arsenic	İ		0.39	υ	0.39	U						N	4S
Iron			13.00	ט							ĺ	I	?
Manganese			1.70	Ū							j	I	?

-7-

### LABORATORY CONTROL SAMPLE

Contract:	R1806067				
Lab Code:		Case No.:	SAS No.:	SDG NO.:	LCI0625
Solid LCS S	ource:				
Aqueous LCS	Source:	ACCUSTANDARD			

	Aqueous	s (ug/L	Solid (mg/K							
Analyte	True	Found	%R	True	Found	С	Limits	%R		
Arsenic	20.0	21.8	109							
Iron	1000	1020	102							
Manganese	500	504	101							



# **General Chemistry**

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

#### Analytical Report

**Client:** New York State DEC Service Request: R1806067

Date Collected: NA **Project:** LCI 2018/LCI2018

Date Received: NA **Sample Matrix:** Water

Basis: NA **Sample Name:** Method Blank

Lab Code: R1806067-MB

#### **Inorganic Parameters**

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	<b>Date Analyzed</b>	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 10:37	NA	
Carbon, Dissolved Organic (DOC)	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 12:42	NA	
Nitrite as Nitrogen	353.2	0.010 U	mg/L	0.010	1	07/12/18 15:26	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10 U	mg/L	0.10	1	07/10/18 11:25	07/09/18	
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	07/03/18 09:03	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	07/02/18 12:58	NA	
UV254	SM 5910 B	0.00100	cm-1	-	1	06/28/18 17:25	NA	

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

QA/QC Report

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

**Sample Matrix:** Water

LCI 2018/LCI2018

**Date Received:**06/28/18 **Date Analyzed:**07/10/18 - 07/11/18

Service Request:R1806067

Date Collected: 06/27/18

**Duplicate Matrix Spike Summary General Chemistry Parameters** 

Units:mg/L **Sample Name:** 18LHB001 Lab Code: Basis:NA R1806067-001

**Matrix Spike** 

**Duplicate Matrix Spike** 

R1806067-001MS

R1806067-001DMS

		Sample		Spike			Spike		% Rec		RPD
Analyte Name	Method	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	0.488	0.500	98	0.488	0.500	98	75-125	<1	20
Nitrogen, Total Kieldahl (TKN)	351.2	0.48	2.80	2.50	92	2.79	2.50	92	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.

#### ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: New York State DEC

Service Request: R1806067

Project LCI 2018/LCI2018

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

Sample Matrix: Water

**Date Analyzed:** 07/09/18

Replicate Sample Summary General Chemistry Parameters

Sample Name: 18LHB001

Units: mg/L

**Lab Code:** R1806067-001

Basis: NA

Duplicate Sample

R1806067-

Sample 00

Analyte Name Analysis Method

Result

001DUP Result Average

RPD Limit

Alkalinity, Total as CaCO3

SM 2320 B-1997(2011)

**MRL** 2.0

68.4

65.2

66.8

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.

## ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client: New York State DEC

**Project:** LCI 2018/LCI2018

**Sample Matrix:** Water

Service Request: R1806067

**Date Analyzed:** 07/02/18 - 07/12/18

**Lab Control Sample Summary General Chemistry Parameters** 

Units:mg/L Basis:NA

#### **Lab Control Sample**

R1806067-LCS

Analyte Name	<b>Analytical Method</b>	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	18.4	20.0	92	70-130
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.495	0.500	99	70-130
Carbon, Dissolved Organic (DOC)	SM 5310 C-2000(2011)	9.7	10.0	97	70-130
Nitrate+Nitrite as Nitrogen	353.2	0.510	0.500	102	70-130
Nitrite as Nitrogen	353.2	0.249	0.250	100	70-130
Nitrogen, Total Kjeldahl (TKN)	351.2	2.34	2.50	93	70-130
Phosphorus, Dissolved	365.1	0.0232	0.0250	93	70-130
Phosphorus, Total	365.1	0.0232	0.0250	93	70-130
Sulfate	300.0	2.04	2.00	102	70-130