

Service Request No:R1809020

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 19, 2018 For your reference, these analyses have been assigned our service request number **R1809020**.

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

Jamansto

CC: Jason Fagel



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



Client: New York State DEC Service Request: R1809020

Project: LCI 2018 Date Received: 09/19/2018

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:

Twenty six water samples were received for analysis at ALS Environmental on 09/19/2018. 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:

Method 353.2, R1809020-005: Sample(s) required dilution due to the foaming nature of the matrix. The reporting limits are adjusted to reflect the dilution.

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Approved by		\cup

Date	10/12/2018
Daic	10/12/2010



CLIENT ID: 18BLK301	Lab ID: R1809020-001												
Analyte	Results	Flag	MDL	MRL	Units	Method							
Alkalinity, Total as CaCO3	16.0		1.0	2.0	mg/L	SM 2320 B-1997 (2011)							
Carbon, Total Organic (TOC)	4.7		0.05	1.0	mg/L	SM 5310 C-2000 (2011)							
Chlorophyll A	0.817			0.040	ug/L	SM20 10200 H							
Color, True	12.0			1.0	ColorUnits	SM 2120 B-2001 (2011)							
Nitrogen, Total Kjeldahl (TKN)	0.52		80.0	0.10	mg/L	351.2							
pH of Color Analysis	7.28				pH Units	SM 2120 B-2001 (2011)							
CLIENT ID: 18BLK302		Lal	D: R1809	020-003									
Analyte	Results	Flag	MDL	MRL	Units	Method							
Ammonia as Nitrogen, undistilled	0.135		0.0008	0.0050	mg/L	ASTM D6919-09							
Carbon, Total Organic (TOC)	4.1		0.05	1.0	mg/L	SM 5310 C-2000 (2011)							
Color, True	23.0			1.0	ColorUnits	SM 2120 B-2001 (2011)							
Nitrogen, Total Kjeldahl (TKN)	0.54		0.08	0.10	mg/L	351.2							
pH of Color Analysis	7.01				pH Units	SM 2120 B-2001 (2011)							
Phosphorus, Total	0.0133		0.0020	0.0050	mg/L	365.1							
CLIENT ID: 18BLK303		Lal	D: R1809	020-005									
Analyte	Results	Flag	MDL	MRL	Units	Method							
Alkalinity, Total as CaCO3	15.2		1.0	2.0	mg/L	SM 2320 B-1997 (2011)							
Carbon, Total Organic (TOC)	4.2		0.05	1.0	mg/L	SM 5310 C-2000 (2011)							
Chlorophyll A	0.770			0.040	ug/L	SM20 10200 H							
Color, True	16.0			1.0	ColorUnits	SM 2120 B-2001 (2011)							
Nitrogen, Total Kjeldahl (TKN)	0.42		80.0	0.10	mg/L	351.2							
pH of Color Analysis	7.19				pH Units	SM 2120 B-2001 (2011)							
CLIENT ID: 18BLK304	Lab ID: R1809020-007												
Analyte	Results	Flag	MDL	MRL	Units	Method							
	Results 0.0283	Flag	MDL 0.0008	MRL 0.0050	Units mg/L	Method ASTM D6919-09							
Analyte		Flag				ASTM D6919-09 SM 5310 C-2000 (2011)							
Analyte Ammonia as Nitrogen, undistilled	0.0283	Flag	0.0008	0.0050	mg/L	ASTM D6919-09 SM 5310 C-2000							
Analyte Ammonia as Nitrogen, undistilled Carbon, Total Organic (TOC)	0.0283 4.2	Flag	0.0008	0.0050 1.0	mg/L mg/L	ASTM D6919-09 SM 5310 C-2000 (2011) SM 2120 B-2001							
Analyte Ammonia as Nitrogen, undistilled Carbon, Total Organic (TOC) Color, True	0.0283 4.2 48.0	Flag	0.0008 0.05	0.0050 1.0 1.0	mg/L mg/L ColorUnits	ASTM D6919-09 SM 5310 C-2000 (2011) SM 2120 B-2001 (2011)							
Analyte Ammonia as Nitrogen, undistilled Carbon, Total Organic (TOC) Color, True Nitrate+Nitrite as Nitrogen	0.0283 4.2 48.0 0.165	Flag	0.0008 0.05 0.0007	0.0050 1.0 1.0 0.0020	mg/L mg/L ColorUnits mg/L	ASTM D6919-09 SM 5310 C-2000 (2011) SM 2120 B-2001 (2011) 353.2							



CLIENT ID: 18BLK304 Diss		Lal	D: R1809	0020-008					
Analyte	Results	Flag	MDL	MRL	Units	Method			
Phosphorus, Dissolved	0.0068		0.0020	0.0050	mg/L	365.1			
CLIENT ID: 18BLK307		Lal	D: R1809	9020-009					
Analyte	Results	Flag	MDL	MRL	Units	Method			
Alkalinity, Total as CaCO3	5.6		1.0	2.0	mg/L	SM 2320 B-1997 (2011)			
Carbon, Total Organic (TOC)	6.0		0.05	1.0	mg/L	SM 5310 C-2000 (2011)			
Chlorophyll A	1.28			0.053	ug/L	SM20 10200 H			
Color, True	38.0			1.0	ColorUnits	SM 2120 B-2001 (2011)			
Nitrogen, Total Kjeldahl (TKN)	0.50		0.08	0.10	mg/L	351.2			
pH of Color Analysis	6.61				pH Units	SM 2120 B-2001 (2011)			
Phosphorus, Total	0.0062		0.0020	0.0050	mg/L	365.1			
CLIENT ID: 18BLK308	Lab ID: R1809020-011								
Analyte	Results	Flag	MDL	MRL	Units	Method			
Ammonia as Nitrogen, undistilled	0.490		0.0008	0.0050	mg/L	ASTM D6919-09			
Carbon, Total Organic (TOC)	9.9		0.05	1.0	mg/L	SM 5310 C-2000 (2011)			
Color, True	320			10	ColorUnits	SM 2120 B-2001 (2011)			
Nitrate+Nitrite as Nitrogen	0.0093		0.0007	0.0020	mg/L	353.2			
Nitrogen, Total Kjeldahl (TKN)	0.97		0.08	0.10	mg/L	351.2			
pH of Color Analysis	6.67				pH Units	SM 2120 B-2001 (2011)			
Phosphorus, Total	0.0189		0.0020	0.0050	mg/L	365.1			
CLIENT ID: 18BLK308 Diss		Lal	D: R1809	9020-012					
Analyte	Results	Flag	MDL	MRL	Units	Method			
Phosphorus, Dissolved	0.0060		0.0020	0.0050	mg/L	365.1			
CLIENT ID: 18BLK313		Lal	D: R1809	0020-013					
Analyte	Results	Flag	MDL	MRL	Units	Method			
Carbon, Total Organic (TOC)	3.4		0.05	1.0	mg/L	SM 5310 C-2000 (2011)			
Chlorophyll A	0.995			0.040	ug/L	SM20 10200 H			
Color, True	17.0			1.0	ColorUnits	SM 2120 B-2001 (2011)			
Nitrate+Nitrite as Nitrogen	0.0146		0.0007	0.0020	mg/L	353.2			
Nitrogen, Total Kjeldahl (TKN)	0.36		0.08	0.10	mg/L	351.2			
pH of Color Analysis	6.48				pH Units	SM 2120 B-2001 (2011)			
CLIENT ID: 18BLK314		Lal	D: R1809	0020-015					
Analyte	Results	Flag	MDL	MRL	Units	Method			
Ammonia as Nitrogen, undistilled	0.160		0.0008	0.0050	mg/L	ASTM D6919-09			



CLIENT ID: 18BLK314		Lat	D: R1809	020-015							
Analyte	Results	Flag	MDL	MRL	Units	Method					
Carbon, Total Organic (TOC)	3.6		0.05	1.0	mg/L	SM 5310 C-2000					
Color, True	47.0			1.0	ColorUnits	(2011) SM 2120 B-2001 (2011)					
Nitrate+Nitrite as Nitrogen	0.0914		0.0007	0.0020	mg/L	353.2					
Nitrogen, Total Kjeldahl (TKN)	0.46		80.0	0.10	mg/L	351.2					
pH of Color Analysis	6.24				pH Units	SM 2120 B-2001 (2011)					
Phosphorus, Total	0.0078		0.0020	0.0050	mg/L	365.1					
CLIENT ID: 18BLK305		Lat	D: R1809	020-017							
Analyte	Results	Flag	MDL	MRL	Units	Method					
Alkalinity, Total as CaCO3	4.0		1.0	2.0	mg/L	SM 2320 B-1997 (2011)					
Ammonia as Nitrogen, undistilled	0.0056		0.0008	0.0050	mg/L	ASTM D6919-09					
Carbon, Total Organic (TOC)	7.3		0.05	1.0	mg/L	SM 5310 C-2000 (2011)					
Chlorophyll A	4.60			0.32	ug/L	SM20 10200 H					
Color, True	52.0			1.0	ColorUnits	SM 2120 B-2001 (2011)					
Nitrogen, Total Kjeldahl (TKN)	0.61		0.08	0.10	mg/L	351.2					
pH of Color Analysis	6.69				pH Units	SM 2120 B-2001 (2011)					
Phosphorus, Total	0.0072		0.0020	0.0050	mg/L	365.1					
CLIENT ID: 18BLK306		Lat	D: R1809	020-019							
Analyte	Results	Flag	MDL	MRL	Units	Method					
Ammonia as Nitrogen, undistilled	0.296		0.0008	0.0050	mg/L	ASTM D6919-09					
Carbon, Total Organic (TOC)	7.6		0.05	1.0	mg/L	SM 5310 C-2000 (2011)					
Color, True	210			10	ColorUnits	SM 2120 B-2001 (2011)					
Nitrate+Nitrite as Nitrogen	0.0080		0.0007	0.0020	mg/L	353.2					
Nitrogen, Total Kjeldahl (TKN)	0.73		0.08	0.10	mg/L	351.2					
pH of Color Analysis	6.54				pH Units	SM 2120 B-2001 (2011)					
Phosphorus, Total	0.0165		0.0020	0.0050	mg/L	365.1					
CLIENT ID: 18BLK306 Diss		Lak	D: R1809	020-020							
Analyte	Results	Flag	MDL	MRL	Units	Method					
Phosphorus, Dissolved	0.0064		0.0020	0.0050	mg/L	365.1					
CLIENT ID: 18BLK311	CLIENT ID: 18BLK311 Lab ID: R1809020-021										
Analyte	Results	Flag	MDL	MRL	Units	Method					
Alkalinity, Total as CaCO3	18.4		1.0	2.0	mg/L	SM 2320 B-1997 (2011)					
Ammonia as Nitrogen, undistilled	0.0078		0.0008	0.0050	mg/L	ASTM D6919-09 SM 5310 C-2000					



CLIENT ID: 18BLK311		Lab ID: R1809020-021											
Analyte	Results	Flag	MDL	MRL	Units	Method							
Chlorophyll A	3.80			0.16	ug/L	SM20 10200 H							
Color, True	160			10	ColorUnits	SM 2120 B-2001 (2011)							
Nitrogen, Total Kjeldahl (TKN)	0.90		80.0	0.10	mg/L	351.2							
pH of Color Analysis	7.04				pH Units	SM 2120 B-2001 (2011)							
Phosphorus, Total	0.0232		0.0020	0.0050	mg/L	365.1							
CLIENT ID: 18BLK311 Diss	Lab ID: R1809020-022												
Analyte	Results	Flag	MDL	MRL	Units	Method							
Phosphorus, Dissolved	0.0098		0.0020	0.0050	mg/L	365.1							

CLIENT ID: 18BLK399						
Analyte	Results	Flag	MDL	MRL	Units	Method
Ammonia as Nitrogen, undistilled	0.159		0.0008	0.0050	mg/L	ASTM D6919-09
Carbon, Total Organic (TOC)	3.6		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Color, True	44.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Nitrate+Nitrite as Nitrogen	0.0913		0.0007	0.0020	mg/L	353.2
Nitrogen, Total Kjeldahl (TKN)	0.40		0.08	0.10	mg/L	351.2
pH of Color Analysis	6.29				pH Units	SM 2120 B-2001 (2011)
Phosphorus, Total	0.0083		0.0020	0.0050	mg/L	365.1

CLIENT ID: 18BLK398		Lab ID: R1809020-025									
Analyte	Results	Flag	MDL	MRL	Units	Method					
Color, True	8.0			1.0	ColorUnits	SM 2120 B-2001 (2011)					
Nitrogen, Total Kjeldahl (TKN)	0.19		0.08	0.10	mg/L	351.2					
pH of Color Analysis	6.58				pH Units	SM 2120 B-2001 (2011)					



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

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	<u>DATE</u>	<u>TIME</u>
R1809020-001	18BLK301	9/17/2018	1040
R1809020-002	18BLK301 Diss	9/17/2018	1040
R1809020-003	18BLK302	9/17/2018	1050
R1809020-004	18BLK302 Diss	9/17/2018	1050
R1809020-005	18BLK303	9/17/2018	1235
R1809020-006	18BLK303 Diss	9/17/2018	1235
R1809020-007	18BLK304	9/17/2018	1245
R1809020-008	18BLK304 Diss	9/17/2018	1245
R1809020-009	18BLK307	9/17/2018	1510
R1809020-010	18BLK307 Diss	9/17/2018	1510
R1809020-011	18BLK308	9/17/2018	1515
R1809020-012	18BLK308 Diss	9/17/2018	1515
R1809020-013	18BLK313	9/18/2018	0815
R1809020-014	18BLK313 Diss	9/18/2018	0815
R1809020-015	18BLK314	9/18/2018	0825
R1809020-016	18BLK314 Diss	9/18/2018	0825
R1809020-017	18BLK305	9/18/2018	1008
R1809020-018	18BLK305 Diss	9/18/2018	1008
R1809020-019	18BLK306	9/18/2018	1015
R1809020-020	18BLK306 Diss	9/18/2018	1015
R1809020-021	18BLK311	9/18/2018	1153
R1809020-022	18BLK311 Diss	9/18/2018	1153
R1809020-023	18BLK399	9/18/2018	0825
R1809020-024	18BLK399 Diss	9/18/2018	0825
R1809020-025	18BLK398	9/18/2018	1153
R1809020-026	18BLK398 Diss	9/18/2018	1153

Page $\underline{1}$ of $\underline{2}$ **CHAIN OF CUSTODY NYSDEC SDG:** Project Number: LCI2018 Project Name: LCI Sampler Collector: Sampler Signature: Sampler Phone No.: 845-216-9575 lovea m. Swa Goozale7 Project Manager: Alene Onion X Report to Project Manager ☐ Bill to Project Manager Bill to: Jason Fagel Report to: Address: 625 Broadway, 4th Floor Address: Address: 625 Broadway, 4th Floor Albany, NY 12233-3502 Albany, NY 12233-3502 New York State Department of Environmental Conservation -Phone: Phone: 518-402-8156 Phone: (518) 402-8166 Division of Water Email: alene.onion@dec.ny.gov Email: Email: Jason.fagel@dec.ny.gov **Analyses Ordered (list) Preservative Codes: Matrix Codes:** 0 = Cool to < 6°C 2 0 3 1 = HCL WW = Wastewater ANC $2 = HNO_3$ GW = Groundwater NO3 3 = H2SO4 Containers AW = Ambient Water 4 = NaOH**Collection Time Collection Date** SE = Sediment Chlorophyll a | Vol (ml) 5 = Zn. Acetate IP, NH4, NOx, TKN, TP, NH4, NOx, TKN Σ 6 = MeOHSL = Sludge 7 = NaHSO4 T = Tissue CI, UV-254 Dissolved TOP4 SO4 & UV-254 8 = Other___ O = Other Ca, Mg, Na, K Fe, Mn, As, Fe, Mn, As, 5 Matrix Alkalinity **NYSDEC** Color DOC T0C **Location Info** LCI Sample ID 18BLK301 09/17 10:40 AW 1000 Bugl, hujen 18 BLK302 09/17 10:50 12:35 AN 18BLK303 1000 ኦ 18RLK304 12:45 X 18BLK307 Brown CE 15:10 X. 750

Special Analysis Instructions:

18BLK308

18 BCK313

18RLK314 1 BLK305

18B2K306

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Laboratory Receipt Notes:

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		Project Ma	nager	Alen	e Oni	on		ı	X Report to Project Manager Report to:										I to Pro : Jason F	oject Manager ^{Tagel}	
New York State Departme		Address: 62	5 Broad Ibany, N	,				*	Address:									Addre		Broadway, 4 th Floor Dany, NY 12233-3502	
Environmental Conservat	ion –	Phone: (518) 4	none: (518) 402-8166						hone	;					•		7	Phone	e: 518-40	2-8156	
Division of Water	<u> </u>	Email: alene.	onion@	dec.n	y.gov	'		E	mail:	1							Ī	Email	: Jason.fo	agel@dec.ny.gov	
,	<u> </u>									Ana	lyse	s O	rdei	red	(list)				Preservative Codes	<u>=</u>
Matrix Codes:						3			2		0		1		0			_	0	0 = Cool to < 6°C 1 = HCL	
WW = Wastewater GW = Groundwater AW = Ambient Water SE = Sediment SL = Sludge T = Tissue O = Other NYSDEC LCI Sample ID 1882431 1882434	SI DO SI PO	8.25	D S Matrix Code	Mo. of Containers	X X TP, NH4, NOx, TKN	X TP, NH4, NOx, TKN, NO3 注	→ Dissolved TOP4	Fc, Mn, As,	Ca, Mg, Na, K	Fc, Mn, As, Ca, Mg, Na, K	K K Color	★ × 10c	DOC	X Alkalinity	SO4 & UV-254	SO4. Cl	,SO4, CI, UV-254	X	Chlorophyll a Ch	Location Info Location Info Location Lypace Location Lypace	(-
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3/12/18

Cooler Receipt and Preservation Check Form

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11. V 12. V 13. A pH ≥12	Were correct co Were 5035 vial	bels and tags agrontainers used for sacceptable (no cassettes / Tubes I Reagent	the tes extra la	sts indi ibels, n with M	cated? ot leakin	ng)? Canister	s Pressuri	zed Exp	YES YES Tedlar® Sample ID Adjusted	NO NO NO Bags Inflate Vol. Added		(N/ Added	A) Final pH	:]
<u>≤2</u> ≤2	2.021	HNO₃ H₃SO₄			2160 4	<u>~71</u>	192169	cla	25 2/ 21	011	, r	12/69	<u>₹2</u>	
<u>></u> 2 <4	209318	H₂SO₄ NaHSO₄	V	V	JH130	0//_	192161	7/17	25,26,21	O.SM	_/7	12/6/		
5-9		For 608pest			No=No	tify for	3day							
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	econdary re ondary Revi	viewed by:	W	W'	9/1/	/Osig	nificant a	ir bubb	oles: VOA > 5-0	5 mm : WC	>1 it	ı. diamet	er	

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Miscellaneous Forms

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



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 Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	Pennsylvania ID# 68-786
Delaware Approved	New Hampshire ID # 2941	Rhode Island ID # 158
DoD ELAP #65817	New York ID # 10145	Virginia #460167
Florida ID # E87674	North Carolina #676	

¹ 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 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: R1809020

Project: LCI 2018/LCI2018

Non-Certified Analytes

Certifying Agency: New York Department of Health

MethodMatrixAnalyteSM20 10200 HWaterChlorophyll A

Analyst Summary report

Client: New York State DEC Service Request: R1809020

Project: LCI 2018/LCI2018

 Sample Name:
 18BLK301
 Date Collected: 09/17/18

 Lab Code:
 R1809020-001
 Date Received: 09/19/18

Sample Matrix: Water

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

 Sample Name:
 18BLK301 Diss
 Date Collected:
 09/17/18

 Lab Code:
 R1809020-002
 Date Received:
 09/19/18

Sample Matrix: Water

Analysis MethodExtracted/Digested ByAnalyzed By365.1KWONGGNITAJOUPPI

 Sample Name:
 18BLK302
 Date Collected: 09/17/18

 Lab Code:
 R1809020-003
 Date Received: 09/19/18

Sample Matrix: Water

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

Analyst Summary report

Client: New York State DEC Service Request: R1809020

Project: LCI 2018/LCI2018

 Sample Name:
 18BLK302 Diss
 Date Collected:
 09/17/18

 Lab Code:
 R1809020-004
 Date Received:
 09/19/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

Sample Name: 18BLK303 Date Collected: 09/17/18

Lab Code: R1809020-005 **Date Received:** 09/19/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

351.2 NSMITH GNITAJOUPPI

353.2 MROGERSON

365.1 KWONG GNITAJOUPPI

ASTM D6919-09 CWOODS

SM 2120 B-2001(2011) SCYMBAL

SM 2320 B-1997(2011) CWOODS SM 5310 C-2000(2011) CWOODS

SM20 10200 H JQUACKENBUSH

Sample Name: 18BLK303 Diss Date Collected: 09/17/18

Lab Code: R1809020-006 **Date Received:** 09/19/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

Sample Name: 18BLK304 Date Collected: 09/17/18

Lab Code: R1809020-007 Date Received: 09/19/18
Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

351.2 NSMITH GNITAJOUPPI

353.2 MROGERSON

365.1 KWONG GNITAJOUPPI

Printed 10/12/2018 8:53:24 AM Superset Reference:18-0000481349 rev 00

Analyst Summary report

Client: New York State DEC Service Request: R1809020

Project: LCI 2018/LCI2018

 Sample Name:
 18BLK304
 Date Collected: 09/17/18

 Lab Code:
 R1809020-007
 Date Received: 09/19/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

ASTM D6919-09 CWOODS SM 2120 B-2001(2011) SCYMBAL

SM 5310 C-2000(2011) CWOODS

 Sample Name:
 18BLK304 Diss
 Date Collected:
 09/17/18

 Lab Code:
 R1809020-008
 Date Received:
 09/19/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

 Sample Name:
 18BLK307
 Date Collected: 09/17/18

 Lab Code:
 R1809020-009
 Date Received: 09/19/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

351.2 NSMITH GNITAJOUPPI 353.2 MROGERSON

365.1 KWONG GNITAJOUPPI ASTM D6919-09 CWOODS

 SM 2120 B-2001(2011)
 SCYMBAL

 SM 2320 B-1997(2011)
 CWOODS

SM 5310 C-2000(2011) CWOODS

SM20 10200 H JQUACKENBUSH

 Sample Name:
 18BLK307 Diss

 Lab Code:
 R1809020-010

 Date Received:
 09/17/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

Printed 10/12/2018 8:53:24 AM Superset Reference:18-0000481349 rev 00

Analyst Summary report

Client: New York State DEC Service Request: R1809020

Project: LCI 2018/LCI2018

 Sample Name:
 18BLK308
 Date Collected: 09/17/18

 Lab Code:
 R1809020-011
 Date Received: 09/19/18

Sample Matrix: Water

Analysis Method

Stracted/Digested By

Analyzed By

S11.2

NSMITH

GNITAJOUPPI

MROGERSON

365.1

KWONG

GNITAJOUPPI

CWOODS

SM 2120 B-2001(2011)

SCYMBAL

SM 5310 C-2000(2011) CWOODS

 Sample Name:
 18BLK308 Diss
 Date Collected:
 09/17/18

 Lab Code:
 R1809020-012
 Date Received:
 09/19/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

Sample Name: 18BLK313 Date Collected: 09/18/18

Lab Code: R1809020-013 Date Received: 09/19/18
Sample Matrix: Water

•

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

Analyst Summary report

Client: New York State DEC Service Request: R1809020

Project: LCI 2018/LCI2018

Sample Name: 18BLK313 Diss **Date Collected:** 09/18/18 Lab Code: R1809020-014 **Date Received:** 09/19/18

Sample Matrix: Water

Analyzed By Analysis Method Extracted/Digested By

365.1 **KWONG GNITAJOUPPI**

Sample Name: 18BLK314 **Date Collected:** 09/18/18

Lab Code: R1809020-015 **Date Received:** 09/19/18

Sample Matrix: Water

Analyzed By Analysis Method Extracted/Digested By

351.2 **NSMITH GNITAJOUPPI**

353.2 MROGERSON

GNITAJOUPPI 365.1 **KWONG**

ASTM D6919-09 **CWOODS** SM 2120 B-2001(2011) **SCYMBAL**

SM 5310 C-2000(2011) **CWOODS**

Sample Name: 18BLK314 Diss **Date Collected:** 09/18/18

Lab Code: R1809020-016 **Date Received:** 09/19/18 **Sample Matrix:** Water

Analyzed By **Analysis Method Extracted/Digested By**

365.1 **KWONG GNITAJOUPPI**

Sample Name: 18BLK305 **Date Collected:** 09/18/18

Lab Code: R1809020-017 **Date Received:** 09/19/18

Sample Matrix: Water

Analyzed By Analysis Method Extracted/Digested By

351.2 **NSMITH GNITAJOUPPI**

353.2 **MROGERSON**

KWONG 365.1 **GNITAJOUPPI**

ASTM D6919-09 **CWOODS** SM 2120 B-2001(2011) **SCYMBAL**

Printed 10/12/2018 8:53:25 AM Superset Reference:18-0000481349 rev 00

Analyst Summary report

Client: New York State DEC

Project: LCI 2018/LCI2018 Service Request: R1809020

Sample Name: 18BLK305

Lab Code: R1809020-017

Sample Matrix: Water **Date Collected:** 09/18/18

Date Received: 09/19/18

Analysis Method

SM 2320 B-1997(2011) SM 5310 C-2000(2011)

SM20 10200 H

Extracted/Digested By

CWOODS CWOODS

Analyzed By

JQUACKENBUSH

Sample Name: 18BLK305 Diss Lab Code: R1809020-018

Sample Matrix: Water **Date Collected:** 09/18/18

Date Received: 09/19/18

Analysis Method

365.1

18BLK306

Sample Name: Lab Code:

R1809020-019

Sample Matrix: Water

Analyzed By Extracted/Digested By KWONG

GNITAJOUPPI

Date Collected: 09/18/18

Date Received: 09/19/18

Analysis Method

351.2 353.2

365.1

ASTM D6919-09

Lab Code:

365.1

SM 2120 B-2001(2011)

SM 5310 C-2000(2011)

Analyzed By Extracted/Digested By

NSMITH GNITAJOUPPI

MROGERSON

GNITAJOUPPI

CWOODS SCYMBAL

CWOODS

Sample Name: 18BLK306 Diss

Sample Matrix: Water **Date Collected:** 09/18/18

Date Received: 09/19/18

Analysis Method

R1809020-020

Extracted/Digested By

KWONG

KWONG

Analyzed By

GNITAJOUPPI

Printed 10/12/2018 8:53:25 AM

Superset Reference:18-0000481349 rev 00

Analyst Summary report

Client: New York State DEC Service Request: R1809020

Project: LCI 2018/LCI2018

 Sample Name:
 18BLK311
 Date Collected: 09/18/18

 Lab Code:
 R1809020-021
 Date Received: 09/19/18

Sample Matrix: Water

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

 Sample Name:
 18BLK311 Diss
 Date Collected:
 09/18/18

 Lab Code:
 R1809020-022
 Date Received:
 09/19/18

Sample Matrix: Water

Analysis MethodExtracted/Digested ByAnalyzed By365.1KWONGGNITAJOUPPI

 Sample Name:
 18BLK399
 Date Collected:
 09/18/18

 Lab Code:
 R1809020-023
 Date Received:
 09/19/18

Sample Matrix: Water

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

Analyst Summary report

Client: New York State DEC

Project: LCI 2018/LCI2018

Service Request: R1809020

 Sample Name:
 18BLK399 Diss
 Date Collected: 09/18/18

 Lab Code:
 R1809020-024
 Date Received: 09/19/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI

Sample Name: 18BLK398 Date Collected: 09/18/18

Lab Code: R1809020-025 **Date Received:** 09/19/18

Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

351.2 NSMITH GNITAJOUPPI

353.2 MROGERSON

365.1 KWONG GNITAJOUPPI

ASTM D6919-09 CWOODS SM 2120 B-2001(2011) SCYMBAL

SM 2320 B-1997(2011) CWOODS

SM20 10200 H JQUACKENBUSH

Sample Name: 18BLK398 Diss Date Collected: 09/18/18

Lab Code: R1809020-026 Date Received: 09/19/18
Sample Matrix: Water

Analysis Method Extracted/Digested By Analyzed By

365.1 KWONG GNITAJOUPPI



INORGANIC PREPARATION METHODS

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

Water/Liquid Matrix

Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid	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

Solid/Soil/Non-Aqueous Matrix

Analytical Method	Preparation Method
60106	
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

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General Chemistry

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

Analytical Report

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

LCI 2018/LCI2018

Sample Matrix: Water

Sample Name:

Date Received: 09/19/18 17:00

Service Request: R1809020 **Date Collected:** 09/17/18 10:40

18BLK301 Basis: NA

Lab Code: R1809020-001

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	16.0	mg/L	2.0	1	09/25/18 07:59	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	09/23/18 12:07	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	4.7	mg/L	1.0	1	09/21/18 18:31	NA	
Chlorophyll A	SM20 10200 H	0.817	ug/L	0.040	1	09/27/18 13:28	NA	
Color, True	SM 2120 B-2001(2011)	12.0	ColorUnits	1.0	1	09/20/18 10:00	NA	*
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/27/18 16:47	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.52	mg/L	0.10	1	09/27/18 11:57	09/26/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.28	pH Units	-	1	09/24/18 15:00	NA	*
Phosphorus, Total	365.1	0.0050 U	mg/L	0.0050	1	09/28/18 18:29	09/27/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1809020

Date Collected: 09/17/18 10:40

Date Received: 09/19/18 17:00

Sample Name: 18BLK301 Diss Lab Code:

Basis: NA R1809020-002

Analysis

Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/28/18 16:35	09/27/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Date Received: 09/19/18 17:00

Service Request: R1809020

Date Collected: 09/17/18 10:50

Sample Name: 18BLK302 Basis: NA

Lab Code: R1809020-003

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.135	mg/L	0.0050	1	09/23/18 12:23	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	4.1	mg/L	1.0	1	09/21/18 18:51	NA	
Color, True	SM 2120 B-2001(2011)	23.0	ColorUnits	1.0	1	09/20/18 10:00	NA	*
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/27/18 16:49	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.54	mg/L	0.10	1	09/27/18 11:58	09/26/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.01	pH Units	-	1	09/24/18 15:00	NA	*
Phosphorus, Total	365.1	0.0133	mg/L	0.0050	1	09/28/18 18:32	09/27/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1809020

Date Collected: 09/17/18 10:50

Date Received: 09/19/18 17:00

Sample Name: 18BLK302 Diss Basis: NA

Lab Code: R1809020-004

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/28/18 16:36	09/27/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Sample Name:

18BLK303 Basis: NA

Lab Code: R1809020-005

Inorganic Parameters

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	15.2	mg/L	2.0	1	09/25/18 08:03	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	09/23/18 12:39	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	4.2	mg/L	1.0	1	09/21/18 19:12	NA	
Chlorophyll A	SM20 10200 H	0.770	ug/L	0.040	1	09/27/18 13:28	NA	
Color, True	SM 2120 B-2001(2011)	16.0	ColorUnits	1.0	1	09/20/18 10:00	NA	*
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/27/18 16:50	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.42	mg/L	0.10	1	09/27/18 11:58	09/26/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.19	pH Units	-	1	09/24/18 15:00	NA	*
Phosphorus, Total	365.1	0.0050 U	mg/L	0.0050	1	09/28/18 18:33	09/27/18	

Service Request: R1809020 **Date Collected:** 09/17/18 12:35

Date Received: 09/19/18 17:00

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

 York State DEC
 Service Request: R1809020

 018/LCI2018
 Date Collected: 09/17/18 12:35

Date Received: 09/19/18 17:00

Sample Name: 18BLK303 Diss Basis: NA

Lab Code: R1809020-006

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/28/18 16:37	09/27/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Service Request: R1809020

Date Collected: 09/17/18 12:45

Date Received: 09/19/18 17:00

Sample Name: 18BLK304 Basis: NA

Lab Code: R1809020-007

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0283	mg/L	0.0050	1	09/23/18 12:55	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	4.2	mg/L	1.0	1	09/21/18 20:36	NA	
Color, True	SM 2120 B-2001(2011)	48.0	ColorUnits	1.0	1	09/20/18 10:00	NA	*
Nitrate+Nitrite as Nitrogen	353.2	0.165	mg/L	0.0020	1	09/27/18 16:53	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.27	mg/L	0.10	1	09/27/18 11:59	09/26/18	
pH of Color Analysis	SM 2120 B-2001(2011)	6.78	pH Units	-	1	09/24/18 15:00	NA	*
Phosphorus, Total	365.1	0.0237	mg/L	0.0050	1	09/28/18 18:34	09/27/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: V

Water

Service Request: R1809020

Date Collected: 09/17/18 12:45

Date Received: 09/19/18 17:00

Sample Name: 18BLK304 Diss

Lab Code: R1809020-008

Basis: NA

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus Dissolved	365.1	0.0068	mg/I	0.0050	1	09/28/18 16:40	09/27/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Sample Name: 18BLK307 Basis: NA

Lab Code: R1809020-009

Inorganic Parameters

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	5.6	mg/L	2.0	1	09/25/18 08:07	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	09/23/18 13:11	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	6.0	mg/L	1.0	1	09/21/18 21:39	NA	
Chlorophyll A	SM20 10200 H	1.28	ug/L	0.053	1	09/27/18 13:28	NA	
Color, True	SM 2120 B-2001(2011)	38.0	ColorUnits	1.0	1	09/20/18 10:00	NA	*
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/27/18 16:57	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.50	mg/L	0.10	1	09/27/18 12:01	09/26/18	
pH of Color Analysis	SM 2120 B-2001(2011)	6.61	pH Units	-	1	09/24/18 15:00	NA	*
Phosphorus, Total	365.1	0.0062	mg/L	0.0050	1	09/28/18 18:36	09/27/18	

Service Request: R1809020 **Date Collected:** 09/17/18 15:10

Date Received: 09/19/18 17:00

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Date Collected: 09/17/18 15:10

Service Request: R1809020

Date Received: 09/19/18 17:00

Sample Name: 18BLK307 Diss

Lab Code: R1809020-010 Basis: NA

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/28/18 16:42	09/27/18	

Analytical Report

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

LCI 2018/LCI2018

Sample Matrix: Water Service Request: R1809020

Date Collected: 09/17/18 15:15

Date Received: 09/19/18 17:00

Basis: NA

Sample Name: 18BLK308

Lab Code: R1809020-011

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.490	mg/L	0.0050	1	09/23/18 13:27	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.9	mg/L	1.0	1	09/21/18 22:00	NA	
Color, True	SM 2120 B-2001(2011)	320	ColorUnits	10	10	09/20/18 10:00	NA	*
Nitrate+Nitrite as Nitrogen	353.2	0.0093	mg/L	0.0020	1	09/27/18 17:01	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.97	mg/L	0.10	1	09/27/18 12:02	09/26/18	
pH of Color Analysis	SM 2120 B-2001(2011)	6.67	pH Units	-	10	09/24/18 15:00	NA	*
Phosphorus, Total	365.1	0.0189	mg/L	0.0050	1	09/28/18 18:37	09/27/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1809020

Date Collected: 09/17/18 15:15

Date Received: 09/19/18 17:00

Sample Name: 18BLK308 Diss

Lab Code: R1809020-012

Basis: NA

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0060	mg/L	0.0050	1	09/28/18 16:43	09/27/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Water

te DEC Service Request: R1809020
2018 Date Collected: 09/18/18 08:15

Date Received: 09/19/18 17:00

Sample Name: 18BLK313 Basis: NA

Lab Code: R1809020-013

Sample Matrix:

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	09/25/18 08:10	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	09/23/18 13:43	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	3.4	mg/L	1.0	1	09/21/18 22:21	NA	
Chlorophyll A	SM20 10200 H	0.995	ug/L	0.040	1	09/27/18 13:28	NA	
Color, True	SM 2120 B-2001(2011)	17.0	ColorUnits	1.0	1	09/20/18 10:00	NA	*
Nitrate+Nitrite as Nitrogen	353.2	0.0146	mg/L	0.0020	1	09/27/18 17:03	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.36	mg/L	0.10	1	09/27/18 12:03	09/26/18	
pH of Color Analysis	SM 2120 B-2001(2011)	6.48	pH Units	-	1	09/24/18 15:00	NA	*
Phosphorus, Total	365.1	0.0050 U	mg/L	0.0050	1	09/28/18 18:38	09/27/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1809020

Date Collected: 09/18/18 08:15

Basis: NA

Date Received: 09/19/18 17:00

Sample Name: 18BLK313 Diss

Lab Code: R1809020-014

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/28/18 16:44	09/27/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Service Request: R1809020

Date Collected: 09/18/18 08:25

Basis: NA

Date Received: 09/19/18 17:00

Sample Name: 18BLK314

Lab Code: R1809020-015

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.160	mg/L	0.0050	1	09/23/18 13:59	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	3.6	mg/L	1.0	1	09/21/18 22:42	NA	
Color, True	SM 2120 B-2001(2011)	47.0	ColorUnits	1.0	1	09/20/18 10:00	NA	*
Nitrate+Nitrite as Nitrogen	353.2	0.0914	mg/L	0.0020	1	09/27/18 17:04	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.46	mg/L	0.10	1	09/27/18 12:03	09/26/18	
pH of Color Analysis	SM 2120 B-2001(2011)	6.24	pH Units	-	1	09/24/18 15:00	NA	*
Phosphorus, Total	365.1	0.0078	mg/L	0.0050	1	09/28/18 18:41	09/27/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: W

Water

Service Request: R1809020

Date Collected: 09/18/18 08:25

Date Received: 09/19/18 17:00

Sample Name: 18BLK314 Diss

Lab Code: R1809020-016

Basis: NA

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/28/18 16:45	09/27/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Sample Name:

18BLK305

Lab Code: R1809020-017

Service Request: R1809020

Date Collected: 09/18/18 10:08

Date Received: 09/19/18 17:00

Basis: NA

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	4.0	mg/L	2.0	1	09/25/18 08:22	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0056	mg/L	0.0050	1	09/23/18 18:48	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	7.3	mg/L	1.0	1	09/21/18 23:02	NA	
Chlorophyll A	SM20 10200 H	4.60	ug/L	0.32	4	09/27/18 13:28	NA	
Color, True	SM 2120 B-2001(2011)	52.0	ColorUnits	1.0	1	09/20/18 10:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/27/18 17:05	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.61	mg/L	0.10	1	09/27/18 12:04	09/26/18	
pH of Color Analysis	SM 2120 B-2001(2011)	6.69	pH Units	-	1	09/24/18 15:00	NA	*
Phosphorus, Total	365.1	0.0072	mg/L	0.0050	1	09/28/18 18:42	09/27/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1809020

Date Collected: 09/18/18 10:08

Date Received: 09/19/18 17:00

Sample Name: 18BLK305 Diss Basis: NA

Lab Code: R1809020-018

Inorganic Parameters

Analysis

Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/28/18 16:46	09/27/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Service Request: R1809020

Date Collected: 09/18/18 10:15

Date Received: 09/19/18 17:00

Sample Name: 18BLK306 Basis: NA

Lab Code: R1809020-019

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.296	mg/L	0.0050	1	09/23/18 19:04	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	7.6	mg/L	1.0	1	09/22/18 00:47	NA	
Color, True	SM 2120 B-2001(2011)	210	ColorUnits	10	10	09/20/18 10:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0080	mg/L	0.0020	1	09/27/18 17:07	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.73	mg/L	0.10	1	09/27/18 12:05	09/26/18	
pH of Color Analysis	SM 2120 B-2001(2011)	6.54	pH Units	-	10	09/24/18 15:00	NA	*
Phosphorus, Total	365.1	0.0165	mg/L	0.0050	1	09/28/18 18:43	09/27/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1809020

Date Collected: 09/18/18 10:15

Date Received: 09/19/18 17:00

Sample Name: 18BLK306 Diss Basis: NA

Lab Code: R1809020-020

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0064	mg/L	0.0050	1	09/28/18 16:47	09/27/18	

Analytical Report

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

LCI 2018/LCI2018

Sample Matrix: Water

Sample Name:

18BLK311 Basis: NA

Lab Code: R1809020-021

Inorganic Parameters

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	18.4	mg/L	2.0	1	09/25/18 08:26	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0078	mg/L	0.0050	1	09/23/18 16:07	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	15.8	mg/L	1.0	1	09/22/18 01:08	NA	
Chlorophyll A	SM20 10200 H	3.80	ug/L	0.16	1	09/27/18 13:28	NA	
Color, True	SM 2120 B-2001(2011)	160	ColorUnits	10	10	09/20/18 10:00	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/27/18 17:08	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.90	mg/L	0.10	1	09/27/18 12:05	09/26/18	
pH of Color Analysis	SM 2120 B-2001(2011)	7.04	pH Units	-	10	09/24/18 15:00	NA	*
Phosphorus, Total	365.1	0.0232	mg/L	0.0050	1	09/28/18 18:45	09/27/18	

Service Request: R1809020 **Date Collected:** 09/18/18 11:53

Date Received: 09/19/18 17:00

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: W

Water

Service Request: R1809020

Date Collected: 09/18/18 11:53

Date Received: 09/19/18 17:00

Sample Name: 18BLK311 Diss Basis: NA

Lab Code: R1809020-022

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0098	mg/L	0.0050	1	09/28/18 16:48	09/27/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Water

Sample Name: 18BLK399 Basis: NA

Lab Code: R1809020-023

Sample Matrix:

Inorganic Parameters

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.159	mg/L	0.0050	1	09/23/18 16:23	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	3.6	mg/L	1.0	1	09/22/18 01:29	NA	
Color, True	SM 2120 B-2001(2011)	44.0	ColorUnits	1.0	1	09/20/18 10:00	NA	*
Nitrate+Nitrite as Nitrogen	353.2	0.0913	mg/L	0.0020	1	09/27/18 17:09	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.40	mg/L	0.10	1	09/27/18 14:28	09/26/18	
pH of Color Analysis	SM 2120 B-2001(2011)	6.29	pH Units	-	1	09/24/18 15:00	NA	*
Phosphorus, Total	365.1	0.0083	mg/L	0.0050	1	09/28/18 18:46	09/27/18	

Service Request: R1809020 **Date Collected:** 09/18/18 08:25

Date Received: 09/19/18 17:00

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Lab Code:

Water

Service Request: R1809020

Date Collected: 09/18/18 08:25

Date Received: 09/19/18 17:00

Sample Name: 18BLK399 Diss

R1809020-024

Basis: NA

	Analysis							
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus Dissolved	365.1	0.0050 II	mg/I	0.0050	1	09/28/18 16:49	09/27/18	

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Date Collected: 09/18/18 11:53 **Date Received:** 09/19/18 17:00

Service Request: R1809020

Sample Matrix: Water

Sample Name:

18BLK398 Basis: NA

Lab Code: R1809020-025

						Date	
Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	09/25/18 08:29	NA	
ASTM D6919-09	0.0050 U	mg/L	0.0050	1	09/23/18 16:39	NA	
SM20 10200 H	0.16 U	ug/L	0.16	1	09/27/18 13:28	NA	
SM 2120 B-2001(2011)	8.0	ColorUnits	1.0	1	09/20/18 10:00	NA	
353.2	0.0040 U	mg/L	0.0040	2	09/27/18 18:16	NA	
351.2	0.19	mg/L	0.10	1	09/27/18 14:01	09/26/18	
SM 2120 B-2001(2011)	6.58	pH Units	-	1	09/24/18 15:00	NA	*
365.1	0.010 U	mg/L	0.010	2	09/28/18 19:05	09/27/18	
	SM 2320 B-1997(2011) ASTM D6919-09 SM20 10200 H SM 2120 B-2001(2011) 353.2 351.2 SM 2120 B-2001(2011)	SM 2320 B-1997(2011) 2.0 U ASTM D6919-09 0.0050 U SM20 10200 H 0.16 U SM 2120 B-2001(2011) 8.0 353.2 0.0040 U 351.2 0.19 SM 2120 B-2001(2011) 6.58	SM 2320 B-1997(2011) 2.0 U mg/L ASTM D6919-09 0.0050 U mg/L SM20 10200 H 0.16 U ug/L SM 2120 B-2001(2011) 8.0 ColorUnits 353.2 0.0040 U mg/L 351.2 0.19 mg/L SM 2120 B-2001(2011) 6.58 pH Units	SM 2320 B-1997(2011) 2.0 U mg/L 2.0 ASTM D6919-09 0.0050 U mg/L 0.0050 SM20 10200 H 0.16 U ug/L 0.16 SM 2120 B-2001(2011) 8.0 ColorUnits 1.0 353.2 0.0040 U mg/L 0.0040 351.2 0.19 mg/L 0.10 SM 2120 B-2001(2011) 6.58 pH Units -	SM 2320 B-1997(2011) 2.0 U mg/L 2.0 U 1 ASTM D6919-09 0.0050 U mg/L 0.0050 U 1 SM20 10200 H 0.16 U ug/L 0.16 I 1 SM 2120 B-2001(2011) 8.0 ColorUnits 1.0 I 1 1 353.2 0.0040 U mg/L 0.0040 Z 0.0040 U 0.0040 U 0.0040 U 1 SM 2120 B-2001(2011) 6.58 pH Units - 1 1	SM 2320 B-1997(2011) 2.0 U mg/L 2.0 U 09/25/18 08:29 ASTM D6919-09 0.0050 U mg/L 0.0050 I 09/23/18 16:39 SM20 10200 H 0.16 U ug/L 0.16 I 09/27/18 13:28 SM 2120 B-2001(2011) 8.0 ColorUnits 1.0 I 09/20/18 10:00 353.2 0.0040 U mg/L 0.0040 Z 09/27/18 18:16 351.2 0.19 mg/L 0.10 I 09/27/18 14:01 SM 2120 B-2001(2011) 6.58 pH Units - I 09/24/18 15:00	Analysis Method Result Units MRL Dil. Date Analyzed Extracted SM 2320 B-1997(2011) 2.0 U mg/L 2.0 I 09/25/18 08:29 NA ASTM D6919-09 0.0050 U mg/L 0.0050 I 09/23/18 16:39 NA SM20 10200 H 0.16 U ug/L 0.16 I 09/27/18 13:28 NA SM 2120 B-2001(2011) 8.0 ColorUnits 1.0 I 09/20/18 10:00 NA 353.2 0.0040 U mg/L 0.0040 U 2 09/27/18 18:16 NA 351.2 SM 2120 B-2001(2011) 6.58 PH Units - 1 09/24/18 15:00 NA

Analytical Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix:

Water

Service Request: R1809020

Date Collected: 09/18/18 11:53

Date Received: 09/19/18 17:00

Sample Name: 18BLK398 Diss Basis: NA

Lab Code: R1809020-026

	Analysis	.		1.50.5	7. 11			
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/28/18 18:50	09/27/18	



QC Summary Forms

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



General Chemistry

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Analytical Report

Client: New York State DEC Service Request: R1809020

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

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

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

Lab Code: R1809020-MB1

							Date		
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q	
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	09/25/18 07:18	NA		
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	09/23/18 08:22	NA		
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	09/21/18 06:49	NA		
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/27/18 16:11	NA		
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10 U	mg/L	0.10	1	09/27/18 11:45	09/26/18		
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/28/18 16:27	09/27/18		
Phosphorus, Total	365.1	0.0050 U	mg/L	0.0050	1	09/28/18 18:15	09/27/18		

Analytical Report

Client: New York State DEC Service Request: R1809020

Date Collected: NA **Project:** LCI 2018/LCI2018 Date Received: NA **Sample Matrix:** Water

Basis: NA

Sample Name: Method Blank Lab Code: R1809020-MB2

							Date	
Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050 U	mg/L	0.0050	1	09/23/18 14:47	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	09/21/18 19:54	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	mg/L	0.0020	1	09/27/18 16:43	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10 U	mg/L	0.10	1	09/27/18 13:57	09/26/18	

QA/QC Report

 Client:
 New York State DEC
 Service Request:
 R1809020

 Project:
 LCI 2018/LCI2018
 Date Collected:
 09/17/18

 Sample Matrix:
 Water
 Date Received:
 09/19/18

 Date Analyzed:
 09/28/18

Date Extracted: 09/27/18

mg/L

NA

Duplicate Matrix Spike Summary Phosphorus, Total

18BLK301 **Units:** R1809020-001 **Basis:**

Analysis Method: 365.1 **Prep Method:** Method

Sample Name:

Lab Code:

Matrix SpikeDuplicate Matrix SpikeR1809020-001MSR1809020-001DMS

Sample Spike Spike 9/2 Page

	Sample		Spike			Spike		% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Phosphorus, Total	0.0050 U	0.0265	0.0250	106	0.0262	0.0250	105	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.

QA/QC Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

(TOC)

Service Request:R1809020

Date Collected:09/17/18 **Date Received:**09/19/18

Date Analyzed:09/21/18 - 09/27/18

Duplicate Matrix Spike Summary General Chemistry Parameters

 Sample Name:
 18BLK304
 Units:mg/L

 Lab Code:
 R1809020-007
 Basis:NA

Matrix SpikeDuplicate Matrix SpikeR1809020-007MSR1809020-007DMS

Sample Spike % Spike % % Rec **RPD Analyte Name** Method Result Result **Amount** Rec Result **Amount** Rec Limits RPD Limit Nitrate+Nitrite as Nitrogen 353.2 0.165 0.500 98 0.500 98 20 0.656 0.657 75-125 Carbon, Total Organic 4.2 16.2 10.0 10.0 75-125 20 SM 5310 C-2000(2011) 120 16.2 120 <1

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.

Printed 10/12/2018 8:53:27 AM

QA/QC Report

Client: New York State DEC **Service Request:** R1809020 **Project:** LCI 2018/LCI2018 **Date Collected:** 09/18/18 **Sample Matrix:** Water **Date Received:** 09/19/18 09/21/18

Date Analyzed:

Duplicate Matrix Spike Summary Carbon, Total Organic (TOC)

Sample Name: 18BLK305 Lab Code:

Units: Basis: mg/LNA

Analysis Method:

R1809020-017

SM 5310 C-2000(2011)

Matrix Spike R1809020-017MS **Duplicate Matrix Spike**

R1809020-017DMS

	Sample		Spike			Spike		% Rec		RPD
Analyte Name	Result	Result	Amount	% Rec	Result	Amount	% Rec	Limits	RPD	Limit
Carbon, Total Organic (TOC)	7.3	20.1	10.0	128 *	19.5	10.0	122	75-125	3	20

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

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

 Client:
 New York State DEC
 Service Request:
 R1809020

 Project:
 LCI 2018/LCI2018
 Date Collected:
 09/18/18

 Sample Matrix:
 Water
 Date Received:
 09/19/18

 Date Analyzed:
 09/28/18

Date Analyzed: 09/28/18 **Date Extracted:** 09/27/18

Duplicate Matrix Spike Summary Phosphorus, Total

18BLK399 **Units:** mg/L R1809020-023 **Basis:** NA

Analysis Method: 365.1 **Prep Method:** Method

Sample Name:

Lab Code:

Matrix Spike Duplicate Matrix Spike

R1809020-023MS R1809020-023DMS

RPD Sample Spike **Spike** % Rec Analyte Name Result Result Amount % Rec Result Amount % Rec Limits **RPD** Limit Phosphorus, Total 0.0083 0.0285 0.0250 0.0291 0.0250 20 75-125

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

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

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

Froject: LCI 2018/LCI2018

Sample Matrix: Water

Service Request:R1809020

Date Collected:09/18/18 **Date Received:**09/19/18

Date Analyzed: 09/23/18 - 09/27/18

Duplicate Matrix Spike Summary General Chemistry Parameters

 Sample Name:
 18BLK398
 Units:mg/L

 Lab Code:
 R1809020-025
 Basis:NA

Matrix SpikeDuplicate Matrix SpikeR1809020-025MSR1809020-025DMS

		Sample		Spike	%		Spike	%	% Rec		RPD
Analyte Name	Method	Result	Result	Amount	Rec	Result	Amount	Rec	Limits	RPD	Limit
Ammonia as Nitrogen, undistilled A	STM D6919-09	0.0050 U	0.554	0.500	111	0.546	0.500	109	75-125	1	20
Nitrate+Nitrite as Nitrogen	353.2	0.0040 U	1.02	1.00	102	1.01	1.00	101	75-125	<1	20
Nitrogen, Total Kjeldahl (TKN)	351.2	0.19	2.63	2.50	98	2.64	2.50	98	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.

QA/QC Report

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

Water

LCI 2018/LCI2018

Service Request: Date Collected:

R1809020

Date Received:

09/18/18 09/19/18 09/28/18

Date Analyzed: **Date Extracted:**

09/27/18

Duplicate Matrix Spike Summary Phosphorus, Dissolved

Sample Name: Lab Code:

Sample Matrix:

18BLK398 Diss R1809020-026

Units: Basis:

mg/L NA

Analysis Method:

Prep Method:

365.1 Method

Duplicate Matrix Spike

Matrix Spike R1809020-026MS

R1809020-026DMS

RPD Sample Spike Spike % Rec Analyte Name Result Result Amount % Rec Result Amount % Rec Limits **RPD** Limit Phosphorus, Dissolved 0.0050 U 0.0236 0.0250 0.0222 0.0250 89 20 75-125

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

Results flagged with a pound (#) indicate the control criteria is not applicable.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: New York State DEC **Project**

LCI 2018/LCI2018

Service Request: R1809020 **Date Collected:** 09/18/18

Sample Matrix:

Water

Date Received: 09/19/18 **Date Analyzed:** 09/20/18

Replicate Sample Summary General Chemistry Parameters

Sample Name:

18BLK398

Units: ColorUnits

Lab Code:

R1809020-025

Basis: NA

Duplicate Sample

R1809020-

025DUP

Analysis Method Analyte Name Color, True

MRL SM 2120 B-2001(2011) 1.0

Sample Result 8.0

Result 8.0

Average 8.00

RPD Limit

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

Results flagged with a pound (#) indicate the control criteria is not applicable.

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: New York State DEC

Project

ew York State DEC Service Request: R1809020

LCI 2018/LCI2018 **Date Collected:** 09/18/18

Sample Matrix:WaterDate Received:09/19/18Date Analyzed:09/24/18

Replicate Sample Summary

General Chemistry Parameters

Sample Name: 18BLK398 Units: pH Units

Lab Code: R1809020-025 **Basis:** NA

Duplicate Sample

R1809020-

Sample 025DUP

Analyte NameAnalysis MethodMRLResultResultAverageRPDRPD LimitpH of Color AnalysisSM 2120 B-2001(2011)-6.586.586.58<1</td>20

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

Results flagged with a pound (#) indicate the control criteria is not applicable.

QA/QC Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Service Request: R1809020

Date Analyzed: 09/21/18 - 09/28/18

Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Lab Control Sample R1809020-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	21.2	20.0	106	70-130
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.491	0.500	98	70-130
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.1	10.0	101	70-130
Nitrate+Nitrite as Nitrogen	353.2	0.516	0.500	103	70-130
Nitrogen, Total Kjeldahl (TKN)	351.2	2.26	2.50	90	70-130
Phosphorus, Dissolved	365.1	0.0242	0.0250	97	70-130
Phosphorus, Total	365.1	0.0231	0.0250	92	70-130

QA/QC Report

Client: New York State DEC

Project: LCI 2018/LCI2018

Sample Matrix: Water

Service Request: R1809020

Date Analyzed: 09/21/18 - 09/27/18

Lab Control Sample Summary General Chemistry Parameters

Units:mg/L Basis:NA

Lab Control Sample R1809020-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.549	0.500	110	70-130
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.62	10.0	96	70-130
Nitrate+Nitrite as Nitrogen	353.2	0.508	0.500	102	70-130
Nitrogen, Total Kjeldahl (TKN)	351.2	2.47	2.50	99	70-130