September 17, 2018 Service Request No:R1808108

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 August 23, 2018
For your reference, these analyses have been assigned our service request number **R1808108.**

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

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

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Janice Jaeger
Project Manager

CC: Jason Fagel

ADDRESS 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
PHONE +1 585 288 5380 | FAX +1 585 288 8475
ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

ALS Environmental

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

Service Request: R1808108
Date Received: 08/23/2018

CASE NARRATIVE

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

Sample Receipt:

Twenty six water samples were received for analysis at ALS Environmental on 08/23/2018. 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 SM 2120 B-2001(2011), One or more samples were received past the recommended holding time. The customer was notified when the discrepancy was found and instructed the laboratory to proceed with processing. The analysis was performed as soon as possible after receipt by the laboratory. The data is flagged to indicate the holding time violation.

Approved by _____ Date 09/17/2018

SAMPLE DETECTION SUMMARY

CLIENT ID: 18BLK213			Lab ID: R1808108-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Ammonia as Nitrogen, undistilled	0.0066		0.0008	0.0050	mg/L	ASTM D6919-09
Carbon, Total Organic (TOC)	3.4		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chlorophyll A	1.26			0.040	ug/L	SM20 10200 H
Color, True	16.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Nitrate+Nitrite as Nitrogen	0.0278		0.0007	0.0020	mg/L	353.2
Nitrogen, Total Kjeldahl (TKN)	0.29		0.08	0.10	mg/L	351.2
pH of Color Analysis	6.39				pH Units	SM 2120 B-2001 (2011)
Phosphorus, Total	0.0055		0.0020	0.0050	mg/L	365.1

CLIENT ID: 18BLK214			Lab ID: R1808108-003			
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)	3.4		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Color, True	33.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Nitrate+Nitrite as Nitrogen	0.0800		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	6.65				pH Units	SM 2120 B-2001 (2011)
Phosphorus, Total	0.0104		0.0020	0.0050	mg/L	365.1

CLIENT ID: 18BLK214 Diss			Lab ID: R1808108-004			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Phosphorus, Dissolved	0.0056		0.0020	0.0050	mg/L	365.1

CLIENT ID: 18BLK205			Lab ID: R1808108-005			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	7.2		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen, undistilled	0.0107		0.0008	0.0050	mg/L	ASTM D6919-09
Carbon, Total Organic (TOC)	7.4		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chlorophyll A	3.29			0.080	ug/L	SM20 10200 H
Color, True	38.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Nitrate+Nitrite as Nitrogen	0.0037		0.0007	0.0020	mg/L	353.2
Nitrogen, Total Kjeldahl (TKN)	0.52		0.08	0.10	mg/L	351.2
pH of Color Analysis	4.70				pH Units	SM 2120 B-2001 (2011)
Phosphorus, Total	0.0109		0.0020	0.0050	mg/L	365.1

CLIENT ID: 18BLK205 Diss			Lab ID: R1808108-006			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Phosphorus, Dissolved	0.0062		0.0020	0.0050	mg/L	365.1

SAMPLE DETECTION SUMMARY

CLIENT ID: 18BLK205 Diss			Lab ID: R1808108-006			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**

CLIENT ID: 18BLK206			Lab ID: R1808108-007			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Ammonia as Nitrogen, undistilled	0.110		0.0008	0.0050	mg/L	ASTM D6919-09
Carbon, Total Organic (TOC)	6.1		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Color, True	57.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Nitrate+Nitrite as Nitrogen	0.0133		0.0007	0.0020	mg/L	353.2
Nitrogen, Total Kjeldahl (TKN)	0.42		0.08	0.10	mg/L	351.2
pH of Color Analysis	6.72				pH Units	SM 2120 B-2001 (2011)
Phosphorus, Total	0.0153		0.0020	0.0050	mg/L	365.1

CLIENT ID: 18BLK206 Diss			Lab ID: R1808108-008			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Phosphorus, Dissolved	0.0080		0.0020	0.0050	mg/L	365.1

CLIENT ID: 18BLK299			Lab ID: R1808108-009			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Ammonia as Nitrogen, undistilled	0.111		0.0008	0.0050	mg/L	ASTM D6919-09
Carbon, Total Organic (TOC)	6.2		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Color, True	85.0			5.0	ColorUnits	SM 2120 B-2001 (2011)
Nitrate+Nitrite as Nitrogen	0.0133		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	6.90				pH Units	SM 2120 B-2001 (2011)
Phosphorus, Total	0.0155		0.0020	0.0050	mg/L	365.1

CLIENT ID: 18BLK299 Diss			Lab ID: R1808108-010			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Phosphorus, Dissolved	0.0063		0.0020	0.0050	mg/L	365.1

CLIENT ID: 18BLK211			Lab ID: R1808108-011			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	16.4		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen, undistilled	0.0092		0.0008	0.0050	mg/L	ASTM D6919-09
Carbon, Total Organic (TOC)	14.9		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chlorophyll A	13.4			0.64	ug/L	SM20 10200 H
Color, True	190			10	ColorUnits	SM 2120 B-2001 (2011)
Nitrate+Nitrite as Nitrogen	0.0034		0.0007	0.0020	mg/L	353.2
Nitrogen, Total Kjeldahl (TKN)	0.78		0.08	0.10	mg/L	351.2

SAMPLE DETECTION SUMMARY

CLIENT ID: 18BLK211			Lab ID: R1808108-011			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
pH of Color Analysis	7.06				pH Units	SM 2120 B-2001 (2011)
Phosphorus, Total	0.0289		0.0020	0.0050	mg/L	365.1

CLIENT ID: 18BLK211 Diss			Lab ID: R1808108-012			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Phosphorus, Dissolved	0.0142		0.0020	0.0050	mg/L	365.1

CLIENT ID: 18BLK203			Lab ID: R1808108-013			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	12.4		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon, Total Organic (TOC)	4.4		0.09	2.0	mg/L	SM 5310 C-2000 (2011)
Chlorophyll A	1.11			0.040	ug/L	SM20 10200 H
Color, True	15.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Nitrogen, Total Kjeldahl (TKN)	0.29		0.08	0.10	mg/L	351.2
pH of Color Analysis	6.99				pH Units	SM 2120 B-2001 (2011)
Phosphorus, Total	0.0078		0.0020	0.0050	mg/L	365.1

CLIENT ID: 18BLK204			Lab ID: R1808108-015			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Ammonia as Nitrogen, undistilled	0.0877		0.0008	0.0050	mg/L	ASTM D6919-09
Carbon, Total Organic (TOC)	4.4		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Color, True	50.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Nitrate+Nitrite as Nitrogen	0.120		0.0007	0.0020	mg/L	353.2
Nitrogen, Total Kjeldahl (TKN)	0.38		0.08	0.10	mg/L	351.2
pH of Color Analysis	7.03				pH Units	SM 2120 B-2001 (2011)
Phosphorus, Total	0.0165		0.0020	0.0050	mg/L	365.1

CLIENT ID: 18BLK204 Diss			Lab ID: R1808108-016			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Phosphorus, Dissolved	0.0090		0.0020	0.0050	mg/L	365.1

CLIENT ID: 18BLK201			Lab ID: R1808108-017			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	14.0		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	1.21			0.040	ug/L	SM20 10200 H
Color, True	16.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Nitrogen, Total Kjeldahl (TKN)	0.46		0.08	0.10	mg/L	351.2

SAMPLE DETECTION SUMMARY

CLIENT ID: 18BLK201			Lab ID: R1808108-017			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
pH of Color Analysis	7.42				pH Units	SM 2120 B-2001 (2011)
Phosphorus, Total	0.0084		0.0020	0.0050	mg/L	365.1

CLIENT ID: 18BLK202			Lab ID: R1808108-020			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Ammonia as Nitrogen, undistilled	0.0796		0.0008	0.0050	mg/L	ASTM D6919-09
Carbon, Total Organic (TOC)	3.9		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Color, True	19.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Nitrate+Nitrite as Nitrogen	0.0153		0.0007	0.0020	mg/L	353.2
Nitrogen, Total Kjeldahl (TKN)	0.35		0.08	0.10	mg/L	351.2
pH of Color Analysis	7.22				pH Units	SM 2120 B-2001 (2011)
Phosphorus, Total	0.0132		0.0020	0.0050	mg/L	365.1

CLIENT ID: 18BLK207			Lab ID: R1808108-022			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Alkalinity, Total as CaCO3	5.6		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Ammonia as Nitrogen, undistilled	0.0061		0.0008	0.0050	mg/L	ASTM D6919-09
Carbon, Total Organic (TOC)	6.2		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chlorophyll A	2.33			0.080	ug/L	SM20 10200 H
Color, True	35.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
Nitrogen, Total Kjeldahl (TKN)	0.32		0.08	0.10	mg/L	351.2
pH of Color Analysis	6.72				pH Units	SM 2120 B-2001 (2011)
Phosphorus, Total	0.0084		0.0020	0.0050	mg/L	365.1

CLIENT ID: 18BLK208			Lab ID: R1808108-024			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Ammonia as Nitrogen, undistilled	0.123		0.0008	0.0050	mg/L	ASTM D6919-09
Carbon, Total Organic (TOC)	7.0		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Color, True	120			5.0	ColorUnits	SM 2120 B-2001 (2011)
Nitrate+Nitrite as Nitrogen	0.0325		0.0007	0.0020	mg/L	353.2
Nitrogen, Total Kjeldahl (TKN)	0.44		0.08	0.10	mg/L	351.2
pH of Color Analysis	6.46				pH Units	SM 2120 B-2001 (2011)
Phosphorus, Total	0.0139		0.0020	0.0050	mg/L	365.1

CLIENT ID: 18BLK208 Diss			Lab ID: R1808108-025			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Phosphorus, Dissolved	0.0071		0.0020	0.0050	mg/L	365.1

SAMPLE DETECTION SUMMARY

CLIENT ID: 18BLK298			Lab ID: R1808108-026			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Carbon, Total Organic (TOC)	1.5		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Color, True	9.0			1.0	ColorUnits	SM 2120 B-2001 (2011)
pH of Color Analysis	6.51				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

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1808108-001	18BLK213	8/21/2018	1430
R1808108-002	18BLK213 Diss	8/21/2018	1430
R1808108-003	18BLK214	8/21/2018	1440
R1808108-004	18BLK214 Diss	8/21/2018	1440
R1808108-005	18BLK205	8/21/2018	1210
R1808108-006	18BLK205 Diss	8/21/2018	1210
R1808108-007	18BLK206	8/21/2018	1215
R1808108-008	18BLK206 Diss	8/21/2018	1215
R1808108-009	18BLK299	8/21/2018	1215
R1808108-010	18BLK299 Diss	8/21/2018	1215
R1808108-011	18BLK211	8/21/2018	1000
R1808108-012	18BLK211 Diss	8/21/2018	1000
R1808108-013	18BLK203	8/22/2018	1230
R1808108-014	18BLK203 Diss	8/22/2018	1230
R1808108-015	18BLK204	8/22/2018	1240
R1808108-016	18BLK204 Diss	8/22/2018	1240
R1808108-017	18BLK201	8/22/2018	0915
R1808108-019	18BLK201 Diss	8/22/2018	0915
R1808108-020	18BLK202	8/22/2018	0925
R1808108-021	18BLK202 Diss	8/22/2018	0925
R1808108-022	18BLK207	8/22/2018	1445
R1808108-023	18BLK207 Diss	8/22/2018	1445
R1808108-024	18BLK208	8/22/2018	1450
R1808108-025	18BLK208 Diss	8/22/2018	1450
R1808108-026	18BLK298	8/22/2018	1450
R1808108-027	18BLK298 Diss	8/22/2018	1450

CHAIN OF CUSTODY

New York State Department of Environmental Conservation – Division of Water

Project Name: LCI	**Project Number:** LCI2018	**NYSDEC SDG:**
Sampler Collector: Jason Kehrer	**Sampler Signature:**	**Sampler Phone No.:** (518) 402-0333
Project Manager: Alene Onion	**X Report to Project Manager** **Report to:**	**☐ Bill to Project Manager** **Bill to:** Jason Fagel
Address: 625 Broadway, 4th Floor Albany, NY 12233-3502	**Address:**	**Address:** 625 Broadway, 4th Floor Albany, NY 12233-3502
Phone: (518) 402-8166	**Phone:**	**Phone:** 518-402-8156
Email: alene.onion@dec.ny.gov	**Email:**	**Email:** Jason.fagel@dec.ny.gov

Matrix Codes:
WW = Wastewater
GW = Groundwater
AW = Ambient Water
SE = Sediment
SL = Sludge
T = Tissue
O = Other _____

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

NYSDEC LCI Sample ID	Collection Date	Collection Time	Matrix Code	No. of Containers	Analyses Ordered (list)														Location Info
					3			2			0	3		0				0		
					TP, NH4, NOx, TKN	TP, NH4, NOx, TKN, NO3 ANC	Dissolved TOP4	Fe, Mn, As,	Ca, Mg, Na, K ANC	Fe, Mn, As, Ca, Mg, Na, K	Color	TOC	DOC ANC	Alkalinity	SO4 & UV-254	SO4, Cl ANC	SO4, Cl, UV-254	Chlorophyll a | Vol (ml)		
18BLK213	8-21-18	14:30	AW	6	X		X				X	X		X				X	1000	Woodhill Epi
18BLK214	8-21-18	14:40	AW	4	X		X				X	X								Woodhill Hypo
18BLK205	8-21-18	12:10	AW	6	X		X				X	X		X				X	500	Long Epi
18BLK206	8-21-18	12:15	AW	4	X		X				X	X								Long Hypo
18BLK299	8-21-18	12:15	AW	4	X		X				X	X								Duplicate Hypo of 18BLK206
18BEK211	8-21-18	10:05	AW	6	X		X				X	X		X				X	250	

Special Analysis Instructions:

Relinquished by Sampler:	Date:	Time:	Received by:	Date:	Time:
	8-21-18	18:15	Brian McGuirk	8/23/18	11:00
Relinquished by:	**Date:**	**Time:**	**Received by:**	**Date:**	**Time:**
Brian McGuirk	340	8/22/18			
Relinquished by:	**Date:**	**Time:**	**Received by Laboratory:**	**Date:**	**Time:**
			ALS	8/23/18	1540

Laboratory Receipt Notes:

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

CHAIN OF CUSTODY

Page 1 of 1

New York State Department of Environmental Conservation – Division of Water

Project Name: LCI	**Project Number:** LCI2018	**NYSDEC SDG:**
Sampler Collector: Sara Gonzalez	**Sampler Signature:**	**Sampler Phone No.:** 845-216-9575
Project Manager: Alene Onion	**X Report to Project Manager** **Report to:**	**☐ Bill to Project Manager** **Bill to:** Jason Fagel
Address: 625 Broadway, 4th Floor Albany, NY 12233-3502	**Address:**	**Address:** 625 Broadway, 4th Floor Albany, NY 12233-3502
Phone: (518) 402-8166	**Phone:**	**Phone:** 518-402-8156
Email: alene.onion@dec.ny.gov	**Email:**	**Email:** Jason.fagel@dec.ny.gov

Matrix Codes:
WW = Wastewater
GW = Groundwater
AW = Ambient Water
SE = Sediment
SL = Sludge
T = Tissue
O = Other _____

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

NYSDEC LCI Sample ID	Collection Date	Collection Time	Matrix Code	No. of Containers	Analyses Ordered (list)															Location Info
					3			2			0	3		0				0			
					TP, NH4, NOx, TKN	TP, NH4, NOx, TKN, NO3 ANC	Dissolved TOP4	Fe, Mn, As,	Ca, Mg, Na, K ANC	Fe, Mn, As, Ca, Mg, Na, K	Color	TOC	DOC ANC	Alkalinity	SO4 & UV-254	SO4, Cl ANC	SO4, Cl, UV-254	Chlorophyll a | Vol (ml)		
18BLK203	08/22	12:30	AW	6	X		X				X	X		X				X	1000	Eighth L, epi
18BLK204	08/22	12:40	AW	4	X		X				X	X								Eighth L, hypo
18BLK201	08/22	9:15	AW	6	X		X				X	X		X				X	1000	Bug L, epi
18BLK202	08/22	9:25	AW	4	X		X				X	X								Bug L, hypo
18BLK207	08/22	14:45	AW	6	X		X				X	X		X				X	500	L. Browns, epi
18BLK208	08/22	14:50	AW	4	X		X				X	X								L. Browns, hypo
18BLK298	08/22	14:50	AW	4	X		X				X	X								blank hypo

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New York State DEC
LCI 2018

Special Analysis Instructions:

Relinquished by Sampler: Sara Gonzalez	**Date:** 08/22	**Time:** 6:15	**Received by:** Brian McGlinchey	**Date:** 8/23/18	**Time:** 11:00	**Laboratory Receipt Notes:**
Relinquished by: Brian McGlinchey	**Date:** 8/23/18	**Time:** 3:40	**Received by:**	**Date:**	**Time:**	**Sample Temp.:** _____°C
Relinquished by:	**Date:**	**Time:**	**Received by Laboratory:** ALS	**Date:** 8/23/18	**Time:** 1540	**Properly Preserved:** Y / N **Samples Intact:** Y / N

Cooler Receipt and Preservation Check Form

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New York State DEC
LCI 2018

Project/Client _____ Folder Number _____

Cooler received on 8/23/18 by: SM

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were **Custody seals** on outside of cooler?	Y (N)	5a	**Perchlorate** samples have required headspace?	Y N (NA)
2	**Custody papers** properly completed (ink, signed)?	(Y) N	5b	Did VOA vials, Alk,or Sulfide have sig* **bubbles**?	Y (N) NA SM 8/23/18
3	Did all bottles arrive in good **condition** (unbroken)?	(Y) N	6	Where did the bottles originate?	ALS/ROC CLIENT
4	Circle: **Wet Ice Dry Ice Gel packs** present?	(Y) N	7	Soil VOA received as: Bulk Encore 5035set	NA

8. Temperature Readings Date: 8/23/18 Time: 1546 ID: IR#7 IR#9 From: Temp Blank Sample Bottle

Observed Temp (°C)	1.7	1.8	0.5				
Correction Factor (°C)	+0.0	+0.0	+0.0				
Corrected Temp (°C)	1.7	1.8	0.5				
Temp from:Type of bottle							
Within 0-6°C?	(Y) N	(Y) N	(Y) N	Y N	Y N	Y N	Y N
If <0°C, were samples frozen?	Y N	Y N	Y N	Y N	Y N	Y N	Y N

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

&Client Approval to Run Samples: _____ Standing Approval Client aware at drop-off Client notified by: _____

All samples held in storage location: R-007 by SM on 8/23/18 at 1546
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 8/24/18 Time: 1839 by: SM

9. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
10. Did all bottle labels and tags agree with custody papers? (YES) NO
11. Were correct containers used for the tests indicated? (YES) NO
12. Were 5035 vials acceptable (no extra labels, not leaking)? YES NO N/A
13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved? Yes	Preserved? No	Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
≥12		NaOH			SM 8/24/18					
≤2		HNO_3								
≤2	204518	H_2SO_4	✓		~~HC~~ 192169	8/19				
<4		$NaHSO_4$								
5-9		For 608pest			No=Notify for 3day					
Residual Chlorine (-)		For CN, Phenol, 625, 608pest, 522			If +, contact PM to add $Na_2S_2O_3$ (625, 608, CN), ascorbic (phenol).					
		$Na_2S_2O_3$								
		ZnAcetate	-	-			**VOAs and 1664 Not to be tested before analysis. Otherwise, all bottles of all samples with chemical preservatives are checked (not just representatives).			
		HCl	**	**						

Bottle lot numbers: 8-072-001, 070218-2AAO

Explain all Discrepancies/ Other Comments:

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

Labels secondary reviewed by: SM

PC Secondary Review: MM 8/27/18

*Significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

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 ñNotesò column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an ñimmediateò hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (Ó100% Difference between two GC columns).
X	See Case Narrative for discussion.
MRL LOQ	Method Reporting Limit. Also known as: Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
MDL	Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
LOD	Limit of Detection. A value at or above the MDL which has been verified to be detectable.
ND	Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.

Rochester Lab ID # for State Certifications[1]

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

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

ALS Laboratory Group

Acronyms

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

Client: New York State DEC **Service Request:** R1808108
Project: LCI 2018/LCI2018

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
SM20 10200 H	Water	Chlorophyll A

Client: New York State DEC **Service Request:** R1808108
Project: LCI 2018/LCI2018

Sample Name: 18BLK213 **Date Collected:** 08/21/18
Lab Code: R1808108-001 **Date Received:** 08/23/18
Sample Matrix: Water

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

Sample Name: 18BLK213 Diss **Date Collected:** 08/21/18
Lab Code: R1808108-002 **Date Received:** 08/23/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
365.1	AFELSER	GNITAJOUPPI

Sample Name: 18BLK214 **Date Collected:** 08/21/18
Lab Code: R1808108-003 **Date Received:** 08/23/18
Sample Matrix: Water

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

Client: New York State DEC **Service Request:** R1808108
Project: LCI 2018/LCI2018

Sample Name: 18BLK214 Diss **Date Collected:** 08/21/18
Lab Code: R1808108-004 **Date Received:** 08/23/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
365.1	AFELSER	GNITAJOUPPI

Sample Name: 18BLK205 **Date Collected:** 08/21/18
Lab Code: R1808108-005 **Date Received:** 08/23/18
Sample Matrix: Water

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

Sample Name: 18BLK205 Diss **Date Collected:** 08/21/18
Lab Code: R1808108-006 **Date Received:** 08/23/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
365.1	KWONG	MROGERSON

Sample Name: 18BLK206 **Date Collected:** 08/21/18
Lab Code: R1808108-007 **Date Received:** 08/23/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
351.2	NSMITH	CWOODS
353.2		AMOSES
365.1	KWONG	MROGERSON

Client: New York State DEC **Service Request:** R1808108
Project: LCI 2018/LCI2018

Sample Name: 18BLK206 **Date Collected:** 08/21/18
Lab Code: R1808108-007 **Date Received:** 08/23/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
ASTM D6919-09		BKALKMAN
SM 2120 B-2001(2011)		BKALKMAN
SM 5310 C-2000(2011)		CWOODS

Sample Name: 18BLK206 Diss **Date Collected:** 08/21/18
Lab Code: R1808108-008 **Date Received:** 08/23/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
365.1	KWONG	MROGERSON

Sample Name: 18BLK299 **Date Collected:** 08/21/18
Lab Code: R1808108-009 **Date Received:** 08/23/18
Sample Matrix: Water

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

Sample Name: 18BLK299 Diss **Date Collected:** 08/21/18
Lab Code: R1808108-010 **Date Received:** 08/23/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
365.1	KWONG	MROGERSON

Client: New York State DEC **Service Request:** R1808108
Project: LCI 2018/LCI2018

Sample Name: 18BLK211 **Date Collected:** 08/21/18
Lab Code: R1808108-011 **Date Received:** 08/23/18
Sample Matrix: Water

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

Sample Name: 18BLK211 Diss **Date Collected:** 08/21/18
Lab Code: R1808108-012 **Date Received:** 08/23/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
365.1	KWONG	MROGERSON

Sample Name: 18BLK203 **Date Collected:** 08/22/18
Lab Code: R1808108-013 **Date Received:** 08/23/18
Sample Matrix: Water

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

Client: New York State DEC **Service Request:** R1808108
Project: LCI 2018/LCI2018

Sample Name: 18BLK203 Diss **Date Collected:** 08/22/18
Lab Code: R1808108-014 **Date Received:** 08/23/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
365.1	KWONG	MROGERSON

Sample Name: 18BLK204 **Date Collected:** 08/22/18
Lab Code: R1808108-015 **Date Received:** 08/23/18
Sample Matrix: Water

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

Sample Name: 18BLK204 Diss **Date Collected:** 08/22/18
Lab Code: R1808108-016 **Date Received:** 08/23/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
365.1	KWONG	MROGERSON

Sample Name: 18BLK201 **Date Collected:** 08/22/18
Lab Code: R1808108-017 **Date Received:** 08/23/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
351.2	NSMITH	CWOODS
353.2		AMOSES
365.1	KWONG	MROGERSON
ASTM D6919-09		BKALKMAN
SM 2120 B-2001(2011)		BKALKMAN

Client: New York State DEC **Service Request:** R1808108
Project: LCI 2018/LCI2018

Sample Name: 18BLK201 **Date Collected:** 08/22/18
Lab Code: R1808108-017 **Date Received:** 08/23/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
SM 2320 B-1997(2011)		CWOODS
SM 5310 C-2000(2011)		CWOODS
SM20 10200 H		GNITAJOUPPI

Sample Name: 18BLK201 Diss **Date Collected:** 08/22/18
Lab Code: R1808108-019 **Date Received:** 08/23/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
365.1	KWONG	MROGERSON

Sample Name: 18BLK202 **Date Collected:** 08/22/18
Lab Code: R1808108-020 **Date Received:** 08/23/18
Sample Matrix: Water

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

Sample Name: 18BLK202 Diss **Date Collected:** 08/22/18
Lab Code: R1808108-021 **Date Received:** 08/23/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
365.1	KWONG	MROGERSON

Client: New York State DEC **Service Request:** R1808108
Project: LCI 2018/LCI2018

Sample Name: 18BLK207 **Date Collected:** 08/22/18
Lab Code: R1808108-022 **Date Received:** 08/23/18
Sample Matrix: Water

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

Sample Name: 18BLK207 Diss **Date Collected:** 08/22/18
Lab Code: R1808108-023 **Date Received:** 08/23/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
365.1	KWONG	MROGERSON

Sample Name: 18BLK208 **Date Collected:** 08/22/18
Lab Code: R1808108-024 **Date Received:** 08/23/18
Sample Matrix: Water

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

Client: New York State DEC **Service Request:** R1808108
Project: LCI 2018/LCI2018

Sample Name: 18BLK208 Diss **Date Collected:** 08/22/18
Lab Code: R1808108-025 **Date Received:** 08/23/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
365.1	KWONG	MROGERSON

Sample Name: 18BLK298 **Date Collected:** 08/22/18
Lab Code: R1808108-026 **Date Received:** 08/23/18
Sample Matrix: Water

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

Sample Name: 18BLK298 Diss **Date Collected:** 08/22/18
Lab Code: R1808108-027 **Date Received:** 08/23/18
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
365.1	KWONG	MROGERSON

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

Water/Liquid Matrix

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

Solid/Soil/Non-Aqueous Matrix

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

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

Sample Results

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
www.alsglobal.com

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	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/21/18 14:30
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK213	**Basis:**	NA
Lab Code:	R1808108-001		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	08/28/18 17:31	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	**0.0066**	mg/L	0.0050	1	09/09/18 23:33	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**3.4**	mg/L	1.0	1	09/09/18 02:23	NA	
Chlorophyll A	SM20 10200 H	**1.26**	ug/L	0.040	1	09/13/18 08:30	NA	
Color, True	SM 2120 B-2001(2011)	**16.0**	ColorUnits	1.0	1	08/24/18 11:35	NA	*
Nitrate+Nitrite as Nitrogen	353.2	**0.0278**	mg/L	0.0020	1	09/13/18 10:25	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.29**	mg/L	0.10	1	09/14/18 16:18	09/13/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**6.39**	pH Units	-	1	08/25/18 09:00	NA	*
Phosphorus, Total	365.1	**0.0055**	mg/L	0.0050	1	09/10/18 15:10	09/06/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/21/18 14:30
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK213 Diss	**Basis:**	NA
Lab Code:	R1808108-002		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	08/29/18 13:45	08/28/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/21/18 14:40
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK214	**Basis:**	NA
Lab Code:	R1808108-003		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	**0.159**	mg/L	0.0050	1	09/10/18 15:33	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**3.4**	mg/L	1.0	1	09/09/18 02:43	NA	
Color, True	SM 2120 B-2001(2011)	**33.0**	ColorUnits	1.0	1	08/24/18 11:35	NA	*
Nitrate+Nitrite as Nitrogen	353.2	**0.0800**	mg/L	0.0020	1	09/13/18 10:26	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.40**	mg/L	0.10	1	09/14/18 16:20	09/13/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**6.65**	pH Units	-	1	08/25/18 09:00	NA	*
Phosphorus, Total	365.1	**0.0104**	mg/L	0.0050	1	09/10/18 15:14	09/06/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/21/18 14:40
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK214 Diss	**Basis:**	NA
Lab Code:	R1808108-004		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	**0.0056**	mg/L	0.0050	1	08/29/18 13:49	08/28/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/21/18 12:10
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK205	**Basis:**	NA
Lab Code:	R1808108-005		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**7.2**	mg/L	2.0	1	08/28/18 17:28	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	**0.0107**	mg/L	0.0050	1	09/10/18 15:49	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**7.4**	mg/L	1.0	1	09/09/18 03:04	NA	
Chlorophyll A	SM20 10200 H	**3.29**	ug/L	0.080	1	09/13/18 08:30	NA	
Color, True	SM 2120 B-2001(2011)	**38.0**	ColorUnits	1.0	1	08/24/18 11:35	NA	*
Nitrate+Nitrite as Nitrogen	353.2	**0.0037**	mg/L	0.0020	1	09/13/18 10:28	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.52**	mg/L	0.10	1	09/14/18 16:20	09/13/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**4.70**	pH Units	-	1	08/25/18 09:00	NA	*
Phosphorus, Total	365.1	**0.0109**	mg/L	0.0050	1	09/10/18 15:15	09/06/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/21/18 12:10
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK205 Diss	**Basis:**	NA
Lab Code:	R1808108-006		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	**0.0062**	mg/L	0.0050	1	09/10/18 15:25	09/06/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/21/18 12:15
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK206	**Basis:**	NA
Lab Code:	R1808108-007		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	**0.110**	mg/L	0.0050	1	09/10/18 16:05	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**6.1**	mg/L	1.0	1	09/09/18 03:25	NA	
Color, True	SM 2120 B-2001(2011)	**57.0**	ColorUnits	1.0	1	08/24/18 11:35	NA	*
Nitrate+Nitrite as Nitrogen	353.2	**0.0133**	mg/L	0.0020	1	09/13/18 10:29	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.42**	mg/L	0.10	1	09/14/18 16:25	09/13/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**6.72**	pH Units	-	1	08/25/18 09:00	NA	*
Phosphorus, Total	365.1	**0.0153**	mg/L	0.0050	1	09/10/18 15:16	09/06/18	

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/21/18 12:15
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK206 Diss	**Basis:**	NA
Lab Code:	R1808108-008		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	**0.0080**	mg/L	0.0050	1	09/10/18 15:26	09/06/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/21/18 12:15
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK299	**Basis:**	NA
Lab Code:	R1808108-009		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	**0.111**	mg/L	0.0050	1	09/10/18 16:21	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**6.2**	mg/L	1.0	1	09/09/18 03:46	NA	
Color, True	SM 2120 B-2001(2011)	**85.0**	ColorUnits	5.0	5	08/24/18 11:35	NA	*
Nitrate+Nitrite as Nitrogen	353.2	**0.0133**	mg/L	0.0020	1	09/13/18 10:37	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.40**	mg/L	0.10	1	09/14/18 16:27	09/13/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**6.90**	pH Units	-	5	08/25/18 09:00	NA	*
Phosphorus, Total	365.1	**0.0155**	mg/L	0.0050	1	09/10/18 15:17	09/06/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/21/18 12:15
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK299 Diss	**Basis:**	NA
Lab Code:	R1808108-010		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	**0.0063**	mg/L	0.0050	1	09/10/18 15:27	09/06/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/21/18 10:00
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK211	**Basis:**	NA
Lab Code:	R1808108-011		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**16.4**	mg/L	2.0	1	08/28/18 17:25	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	**0.0092**	mg/L	0.0050	1	09/10/18 16:37	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**14.9**	mg/L	1.0	1	09/09/18 04:07	NA	
Chlorophyll A	SM20 10200 H	**13.4**	ug/L	0.64	4	09/13/18 08:30	NA	
Color, True	SM 2120 B-2001(2011)	**190**	ColorUnits	10	10	08/24/18 11:35	NA	*
Nitrate+Nitrite as Nitrogen	353.2	**0.0034**	mg/L	0.0020	1	09/13/18 10:39	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.78**	mg/L	0.10	1	09/14/18 16:27	09/13/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**7.06**	pH Units	-	10	08/25/18 09:00	NA	*
Phosphorus, Total	365.1	**0.0289**	mg/L	0.0050	1	09/10/18 15:20	09/06/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/21/18 10:00
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK211 Diss	**Basis:**	NA
Lab Code:	R1808108-012		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	**0.0142**	mg/L	0.0050	1	09/10/18 15:28	09/06/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/22/18 12:30
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK203	**Basis:**	NA
Lab Code:	R1808108-013		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**12.4**		mg/L	2.0	1	08/28/18 17:48	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050	U	mg/L	0.0050	1	09/10/18 16:53	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**4.4**		mg/L	2.0	2	09/12/18 15:13	NA	
Chlorophyll A	SM20 10200 H	**1.11**		ug/L	0.040	1	09/13/18 08:30	NA	
Color, True	SM 2120 B-2001(2011)	**15.0**		ColorUnits	1.0	1	08/24/18 11:35	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020	U	mg/L	0.0020	1	09/13/18 10:40	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.29**		mg/L	0.10	1	09/14/18 16:28	09/13/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**6.99**		pH Units	-	1	08/25/18 09:00	NA	*
Phosphorus, Total	365.1	**0.0078**		mg/L	0.0050	1	09/10/18 15:21	09/06/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/22/18 12:30
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK203 Diss	**Basis:**	NA
Lab Code:	R1808108-014		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/10/18 15:29	09/06/18	

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/22/18 12:40
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK204	**Basis:**	NA
Lab Code:	R1808108-015		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	**0.0877**	mg/L	0.0050	1	09/10/18 17:09	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**4.4**	mg/L	1.0	1	09/09/18 05:52	NA	
Color, True	SM 2120 B-2001(2011)	**50.0**	ColorUnits	1.0	1	08/24/18 11:35	NA	
Nitrate+Nitrite as Nitrogen	353.2	**0.120**	mg/L	0.0020	1	09/13/18 10:42	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.38**	mg/L	0.10	1	09/14/18 16:29	09/13/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**7.03**	pH Units	-	1	08/25/18 09:00	NA	*
Phosphorus, Total	365.1	**0.0165**	mg/L	0.0050	1	09/10/18 15:22	09/06/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/22/18 12:40
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK204 Diss	**Basis:**	NA
Lab Code:	R1808108-016		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	**0.0090**	mg/L	0.0050	1	09/10/18 15:30	09/06/18	

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/22/18 09:15
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK201	**Basis:**	NA
Lab Code:	R1808108-017		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**14.0**		mg/L	2.0	1	08/28/18 17:55	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050	U	mg/L	0.0050	1	09/10/18 19:01	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**4.7**		mg/L	1.0	1	09/09/18 06:12	NA	
Chlorophyll A	SM20 10200 H	**1.21**		ug/L	0.040	1	09/13/18 08:30	NA	
Color, True	SM 2120 B-2001(2011)	**16.0**		ColorUnits	1.0	1	08/24/18 11:35	NA	*
Nitrate+Nitrite as Nitrogen	353.2	0.0020	U	mg/L	0.0020	1	09/13/18 10:43	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.46**		mg/L	0.10	1	09/14/18 16:31	09/13/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**7.42**		pH Units	-	1	08/25/18 09:00	NA	*
Phosphorus, Total	365.1	**0.0084**		mg/L	0.0050	1	09/10/18 15:24	09/06/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/22/18 09:15
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK201 Diss	**Basis:**	NA
Lab Code:	R1808108-019		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/10/18 15:34	09/06/18	

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/22/18 09:25
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK202	**Basis:**	NA
Lab Code:	R1808108-020		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	**0.0796**	mg/L	0.0050	1	09/10/18 19:49	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**3.9**	mg/L	1.0	1	09/09/18 06:33	NA	
Color, True	SM 2120 B-2001(2011)	**19.0**	ColorUnits	1.0	1	08/24/18 11:35	NA	*
Nitrate+Nitrite as Nitrogen	353.2	**0.0153**	mg/L	0.0020	1	09/13/18 10:44	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.35**	mg/L	0.10	1	09/14/18 16:32	09/13/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**7.22**	pH Units	-	1	08/25/18 09:00	NA	*
Phosphorus, Total	365.1	**0.0132**	mg/L	0.0050	1	09/10/18 16:12	09/06/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/22/18 09:25
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK202 Diss	**Basis:**	NA
Lab Code:	R1808108-021		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/10/18 15:37	09/06/18	

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/22/18 14:45
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK207	**Basis:**	NA
Lab Code:	R1808108-022		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	**5.6**		mg/L	2.0	1	08/28/18 18:03	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	**0.0061**		mg/L	0.0050	1	09/10/18 20:06	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**6.2**		mg/L	1.0	1	09/09/18 06:54	NA	
Chlorophyll A	SM20 10200 H	**2.33**		ug/L	0.080	1	09/13/18 08:30	NA	
Color, True	SM 2120 B-2001(2011)	**35.0**		ColorUnits	1.0	1	08/24/18 11:35	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020	U	mg/L	0.0020	1	09/13/18 10:46	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.32**		mg/L	0.10	1	09/14/18 16:32	09/13/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**6.72**		pH Units	-	1	08/25/18 09:00	NA	*
Phosphorus, Total	365.1	**0.0084**		mg/L	0.0050	1	09/10/18 16:13	09/06/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/22/18 14:45
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK207 Diss	**Basis:**	NA
Lab Code:	R1808108-023		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/10/18 15:38	09/06/18	

Analytical Report

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/22/18 14:50
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK208	**Basis:**	NA
Lab Code:	R1808108-024		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	**0.123**	mg/L	0.0050	1	09/10/18 20:22	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**7.0**	mg/L	1.0	1	09/09/18 07:15	NA	
Color, True	SM 2120 B-2001(2011)	**120**	ColorUnits	5.0	5	08/24/18 11:35	NA	
Nitrate+Nitrite as Nitrogen	353.2	**0.0325**	mg/L	0.0020	1	09/13/18 10:50	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	**0.44**	mg/L	0.10	1	09/14/18 16:33	09/13/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**6.46**	pH Units	-	5	08/25/18 09:00	NA	*
Phosphorus, Total	365.1	**0.0139**	mg/L	0.0050	1	09/10/18 16:15	09/06/18	

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/22/18 14:50
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK208 Diss	**Basis:**	NA
Lab Code:	R1808108-025		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	**0.0071**	mg/L	0.0050	1	09/10/18 15:39	09/06/18	

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/22/18 14:50
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK298	**Basis:**	NA
Lab Code:	R1808108-026		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050	U	mg/L	0.0050	1	09/10/18 20:38	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	**1.5**		mg/L	1.0	1	09/09/18 07:36	NA	
Color, True	SM 2120 B-2001(2011)	**9.0**		ColorUnits	1.0	1	08/24/18 11:35	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020	U	mg/L	0.0020	1	09/13/18 10:51	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10	U	mg/L	0.10	1	09/14/18 16:34	09/13/18	
pH of Color Analysis	SM 2120 B-2001(2011)	**6.51**		pH Units	-	1	08/25/18 09:00	NA	*
Phosphorus, Total	365.1	0.0050	U	mg/L	0.0050	1	09/10/18 16:16	09/06/18	

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/22/18 14:50
Sample Matrix:	Water	**Date Received:**	08/23/18 15:40
Sample Name:	18BLK298 Diss	**Basis:**	NA
Lab Code:	R1808108-027		

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Phosphorus, Dissolved	365.1	0.0050 U	mg/L	0.0050	1	09/10/18 15:40	09/06/18	

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

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:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1808108-MB1		

Inorganic Parameters

Analyte Name	Analysis Method	Result		Units	MRL	Dil.	Date Analyzed	Date Extracted	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0	U	mg/L	2.0	1	08/28/18 14:45	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050	U	mg/L	0.0050	1	09/09/18 20:52	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	1	09/08/18 13:12	NA	
Color, True	SM 2120 B-2001(2011)	**1.0**		ColorUnits	1.0	1	08/24/18 11:35	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020	U	mg/L	0.0020	1	09/13/18 09:59	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10	U	mg/L	0.10	1	09/14/18 17:53	09/13/18	
Phosphorus, Dissolved	365.1	0.0050	U	mg/L	0.0050	1	08/29/18 13:13	08/28/18	
Phosphorus, Total	365.1	0.0050	U	mg/L	0.0050	1	09/10/18 15:07	09/06/18	

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1808108-MB2		

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	08/28/18 17:40	NA	
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.0050	U	mg/L	0.0050	1	09/10/18 12:04	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	1	09/09/18 04:49	NA	
Nitrate+Nitrite as Nitrogen	353.2	0.0020	U	mg/L	0.0020	1	09/13/18 10:32	NA	
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10	U	mg/L	0.10	1	09/14/18 16:23	09/13/18	
Phosphorus, Dissolved	365.1	0.0050	U	mg/L	0.0050	1	09/10/18 15:07	09/06/18	
Phosphorus, Total	365.1	0.0050	U	mg/L	0.0050	1	09/10/18 15:41	09/06/18	

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	R1808108-MB3		

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	09/10/18 18:29	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0	U	mg/L	1.0	1	09/12/18 11:15	

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

Service Request:R1808108
Date Collected:08/21/18
Date Received:08/23/18
Date Analyzed:9/10/18

Matrix Spike Summary
General Chemistry Parameters

Sample Name: 18BLK213
Lab Code: R1808108-001

Units:mg/L
Basis:NA

Matrix Spike
R1808108-001MS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Phosphorus, Total	365.1	0.0055	0.0251	0.0250	79	75-125

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

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

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

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/21/18
Sample Matrix:	Water	**Date Received:**	08/23/18
		Date Analyzed:	09/14/18
		Date Extracted:	09/13/18

Duplicate Matrix Spike Summary
Nitrogen, Total Kjeldahl (TKN)

Sample Name:	18BLK213	**Units:**	mg/L
Lab Code:	R1808108-001	**Basis:**	NA
Analysis Method:	351.2		
Prep Method:	Method		

		Matrix Spike R1808108-001MS			Duplicate Matrix Spike R1808108-001DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Nitrogen, Total Kjeldahl (TKN)	0.29	2.43	2.50	86	2.44	2.50	86	75-125	<1	20

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

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

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

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

Service Request:R1808108
Date Collected:08/21/18
Date Received:08/23/18
Date Analyzed:09/13/18 - 09/14/18

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: 18BLK206
Lab Code: R1808108-007

Units:mg/L
Basis:NA

			Matrix Spike R1808108-007MS			Duplicate Matrix Spike R1808108-007DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Nitrate+Nitrite as Nitrogen	353.2	0.0133	0.573	0.500	112	0.572	0.500	112	75-125	<1	20
Nitrogen, Total Kjeldahl (TKN)	351.2	0.42	2.68	2.50	91	2.69	2.50	91	75-125	<1	20

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

Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/22/18
Sample Matrix:	Water	**Date Received:**	08/23/18
		Date Analyzed:	09/10/18

Duplicate Matrix Spike Summary
Ammonia as Nitrogen, undistilled

Sample Name:	18BLK201	**Units:**	mg/L
Lab Code:	R1808108-017	**Basis:**	NA
Analysis Method:	ASTM D6919-09		

		Matrix Spike R1808108-017MS			Duplicate Matrix Spike R1808108-017DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Ammonia as Nitrogen, undistilled	0.0050 U	0.429	0.500	86	0.422	0.500	84	75-125	2	20

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Client:	New York State DEC	**Service Request:**	R1808108
Project:	LCI 2018/LCI2018	**Date Collected:**	08/22/18
Sample Matrix:	Water	**Date Received:**	08/23/18
		Date Analyzed:	09/10/18
		Date Extracted:	09/6/18

Duplicate Matrix Spike Summary
Phosphorus, Dissolved

Sample Name:	18BLK201 Diss	**Units:**	mg/L
Lab Code:	R1808108-019	**Basis:**	NA
Analysis Method:	365.1		
Prep Method:	Method		

		Matrix Spike R1808108-019MS			Duplicate Matrix Spike R1808108-019DMS					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Phosphorus, Dissolved	0.0050 U	0.0240	0.0250	96	0.0245	0.0250	98	75-125	2	20

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request:R1808108
Date Collected:08/22/18
Date Received:08/23/18
Date Analyzed:09/10/18 - 09/14/18

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: 18BLK298
Lab Code: R1808108-026

Units:mg/L
Basis:NA

			Matrix Spike			Duplicate Matrix Spike					
			R1808108-026MS			R1808108-026DMS					
Analyte Name	**Method**	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Nitrate+Nitrite as Nitrogen	353.2	0.0020 U	0.628	0.500	126 *	0.629	0.500	126 *	75-125	<1	20
Nitrogen, Total Kjeldahl (TKN)	351.2	0.10 U	2.43	2.50	97	2.44	2.50	98	75-125	<1	20
Phosphorus, Total	365.1	0.0050 U	0.0228	0.0250	91	0.0232	0.0250	93	75-125	2	20

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

Client:	New York State DEC	**Service Request:**	R1808108
Project	LCI 2018/LCI2018	**Date Collected:**	08/21/18
Sample Matrix:	Water	**Date Received:**	08/23/18
		Date Analyzed:	08/24/18

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	18BLK299	**Units:**	ColorUnits
Lab Code:	R1808108-009	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R1808108-009DUP Result	Average	RPD	RPD Limit
Color, True	SM 2120 B-2001(2011)	5.0	85.0	85.0	85.0	<1	5

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Client:	New York State DEC	**Service Request:**	R1808108
Project	LCI 2018/LCI2018	**Date Collected:**	08/21/18
Sample Matrix:	Water	**Date Received:**	08/23/18
		Date Analyzed:	08/25/18

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	18BLK299	**Units:**	pH Units
Lab Code:	R1808108-009	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R1808108-009DUP Result	Average	RPD	RPD Limit
pH of Color Analysis	SM 2120 B-2001(2011)	-	6.90	6.90	6.90	<1	20

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

Client:	New York State DEC	**Service Request:**	R1808108
Project	LCI 2018/LCI2018	**Date Collected:**	08/22/18
Sample Matrix:	Water	**Date Received:**	08/23/18
		Date Analyzed:	08/28/18

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	18BLK203	**Units:**	mg/L
Lab Code:	R1808108-013	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R1808108-013DUP Result	Average	RPD	RPD Limit
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0	12.4	12.0	12.2	3	20

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

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

Client:	New York State DEC	**Service Request:**	R1808108
Project	LCI 2018/LCI2018	**Date Collected:**	08/22/18
Sample Matrix:	Water	**Date Received:**	08/23/18
		Date Analyzed:	08/28/18

Replicate Sample Summary
General Chemistry Parameters

Sample Name:	18BLK201	**Units:**	mg/L
Lab Code:	R1808108-017	**Basis:**	NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R1808108-017DUP Result	Average	RPD	RPD Limit
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0	14.0	14.0	14.0	<1	20

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

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

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

Service Request: R1808108
Date Analyzed: 08/28/18 - 09/14/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1808108-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	18.8	20.0	94	70-130
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.525	0.500	105	70-130
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.4	10.0	104	70-130
Nitrate+Nitrite as Nitrogen	353.2	0.513	0.500	103	70-130
Nitrogen, Total Kjeldahl (TKN)	351.2	2.39	2.50	96	70-130
Phosphorus, Dissolved	365.1	0.0234	0.0250	94	70-130
Phosphorus, Total	365.1	0.0240	0.0250	96	70-130

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

Service Request: R1808108
Date Analyzed: 08/28/18 - 09/14/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1808108-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	18.8	20.0	94	70-130
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.500	0.500	100	70-130
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.1	10.0	101	70-130
Nitrate+Nitrite as Nitrogen	353.2	0.515	0.500	103	70-130
Nitrogen, Total Kjeldahl (TKN)	351.2	2.35	2.50	94	70-130
Phosphorus, Dissolved	365.1	0.0240	0.0250	96	70-130
Phosphorus, Total	365.1	0.0244	0.0250	98	70-130

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

Service Request: R1808108
Date Analyzed: 09/10/18 - 09/12/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1808108-LCS3

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen, undistilled	ASTM D6919-09	0.519	0.500	104	70-130
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.90	10.0	99	70-130