

## **DATA PACKAGE**

GENERAL CHEMISTRY METALS

PROJECT NAME: AEC-2025-0013- CSC 4015 STRATFORD

ATG-GREENVILLE AEC
426 Fairforest way

Greenville, SC - 29607

Phone No: 864-704-7984

ORDER ID: Q2290

**ATTENTION: Daniel Maalouf** 







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## **Cover Page**

Order ID:	Q2290
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Project ID: AEC-2025-0013- CSC 4015 Stratford

**Client:** ATG-GREENVILLE AEC

Lab Sample Number Client Sample Number

Q2290-01 Outfall 1 Q2290-02 Outfall 2

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Cianatura			
Signature :		Date:	6/19/2025

NYDOH CERTIFICATION NO - 11376 NJDEP CERTIFICATION NO - 20012

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284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

#### CASE NARRATIVE

ATG-GREENVILLE AEC

Project Name: AEC-2025-0013- CSC 4015 Stratford

Project # N/A Order ID # Q2290

**Test Name: Metals ICP-Group1** 

#### A. Number of Samples and Date of Receipt:

2 Water samples were received on 06/11/2025.

#### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Anions Group1, COD, Metals ICP-Group1, Oil and Grease, pH, Phosphorus-Total, TKN and TSS. This data package contains results for Metals ICP-Group1.

#### C. Analytical Techniques:

The analysis and digestion of Metals ICP-Group1 was based on method 200.7.

#### D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike analysis met criteria for all samples.

The Matrix Spike Duplicate analysis met criteria for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

The Serial Dilution met the acceptable requirements.

#### E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

~ •			
Signature			
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284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

#### **CASE NARRATIVE**

ATG-GREENVILLE AEC

Project Name: AEC-2025-0013- CSC 4015 Stratford

Project # N/A Order ID # Q2290

Test Name: Anions Group1,COD,Oil and Grease,pH,Phosphorus-Total,TKN,TSS

#### A. Number of Samples and Date of Receipt:

2 Water samples were received on 06/11/2025.

#### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Anions Group1, COD, Metals ICP-Group1, Oil and Grease, pH, Phosphorus-Total, TKN and TSS. This data package contains results for Anions Group1, COD, Oil and Grease, pH, Phosphorus-Total, TKN, TSS.

#### C. Analytical Techniques:

The analysis of Oil and Grease was based on method 1664A, The analysis of Anions Group1 was based on method 300.0, The analysis of Phosphorus-Total was based on method 365.3, The analysis of pH was based on method 9040C, The analysis of TSS was based on method SM2540 D, The analysis of TKN was based on method SM4500 N Org B or C and The analysis of COD was based on method SM5220 D.

#### D. QA/ QC Samples:

The Holding Times were met for all samples except for Outfall 1 of pH, for Outfall 2 of pH as sample were receive out of holding time.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike (LAW-25-0084MS) analysis met criteria for all samples except for TKN due to sample matrix interference.

The Matrix Spike Duplicate (LAW-25-0084MSD) analysis met criteria for all samples except for TKN due to smple matrix interference.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

#### E. Additional Comments:

As per method 1664A, MS/MSD is required to be performed with the sample analysis. However, Lab did not receive sufficient volume to perform the MS/MSD therefore MS/MSD was not performed for this project.

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I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature	
Signature	

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#### DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following "Results Qualifiers" are used:

- J Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
- U Indicates the analyte was analyzed for, but not detected.
- ND Indicates the analyte was analyzed for, but not detected
- E Indicates the reported value is estimated because of the presence of interference
- M Indicates Duplicate injection precision not met.
- N Indicates the spiked sample recovery is not within control limits.
- S Indicates the reported value was determined by the Method of Standard Addition (MSA).
- \* Indicates that the duplicate analysis is not within control limits.
- + Indicates the correlation coefficient for the MSA is less than 0.995.
- D Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
- M Method qualifiers
  - **"P"** for ICP instrument
  - "PM" for ICP when Microwave Digestion is used
  - "CV" for Manual Cold Vapor AA
  - "AV" for automated Cold Vapor AA
  - "CA" for MIDI-Distillation Spectrophotometric "AS" for Semi –Automated Spectrophotometric
  - "C" for Manual Spectrophotometric
  - **"T"** for Titrimetric
  - "NR" for analyte not required to be analyzed
- OR Indicates the analyte's concentration exceeds the calibrated range of the
  - instrument for that specific analysis.
- Q Indicates the LCS did not meet the control limits requirements
- H Sample Analysis Out Of Hold Time

Aliance

#### APPENDIX A

#### **QA REVIEW GENERAL DOCUMENTATION**

Project #: Q2290

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page)	<u> </u>
Check chain-of-custody for proper relinquish/return of samples	<u> </u>
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	<del>√</del> <del>√</del> <del>√</del>
Collect information for each project id from server. Were all requirements followed	<u> </u>
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	<u> </u>
Do lab numbers and client Ids on cover page agree with the Chain of Custody	<u> </u>
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	<u> </u>
Do requested analyses on Chain of Custody agree with the log-in page	<u> </u>
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	<del>'</del> <del>'</del> <del>'</del> <del>'</del> <del>'</del>
Were the samples received within hold time	<u> </u>
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	<u> </u>
ANALYTICAL:	
Was method requirement followed?	<u> </u>
Was client requirement followed?	<u> </u>
Does the case narrative summarize all QC failure?	<u> </u>
All runlogs and manual integration are reviewed for requirements	<u> </u>
All manual calculations and /or hand notations verified	<u> </u>

QA Review Signature: SOHIL JODHANI Date: 06/19/2025

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SDG No.:

Q2290

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

#### Hit Summary Sheet SW-846

Order ID: Q2290

Client: ATG-GREENVILLE AEC Project ID: AEC-2025-0013- CSC 4015 Stratford

Chent:	AIG-GREENVILLE AEC			Project IL	<b>)</b> :	AEC-2023-0013-	3-0013- CSC 4013 Stration	
Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	Outfall 1							
Q2290-01	Outfall 1	Water	Copper	12.1		1.89	10.0	ug/L
Q2290-01	Outfall 1	Water	Lead	5.96	J	1.21	6.00	ug/L
Q2290-01	Outfall 1	Water	Zinc	20.7		1.60	20.0	ug/L
Client ID:	Outfall 2							
Q2290-02	Outfall 2	Water	Copper	10.7		1.89	10.0	ug/L
Q2290-02	Outfall 2	Water	Lead	2.98	J	1.21	6.00	ug/L
Q2290-02	Outfall 2	Water	Zinc	14.8	J	1.60	20.0	ug/L

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# SAMPLE DATA

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## **Report of Analysis**

Client: ATG-GREENVILLE AEC Date Collected: 06/10/25 Project: AEC-2025-0013- CSC 4015 Stratford Date Received: 06/11/25 Client Sample ID: Outfall 1 SDG No.: Q2290 Lab Sample ID: Q2290-01 Matrix: Water Level (low/med): low % Solid: 0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-50-8	Copper	12.1		1	1.89	10.0	ug/L	06/12/25 12:15	06/17/25 14:25	EPA 200.7	7 E200.7
7439-92-1	Lead	5.96	J	1	1.21	6.00	ug/L	06/12/25 12:15	06/17/25 14:25	EPA 200.7	E200.7
7440-66-6	Zinc	20.7		1	1.60	20.0	ug/L	06/12/25 12:15	06/17/25 14:25	EPA 200.7	E200.7

Color Before: Colorless Clarity Before: Clear Texture:

Color After: Colorless Clarity After: Clear Artifacts:

Comments: Metals ICP-Group1

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence

of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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Fax: 908 789 8922

#### **Report of Analysis**

Client: ATG-GREENVILLE AEC Date Collected: 06/10/25 Project: AEC-2025-0013- CSC 4015 Stratford Date Received: 06/11/25 Client Sample ID: Outfall 2 SDG No.: Q2290 Lab Sample ID: Q2290-02 Matrix: Water Level (low/med): low % Solid: 0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-50-8	Copper	10.7		1	1.89	10.0	ug/L	06/12/25 12:15	06/17/25 14:30	EPA 200.7	E200.7
7439-92-1	Lead	2.98	J	1	1.21	6.00	ug/L	06/12/25 12:15	06/17/25 14:30	EPA 200.7	E200.7
7440-66-6	Zinc	14.8	J	1	1.60	20.0	ug/L	06/12/25 12:15	06/17/25 14:30	EPA 200.7	E200.7

Color Before: Colorless Clarity Before: Clear Texture:

Color After: Colorless Clarity After: Clear Artifacts:

Comments: Metals ICP-Group1

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence

of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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#### LAB CHRONICLE

OrderID: Q2290

Client: ATG-GREENVILLE AEC

Contact: Daniel Maalouf

OrderDate: 6/11/2025 12:13:05 PM

Project: AEC-2025-0013- CSC 4015 Stratford

Location: A11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2290-01	Outfall 1	Water			06/10/25			06/11/25
			Metals ICP-Group1	200.7		06/12/25	06/17/25	
Q2290-02	Outfall 2	Water			06/10/25			06/11/25
			Metals ICP-Group1	200.7		06/12/25	06/17/25	

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# 6



C

# SAMPLE DATA



Q2290-01

Lab Sample ID:

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

Matrix:

WATER

#### **Report of Analysis**

Client: ATG-GREENVILLE AEC Date Collected: 06/10/25 08:42

Project: AEC-2025-0013- CSC 4015 Stratford Date Received: 06/11/25

Client Sample ID: Outfall 1 SDG No.: Q2290

% Solid: 0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Nitrite	0.074	U	1	0.074	0.60	mg/L		06/11/25 09:47	300.0
Nitrate	0.87		1	0.095	0.50	mg/L		06/11/25 09:47	300.0
Nitrate+Nitrite	0.87	J	1	0.17	1.10	mg/L		06/11/25 09:47	300.0
COD	78.4		1	1.50	10.0	mg/L		06/12/25 14:20	SM 5220 D-11
Oil and Grease	0.80	J	1	0.29	5.00	mg/L		06/17/25 09:30	1664A
pH	6.92	Н	1	0	0	pН		06/12/25 09:00	9040C
Phosphorus, Total	0.097		1	0.0050	0.050	mg/L	06/13/25 09:45	06/13/25 13:25	365.3
TKN	1.00		1	0.11	0.50	mg/L	06/12/25 08:50	06/16/25 15:53	SM4500-N Org
									C-11 plus NH3
									B plus G-11
TSS	35.6		1	1.00	4.00	mg/L		06/13/25 10:00	SM 2540 D-15

Comments: pH result reported at temperature 20.5 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Q2290 **1** 



Q2290-02

Lab Sample ID:

284 Sheffield Street, Mountainside, New Jersey 07092, Phone: 908 789 8900, Fax: 908 789 8922

#### **Report of Analysis**

Client: ATG-GREENVILLE AEC Date Collected: 06/10/25 08:42

Project: AEC-2025-0013- CSC 4015 Stratford Date Received: 06/11/25

Client Sample ID: SDG No.: Q2290 Outfall 2

> % Solid: 0

WATER

Matrix:

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Nitrite	0.074	U	1	0.074	0.60	mg/L		06/11/25 11:14	300.0
Nitrate	0.095	U	1	0.095	0.50	mg/L		06/11/25 11:14	300.0
Nitrate+Nitrite	0.17	U	1	0.17	1.10	mg/L		06/11/25 11:14	300.0
COD	70.3		1	1.50	10.0	mg/L		06/12/25 14:20	SM 5220 D-11
Oil and Grease	0.30	J	1	0.29	5.00	mg/L		06/17/25 09:30	1664A
pH	7.09	Н	1	0	0	pН		06/12/25 09:10	9040C
Phosphorus, Total	0.12		1	0.0050	0.050	mg/L	06/13/25 09:45	06/13/25 13:27	365.3
TKN	1.30		1	0.11	0.50	mg/L	06/12/25 08:50	06/16/25 15:53	SM4500-N Org C-11 plus NH3
TSS	22.6		1	1.00	4.00	mg/L		06/13/25 10:00	B plus G-11 SM 2540 D-15

Comments: pH result reported at temperature 20.1 °C

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

H = Sample Analysis Out Of Hold Time

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

Q2290



#### LAB CHRONICLE

Q2290 OrderID:

6/11/2025 12:13:05 PM OrderDate: ATG-GREENVILLE AEC Client: AEC-2025-0013- CSC 4015 Stratford Project:

Contact: Daniel Maalouf Location: A11

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2290-01	Outfall 1	WATER			06/10/25 08:42			06/11/25
			Anions Group1	300.0			06/11/25 09:47	
			COD	SM5220 D			06/12/25 14:20	
			Oil and Grease	1664A			06/17/25 09:30	
			рН	9040C			06/12/25 09:00	
			Phosphorus-Total	365.3		06/13/25	06/13/25 13:25	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		06/12/25	06/16/25 15:53	
			TSS	SM2540 D			06/13/25 10:00	
Q2290-02	Outfall 2	WATER			06/10/25 08:42			06/11/25
			Anions Group1	300.0	00142		06/11/25 11:14	
			COD	SM5220 D			06/12/25 14:20	
			Oil and Grease	1664A			06/17/25 09:30	
			рН	9040C			06/12/25 09:10	
			Phosphorus-Total	365.3		06/13/25	06/13/25 13:27	

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LAB CHRONICLE

06/12/25 06/16/25 TKN SM4500-N Org C-11 plus 15:53

NH3 B plus

G-11

TSS SM2540 D 06/13/25

10:00

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# SHIPPING DOCUMENTS

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#### 284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 788-9222 www.chemtech.net

Allianca	Project	Number	AEC-2025-001	3
Amance	Project	Number.	ACC-ZUZU-UU I	J

TECHNICAL GROUP CHAIN OF CUSTODY RECORD						COC Number: BILLING INFORMATION													
	CLIENT INFO	ORMATION		PRO	JECT	INFO	RMATIC	N	311	1-0	UR	VII.		BI	LLIN	G INF	ORN	IATIC	ON
COMPANY: Durham School Services			PROJECT NAME: CSC 4015 Stratford						BILL TO:candice.caviness@alliancetg.com PO#										
ADDRESS: 70 Chestnut St			PROJECT #:AEC-2025-0013 LOCATION: Stratford						ADDRESS:										
CITY Stratford STATE:CT ZIP:			PROJECT MANAGER:						CITY: STATE: ZIP:										
ATTENTION: daniel.maalouf@alliancetg.com			E-MAIL:						ATTENTION: PHONE:										
PHONE: FAX:			PHONE:864-704-7984 FAX:						ANALYSIS										
DATA TURNAROUND INFORMATION			DATA DELIVERABLE INFORMATION										<sub>s</sub>		as				
FAX:		□ RESEULTS ONLY □ USEPA CLP □ RESULTS + QC □ New York State ASP "B" □ New Jersey REDUCED □ New York State ASP "A"				COD	Total OG	Hd	TSS	Total Phos	TKN	Nitrate Nitrogen	Cu, pb, zn						
	ED BY ALLIANCE NAROUND TIME IS		99 DAV9	□ New Jersey CLP □ Other					1	2	3	4	5	6	7	8	9		
STANDARD TURN	VAROUND TIME R	5 IU BUSINE	33 DATS	☐ EDD Format							PRESERVATIVES COMME							COMMENTS	
СНЕМТЕСН		PROJECT		SAMPLE		MPLE /PE	SAMPLE SO COLLECTION		ttles										< Specify Preservatives A-HCI B-HNO3
SAMPLE ID	PLE SAMPLE IDENTIFICATION		MATRIX	COMP	GRAB	DATE	TIME	# of Bottles	1	2	3	4	5	6	7	8	9	C-H2SO4 D-NaOH E-ICE F-Other	
1:	Outfall 1		SW		х	6/10/25	8:42	5	1	1	1	1	1	1	1	1			
2. Outfall 2		sw		х	6/10/25	8:42	5	1	1	1	1	1	1	1	1				
3.																			
1.																			
5.										_		_		$\dashv$					
6.																			
7																			
3.																			
).						-													
10.																			
				IENTED BELOW	ACH	TIME	SAMP	LES CH	ANGE	PRO	SSES	SSIO	N IN	CLUE	DING	COL	JRIE	R DE	LIVERY
RELINQUISHED BY  RELINQUISHED BY		TE/TIME	1. RECEIVED BY	(	MeOF		tion requir	or coolers es an addi						□ No	n Cor	mpliant	: 0	Coole	r Temp 3 - O in Cooler?:
RELINQUISHED BY	DA	TE/TIME	RECEIVED FOR U	ВВҮ	P	age	of		SHIPPEI ALLI	D VIA: ( ANCE:		: □ Ha ⊒ Picke			Overr	_			Shipment Complete  YES NO

YELLOW - ALLIANCE COPY

PINK - SAMPLER COPY

Q2290 **20 of 21** 

WHITE - ALLIANCE COPYFOR RETURN TO CLIENT



### Laboratory Certification

Certified By	License No.
certified by	Dicense No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
N	055404 B 4
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

QA Control Code: A2070148