

## **DATA PACKAGE**

GENERAL CHEMISTRY  
VOLATILE ORGANICS

**PROJECT NAME : AEC-2025-0013-CSC 4031 WATERVLIET**

**ATG-GREENVILLE AEC**

**426 Fairforest way**

**Greenville, SC - 29607**

**Phone No: 864-704-7984**

**ORDER ID : Q2460**

**ATTENTION : Daniel Maalouf**



**Laboratory Certification ID # 20012**



1) Signature Page	3
2) Case Narrative	4
2.1) VOC-BTEX- Case Narrative	4
2.2) Genchem- Case Narrative	6
3) Qualifier Page	7
4) QA Checklist	9
5) VOC-BTEX Data	10
6) Genchem Data	14
7) Shipping Document	17
7.1) CHAIN OF CUSTODY	18
7.2) Lab Certificate	19
7.3) Internal COC	20

1
2
3
4
5
6
7

## Cover Page

**Order ID :** Q2460

**Project ID :** AEC-2025-0013-CSC 4031 Watervliet

**Client :** ATG-GREENVILLE AEC

**Lab Sample Number**

Q2460-01

**Client Sample Number**

SW-1

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.

Signature : \_\_\_\_\_

Date: 7/7/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

## **CASE NARRATIVE**

### **ATG-GREENVILLE AEC**

**Project Name: AEC-2025-0013-CSC 4031 Watervliet**

**Project # N/A**

**Order ID # Q2460**

**Test Name: VOC-BTEX**

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

1 Water sample was received on 06/26/2025.

#### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: COD, Oil and Grease and VOC-BTEX. This data package contains results for VOC-BTEX.

#### **C. Analytical Techniques:**

The analysis performed on instrument MSVOA\_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI The analysis of VOC-BTEX was based on method 8260D.

#### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria.

The Blank Spike met requirements for all samples.

The Blank Spike Duplicate met requirements for all samples.

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

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

Samples SW-1 was diluted due to yellow in color and very foamy, not allowing straight run analysis.

#### **E. Additional Comments:**

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

**F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

---

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\_\_\_\_\_



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 4031 Watervliet**

**Project # N/A**

**Order ID # Q2460**

**Test Name: COD, Oil and Grease**

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

1 Water sample was received on 06/26/2025.

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

According to the Chain of Custody document, the following analyses were requested: COD, Oil and Grease and VOC-BTEX. This data package contains results for COD, Oil and Grease.

#### **C. Analytical Techniques:**

The analysis of Oil and Grease was based on method 1664A and The analysis of COD was based on method SM5220 D.

#### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Blank Spike met requirements for all parameters.

The Duplicate analysis met criteria for all parameters.

The Matrix Spike analysis met criteria for all parameters.

The Matrix Spike Duplicate analysis met criteria for all parameters.

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 for Q2460 therefore Lab reported MS-MSD from Q2441.

Sample Q2460-01 analyzed straight dilution for COD because the original samples were reading over range, only 10X has been reported.

---

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\_\_\_\_\_

## DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following “ Results Qualifiers” are used:

<b>J</b>	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).
<b>U</b>	Indicates the analyte was analyzed for, but not detected.
<b>ND</b>	Indicates the analyte was analyzed for, but not detected
<b>E</b>	Indicates the reported value is estimated because of the presence of interference
<b>M</b>	Indicates Duplicate injection precision not met.
<b>N</b>	Indicates the spiked sample recovery is not within control limits.
<b>S</b>	Indicates the reported value was determined by the Method of Standard Addition (MSA).
<b>*</b>	Indicates that the duplicate analysis is not within control limits.
<b>+</b>	Indicates the correlation coefficient for the MSA is less than 0.995.
<b>D</b>	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
<b>M</b>	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
<b>OR</b>	Indicates the analyte’s concentration exceeds the calibrated range of the instrument for that specific analysis.
<b>Q</b>	Indicates the LCS did not meet the control limits requirements
<b>H</b>	Sample Analysis Out Of Hold Time

## DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: <ol style="list-style-type: none"> <li>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)</li> <li>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.</li> </ol>
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements



## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: Q2460

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)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

#### COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

#### CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

#### ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: MOHAMMAD AHMED

Date: 07/07/2025

**Hit Summary Sheet**  
SW-846

SDG No.: Q2460

Client: ATG-GREENVILLE AEC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
-----------	-----------	--------	-----------	---------------	---	-----	-----	-------

Client ID:

0

Total Voc :

Total Concentration:



# SAMPLE DATA

## Report of Analysis

Client:	ATG-GREENVILLE AEC	Date Collected:	06/26/25
Project:	AEC-2025-0013-CSC 4031 Watervliet	Date Received:	06/26/25
Client Sample ID:	SW-1	SDG No.:	Q2460
Lab Sample ID:	Q2460-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-BTEX
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046850.D	50		07/01/25 11:23	VX070125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
<b>TARGETS</b>						
71-43-2	Benzene	7.50	U	7.50	50.0	ug/L
108-88-3	Toluene	7.00	U	7.00	50.0	ug/L
100-41-4	Ethyl Benzene	6.50	U	6.50	50.0	ug/L
179601-23-1	m/p-Xylenes	12.0	U	12.0	100	ug/L
95-47-6	o-Xylene	6.00	U	6.00	50.0	ug/L
<b>SURROGATES</b>						
17060-07-0	1,2-Dichloroethane-d4	49.4		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	51.5		86 - 113	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.7		77 - 121	105%	SPK: 50
<b>INTERNAL STANDARDS</b>						
363-72-4	Pentafluorobenzene	155000	5.562			
540-36-3	1,4-Difluorobenzene	258000	6.769			
3114-55-4	Chlorobenzene-d5	235000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	121000	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

LAB CHRONICLE

OrderID:	Q2460	OrderDate:	6/30/2025 8:36:46 AM
Client:	ATG-GREENVILLE AEC	Project:	AEC-2025-0013-CSC 4031 Watervliet
Contact:	Daniel Maalouf	Location:	A32,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2460-01	SW-1	Water	VOC-BTEX	8260-Low	06/26/25		07/01/25	06/26/25



# SAMPLE DATA

## Report of Analysis

Client:	ATG-GREENVILLE AEC	Date Collected:	06/26/25 14:20
Project:	AEC-2025-0013-CSC 4031 Watervliet	Date Received:	06/26/25
Client Sample ID:	SW-1	SDG No.:	Q2460
Lab Sample ID:	Q2460-01	Matrix:	Water
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
COD	926	D	10	15.0	100	mg/L		07/01/25 13:22	SM 5220 D-11
Oil and Grease	4.60	J	1	0.29	5.00	mg/L		07/02/25 09:00	1664A

Comments: \_\_\_\_\_

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

LAB CHRONICLE

OrderID:	Q2460	OrderDate:	6/30/2025 8:36:46 AM
Client:	ATG-GREENVILLE AEC	Project:	AEC-2025-0013-CSC 4031 Watervliet
Contact:	Daniel Maalouf	Location:	A32,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2460-01	SW-1	Water			06/26/25 14:20			06/26/25
			COD	SM5220 D			07/01/25 13:22	
			Oil and Grease	1664A			07/02/25 09:00	





# SHIPPING DOCUMENTS



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

Alliance Project Number: AEC-2025-0013 Q2460

CHAIN OF CUSTODY RECORD

COC Number:

CLIENT INFORMATION

PROJECT INFORMATION

BILLING INFORMATION

COMPANY: Durham School Services  
ADDRESS: 2721 2nd Ave  
CITY Watervliet STATE: NY ZIP:  
ATTENTION: daniel.maalouf@alliancetg.com  
PHONE: FAX:

PROJECT NAME: CSC 4031 Watervliet  
PROJECT #: AEC-2025-0013 LOCATION: Watervliet  
PROJECT MANAGER:  
E-MAIL:  
PHONE: 864-704-7984 FAX:

BILL TO: candice.caviness@alliancetg.com PO#  
ADDRESS:  
CITY: STATE: ZIP:  
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

DATA DELIVERABLE INFORMATION

FAX: DAYS\*  
HARD COPY: DAYS\*  
EDD DAYS\*  
\* TO BE APPROVED BY ALLIANCE  
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

☐ RESEULTS ONLY ☐ USEPA CLP  
☐ RESULTS + QC ☐ New York State ASP "B"  
☐ New Jersey REDUCED ☐ New York State ASP "A"  
☐ New Jersey CLP ☐ Other \_\_\_\_\_  
☐ EDD Format

ANALYSIS

OG	COD	BTEX							
1	2	3	4	5	6	7	8	9	

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles										<- Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-Other
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9	
1.	SW-1	SW		X	6/26/25	14:20	5	1	1	3							Shipped via Fedex
2.																	
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER	DATE/TIME 6/26/25 14:59	RECEIVED BY 1.	Conditions of bottles or coolers at receipt: <input type="checkbox"/> Compliant <input type="checkbox"/> Non Compliant <input type="checkbox"/> Cooler Temp <u>3.3°C</u> MeOH extraction requires an additional 4oz. Jar for percent solid <input type="checkbox"/> Ice in Cooler?: _____
RELINQUISHED BY	DATE/TIME	RECEIVED BY	Comments:
2.		2.	
RELINQUISHED BY	DATE/TIME	RECEIVED FOR LAB BY	
3.		3.	

Page \_\_\_\_\_ of \_\_\_\_\_

SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight  
ALLIANCE: ☐ Picked Up ☐ Overnight

Shipment Complete  
☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

### Laboratory Certification

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

## LOGIN REPORT/SAMPLE TRANSFER

<b>Order ID :</b> Q2460	ATGG01	<b>Order Date :</b> 6/30/2025 8:36:46 AM	<b>Project Mgr :</b>
<b>Client Name :</b> ATG-GREENVILLE AEC		<b>Project Name :</b> AEC-2025-0013-CSC 4031	<b>Report Type :</b> Level 1
<b>Client Contact :</b> Daniel Maalouf		<b>Receive Date/Time :</b> 6/26/2025 2:59:00 PM	<b>EDD Type :</b> Excel NY
<b>Invoice Name :</b> ATG-GREENVILLE AEC		<b>Purchase Order :</b>	<b>Hard Copy Date :</b>
<b>Invoice Contact :</b> Daniel Maalouf			<b>Date Signoff :</b>

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2460-01	SW-1	Water	06/26/2025	14:20	VOC-BTEX		8260-Low		5 Bus. Days

Relinquished By :

Date / Time : 6/30/25 9:30

Received By :

Date / Time :

Storage Area : VOA Refridgerator Room