

## **DATA PACKAGE**

VOLATILE ORGANICS

**PROJECT NAME : WASTE WATER 2025**

**GARDEN STATE LABORATORIES, INC.**

**410 Hillside Avenue**

**Hillside, NJ - 07205**

**Phone No: 800-273-8901**

**ORDER ID : Q2366**

**ATTENTION : Sharon Ercoliani**



**Laboratory Certification ID # 20012**



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## Cover Page

**Order ID :** Q2366

**Project ID :** Waste Water 2025

**Client :** Garden State Laboratories, Inc.

**Lab Sample Number**

Q2366-01  
Q2366-02

**Client Sample Number**

250528063-02-VOA  
250618063-05-Trip blank

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 :

**APPROVED**

*By Nimisha Pandya, QA/QC Supervisor at 9:46 am, Jul 02, 2025*

Date: 7/1/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

## **CASE NARRATIVE**

**Garden State Laboratories, Inc.**  
**Project Name: Waste Water 2025**  
**Project # N/A**  
**Order ID # Q2366**  
**Test Name: VOCMS Group1**

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

2 Water samples were received on 06/19/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: VOCMS Group1. This data package contains results for VOCMS Group1.

### **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 VOCMS Group1 was based on method 624.1.

### **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.

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

The pH value of the samples was 6.0 as samples received unpreserved.

As per method, 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 were not performed for this project. However, Lab has performed LCS/LCSD instead.

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 <35% 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 > 35% 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.

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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.

**APPROVED**

*By Nimisha Pandya, QA/QC Supervisor at 9:48 am, Jul 02, 2025*

Signature\_\_\_\_\_

## 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
<b>U</b>	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.
<b>ND</b>	Indicates the analyte was analyzed for, but not detected
<b>J</b>	Indicates an estimated value. This flag is used: <ul 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> </ul>
<b>B</b>	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
<b>E</b>	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
<b>D</b>	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
<b>P</b>	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”.
<b>N</b>	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.
<b>A</b>	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
<b>Q</b>	Indicates the LCS did not meet the control limits requirements

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: Q2366

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: 07/01/2025

**Hit Summary Sheet**  
**624.1**

**SDG No.:** Q2366

**Client:** Garden State Laboratories, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
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**Client ID:**

0

**Total Voc :**

**Total Concentration:**

A

B

C

D





# SAMPLE DATA

## Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	06/18/25
Project:	Waste Water 2025	Date Received:	06/19/25
Client Sample ID:	250528063-02-VOA	SDG No.:	Q2366
Lab Sample ID:	Q2366-01	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046782.D	1		06/20/25 14:31	VX062025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
<b>TARGETS</b>						
107-02-8	Acrolein	6.60	U	6.60	25.0	ug/L
107-13-1	Acrylonitrile	2.80	U	2.80	25.0	ug/L
<b>SURROGATES</b>						
17060-07-0	1,2-Dichloroethane-d4	30.3		91 - 110	101%	SPK: 30
2037-26-5	Toluene-d8	28.2		91 - 112	94%	SPK: 30
460-00-4	4-Bromofluorobenzene	28.3		63 - 112	94%	SPK: 30
<b>INTERNAL STANDARDS</b>						
74-97-5	Bromochloromethane	21900	4.91			
540-36-3	1,4-Difluorobenzene	136000	6.769			
3114-55-4	Chlorobenzene-d5	126000	10.055			

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

## Report of Analysis

Client:	Garden State Laboratories, Inc.	Date Collected:	06/18/25
Project:	Waste Water 2025	Date Received:	06/19/25
Client Sample ID:	250618063-05-Trip blank	SDG No.:	Q2366
Lab Sample ID:	Q2366-02	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046781.D	1		06/20/25 14:10	VX062025

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
<b>TARGETS</b>						
107-02-8	Acrolein	6.60	U	6.60	25.0	ug/L
107-13-1	Acrylonitrile	2.80	U	2.80	25.0	ug/L
<b>SURROGATES</b>						
17060-07-0	1,2-Dichloroethane-d4	30.1		91 - 110	100%	SPK: 30
2037-26-5	Toluene-d8	28.8		91 - 112	96%	SPK: 30
460-00-4	4-Bromofluorobenzene	28.1		63 - 112	94%	SPK: 30
<b>INTERNAL STANDARDS</b>						
74-97-5	Bromochloromethane	22900	4.904			
540-36-3	1,4-Difluorobenzene	140000	6.763			
3114-55-4	Chlorobenzene-d5	129000	10.049			

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

<b>OrderID:</b>	Q2366	<b>OrderDate:</b>	6/19/2025 10:59:00 AM
<b>Client:</b>	Garden State Laboratories, Inc.	<b>Project:</b>	Waste Water 2025
<b>Contact:</b>	Sharon Ercoliani	<b>Location:</b>	VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
<b>Q2366-01</b>	<b>250528063-02-VOA</b>	<b>Water</b>			<b>06/18/25</b>			<b>06/19/25</b>
			VOCMS Group1	624.1			06/20/25	
<b>Q2366-02</b>	<b>250618063-05-Trip blank</b>	<b>Water</b>			<b>06/18/25</b>			<b>06/19/25</b>
			VOCMS Group1	624.1			06/20/25	



# SHIPPING DOCUMENTS

# Garden State Laboratories, Inc.

**Main Lab - 410 Hillside Avenue, Hillside NJ 07205 - NJDEP Lab Cert. #20044**  
**Jersey Shore Lab - 54 Main Street, Waretown NJ 08758 - NJDEP Lab Cert. #15037**

Tel. 800-273-8901/908-688-8900 Fax 908-688-8966 www.gslabs.com info@gslabs.com

## Office and Drop off Locations

North Jersey Office: 225 Sparta Avenue, Sparta, NJ 07871 Tel. 973-729-1827

West Jersey Office: 2050 Route 31 North, Glen Gardner, NJ 08826 Tel. 908-537-7414

## CLIENT INFORMATION (REPORT TO BE SENT TO)

Name: Garden State Laboratories, Inc. Contact/Authorized by: Robert Szot  
 Mailing Address: 410 Hillside Ave. Phone: 908-688-8900 EXT 129  
 City/State/Zip: Hillside, NJ. 07205 Email: rszot@gslabs.com

## SAMPLE INFORMATION

SAMPLE TYPE: WASTE WATER  
 SAMPLE LOCATION: ACUA SW LANDELL LEACHATE TANKS Pinelands Park Leachate Tanks

Grab/Comp	SAMPLE ID	SAMPLE COLLECTION				ANALYSIS REQUIRED (Print Legibly)	CONTAINER INFORMATION			
		Date	Time	AM	PM		No.	Type*	Size	Pres.*
X	250528063-VOA	6/18/25	8:57	X		EPA 8260 TOL LIST + Acrolien & Acrylonitrile	3	vials	4cmL	A
	250618062-Trip blank					EPA 8260 TOL LIST + Acrolien & Acrylonitrile	2	↓	↓	A

Container Type: P = Plastic G = Glass A = Amber Glass T = Sterile Thio V = Vial Other/Specify:  
 Preservation Code: A = Non Preserved B = Sulfuric Acid C = Sodium Hydroxide D = Nitric Acid  
 E = Hydrochloric Acid F = Zinc Acetate G = Sodium Thiosulfate H = Ascorbic Acid I = Cooled Other/Specify:

☒ SUBCONTRACTED WORK

TURNAROUND TIME: ☒ Standard ☐ Rush (If RUSH REQUESTED) Rush Due by:

REPORT FORMAT: ☒ Standard Report ☐ Other/Specify:

☐ Standard Report + E2 PWS ID#:

SEND TO: Chem Tech

DATE/TIME:

METHOD OF SHIPMENT:

Deliver

## PAYMENT INFORMATION

☐ Sampling/Pick-up Fee: \$ ☐ Composite Fee: \$ ☐ Rush Fee: \$ Amount Due: \$

Payment Method: ☐ Credit Card Type: ☐ Check # ☐ Other: See Quote

Note:

VOA UNPRESERVED DUE TO EFFERVESCENCE - 3 DAY TAT PER JORDAN HEDVAT

SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION

PLEASE PRINT YOUR NAME LEGIBLY, USE FULL LEGAL SIGNATURE, DATE AND TIME

Sampled by (PRINT):

Signature:

Date/Time:

Client/Client's Representative (PRINT):

Signature:

Date/Time:

1. Received/Relinquished by (PRINT): Stephen Merghon

Signature:

Date/Time: 6/18/25 15:13

2. Received/Relinquished by (PRINT): MATT JACKSON

Signature:

Date/Time: 6/19/25 8:17

### 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> Q2366	<b>GARD04</b>	<b>Order Date :</b> 6/19/2025 10:59:00 AM	<b>Project Mgr :</b> Yazmeen
<b>Client Name :</b> Garden State Laboratories, I		<b>Project Name :</b> Waste Water 2025	<b>Report Type :</b> Level 1
<b>Client Contact :</b> Sharon Ercoliani		<b>Receive DateTime :</b> 6/19/2025 8:17:00 AM	<b>EDD Type :</b> EXCEL NOCLEANUP
<b>Invoice Name :</b> Garden State Laboratories, I		<b>Purchase Order :</b>	<b>Hard Copy Date :</b>
<b>Invoice Contact :</b> Sharon Ercoliani			<b>Date Signoff :</b> 6/19/2025 11:39:07 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2366-01	250528063-02-VOA	Water	06/18/2025	08:57					
					VOCMS Group1		624.1	10 Bus. Days	
Q2366-02	250618063-05-Trip blank	Water	06/18/2025	08:57					
					VOCMS Group1		624.1	10 Bus. Days	

Relinquished By : ef  
Date / Time : 6/19/25 13:25

Received By : Sam  
Date / Time : 06/19/25 13:25 By #5  
Storage Area : VOA Refridgerator Room