

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.

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
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: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (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 is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
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 #: 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.

A

B

C

D

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

Client ID:

0

Total Voc :

Total Concentration:



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
TARGETS						
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
SURROGATES						
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
INTERNAL STANDARDS						
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
TARGETS						
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
SURROGATES						
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
INTERNAL STANDARDS						
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

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A = Aldol-Condensation Reaction Products

LAB CHRONICLE

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

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



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

Q2366

FOR SAMPLE RECEIVING USE ONLY

DATE/TIME/TEMP. REC'D AT LAB:

Page _____ of _____

GSL CLIENT #

MICRO #

CHEM. #

SAMPLE REC'D BY:

GSL FIELD SAMPLER/PICK-UP

PICK-UP AT DROP OFF LOCATION

DELIVERED BY CLIENT

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 ^{6/15/25} 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 ⁰²	6/18/25	8:57	X		EPA 8260 TGL LIST + Acrolien & Acrylonitrile ^{6/15/25}	3	vials	4cmL	A
	250618062-05 Trip blank					EPA 8260 TGL LIST + Acrolien & Acrylonitril ^{6/15/25}	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 Ithiosulfate H = Ascorbic Acid I = Cooled Other/Specify: _____

SUBCONTRACTED WORK

TURNAROUND TIME: Standard Rush (IF RUSH REQUESTED) Rush Due by:

SEND TO: Chem Tech

REPORT FORMAT: Standard Report Other/Specify:

DATE/TIME:

Standard Report + E2 PWS ID#:

METHOD OF SHIPMENT:

PAYMENT INFORMATION

Deliver

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

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

Note:

^{6/15/25} Please only run acrolien/acrylonitrile ^{6/15/25} AT L16
VOA UNPRESERVED DUE TO EFFERVESCENSE - 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: <i>Stephen Merghon</i>	Date/Time: 6/18/25 15:13
2. Received/Relinquished by (PRINT): MATT JACKSON	Signature: <i>cm Jackson</i>	Date/Time: 6/19/25 8:17

The liability of Garden State Laboratories, Inc. for services rendered shall in no event exceed the amount of the invoice.
 Main Lab certified by NJ Dept. of Health, NJDEP-TNI, NY Dept. of Health #11550 and PADEP #68-03680

Rena 6/19/25 8:17 2.7°C

IMPORTANT: PRINTED NAMES & SIGNATURES ARE REQUIRED

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



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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2366	GARD04	Order Date : 6/19/2025 10:59:00 AM	Project Mgr : Yazmeen
Client Name : Garden State Laboratories,]		Project Name : Waste Water 2025	Report Type : Level 1
Client Contact : Sharon Ercoliani		Receive DateTime : 6/19/2025 8:17:00 AM	EDD Type : EXCEL NOCLEANUP
Invoice Name : Garden State Laboratories,]		Purchase Order :	Hard Copy Date :
Invoice Contact : Sharon Ercoliani			Date Signoff : 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 Reg # 5
Storage Area : VOA Refridgerator Room