

DATA PACKAGE

VOLATILE ORGANICS

PROJECT NAME: WASTE WATER 2024

GARDEN STATE LABORATORIES, INC. 410 Hillside Avenue

Hillside, NJ - 07205

Phone No: 800-273-8901

ORDER ID: P4646

ATTENTION: Sharon Ercoliani







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Cover Page

Order ID:	P4646
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Project ID: Waste Water 2024

Client: Garden State Laboratories, Inc.

Lab Sample Number Client Sample Number

P4646-01 241030069-01-VOA

P4646-02 241030043-05-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 :	Date:	11/11/2024
	Date:	11/11/2024

NYDOH CERTIFICATION NO - 11376 NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Garden State Laboratories, Inc. Project Name: Waste Water 2024

Project # N/A

Chemtech Project # P4646 Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

2 Water samples were received on 10/31/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: VOCMS Group1 and VOCMS Group2. This data package contains results for VOCMS Group1.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_N were done using GC column RXI-624SIL MS 30m 0.25mm 1.4 um. Cat#13868.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:

"As per method 624.1, 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.

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

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			
Signature			

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CASE NARRATIVE

Garden State Laboratories, Inc. Project Name: Waste Water 2024

Project # N/A

Chemtech Project # P4646 Test Name: VOCMS Group2

A. Number of Samples and Date of Receipt:

2 Water samples were received on 10/31/2024.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: VOCMS Group1 and VOCMS Group2. This data package contains results for VOCMS Group2.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOCMS Group2 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.

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.

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.

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

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		
Signature		

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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. " $10\mathrm{U}$ ". 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.
В	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

Aliance

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P4646

	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	✓
Is the chain of custody signed and complete	<u>√</u> <u>√</u> <u>√</u>
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	<u> </u>
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> <u>*</u> <u>*</u>
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	<u> </u>
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?	' ' ' ' ' ' ' '
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: 11/11/2024

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

Hit Summary Sheet

624.1

SDG No.: P4646

Client: Garden State Laboratories, Inc.

Matrix

Client ID

C MDL

Client ID:

Sample ID

0

Concentration

Total Voc:

Parameter

Total Concentration:

5

В

В

Units

RDL

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В

C

SAMPLE DATA

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

Report of Analysis

Client: Garden State Laboratories, Inc. Date Collected:

Waste Water 2024

10/30/24

Date Received:

10/31/24

241030069-01-VOA SDG No.: P4646 Client Sample ID:

Lab Sample ID: P4646-01 Matrix: Water

Analytical Method: E624.1 % Solid:

5 Final Vol: 5000 Sample Wt/Vol: Units: mLuL

Soil Aliquot Vol: Test: VOCMS Group1 uL

ID: 0.25 Level: LOW GC Column: RXI-624

Prep Method:

Project:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID VN084624.D 1 10/31/24 17:25 VN103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
107-02-8	Acrolein	9.30	U	9.30	25.0	ug/L
107-13-1	Acrylonitrile	3.70	U	3.70	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.3		91 - 110	98%	SPK: 30
2037-26-5	Toluene-d8	27.9		91 - 112	93%	SPK: 30
460-00-4	4-Bromofluorobenzene	27.8		63 - 112	93%	SPK: 30
INTERNAL STA	ANDARDS					
74-97-5	Bromochloromethane	30800	7.812			
540-36-3	1,4-Difluorobenzene	161000	9.1			
3114-55-4	Chlorobenzene-d5	150000	11.865			

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

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

Report of Analysis

Client: Garden State Laboratories, Inc.

241030043-05-TRIP-BLANK

Date Collected: 10/30/24

Project: Waste Water 2024

Date Received: 10/31/24

Client Sample ID:

SDG No.:

P4646

Lab Sample ID: P4646-02

Matrix:

Water

Analytical Method: E624.1

% Solid:

5000

Sample Wt/Vol: Soil Aliquot Vol: Units: mL

Final Vol: Test:

VOCMS Group1

uL

GC Column:

RXI-624

5

uL ID: 0.25

Level:

LOW

Prep Method:

VN084623.D

File ID/Qc Batch:

Dilution:

1

Prep Date

Date Analyzed

Prep Batch ID

10/31/24 17:01

VN103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
107-02-8	Acrolein	9.30	U	9.30	25.0	ug/L
107-13-1	Acrylonitrile	3.70	U	3.70	25.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	29.7		91 - 110	99%	SPK: 30
2037-26-5	Toluene-d8	28.0		91 - 112	93%	SPK: 30
460-00-4	4-Bromofluorobenzene	25.1		63 - 112	84%	SPK: 30
INTERNAL STAN	NDARDS					
74-97-5	Bromochloromethane	30500	7.806			
540-36-3	1,4-Difluorobenzene	161000	9.1			
3114-55-4	Chlorobenzene-d5	142000	11.865			

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

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LAB CHRONICLE

OrderID: P4646 OrderDate: 10/31/2024 10:57:00 AM

Client:Garden State Laboratories, Inc.Project:Waste Water 2024Contact:Sharon ErcolianiLocation:VOA Ref. #3 Water

Sample Date **Prep Date** LabID ClientID Matrix Method **Anal Date** Test Received P4646-01 241030069-01-VOA Water 10/30/24 10/31/24 VOCMS Group1 624.1 10/31/24 P4646-02 241030043-05-TRIP-Water 10/30/24 10/31/24 **BLANK** VOCMS Group1 10/31/24 624.1

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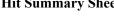


Hit Summary Sheet

8260-Low

SDG No.: P4646

Client: Garden State Laboratories, Inc.



Sample ID	Client ID	Matrix	Parameter	Cor	ncentration	C	MDL	RDL	Units
Client ID:	241030069-01-VC		Vr. 1011 :1		0.42		0.24	1.00	/1
P4646-01	241030069-01-VC		Vinyl Chloride		0.42	J	0.34	1.00	ug/L
P4646-01	241030069-01-V0		Acetone		340		1.40	5.00	ug/L
P4646-01	241030069-01-V0		Carbon Disulfide		0.57	J	0.32	1.00	ug/L
P4646-01	241030069-01-V0		Methyl tert-butyl Ether		3.40		0.16	1.00	ug/L
P4646-01	241030069-01-VC		Methyl Acetate		1.10		0.60	1.00	ug/L
P4646-01	241030069-01-V		2-Butanone		290		1.30	5.00	ug/L
P4646-01	241030069-01-V		Benzene		4.80		0.16	1.00	ug/L
P4646-01	241030069-01-V	OA Water	4-Methyl-2-Pentanone		4.20	J	0.75	5.00	ug/L
P4646-01	241030069-01-V	OA Water	Toluene		3.00		0.18	1.00	ug/L
P4646-01	241030069-01-V	OA Water	Chlorobenzene		1.40		0.13	1.00	ug/L
P4646-01	241030069-01-V	OA Water	Ethyl Benzene		7.00		0.16	1.00	ug/L
P4646-01	241030069-01-V0	OA Water	m/p-Xylenes		9.70		0.31	2.00	ug/L
P4646-01	241030069-01-VC	OA Water	o-Xylene		6.20		0.14	1.00	ug/L
P4646-01	241030069-01-VC	OA Water	Styrene		0.58	J	0.16	1.00	ug/L
P4646-01	241030069-01-V0	OA Water	Isopropylbenzene		1.10		0.13	1.00	ug/L
P4646-01	241030069-01-V0	OA Water	1,4-Dichlorobenzene		4.40		0.27	1.00	ug/L
P4646-01	241030069-01-V	OA Water	1,2-Dichlorobenzene		0.43	J	0.19	1.00	ug/L
			Total Voc:		678	3			
P4646-01	241030069-01-V0	OA Water	unknown13.475	*	23.6	J	0	0	ug/L
P4646-01	241030069-01-V0	OA Water	unknown13.932	*	10.0	J	0	0	ug/L
P4646-01	241030069-01-V0	OA Water	unknown14.097	*	21.4	J	0	0	ug/L
P4646-01	241030069-01-V0	OA Water	2-Propanol, 2-methyl-	*	460	J	0	0	ug/L
P4646-01	241030069-01-V0	OA Water	Dimethyl ether	*	25.8	J	0	0	ug/L
P4646-01	241030069-01-V0	OA Water	(+)-2-Bornanone	*	130	J	0	0	ug/L
P4646-01	241030069-01-V0	OA Water	Cyclohexanol, 5-methyl-2-(1-n	r *	30.8	J	0	0	ug/L
P4646-01	241030069-01-V0	OA Water	L-Fenchone	*	94.4	J	0	0	ug/L
P4646-01	241030069-01-V0	OA Water	Tetrahydrofuran	*	610	J	1.20	5.00	ug/L
P4646-01	241030069-01-V0	OA Water	Diethyl Ether	*	2.90	J	0.20	1.00	ug/L
P4646-01	241030069-01-V0	OA Water	n-propylbenzene	*	0.55	J	0.14	1.00	ug/L
P4646-01	241030069-01-V0	OA Water	2-Chlorotoluene	*	0.58	J	0.16	1.00	ug/L
P4646-01	241030069-01-V0	OA Water	1,3,5-Trimethylbenzene	*	0.93	J	0.18	1.00	ug/L
P4646-01	241030069-01-V0	D ∕ Water	1,2,4-Trimethylbenzene	*	3.80	J	0.18	1.00	ug/L
P4646-01	241030069-01-V0		p-Isopropyltoluene	*	1.30	J	0.15	1.00	ug/L
P4646-01	241030069-01-V0		Naphthalene	*	39.2	J	0.59	1.00	ug/L
			r			•		1.30	0

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

Fax: 908 789 8922

Hit Summary Sheet

8260-Low

SDG No.: P4646

Client: Garden State Laboratories, Inc.

Sample ID Client ID Matrix Parameter Concentration C MDL RDL Units

Total Tics: 1590
Total Concentration: 2260

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SAMPLE DATA

6

A



1

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P4646



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

SDG No.:

Report of Analysis

Client:Garden State Laboratories, Inc.Date Collected:10/30/24Project:Waste Water 2024Date Received:10/31/24

Lab Sample ID: P4646-01 Matrix: Water

241030069-01-VOA

Analytical Method: SW8260 % Solid: 0

Sample Wt/Vol: 5 Units: mL Final Vol: 5000 uL

Soil Aliquot Vol: uL Test: VOCMS Group2

GC Column: DB-624UI ID: 0.18 Level: LOW

Prep Method:

Client Sample ID:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID VX043649.D 1 10/31/24 14:27 VX103124

Qualifier **MDL** Units **CAS Number** Parameter Conc. LOQ / CRQL **TARGETS** Dichlorodifluoromethane 0.21 1.00 75-71-8 U 0.21 ug/L 74-87-3 Chloromethane 0.35 U 0.35 1.00 ug/L 75-01-4 Vinyl Chloride 0.42 J 0.34 1.00 ug/L 74-83-9 Bromomethane 1.40 U 1.40 5.00 ug/L U 75-00-3 Chloroethane 0.56 0.56 1.00 ug/L 75-69-4 Trichlorofluoromethane 0.34 U 0.34 1.00 ug/L 76-13-1 1,1,2-Trichlorotrifluoroethane 0.25 U 0.25 1.00 ug/L 75-35-4 0.26 U 0.26 1.00 1,1-Dichloroethene ug/L 67-64-1 340 1.40 Acetone 5.00 ug/L J 0.32 75-15-0 Carbon Disulfide 0.57 1.00 ug/L 0.16 1634-04-4 Methyl tert-butyl Ether 3.40 1.00 ug/L 79-20-9 Methyl Acetate 1.10 0.60 1.00 ug/L U 75-09-2 Methylene Chloride 0.32 0.32 1.00 ug/L 156-60-5 trans-1,2-Dichloroethene 0.25 U 0.25 1.00 ug/L 75-34-3 1,1-Dichloroethane 0.23 U 0.23 1.00 ug/L Cyclohexane IJ 5.00 110-82-7 1.60 1.60 ug/L 78-93-3 2-Butanone 290 1.30 5.00 ug/L 0.25 U 56-23-5 Carbon Tetrachloride 0.25 1.00 ug/L 156-59-2 cis-1,2-Dichloroethene 0.25 U 0.25 1.00 ug/L U 74-97-5 Bromochloromethane 0.180.18 1.00 ug/L U 0.26 67-66-3 Chloroform 0.26 1.00 ug/L U 0.19 0.19 1.00 71-55-6 1,1,1-Trichloroethane ug/L U 108-87-2 Methylcyclohexane 0.19 0.19 1.00 ug/L 4.80 71-43-2 Benzene 0.16 1.00 ug/L 107-06-2 1,2-Dichloroethane 0.24 U 0.24 1.00 ug/L 79-01-6 Trichloroethene 0.32 U 0.32 1.00 ug/L 0.19 U 78-87-5 1,2-Dichloropropane 0.19 1.00 ug/L Bromodichloromethane U 75-27-4 0.24 0.24 1.00 ug/L 108-10-1 4-Methyl-2-Pentanone 4.20 J 0.75 5.00 ug/L 108-88-3 Toluene 3.00 0.18 1.00 ug/L

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uL

LOW



Report of Analysis

Client: Garden State Laboratories, Inc. Date Collected: 10/30/24 Project: Date Received: 10/31/24 Waste Water 2024 Client Sample ID: 241030069-01-VOA SDG No.: P4646 Matrix: Water Lab Sample ID: P4646-01 Analytical Method: SW8260 % Solid: Sample Wt/Vol: 5 Final Vol: 5000 Units: mLVOCMS Group2 Soil Aliquot Vol: uL Test:

GC Column: DB-624UI ID: 0.18 Level:

Prep Method:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID
VX043649.D 1 10/31/24 14:27 VX103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	1.40		0.13	1.00	ug/L
100-41-4	Ethyl Benzene	7.00		0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	9.70		0.31	2.00	ug/L
95-47-6	o-Xylene	6.20		0.14	1.00	ug/L
100-42-5	Styrene	0.58	J	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	1.10		0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	4.40		0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.43	J	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.9		74 - 125	92%	SPK: 50
1868-53-7	Dibromofluoromethane	45.6		75 - 124	91%	SPK: 50
2037-26-5	Toluene-d8	50.7		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		77 - 121	100%	SPK: 50
INTERNAL STA						
363-72-4	Pentafluorobenzene	97300	5.544			
540-36-3	1,4-Difluorobenzene	181000	6.757			
3114-55-4	Chlorobenzene-d5	165000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	73800	12.024			
TENTATIVE ID	ENTIFIED COMPOUNDS					

P4646 19 of 28

uL

LOW



DB-624UI

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

Level:

Report of Analysis

Client: Garden State Laboratories, Inc. Date Collected: 10/30/24 Date Received: Project: Waste Water 2024 10/31/24 241030069-01-VOA SDG No.: P4646 Client Sample ID: Lab Sample ID: P4646-01 Matrix: Water Analytical Method: SW8260 % Solid: Final Vol: 5000 Sample Wt/Vol: 5 Units: mLSoil Aliquot Vol: Test: VOCMS Group2 uL

GC Column:

Prep Method:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID VX043649.D 1 10/31/24 14:27 VX103124

ID: 0.18

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
000115-10-6	Dimethyl ether	25.8	J		1.25	ug/L
60-29-7	Diethyl Ether	2.90	J		2.14	ug/L
000075-65-0	2-Propanol, 2-methyl-	460	J		3.00	ug/L
109-99-9	Tetrahydrofuran	610	J		5.01	ug/L
123-91-1	1,4-Dioxane	130	J		7.68	ug/L
103-65-1	n-propylbenzene	0.55	J		11.3	ug/L
95-49-8	2-Chlorotoluene	0.58	J		11.4	ug/L
108-67-8	1,3,5-Trimethylbenzene	0.93	J		11.5	ug/L
95-63-6	1,2,4-Trimethylbenzene	3.80	J		11.8	ug/L
99-87-6	p-Isopropyltoluene	1.30	J		12.0	ug/L
007787-20-4	L-Fenchone	94.4	J		12.9	ug/L
	unknown13.475	23.6	J		13.5	ug/L
000464-49-3	(+)-2-Bornanone	130	J		13.5	ug/L
002216-52-6	Cyclohexanol, 5-methyl-2-(1-methyl	30.8	J		13.6	ug/L
91-20-3	Naphthalene	39.2	J		13.8	ug/L
	unknown13.932	10.0	J		13.9	ug/L
	unknown14.097	21.4	J		14.1	ug/L

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

P4646 **20 of 28**



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

Report of Analysis

Client: Garden State Laboratories, Inc. Date Collected: 10/30/24 Project: Date Received: Waste Water 2024 10/31/24 Client Sample ID: 241030043-05-TRIP-BLANK SDG No.: P4646 Matrix: Water Lab Sample ID: P4646-02 Analytical Method: SW8260 % Solid:

Sample Wt/Vol: 5 Final Vol: 5000 uL Units: mL

VOCMS Group2 Soil Aliquot Vol: uL Test: Level: LOW

GC Column: DB-624UI ID: 0.18

Prep Method:

Dilution: File ID/Qc Batch: Prep Date Date Analyzed Prep Batch ID VX043648.D 1 10/31/24 14:03 VX103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L

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

SDG No.:

Test:

P4646

VOCMS Group2

Report of Analysis

Client:Garden State Laboratories, Inc.Date Collected:10/30/24Project:Waste Water 2024Date Received:10/31/24

Lab Sample ID: P4646-02 Matrix: Water

241030043-05-TRIP-BLANK

Analytical Method: SW8260 % Solid: 0

Sample Wt/Vol: 5 Units: mL Final Vol: 5000 uL

GC Column: DB-624UI ID: 0.18 Level: LOW

uL

Prep Method:

Soil Aliquot Vol:

Client Sample ID:

File ID/Qc Batch: Dilution: Prep Date Date Analyzed Prep Batch ID VX043648.D 1 10/31/24 14:03 VX103124

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.2		74 - 125	84%	SPK: 50
1868-53-7	Dibromofluoromethane	45.6		75 - 124	91%	SPK: 50
2037-26-5	Toluene-d8	49.2		86 - 113	98%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.3		77 - 121	95%	SPK: 50
INTERNAL STA						
363-72-4	Pentafluorobenzene	101000	5.55			
540-36-3	1,4-Difluorobenzene	187000	6.757			
3114-55-4	Chlorobenzene-d5	165000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	72800	12.024			

P4646 **22 of 28**





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

Report of Analysis

Client: Garden State Laboratories, Inc.

5

Date Collected: 10/30/24

Project: Waste Water 2024

Date Received: 10/31/24

Client Sample ID: 241030043-05-TRIP-BLANK

SDG No.: P4646

Lab Sample ID: P4646-02

Matrix: Water

Analytical Method: SW8260

% Solid:

Sample Wt/Vol:

mL

Final Vol: 5000 uL

LOW

Soil Aliquot Vol:

File ID/Qc Batch:

VX043648.D

иL

ID: 0.18

Units:

Test: VOCMS Group2

GC Column:

Prep Method:

Dilution:

1

DB-624UI

Prep Date

Date Analyzed

Prep Batch ID

10/31/24 14:03

Level:

VX103124

CAS Number

Parameter

Conc.

Qualifier

MDL

LOQ / CRQL

Units

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

P4646 **23 of 28**



LAB CHRONICLE

OrderID: P4646 OrderDate: 10/31/2024 10:57:00 AM

Client:Garden State Laboratories, Inc.Project:Waste Water 2024Contact:Sharon ErcolianiLocation:VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4646-01	241030069-01-VOA	Water			10/30/24			10/31/24
			VOCMS Group1	624.1			10/31/24	
			VOCMS Group2	8260-Low			10/31/24	
P4646-02	241030043-05-TRIP- BLANK	Water			10/30/24			10/31/24
			VOCMS Group1	624.1			10/31/24	
			VOCMS Group2	8260-Low			10/31/24	

P4646 **24 of 28**

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SHIPPING DOCUMENTS

P4646 **25 of 28**

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Signature:	ic Asken			Campled by (pour.	SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW EACH TIME PLEASE PRINT YOUR NAME LEGIBLY, USE FULL LEGAL SIGNATION	VOA UNPRESERVED DUE TO EFFERVESCENSE - 3	Note:	Payment Method:	IMI	POI	Standard Report + E2	AN	TURNAROUND TIME:	Container Type: $H = Hastic$ $G = Glass$ $A = Amber Glass$ $T = Sterile Thio V = Grass T =$	TED NAMI	Trip blank 14/03/0043-05 — EPA 8260 TCL LIST +	VOA 24/03/2064-01 10/30 24 10.56 X EPA 8260 TCL LIST + 1	SAMPLE ID Date Time AM PM List attached	SAMPLE COLLECTION ANALYSIS	SAMPLE LOCATI ACUA SW LANDFILL LEACHATE	SAMPLE TYPE: WASTE WATER	SAMPLE INFORMATION	City/State/Zip: Hilside, NJ. 07205			ED	West Jersey Office:	North Jersey Office:		Main Lab - 410 Hillside Avenue, Hillside NJ 07205 - NJDEP Lab Cert. J Jersey Shore Lab - 54 Main Street, Waretown NJ 08758 - NJDEP Lab C	Garden State Laboratories, Inc.
-	Date/Time in lan low 16-2)	Date/Time:	Date/Time:	TANG TIME	S CHANGE POSSESSION	AT PER JORDAN HE	417	: See Quote	Amount Due: \$		METHOD OF SHIPMEN Deliver		SEND TO: Chem Tech	* SUBCONTRACTED WORK		2 /	3 V 40m1		- II >	DELEVERED BY OF IGNIT	PICK-UP AT DROP OFF LOCATION	GSL FIELD SAMPLER/PICK-UP	SAMPLE REC'D BY:	CHEM. #	MICRO#	GSL CLIENT #				OR SAMPLE RECEIVING USE ONLY DATE/TIME/TEMP, REC'D AT LAB:	9191A
The same of the sa	Received/Relinquished by (PRINT): ハルサ JACはらり Signature:	Received/Relinquished by (PRINT): MARCESON Signature: Signature: Date/Time: 10.30124 (Date/Time: 10.30124)	Received/Relinquished by (PRINT): 100 (C) ASK M. Signature: Date/Time: Date/T	Received/Relinquished by (PRINT): Date/Time: Signature: Signature: Date/Time: Date/Time: Signature: Date/Time:	Sampled by (PRINT): Client/Client's Representative (PRINT): 1. Received/Relinquished by (PRINT): 2. Received/Relinquished by (PRINT): Client/Client's Representative (PRINT): Signature: Signature: Signature: Date/Time: 0.3924 Date	Sampled by (PRINT): Client/Client's Representative (PRINT): 1. Received/Relinquished by (PRINT): Client/Client's how (PRINT): Client/Client's Representative (PRINT): Client's Representative (PRINT)	Sampled by (PRINT): Client/Client's Representative (PRINT): 1. Received/Relinquished by (PRINT): Client/Client's Received/Relinquished by (PRINT): Client/Client's Representative (PRINT): Client/Cl	Note: VOA UNPRESERVED DUE TO EFFERVESCENSE - 3 DAY TAT PER JORDAN SAMPLE CUSTODY EXCHANGES MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION PLEASE PRINT YOUR NAME LEGIBLY, USE FULL LEGAL SIGNATURE, DATE AND TIME Signature: Client/Client's Representative (PRINT): 1. Received/Relinquished by (PRINT): Out-Time: Date/Time: Date/Date/Date/Date/Date/Date/Date/Date/	Note: VOA UNPRESERVED DUE TO EFFERVESCENSE - 3 DAY TAT PER JORDAN HE Sampled by (PRINT): Client/Client's Representative (PRINT): 1. Received/Relinquished by (PRINT): Payment Method: Credit Card Type: Check # Check #	Sampling/Pick-up Fee: \$ Composite Fee: \$ Amount Due: \$	PAYMENT INFORMATION Sampling/Pick-up Fee: \$	Standard Report + E2 PWS ID#: PAYMENT INFORMATION Sampling/Pick-up Fee: \$ Composite Fee: \$ Amount Due: \$ Payment Method: Credit Card Type: Check # Other: See Quote Note: VOA UNPRESERVED DUE TO EFFERVESCENSE - 3 DAY TAT PER JORDAN HE Sampled by (PRINT): Signature: Signature: Date/Time: Date	Standard Report Other/Specify: DATE/TIME:	TURNAROUND TIME:	Sumpling/Pick-up Fee: \$ Commonst Type: Sumpled by (PRINT): Act of Cars Fear Fear	Sampled by (PRINT): Clear College Clear	Trip blank Dy 10 300 43.	Trip blank \$\frac{1}{2}\text{Delta} \text{VOA_2\text{10}}\text{200}\text{64_00} \text{list} + Acrollen & Acrylonitrile \	SAMPLE ID Control Co	SAMPLE ID SAMPLE ID SAMPLE COLLECTION SAMPLE COLLECTION SAMPLE COLLECTION SAMPLE COLLECTION Sample Date Time Am Frager Sample Sample	SAMPLE LOCATI ACUA SW LANDFILL LEACHATE TANKS SAMPLE OLLECTION SAMPLE TONK SAMPLE OLLECTION SAMPLE COLLECTION SAMPLE COLLECTION SAMPLE CONTAINER INFORMATION No. 179,007 Size Pres. 179,00	SAMPLE TYPE: WASTE WATER	SAMPLE TYPE: WASTE WATER SAMPLE INFORMATION SAMPLE DELOS AMPLERPICKUP AT DROP OFF LOCATI SAMPLE LOCATIACUA SW LANDFILL LEACHATE TANKS SAMPLE COLLECTION. SAMPLE COLLECTION. SAMPLE COLLECTION. SAMPLE DELOS SAMPLE DELOS SAMPLE DELOS SAMPLE DELOS SAMPLE DELOS SAMPLE DELOS SAMPLE COLLECTION. SAMPLE COLLECTION. SAMPLE COLLECTION. SAMPLE COLLECTION. SAMPLE DELOS SAMPLE DELOS SAMPLE DELOS SAMPLE DELOS SAMPLE DELOS SAMPLE NECONTAINER INFORMATION SAMPLE SERVICE SAMPLE S	SAMPLE TYPE: WASTE WATER SAMPLE INFORMATION SAMPLE REC'D BY: SAMPLE REC'D BY: SAMPLE REC'D BY: SAMPLE LOCATIACUA SW LANDFILL LEACHATE TANKS SAMPLE COLLECTION; ANALYSIS REQUIRED (Print Legibly) CONTAINER INFORMATION SAMPLE COLLECTION; SAMPLE COLLECTION; ANALYSIS REQUIRED (Print Legibly) CONTAINER INFORMATION Sampling Princ Legible Sampling Princ Leg	Mailing Address: 410 Hillside Ave. Phone: 908-688-8900 EXT 129 CHEM. #	Name: Garden State Laboratories, Inc. Contact/Authorized by; Robert Szot	CLIENT INFORMATION Contact/Authorized by, Robert Szot Ministry Address: 410 Hillside Ave. Contact/Authorized by, Robert Szot Ministry Address: 410 Hillside Ave. Contact/Authorized by, Robert Szot Ministry Address: 410 Hillside Ave. Contact/Authorized by, Robert Szot Ministry Address: 410 Hillside Ave. Contact/Authorized by, Robert Szot Ministry Address: 410 Hillside Ave. Contact/Authorized by, Robert Szot Ministry Address: 410 Hillside Ave. Contact/Authorized by, Robert Szot Contact/Authorized by, Robert Syot Contact/Authorized by, Robert Szot Contact/Authorized	Received Region Prince: 19/30 Route 31 North, Clien Courtmer, NJ 08257 7et 1998; 337-7414	Micro Micr	Page	Main Lab - 410 Hillside Avenue, Hillside NJ 07205, NJDEP LAD Cert, #20044 Fiel 800-277-8007/806-838-8000 Fax 908-888-8966 www.gabas.com info@gslabs.com Office and Drop off Locations. North-Acres Office: 235 Spuria Avenue, Sporas, JU 0875 Fax 198-337-744 CLIENT INFORMATION North-Acres Office: 235 Spuria Avenue, Sporas, JU 0871 Fax 198-337-744 CLIENT INFORMATION INFORMATION North-Acres Office: 235 Spuria Avenue, Sporas, JU 0871 Fax 198-337-744 CLIENT INFORMATION INFORMATION North-Card Office: 235 Spuria Avenue, Sporas, JU 0871 Fax 198-337-744 CLIENT INFORMATION INFORMATION SAMPLE TYPE: WASTE WATER SAMPLE ID SAMPLE OCATA-ACUA SPU Avenue, Sporas, JU 101-101-101-101-101-101-101-101-101-101

P4646

The liability of Garden State Laboratories, Inc. for services rendered shall in no event excess Main Lab certified by NJ Dept. of Health, NJDEP-TNI, NY Dept. of Health #1155 John



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

QA Control Code: A2070148





LOGIN REPORT/SAMPLE TRANSFER

Order ID: P4646

GARD04

Fax: 908 789 8922

Order Date: 10/31/2024 10:57:00 AM

Project Mgr:

Client Name: Garden State Laboratories, 1

Project Name: Waste Water 2024

Report Type: Level 1

Client Contact: Sharon Ercoliani

Receive DateTime: 10/31/2024 8:28:00 AM

EDD Type: EXCEL NOCLEANUP

Invoice Name: Garden State Laboratories, 1

Purchase Order:

Hard Copy Date:

Invoice Contact: Sharon Ercoliani

Date Signoff:

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
P4646-01	241030069-01-VOA	Water	10/30/2024	10:56						
					VOCMS Group1		624.1	10 Bus. Days		
					VOCMS Group2		8260-Low	10 Bus. Days		
P4646-02	241030043-05-TRIP-BLANK	Water	10/30/2024	00:00						
					VOCMS Group1		624.1	10 Bus. Days		
					VOCMS Group2		8260-Low	10 Bus. Days		

Relinguished By:

Date / Time : 10-31-24

Received By:

Date / Time:

Storage Area: VOA Refridgerator Room