

ANALYTICAL RESULTS SUMMARY

SEMI-VOLATILE ORGANICS
VOLATILE ORGANICS

PROJECT NAME : NWIRP BETHPAGE 112G08005-WE13

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : Q2314

ATTENTION : Ernie Wu



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q2314

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q2314-01
Q2314-02
Q2314-04
Q2314-05
Q2314-06
Q2314-08

Client Sample Number

BP-VPB-182-TB-20250610
BP-VPB-182-GW-820-822
BP-VPB-182-GW-880-882
BP-VPB-182-EB-20250612
VPB182-HYD-20250612
BP-VPB-182-GW-840-842

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 2:40 pm, Jun 24, 2025

Date: 6/21/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage 112G08005-WE13

Project Manager # Ernie Wu

Order ID # Q2314

Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

1 Solid sample was received on 06/12/2025.

5 Water samples were received on 06/12/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. 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 performed on instrument MSVOA_Y 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 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 for {VY0616SBSD01} with File ID: VY022698.D met criteria except for Chloromethane[25%] due to difference in results of BS and BSD.

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 File ID VY022695.D met the requirements except for Acetone is failing marginally high therefore no corrective action taken.

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.

The Sample #BP-VPB-182-GW-840-842 have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

The not QT review data is reported in the Miscellaneous.

The soil samples results are based on a dry weight basis.

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.

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 2:40 pm, Jun 24, 2025

Signature_____

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage 112G08005-WE13

Project Manager : Ernie Wu

Order ID # Q2314

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

1 Solid sample was received on 06/12/2025.

5 Water samples were received on 06/12/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. This data package contains results for SVOC-SIMGroup1.

C. Analytical Techniques:

The samples were analyzed on instrument BNA_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOC-SIMGroup1 was based on method 8270-Modified and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for, VPB182-HYD-20250612 [2-Methylnaphthalene-d10 - 7%], Due to matrix interference which can be observed by the abnormal chromatogram. and due to the limited volume availability of this water sample it can not be re extracted and as reanalysis of this sample will give the same result. Therefor no further corrective action was taken.

The Internal Standards Areas met the acceptable requirements except for PB168476BS, Not associated, therefor no further action was taken.

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 Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The not QT review data is reported in the Miscellaneous.

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).”

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_____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 2:40 pm, Jun 24, 2025

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 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 #: Q2314

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: SOHIL JODHANI

Date: 06/21/2025

LAB CHRONICLE

OrderID:	Q2314	OrderDate:	6/12/2025 3:59:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	D41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2314-01	BP-VPB-182-TB-2025 0610	Water			06/10/25			06/12/25
			VOCMS Group1	8260-Low			06/13/25	
Q2314-02	BP-VPB-182-GW-820- 822	Water			06/10/25			06/12/25
			VOCMS Group1	8260-Low			06/13/25	
Q2314-04	BP-VPB-182-GW-880- 882	Water			06/12/25			06/12/25
			VOCMS Group1	8260-Low			06/13/25	
Q2314-05	BP-VPB-182-EB-2025 0612	Water			06/12/25			06/12/25
			VOCMS Group1	8260-Low			06/13/25	
Q2314-06	VPB182-HYD-202506 12	Water			06/12/25			06/12/25
			VOCMS Group1	8260-Low			06/13/25	
Q2314-08	BP-VPB-182-GW-840- 842	SOIL			06/11/25			06/12/25
			VOCMS Group1	8260D			06/16/25	

Hit Summary Sheet
SW-846

SDG No.: Q2314
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID:	BP-VPB-182-GW-820-822								
Q2314-02	BP-VPB-182-GW-8 Water	Acetone		7.70		1.50	3.80	5.00	ug/L
Q2314-02	BP-VPB-182-GW-8 Water	Carbon Disulfide		1.20		0.21	0.75	1.00	ug/L
		Total Voc :		8.90					
		Total Concentration:		8.90					
Client ID:	BP-VPB-182-EB-20250612								
Q2314-05	BP-VPB-182-EB-2(Water	Acetone		47.7		1.50	3.80	5.00	ug/L
Q2314-05	BP-VPB-182-EB-2(Water	2-Butanone		7.70		0.98	2.50	5.00	ug/L
		Total Voc :		55.4					
		Total Concentration:		55.4					
Client ID:	VPB182-HYD-20250612								
Q2314-06	VPB182-HYD-2025 Water	Dibromochloromethane		1.20		0.18	0.50	1.00	ug/L
		Total Voc :		1.20					
		Total Concentration:		1.20					
Client ID:	BP-VPB-182-GW-840-842								
Q2314-08	BP-VPB-182-GW-8 SOIL	Acetone		140	J	59.3	250	310	ug/Kg
Q2314-08	BP-VPB-182-GW-8 SOIL	Methylene Chloride		75.2	J	44.2	100	130	ug/Kg
		Total Voc :		215					
		Total Concentration:		215					



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	06/10/25		
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:	06/12/25		
Client Sample ID:	BP-VPB-182-TB-20250610			SDG No.:	Q2314		
Lab Sample ID:	Q2314-01			Matrix:	Water		
Analytical Method:	8260D			% Solid:	0		
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL	
Soil Aliquot Vol:			uL	Test:	VOCMS Group1		
GC Column:	RXI-624	ID :	0.25	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087003.D	1		06/13/25 15:50	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	06/10/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	06/12/25	
Client Sample ID:	BP-VPB-182-TB-20250610		SDG No.:	Q2314	
Lab Sample ID:	Q2314-01		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087003.D	1		06/13/25 15:50	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.2		81 - 118		102%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	52.1		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.2		85 - 114		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	203000	8.236				
540-36-3	1,4-Difluorobenzene	393000	9.106				
3114-55-4	Chlorobenzene-d5	350000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	169000	13.794				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	06/10/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	06/12/25	
Client Sample ID:	BP-VPB-182-TB-20250610		SDG No.:	Q2314	
Lab Sample ID:	Q2314-01		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087003.D	1		06/13/25 15:50	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	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

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	06/10/25	
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:	06/12/25	
Client Sample ID:	BP-VPB-182-GW-820-822			SDG No.:	Q2314	
Lab Sample ID:	Q2314-02			Matrix:	Water	
Analytical Method:	8260D			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087006.D	1		06/13/25 16:56	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	7.70		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	1.20		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	06/10/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	06/12/25	
Client Sample ID:	BP-VPB-182-GW-820-822		SDG No.:	Q2314	
Lab Sample ID:	Q2314-02		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087006.D	1		06/13/25 16:56	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	54.0		81 - 118		108%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	51.9		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.8		85 - 114		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	194000	8.235				
540-36-3	1,4-Difluorobenzene	388000	9.106				
3114-55-4	Chlorobenzene-d5	349000	11.864				
3855-82-1	1,4-Dichlorobenzene-d4	167000	13.794				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	06/10/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	06/12/25	
Client Sample ID:	BP-VPB-182-GW-820-822		SDG No.:	Q2314	
Lab Sample ID:	Q2314-02		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087006.D	1		06/13/25 16:56	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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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:	Tetra Tech NUS, Inc.			Date Collected:	06/12/25	
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:	06/12/25	
Client Sample ID:	BP-VPB-182-GW-880-882			SDG No.:	Q2314	
Lab Sample ID:	Q2314-04			Matrix:	Water	
Analytical Method:	8260D			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087005.D	1		06/13/25 16:34	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	06/12/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	06/12/25	
Client Sample ID:	BP-VPB-182-GW-880-882		SDG No.:	Q2314	
Lab Sample ID:	Q2314-04		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087005.D	1		06/13/25 16:34	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.7		81 - 118		107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	51.7		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.0		85 - 114		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	207000	8.236				
540-36-3	1,4-Difluorobenzene	419000	9.106				
3114-55-4	Chlorobenzene-d5	374000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	177000	13.788				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	06/12/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	06/12/25	
Client Sample ID:	BP-VPB-182-GW-880-882		SDG No.:	Q2314	
Lab Sample ID:	Q2314-04		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087005.D	1		06/13/25 16:34	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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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:	Tetra Tech NUS, Inc.			Date Collected:	06/12/25	
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:	06/12/25	
Client Sample ID:	BP-VPB-182-EB-20250612			SDG No.:	Q2314	
Lab Sample ID:	Q2314-05			Matrix:	Water	
Analytical Method:	8260D			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087007.D	1		06/13/25 17:18	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	47.7		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	7.70		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	06/12/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	06/12/25	
Client Sample ID:	BP-VPB-182-EB-20250612		SDG No.:	Q2314	
Lab Sample ID:	Q2314-05		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087007.D	1		06/13/25 17:18	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.2		81 - 118		104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.1		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	52.5		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.3		85 - 114		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	208000	8.236				
540-36-3	1,4-Difluorobenzene	405000	9.106				
3114-55-4	Chlorobenzene-d5	368000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	178000	13.788				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	06/12/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	06/12/25	
Client Sample ID:	BP-VPB-182-EB-20250612		SDG No.:	Q2314	
Lab Sample ID:	Q2314-05		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087007.D	1		06/13/25 17:18	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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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:	Tetra Tech NUS, Inc.			Date Collected:	06/12/25	
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:	06/12/25	
Client Sample ID:	VPB182-HYD-20250612			SDG No.:	Q2314	
Lab Sample ID:	Q2314-06			Matrix:	Water	
Analytical Method:	8260D			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID :	0.25	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087002.D	1		06/13/25 15:28	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	06/12/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	06/12/25	
Client Sample ID:	VPB182-HYD-20250612		SDG No.:	Q2314	
Lab Sample ID:	Q2314-06		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087002.D	1		06/13/25 15:28	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	1.20		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.9		81 - 118		102%	SPK: 50
1868-53-7	Dibromofluoromethane	50.7		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	51.4		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.9		85 - 114		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	208000	8.23				
540-36-3	1,4-Difluorobenzene	403000	9.106				
3114-55-4	Chlorobenzene-d5	360000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	174000	13.788				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	06/12/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	06/12/25	
Client Sample ID:	VPB182-HYD-20250612		SDG No.:	Q2314	
Lab Sample ID:	Q2314-06		Matrix:	Water	
Analytical Method:	8260D		% Solid:	0	
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087002.D	1		06/13/25 15:28	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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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:	Tetra Tech NUS, Inc.		Date Collected:	06/11/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	06/12/25	
Client Sample ID:	BP-VPB-182-GW-840-842		SDG No.:	Q2314	
Lab Sample ID:	Q2314-08		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	7.9	
Sample Wt/Vol:	5.06	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022701.D	1		06/16/25 12:09	VY061625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
74-87-3	Chloromethane	31.3	U	14.3	31.3	62.5	ug/Kg
75-01-4	Vinyl Chloride	31.3	U	9.90	31.3	62.5	ug/Kg
74-83-9	Bromomethane	50.0	U	13.4	50.0	62.5	ug/Kg
75-00-3	Chloroethane	31.3	U	15.8	31.3	62.5	ug/Kg
75-69-4	Trichlorofluoromethane	50.0	U	15.1	50.0	62.5	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	31.3	U	13.3	31.3	62.5	ug/Kg
75-35-4	1,1-Dichloroethene	31.3	U	12.5	31.3	62.5	ug/Kg
67-64-1	Acetone	140	J	59.3	250	310	ug/Kg
75-15-0	Carbon Disulfide	50.0	U	13.3	50.0	62.5	ug/Kg
1634-04-4	Methyl tert-butyl Ether	31.3	U	9.10	31.3	62.5	ug/Kg
75-09-2	Methylene Chloride	75.2	J	44.2	100	130	ug/Kg
156-60-5	trans-1,2-Dichloroethene	31.3	U	10.8	31.3	62.5	ug/Kg
75-34-3	1,1-Dichloroethane	31.3	U	10.0	31.3	62.5	ug/Kg
78-93-3	2-Butanone	250	U	81.8	250	310	ug/Kg
56-23-5	Carbon Tetrachloride	31.3	U	12.1	31.3	62.5	ug/Kg
156-59-2	cis-1,2-Dichloroethene	31.3	U	9.40	31.3	62.5	ug/Kg
67-66-3	Chloroform	50.0	U	10.5	50.0	62.5	ug/Kg
71-55-6	1,1,1-Trichloroethane	31.3	U	11.6	31.3	62.5	ug/Kg
108-87-2	Methylcyclohexane	31.3	U	11.4	31.3	62.5	ug/Kg
71-43-2	Benzene	31.3	U	9.90	31.3	62.5	ug/Kg
107-06-2	1,2-Dichloroethane	31.3	U	9.90	31.3	62.5	ug/Kg
79-01-6	Trichloroethene	31.3	U	10.1	31.3	62.5	ug/Kg
78-87-5	1,2-Dichloropropane	31.3	U	11.4	31.3	62.5	ug/Kg
75-27-4	Bromodichloromethane	31.3	U	9.80	31.3	62.5	ug/Kg
108-10-1	4-Methyl-2-Pentanone	160	U	44.8	160	310	ug/Kg
108-88-3	Toluene	31.3	U	9.80	31.3	62.5	ug/Kg
10061-02-6	t-1,3-Dichloropropene	31.3	U	8.10	31.3	62.5	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	31.3	U	7.80	31.3	62.5	ug/Kg
79-00-5	1,1,2-Trichloroethane	31.3	U	11.5	31.3	62.5	ug/Kg
591-78-6	2-Hexanone	160	U	46.2	160	310	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	06/11/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	06/12/25	
Client Sample ID:	BP-VPB-182-GW-840-842		SDG No.:	Q2314	
Lab Sample ID:	Q2314-08		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	7.9	
Sample Wt/Vol:	5.06	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022701.D	1		06/16/25 12:09	VY061625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
124-48-1	Dibromochloromethane	31.3	U	10.9	31.3	62.5	ug/Kg
127-18-4	Tetrachloroethene	31.3	U	13.1	31.3	62.5	ug/Kg
108-90-7	Chlorobenzene	31.3	U	11.4	31.3	62.5	ug/Kg
100-41-4	Ethyl Benzene	31.3	U	8.40	31.3	62.5	ug/Kg
179601-23-1	m/p-Xylenes	62.5	U	15.5	62.5	130	ug/Kg
95-47-6	o-Xylene	31.3	U	10.3	31.3	62.5	ug/Kg
100-42-5	Styrene	31.3	U	8.90	31.3	62.5	ug/Kg
75-25-2	Bromoform	31.3	U	10.8	31.3	62.5	ug/Kg
98-82-8	Isopropylbenzene	31.3	U	9.80	31.3	62.5	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	31.3	U	15.1	31.3	62.5	ug/Kg
541-73-1	1,3-Dichlorobenzene	31.3	U	21.4	31.3	62.5	ug/Kg
106-46-7	1,4-Dichlorobenzene	31.3	U	19.5	31.3	62.5	ug/Kg
95-50-1	1,2-Dichlorobenzene	31.3	U	18.1	31.3	62.5	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.1		71 - 136		110%	SPK: 50
1868-53-7	Dibromofluoromethane	53.4		78 - 119		107%	SPK: 50
2037-26-5	Toluene-d8	50.8		85 - 116		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	45.1		79 - 119		90%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	112000	7.707				
540-36-3	1,4-Difluorobenzene	203000	8.616				
3114-55-4	Chlorobenzene-d5	173000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	65300	13.346				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	06/11/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	06/12/25	
Client Sample ID:	BP-VPB-182-GW-840-842		SDG No.:	Q2314	
Lab Sample ID:	Q2314-08		Matrix:	SOIL	
Analytical Method:	8260D		% Solid:	7.9	
Sample Wt/Vol:	5.06	Units: g	Final Vol:	5000	uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1	
GC Column:	RXI-624	ID : 0.25	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022701.D	1		06/16/25 12:09	VY061625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
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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



QC SUMMARY

Surrogate Summary

SDG No.: Q2314

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q2314-08	BP-VPB-182-GW-840-842	1,2-Dichloroethane-d4	50	55.1	110	71	136
		Dibromofluoromethane	50	53.5	107	78	119
		Toluene-d8	50	50.9	102	85	116
		4-Bromofluorobenzene	50	45.1	90	79	119
VY0616SBL01	VY0616SBL01	1,2-Dichloroethane-d4	50	48.8	98	71	136
		Dibromofluoromethane	50	51.2	102	78	119
		Toluene-d8	50	49.1	98	85	116
		4-Bromofluorobenzene	50	48.9	98	79	119
VY0616SBS01	VY0616SBS01	1,2-Dichloroethane-d4	50	52.0	104	71	136
		Dibromofluoromethane	50	51.4	103	78	119
		Toluene-d8	50	50.7	101	85	116
		4-Bromofluorobenzene	50	49.6	99	79	119
VY0616SBSD01	VY0616SBSD01	1,2-Dichloroethane-d4	50	55.3	111	71	136
		Dibromofluoromethane	50	54.4	109	78	119
		Toluene-d8	50	54.1	108	85	116
		4-Bromofluorobenzene	50	52.7	105	79	119

Surrogate Summary

SDG No.: Q2314

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q2314-01	BP-VPB-182-TB-20250610	1,2-Dichloroethane-d4	50	51.2	102	81	118
		Dibromofluoromethane	50	50.7	101	80	119
		Toluene-d8	50	52.1	104	89	112
		4-Bromofluorobenzene	50	50.1	100	85	114
Q2314-02	BP-VPB-182-GW-820-822	1,2-Dichloroethane-d4	50	54.0	108	81	118
		Dibromofluoromethane	50	51.2	102	80	119
		Toluene-d8	50	51.9	104	89	112
		4-Bromofluorobenzene	50	49.8	100	85	114
Q2314-04	BP-VPB-182-GW-880-882	1,2-Dichloroethane-d4	50	53.7	107	81	118
		Dibromofluoromethane	50	50.5	101	80	119
		Toluene-d8	50	51.7	103	89	112
		4-Bromofluorobenzene	50	50.0	100	85	114
Q2314-05	BP-VPB-182-EB-20250612	1,2-Dichloroethane-d4	50	52.2	104	81	118
		Dibromofluoromethane	50	51.1	102	80	119
		Toluene-d8	50	52.5	105	89	112
		4-Bromofluorobenzene	50	50.3	101	85	114
Q2314-06	VPB182-HYD-20250612	1,2-Dichloroethane-d4	50	50.9	102	81	118
		Dibromofluoromethane	50	50.7	101	80	119
		Toluene-d8	50	51.4	103	89	112
		4-Bromofluorobenzene	50	50.9	102	85	114
VN0613WBL01	VN0613WBL01	1,2-Dichloroethane-d4	50	48.0	96	81	118
		Dibromofluoromethane	50	49.3	99	80	119
		Toluene-d8	50	51.8	104	89	112
		4-Bromofluorobenzene	50	49.5	99	85	114
VN0613WBS01	VN0613WBS01	1,2-Dichloroethane-d4	50	46.5	93	81	118
		Dibromofluoromethane	50	51.3	103	80	119
		Toluene-d8	50	48.5	97	89	112
		4-Bromofluorobenzene	50	49.5	99	85	114
VN0613WBSD0	VN0613WBSD01	1,2-Dichloroethane-d4	50	48.1	96	81	118
		Dibromofluoromethane	50	51.7	103	80	119
		Toluene-d8	50	48.8	98	89	112
		4-Bromofluorobenzene	50	50.3	101	85	114

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2314

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VN087000.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0613WBS01	Chloromethane	20	18.6	ug/L	93			50	139	
	Vinyl chloride	20	22.4	ug/L	112			58	137	
	Bromomethane	20	18.5	ug/L	93			53	141	
	Chloroethane	20	21.8	ug/L	109			60	138	
	Trichlorofluoromethane	20	21.6	ug/L	108			65	141	
	1,1,2-Trichlorotrifluoroethane	20	21.1	ug/L	106			70	136	
	1,1-Dichloroethene	20	22.2	ug/L	111			71	131	
	Acetone	100	86.7	ug/L	87			39	160	
	Carbon disulfide	20	23.4	ug/L	117			64	133	
	Methyl tert-butyl Ether	20	20.1	ug/L	101			71	124	
	Methylene Chloride	20	20.4	ug/L	102			74	124	
	trans-1,2-Dichloroethene	20	21.4	ug/L	107			75	124	
	1,1-Dichloroethane	20	20.5	ug/L	103			77	125	
	2-Butanone	100	91.2	ug/L	91			56	143	
	Carbon Tetrachloride	20	21.4	ug/L	107			72	136	
	cis-1,2-Dichloroethene	20	21.5	ug/L	108			78	123	
	Chloroform	20	20.5	ug/L	103			79	124	
	1,1,1-Trichloroethane	20	20.3	ug/L	102			74	131	
	Methylcyclohexane	20	19.2	ug/L	96			72	132	
	Benzene	20	21.5	ug/L	108			79	120	
	1,2-Dichloroethane	20	21.1	ug/L	106			73	128	
	Trichloroethene	20	21.9	ug/L	110			79	123	
	1,2-Dichloropropane	20	20.9	ug/L	104			78	122	
	Bromodichloromethane	20	21.4	ug/L	107			79	125	
	4-Methyl-2-Pentanone	100	99.2	ug/L	99			67	130	
	Toluene	20	21.8	ug/L	109			80	121	
	t-1,3-Dichloropropene	20	21.1	ug/L	106			73	127	
	cis-1,3-Dichloropropene	20	21.3	ug/L	106			75	124	
	1,1,2-Trichloroethane	20	21.3	ug/L	106			80	119	
	2-Hexanone	100	89.7	ug/L	90			57	139	
	Dibromochloromethane	20	21.9	ug/L	110			74	126	
	Tetrachloroethene	20	21.7	ug/L	109			74	129	
	Chlorobenzene	20	21.7	ug/L	109			82	118	
	Ethyl Benzene	20	21.3	ug/L	106			79	121	
	m/p-Xylenes	40	43.9	ug/L	110			80	121	
	o-Xylene	20	22.0	ug/L	110			78	122	
	Styrene	20	21.6	ug/L	108			78	123	
	Bromoform	20	22.7	ug/L	114			66	130	
	Isopropylbenzene	20	20.3	ug/L	102			72	131	
	1,1,2,2-Tetrachloroethane	20	21.0	ug/L	105			71	121	
	1,3-Dichlorobenzene	20	21.2	ug/L	106			80	119	
	1,4-Dichlorobenzene	20	21.3	ug/L	106			79	118	
	1,2-Dichlorobenzene	20	20.7	ug/L	104			80	119	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2314

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VN087001.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VN0613WBSD01	Chloromethane	20	18.6	ug/L	93	0		50	139	20
	Vinyl chloride	20	22.4	ug/L	112	0		58	137	20
	Bromomethane	20	18.6	ug/L	93	0		53	141	20
	Chloroethane	20	21.9	ug/L	110	1		60	138	20
	Trichlorofluoromethane	20	21.4	ug/L	107	1		65	141	20
	1,1,2-Trichlorotrifluoroethane	20	21.5	ug/L	108	2		70	136	20
	1,1-Dichloroethene	20	22.3	ug/L	112	1		71	131	20
	Acetone	100	96.3	ug/L	96	10		39	160	20
	Carbon disulfide	20	23.4	ug/L	117	0		64	133	20
	Methyl tert-butyl Ether	20	21.2	ug/L	106	5		71	124	20
	Methylene Chloride	20	21.1	ug/L	106	4		74	124	20
	trans-1,2-Dichloroethene	20	21.4	ug/L	107	0		75	124	20
	1,1-Dichloroethane	20	21.0	ug/L	105	2		77	125	20
	2-Butanone	100	99.4	ug/L	99	8		56	143	20
	Carbon Tetrachloride	20	21.5	ug/L	108	1		72	136	20
	cis-1,2-Dichloroethene	20	21.4	ug/L	107	1		78	123	20
	Chloroform	20	20.9	ug/L	104	1		79	124	20
	1,1,1-Trichloroethane	20	20.4	ug/L	102	0		74	131	20
	Methylcyclohexane	20	19.4	ug/L	97	1		72	132	20
	Benzene	20	21.6	ug/L	108	0		79	120	20
	1,2-Dichloroethane	20	22.2	ug/L	111	5		73	128	20
	Trichloroethene	20	21.8	ug/L	109	1		79	123	20
	1,2-Dichloropropane	20	21.8	ug/L	109	5		78	122	20
	Bromodichloromethane	20	21.7	ug/L	109	2		79	125	20
	4-Methyl-2-Pentanone	100	100	ug/L	100	1		67	130	20
	Toluene	20	22.1	ug/L	111	2		80	121	20
	t-1,3-Dichloropropene	20	21.8	ug/L	109	3		73	127	20
	cis-1,3-Dichloropropene	20	22.2	ug/L	111	5		75	124	20
	1,1,2-Trichloroethane	20	22.2	ug/L	111	5		80	119	20
	2-Hexanone	100	97.1	ug/L	97	7		57	139	20
	Dibromochloromethane	20	23.2	ug/L	116	5		74	126	20
	Tetrachloroethene	20	21.0	ug/L	105	4		74	129	20
	Chlorobenzene	20	21.8	ug/L	109	0		82	118	20
	Ethyl Benzene	20	21.1	ug/L	106	0		79	121	20
	m/p-Xylenes	40	43.4	ug/L	109	1		80	121	20
	o-Xylene	20	21.8	ug/L	109	1		78	122	20
	Styrene	20	21.4	ug/L	107	1		78	123	20
	Bromoform	20	23.6	ug/L	118	3		66	130	20
	Isopropylbenzene	20	20.4	ug/L	102	0		72	131	20
	1,1,2,2-Tetrachloroethane	20	22.2	ug/L	111	6		71	121	20
	1,3-Dichlorobenzene	20	21.4	ug/L	107	1		80	119	20
	1,4-Dichlorobenzene	20	21.6	ug/L	108	2		79	118	20
	1,2-Dichlorobenzene	20	21.6	ug/L	108	4		80	119	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2314

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260D

Datafile : VY022697.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VY0616SBS01	Chloromethane	20	19.3	ug/Kg	97			50	136	
	Vinyl chloride	20	22.0	ug/Kg	110			56	135	
	Bromomethane	20	22.8	ug/Kg	114			53	143	
	Chloroethane	20	23.2	ug/Kg	116			59	139	
	Trichlorofluoromethane	20	23.2	ug/Kg	116			62	140	
	1,1,2-Trichlorotrifluoroethane	20	22.5	ug/Kg	113			66	136	
	1,1-Dichloroethene	20	22.2	ug/Kg	111			70	131	
	Acetone	100	140	ug/Kg	140			36	164	
	Carbon disulfide	20	20.5	ug/Kg	103			63	132	
	Methyl tert-butyl Ether	20	21.2	ug/Kg	106			73	125	
	Methylene Chloride	20	23.8	ug/Kg	119			70	128	
	trans-1,2-Dichloroethene	20	22.1	ug/Kg	111			74	125	
	1,1-Dichloroethane	20	22.2	ug/Kg	111			76	125	
	2-Butanone	100	120	ug/Kg	120			51	148	
	Carbon Tetrachloride	20	21.0	ug/Kg	105			70	135	
	cis-1,2-Dichloroethene	20	21.6	ug/Kg	108			77	123	
	Chloroform	20	22.7	ug/Kg	114			78	123	
	1,1,1-Trichloroethane	20	22.7	ug/Kg	114			73	130	
	Methylcyclohexane	20	19.7	ug/Kg	99			66	133	
	Benzene	20	21.6	ug/Kg	108			77	121	
	1,2-Dichloroethane	20	21.8	ug/Kg	109			73	128	
	Trichloroethene	20	21.5	ug/Kg	108			77	123	
	1,2-Dichloropropane	20	21.7	ug/Kg	109			76	123	
	Bromodichloromethane	20	22.2	ug/Kg	111			75	127	
	4-Methyl-2-Pentanone	100	100	ug/Kg	100			65	135	
	Toluene	20	21.1	ug/Kg	106			77	121	
	t-1,3-Dichloropropene	20	21.0	ug/Kg	105			71	130	
	cis-1,3-Dichloropropene	20	20.7	ug/Kg	104			74	126	
	1,1,2-Trichloroethane	20	22.0	ug/Kg	110			78	121	
	2-Hexanone	100	110	ug/Kg	110			53	145	
	Dibromochloromethane	20	21.1	ug/Kg	106			74	126	
	Tetrachloroethene	20	24.3	ug/Kg	121			73	128	
	Chlorobenzene	20	21.7	ug/Kg	109			79	120	
	Ethyl Benzene	20	20.7	ug/Kg	104			76	122	
	m/p-Xylenes	40	41.2	ug/Kg	103			77	124	
	o-Xylene	20	20.6	ug/Kg	103			77	123	
	Styrene	20	20.5	ug/Kg	103			76	124	
	Bromoform	20	20.8	ug/Kg	104			67	132	
	Isopropylbenzene	20	20.4	ug/Kg	102			68	134	
	1,1,2,2-Tetrachloroethane	20	19.6	ug/Kg	98			70	124	
	1,3-Dichlorobenzene	20	20.6	ug/Kg	103			77	121	
	1,4-Dichlorobenzene	20	21.0	ug/Kg	105			75	120	
	1,2-Dichlorobenzene	20	20.5	ug/Kg	103			78	121	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2314

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260D

Datafile : VY022698.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VY0616SBSD01	Chloromethane	20	25.0	ug/Kg	125	25	*	50	136	20
	Vinyl chloride	20	25.2	ug/Kg	126	14		56	135	20
	Bromomethane	20	26.7	ug/Kg	134	16		53	143	20
	Chloroethane	20	26.8	ug/Kg	134	14		59	139	20
	Trichlorofluoromethane	20	25.7	ug/Kg	129	11		62	140	20
	1,1,2-Trichlorotrifluoroethane	20	23.0	ug/Kg	115	2		66	136	20
	1,1-Dichloroethene	20	22.2	ug/Kg	111	0		70	131	20
	Acetone	100	130	ug/Kg	130	7		36	164	20
	Carbon disulfide	20	21.4	ug/Kg	107	4		63	132	20
	Methyl tert-butyl Ether	20	22.3	ug/Kg	112	6		73	125	20
	Methylene Chloride	20	24.8	ug/Kg	124	4		70	128	20
	trans-1,2-Dichloroethene	20	22.5	ug/Kg	113	2		74	125	20
	1,1-Dichloroethane	20	23.3	ug/Kg	117	5		76	125	20
	2-Butanone	100	120	ug/Kg	120	0		51	148	20
	Carbon Tetrachloride	20	21.6	ug/Kg	108	3		70	135	20
	cis-1,2-Dichloroethene	20	22.9	ug/Kg	115	6		77	123	20
	Chloroform	20	23.6	ug/Kg	118	3		78	123	20
	1,1,1-Trichloroethane	20	22.9	ug/Kg	115	1		73	130	20
	Methylcyclohexane	20	20.7	ug/Kg	104	5		66	133	20
	Benzene	20	22.7	ug/Kg	114	5		77	121	20
	1,2-Dichloroethane	20	22.7	ug/Kg	114	4		73	128	20
	Trichloroethene	20	23.4	ug/Kg	117	8		77	123	20
	1,2-Dichloropropane	20	23.5	ug/Kg	117	7		76	123	20
	Bromodichloromethane	20	22.8	ug/Kg	114	3		75	127	20
	4-Methyl-2-Pentanone	100	110	ug/Kg	110	10		65	135	20
	Toluene	20	22.2	ug/Kg	111	5		77	121	20
	t-1,3-Dichloropropene	20	22.1	ug/Kg	111	6		71	130	20
	cis-1,3-Dichloropropene	20	22.3	ug/Kg	112	7		74	126	20
	1,1,2-Trichloroethane	20	22.9	ug/Kg	115	4		78	121	20
	2-Hexanone	100	110	ug/Kg	110	0		53	145	20
	Dibromochloromethane	20	22.4	ug/Kg	112	6		74	126	20
	Tetrachloroethene	20	25.2	ug/Kg	126	4		73	128	20
	Chlorobenzene	20	22.3	ug/Kg	112	3		79	120	20
	Ethyl Benzene	20	21.5	ug/Kg	108	4		76	122	20
	m/p-Xylenes	40	42.7	ug/Kg	107	4		77	124	20
	o-Xylene	20	21.3	ug/Kg	106	3		77	123	20
	Styrene	20	21.3	ug/Kg	106	3		76	124	20
	Bromoform	20	21.4	ug/Kg	107	3		67	132	20
	Isopropylbenzene	20	21.4	ug/Kg	107	5		68	134	20
	1,1,2,2-Tetrachloroethane	20	21.4	ug/Kg	107	9		70	124	20
	1,3-Dichlorobenzene	20	21.4	ug/Kg	107	4		77	121	20
	1,4-Dichlorobenzene	20	21.8	ug/Kg	109	4		75	120	20
	1,2-Dichlorobenzene	20	22.2	ug/Kg	111	7		78	121	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0613WBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q2314

SAS No.: Q2314 SDG NO.: Q2314

Lab File ID: VN086998.D

Lab Sample ID: VN0613WBL01

Date Analyzed: 06/13/2025

Time Analyzed: 13:47

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VN0613WBS01	VN0613WBS01	VN087000.D	06/13/2025
VN0613WBSD01	VN0613WBSD01	VN087001.D	06/13/2025
VPB182-HYD-20250612	Q2314-06	VN087002.D	06/13/2025
BP-VPB-182-TB-20250610	Q2314-01	VN087003.D	06/13/2025
BP-VPB-182-GW-880-882	Q2314-04	VN087005.D	06/13/2025
BP-VPB-182-GW-820-822	Q2314-02	VN087006.D	06/13/2025
BP-VPB-182-EB-20250612	Q2314-05	VN087007.D	06/13/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0616SBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q2314

SAS No.: Q2314 SDG NO.: Q2314

Lab File ID: VY022696.D

Lab Sample ID: VY0616SBL01

Date Analyzed: 06/16/2025

Time Analyzed: 09:40

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY0616SBS01	VY0616SBS01	VY022697.D	06/16/2025
VY0616SBSD01	VY0616SBSD01	VY022698.D	06/16/2025
BP-VPB-182-GW-840-842	Q2314-08	VY022701.D	06/16/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG NO.: Q2314
Lab File ID: VN086861.D BFB Injection Date: 06/06/2025
Instrument ID: MSVOA_N BFB Injection Time: 07:59
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	17.3
75	30.0 - 60.0% of mass 95	48.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	66.6
175	5.0 - 9.0% of mass 174	4.7 (7.1) 1
176	95.0 - 101.0% of mass 174	65.3 (98.1) 1
177	5.0 - 9.0% of mass 176	4.4 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VN086862.D	06/06/2025	12:44
VSTDIC005	VSTDIC005	VN086863.D	06/06/2025	13:17
VSTDIC020	VSTDIC020	VN086864.D	06/06/2025	13:40
VSTDIC050	VSTDIC050	VN086865.D	06/06/2025	14:03
VSTDIC100	VSTDIC100	VN086866.D	06/06/2025	14:26
VSTDIC150	VSTDIC150	VN086867.D	06/06/2025	14:49

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG NO.: Q2314
Lab File ID: VN086995.D BFB Injection Date: 06/13/2025
Instrument ID: MSVOA_N BFB Injection Time: 10:26
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	15.3
75	30.0 - 60.0% of mass 95	45.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	73.2
175	5.0 - 9.0% of mass 174	5.5 (7.5) 1
176	95.0 - 101.0% of mass 174	69.5 (94.9) 1
177	5.0 - 9.0% of mass 176	4.4 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VN086996.D	06/13/2025	12:52
VN0613WBL01	VN0613WBL01	VN086998.D	06/13/2025	13:47
VN0613WBS01	VN0613WBS01	VN087000.D	06/13/2025	14:32
VN0613WBSD01	VN0613WBSD01	VN087001.D	06/13/2025	15:06
VPB182-HYD-20250612	Q2314-06	VN087002.D	06/13/2025	15:28
BP-VPB-182-TB-20250610	Q2314-01	VN087003.D	06/13/2025	15:50
BP-VPB-182-GW-880-882	Q2314-04	VN087005.D	06/13/2025	16:34
BP-VPB-182-GW-820-822	Q2314-02	VN087006.D	06/13/2025	16:56
BP-VPB-182-EB-20250612	Q2314-05	VN087007.D	06/13/2025	17:18
VSTDCCC050EC	VSTDCCC050	VN087015.D	06/13/2025	20:13

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG NO.: Q2314
Lab File ID: VY022488.D BFB Injection Date: 06/02/2025
Instrument ID: MSVOA_Y BFB Injection Time: 08:31
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.6
75	30.0 - 60.0% of mass 95	58.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.5 (0.6) 1
174	50.0 - 100.0% of mass 95	86.2
175	5.0 - 9.0% of mass 174	6.6 (7.6) 1
176	95.0 - 101.0% of mass 174	82.5 (95.6) 1
177	5.0 - 9.0% of mass 176	5.4 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VY022491.D	06/02/2025	11:46
VSTDIC010	VSTDIC010	VY022492.D	06/02/2025	12:09
VSTDIC020	VSTDIC020	VY022493.D	06/02/2025	12:32
VSTDIC050	VSTDIC050	VY022494.D	06/02/2025	12:54
VSTDIC100	VSTDIC100	VY022495.D	06/02/2025	13:17
VSTDIC150	VSTDIC150	VY022496.D	06/02/2025	13:39

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG NO.: Q2314
Lab File ID: VY022694.D BFB Injection Date: 06/16/2025
Instrument ID: MSVOA_Y BFB Injection Time: 07:59
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.1
75	30.0 - 60.0% of mass 95	58.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	1.2 (1.4) 1
174	50.0 - 100.0% of mass 95	84.4
175	5.0 - 9.0% of mass 174	6.8 (8) 1
176	95.0 - 101.0% of mass 174	82.5 (97.7) 1
177	5.0 - 9.0% of mass 176	5.3 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY022695.D	06/16/2025	08:31
VY0616SBL01	VY0616SBL01	VY022696.D	06/16/2025	09:40
VY0616SBS01	VY0616SBS01	VY022697.D	06/16/2025	10:12
VY0616SBSD01	VY0616SBSD01	VY022698.D	06/16/2025	10:34
BP-VPB-182-GW-840-842	Q2314-08	VY022701.D	06/16/2025	12:09
VSTDCCC050EC	VSTDCCC050	VY022710.D	06/16/2025	16:55

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG NO.: Q2314
Lab File ID: VN086996.D Date Analyzed: 06/13/2025
Instrument ID: MSVOA_N Time Analyzed: 12:52
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	190412	8.23	349185	9.11	311622	11.87
UPPER LIMIT	380824	8.73	698370	9.606	623244	12.365
LOWER LIMIT	95206	7.73	174593	8.606	155811	11.365
EPA SAMPLE NO.						
BP-VPB-182-TB-20250610	202860	8.24	392535	9.11	349983	11.87
BP-VPB-182-GW-820-822	193783	8.24	387947	9.11	349080	11.86
BP-VPB-182-GW-880-882	207419	8.24	418529	9.11	374011	11.87
BP-VPB-182-EB-20250612	207748	8.24	404853	9.11	368221	11.87
VPB182-HYD-20250612	207879	8.23	402501	9.11	359714	11.87
VN0613WBL01	317214	8.24	606954	9.11	536496	11.87
VN0613WBS01	193820	8.23	342767	9.11	297937	11.87
VN0613WBSD01	180967	8.23	323903	9.11	287455	11.87

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG NO.: Q2314
Lab File ID: VN086996.D Date Analyzed: 06/13/2025
Instrument ID: MSVOA_N Time Analyzed: 12:52
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	154974	13.794				
UPPER LIMIT	309948	14.294				
LOWER LIMIT	77487	13.294				
EPA SAMPLE NO.						
BP-VPB-182-TB-20250610	169487	13.79				
BP-VPB-182-GW-820-822	167434	13.79				
BP-VPB-182-GW-880-882	177372	13.79				
BP-VPB-182-EB-20250612	177791	13.79				
VPB182-HYD-20250612	173766	13.79				
VN0613WBL01	258118	13.79				
VN0613WBS01	150656	13.79				
VN0613WBSD01	143189	13.79				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG NO.: Q2314
Lab File ID: VY022695.D Date Analyzed: 06/16/2025
Instrument ID: MSVOA_Y Time Analyzed: 08:31
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	174388	7.72	289069	8.62	247096	11.42
UPPER LIMIT	348776	8.219	578138	9.121	494192	11.92
LOWER LIMIT	87194	7.219	144535	8.121	123548	10.92
EPA SAMPLE NO.						
BP-VPB-182-GW-840-842	111918	7.71	203194	8.62	172902	11.41
VY0616SBL01	118205	7.71	219441	8.62	175112	11.42
VY0616SBS01	158575	7.71	274493	8.62	229894	11.42
VY0616SBSD01	154209	7.71	264302	8.62	225807	11.41

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG NO.: Q2314
Lab File ID: VY022695.D Date Analyzed: 06/16/2025
Instrument ID: MSVOA_Y Time Analyzed: 08:31
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	115228	13.346				
UPPER LIMIT	230456	13.846				
LOWER LIMIT	57614	12.846				
EPA SAMPLE NO.						
BP-VPB-182-GW-840-842	65272	13.35				
VY0616SBL01	63063	13.35				
VY0616SBS01	109254	13.35				
VY0616SBSD01	103858	13.35				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.



QC SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0613WBL01		SDG No.:	Q2314
Lab Sample ID:	VN0613WBL01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086998.D	1		06/13/25 13:47	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	3.80	U	1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	0.75	U	0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.50	U	0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.75	U	0.23	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.50	U	0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	0.50	U	0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.50	U	0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	2.50	U	0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.50	U	0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.75	U	0.19	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.16	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.68	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	0.50	U	0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	2.50	U	0.89	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0613WBL01		SDG No.:	Q2314
Lab Sample ID:	VN0613WBL01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN086998.D	1		06/13/25 13:47	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.50	U	0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.12	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.15	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	47.9		81 - 118		96%	SPK: 50
1868-53-7	Dibromofluoromethane	49.3		80 - 119		99%	SPK: 50
2037-26-5	Toluene-d8	51.8		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	317000	8.235				
540-36-3	1,4-Difluorobenzene	607000	9.106				
3114-55-4	Chlorobenzene-d5	536000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	258000	13.788				

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:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VY0616SBL01		SDG No.:	Q2314
Lab Sample ID:	VY0616SBL01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022696.D	1		06/16/25 09:40	VY061625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
74-87-3	Chloromethane	2.50	U	1.10	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	2.50	U	0.79	2.50	5.00	ug/Kg
74-83-9	Bromomethane	4.00	U	1.10	4.00	5.00	ug/Kg
75-00-3	Chloroethane	2.50	U	1.30	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	4.00	U	1.20	4.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	2.50	U	1.10	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	2.50	U	1.00	2.50	5.00	ug/Kg
67-64-1	Acetone	20.0	U	4.70	20.0	25.0	ug/Kg
75-15-0	Carbon Disulfide	4.00	U	1.10	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	2.50	U	0.73	2.50	5.00	ug/Kg
75-09-2	Methylene Chloride	8.00	U	3.50	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	2.50	U	0.86	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	2.50	U	0.80	2.50	5.00	ug/Kg
78-93-3	2-Butanone	20.0	U	6.50	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	2.50	U	0.97	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	2.50	U	0.75	2.50	5.00	ug/Kg
67-66-3	Chloroform	4.00	U	0.84	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	2.50	U	0.93	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	2.50	U	0.91	2.50	5.00	ug/Kg
71-43-2	Benzene	2.50	U	0.79	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	2.50	U	0.79	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	2.50	U	0.81	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	2.50	U	0.91	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	2.50	U	0.78	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	12.5	U	3.60	12.5	25.0	ug/Kg
108-88-3	Toluene	2.50	U	0.78	2.50	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	2.50	U	0.65	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	2.50	U	0.62	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	2.50	U	0.92	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	12.5	U	3.70	12.5	25.0	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VY0616SBL01		SDG No.:	Q2314
Lab Sample ID:	VY0616SBL01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022696.D	1		06/16/25 09:40	VY061625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
124-48-1	Dibromochloromethane	2.50	U	0.87	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	2.50	U	1.10	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	2.50	U	0.91	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	2.50	U	0.67	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	5.00	U	1.20	5.00	10.0	ug/Kg
95-47-6	o-Xylene	2.50	U	0.82	2.50	5.00	ug/Kg
100-42-5	Styrene	2.50	U	0.71	2.50	5.00	ug/Kg
75-25-2	Bromoform	2.50	U	0.86	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	2.50	U	0.78	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	2.50	U	1.20	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	2.50	U	1.70	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	2.50	U	1.60	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	2.50	U	1.50	2.50	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	48.8		71 - 136		98%	SPK: 50
1868-53-7	Dibromofluoromethane	51.2		78 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	49.1		85 - 116		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		79 - 119		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	118000	7.713				
540-36-3	1,4-Difluorobenzene	219000	8.616				
3114-55-4	Chlorobenzene-d5	175000	11.42				
3855-82-1	1,4-Dichlorobenzene-d4	63100	13.346				

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:	Tetra Tech NUS, Inc.			Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:	
Client Sample ID:	VN0613WBS01			SDG No.:	Q2314
Lab Sample ID:	VN0613WBS01			Matrix:	Water
Analytical Method:	8260D			% Solid:	0
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000 uL
Soil Aliquot Vol:			uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID :	0.25	Level :	LOW
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087000.D	1		06/13/25 14:32	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	18.6		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	22.4		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	18.5		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	21.8		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	21.6		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.1		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	22.2		0.23	0.75	1.00	ug/L
67-64-1	Acetone	86.7		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	23.4		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.1		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	20.4		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	21.4		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.5		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	91.2		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.4		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	21.5		0.19	0.75	1.00	ug/L
67-66-3	Chloroform	20.5		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.3		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	19.2		0.16	0.50	1.00	ug/L
71-43-2	Benzene	21.5		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.1		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	21.9		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.9		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	21.4		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	99.2		0.68	2.50	5.00	ug/L
108-88-3	Toluene	21.8		0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	21.1		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	21.3		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.3		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	89.7		0.89	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0613WBS01		SDG No.:	Q2314
Lab Sample ID:	VN0613WBS01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087000.D	1		06/13/25 14:32	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	21.9		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	21.7		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	21.7		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	21.3		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	43.9		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	22.0		0.12	0.50	1.00	ug/L
100-42-5	Styrene	21.6		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	22.7		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	20.3		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	21.0		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	21.2		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	21.3		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.7		0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.5		81 - 118		93%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		80 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	48.5		89 - 112		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.5		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	194000	8.23				
540-36-3	1,4-Difluorobenzene	343000	9.106				
3114-55-4	Chlorobenzene-d5	298000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	151000	13.788				

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:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VY0616SBS01		SDG No.:	Q2314
Lab Sample ID:	VY0616SBS01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022697.D	1		06/16/25 10:12	VY061625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
74-87-3	Chloromethane	19.3		1.10	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	22.0		0.79	2.50	5.00	ug/Kg
74-83-9	Bromomethane	22.8		1.10	4.00	5.00	ug/Kg
75-00-3	Chloroethane	23.2		1.30	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	23.2		1.20	4.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	22.5		1.10	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	22.2		1.00	2.50	5.00	ug/Kg
67-64-1	Acetone	140		4.70	20.0	25.0	ug/Kg
75-15-0	Carbon Disulfide	20.5		1.10	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	21.2		0.73	2.50	5.00	ug/Kg
75-09-2	Methylene Chloride	23.8		3.50	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	22.1		0.86	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	22.2		0.80	2.50	5.00	ug/Kg
78-93-3	2-Butanone	120		6.50	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	21.0		0.97	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	21.6		0.75	2.50	5.00	ug/Kg
67-66-3	Chloroform	22.7		0.84	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	22.7		0.93	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	19.7		0.91	2.50	5.00	ug/Kg
71-43-2	Benzene	21.6		0.79	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	21.8		0.79	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	21.5		0.81	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	21.7		0.91	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	22.2		0.78	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	100		3.60	12.5	25.0	ug/Kg
108-88-3	Toluene	21.1		0.78	2.50	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	21.0		0.65	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	20.7		0.62	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	22.0		0.92	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	110		3.70	12.5	25.0	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VY0616SBS01		SDG No.:	Q2314
Lab Sample ID:	VY0616SBS01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022697.D	1		06/16/25 10:12	VY061625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
124-48-1	Dibromochloromethane	21.1		0.87	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	24.3		1.10	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	21.7		0.91	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.7		0.67	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	41.2		1.20	5.00	10.0	ug/Kg
95-47-6	o-Xylene	20.6		0.82	2.50	5.00	ug/Kg
100-42-5	Styrene	20.5		0.71	2.50	5.00	ug/Kg
75-25-2	Bromoform	20.8		0.86	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	20.4		0.78	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	19.6		1.20	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	20.6		1.70	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.0		1.60	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	20.5		1.50	2.50	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.0		71 - 136		104%	SPK: 50
1868-53-7	Dibromofluoromethane	51.4		78 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	50.7		85 - 116		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.6		79 - 119		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	159000	7.713				
540-36-3	1,4-Difluorobenzene	274000	8.616				
3114-55-4	Chlorobenzene-d5	230000	11.42				
3855-82-1	1,4-Dichlorobenzene-d4	109000	13.347				

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:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0613WBSD01		SDG No.:	Q2314
Lab Sample ID:	VN0613WBSD01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087001.D	1		06/13/25 15:06	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	18.6		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	22.4		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	18.6		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	21.9		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	21.4		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	21.5		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	22.3		0.23	0.75	1.00	ug/L
67-64-1	Acetone	96.3		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	23.4		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	21.2		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	21.1		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	21.4		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	21.0		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	99.4		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.5		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	21.4		0.19	0.75	1.00	ug/L
67-66-3	Chloroform	20.9		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	20.4		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	19.4		0.16	0.50	1.00	ug/L
71-43-2	Benzene	21.6		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	22.2		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	21.8		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	21.8		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	21.7		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	100		0.68	2.50	5.00	ug/L
108-88-3	Toluene	22.1		0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	21.8		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	22.2		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	22.2		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	97.1		0.89	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VN0613WBSD01		SDG No.:	Q2314
Lab Sample ID:	VN0613WBSD01		Matrix:	Water
Analytical Method:	8260D		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN087001.D	1		06/13/25 15:06	VN061325

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	23.2		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	21.0		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	21.8		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	21.1		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	43.4		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	21.8		0.12	0.50	1.00	ug/L
100-42-5	Styrene	21.4		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	23.6		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	20.4		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	22.2		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	21.4		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	21.6		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	21.6		0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	48.1		81 - 118		96%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		80 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	48.8		89 - 112		98%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.3		85 - 114		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	181000	8.229				
540-36-3	1,4-Difluorobenzene	324000	9.106				
3114-55-4	Chlorobenzene-d5	287000	11.865				
3855-82-1	1,4-Dichlorobenzene-d4	143000	13.788				

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:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VY0616SBSD01		SDG No.:	Q2314
Lab Sample ID:	VY0616SBSD01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022698.D	1		06/16/25 10:34	VY061625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
74-87-3	Chloromethane	25.0		1.10	2.50	5.00	ug/Kg
75-01-4	Vinyl Chloride	25.2		0.79	2.50	5.00	ug/Kg
74-83-9	Bromomethane	26.7		1.10	4.00	5.00	ug/Kg
75-00-3	Chloroethane	26.8		1.30	2.50	5.00	ug/Kg
75-69-4	Trichlorofluoromethane	25.7		1.20	4.00	5.00	ug/Kg
76-13-1	1,1,2-Trichlorotrifluoroethane	23.0		1.10	2.50	5.00	ug/Kg
75-35-4	1,1-Dichloroethene	22.2		1.00	2.50	5.00	ug/Kg
67-64-1	Acetone	130		4.70	20.0	25.0	ug/Kg
75-15-0	Carbon Disulfide	21.4		1.10	4.00	5.00	ug/Kg
1634-04-4	Methyl tert-butyl Ether	22.3		0.73	2.50	5.00	ug/Kg
75-09-2	Methylene Chloride	24.8		3.50	8.00	10.0	ug/Kg
156-60-5	trans-1,2-Dichloroethene	22.5		0.86	2.50	5.00	ug/Kg
75-34-3	1,1-Dichloroethane	23.3		0.80	2.50	5.00	ug/Kg
78-93-3	2-Butanone	120		6.50	20.0	25.0	ug/Kg
56-23-5	Carbon Tetrachloride	21.6		0.97	2.50	5.00	ug/Kg
156-59-2	cis-1,2-Dichloroethene	22.9		0.75	2.50	5.00	ug/Kg
67-66-3	Chloroform	23.6		0.84	4.00	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	22.9		0.93	2.50	5.00	ug/Kg
108-87-2	Methylcyclohexane	20.7		0.91	2.50	5.00	ug/Kg
71-43-2	Benzene	22.7		0.79	2.50	5.00	ug/Kg
107-06-2	1,2-Dichloroethane	22.7		0.79	2.50	5.00	ug/Kg
79-01-6	Trichloroethene	23.4		0.81	2.50	5.00	ug/Kg
78-87-5	1,2-Dichloropropane	23.5		0.91	2.50	5.00	ug/Kg
75-27-4	Bromodichloromethane	22.8		0.78	2.50	5.00	ug/Kg
108-10-1	4-Methyl-2-Pentanone	110		3.60	12.5	25.0	ug/Kg
108-88-3	Toluene	22.2		0.78	2.50	5.00	ug/Kg
10061-02-6	t-1,3-Dichloropropene	22.1		0.65	2.50	5.00	ug/Kg
10061-01-5	cis-1,3-Dichloropropene	22.3		0.62	2.50	5.00	ug/Kg
79-00-5	1,1,2-Trichloroethane	22.9		0.92	2.50	5.00	ug/Kg
591-78-6	2-Hexanone	110		3.70	12.5	25.0	ug/Kg

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VY0616SBSD01		SDG No.:	Q2314
Lab Sample ID:	VY0616SBSD01		Matrix:	SOIL
Analytical Method:	8260D		% Solid:	100
Sample Wt/Vol:	5	Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	VOCMS Group1
GC Column:	RXI-624	ID : 0.25	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY022698.D	1		06/16/25 10:34	VY061625

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
124-48-1	Dibromochloromethane	22.4		0.87	2.50	5.00	ug/Kg
127-18-4	Tetrachloroethene	25.2		1.10	2.50	5.00	ug/Kg
108-90-7	Chlorobenzene	22.3		0.91	2.50	5.00	ug/Kg
100-41-4	Ethyl Benzene	21.5		0.67	2.50	5.00	ug/Kg
179601-23-1	m/p-Xylenes	42.7		1.20	5.00	10.0	ug/Kg
95-47-6	o-Xylene	21.3		0.82	2.50	5.00	ug/Kg
100-42-5	Styrene	21.3		0.71	2.50	5.00	ug/Kg
75-25-2	Bromoform	21.4		0.86	2.50	5.00	ug/Kg
98-82-8	Isopropylbenzene	21.4		0.78	2.50	5.00	ug/Kg
79-34-5	1,1,2,2-Tetrachloroethane	21.4		1.20	2.50	5.00	ug/Kg
541-73-1	1,3-Dichlorobenzene	21.4		1.70	2.50	5.00	ug/Kg
106-46-7	1,4-Dichlorobenzene	21.8		1.60	2.50	5.00	ug/Kg
95-50-1	1,2-Dichlorobenzene	22.2		1.50	2.50	5.00	ug/Kg
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.3		71 - 136		111%	SPK: 50
1868-53-7	Dibromofluoromethane	54.4		78 - 119		109%	SPK: 50
2037-26-5	Toluene-d8	54.1		85 - 116		108%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.7		79 - 119		105%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	154000	7.707				
540-36-3	1,4-Difluorobenzene	264000	8.616				
3114-55-4	Chlorobenzene-d5	226000	11.414				
3855-82-1	1,4-Dichlorobenzene-d4	104000	13.346				

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



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG No.: Q2314
Instrument ID: MSVOA_N Calibration Date(s): 06/06/2025 06/06/2025
Heated Purge: (Y/N) N Calibration Time(s): 12:44 14:49
GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF001 = VN086862.D	RRF005 = VN086863.D	RRF020 = VN086864.D	RRF050 = VN086865.D	RRF100 = VN086866.D	RRF150 = VN086867.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Chloromethane	0.762	0.654	0.645	0.597	0.617	0.587	0.644	9.9
Vinyl Chloride	0.670	0.670	0.684	0.640	0.673	0.648	0.664	2.5
Bromomethane		0.375	0.380	0.357	0.379	0.368	0.372	2.6
Chloroethane	0.460	0.444	0.442	0.408	0.418	0.402	0.429	5.4
Trichlorofluoromethane	0.882	0.903	0.904	0.834	0.858	0.825	0.868	3.9
1,1,2-Trichlorotrifluoroethane	0.554	0.567	0.563	0.519	0.546	0.520	0.545	3.8
1,1-Dichloroethene	0.573	0.593	0.563	0.533	0.550	0.527	0.557	4.4
Acetone	0.426	0.366	0.366	0.322	0.334	0.316	0.355	11.5
Carbon Disulfide	1.718	1.622	1.542	1.426	1.496	1.433	1.539	7.4
Methyl tert-butyl Ether	2.120	2.038	2.051	1.933	2.021	1.926	2.015	3.7
Methylene Chloride	0.822	0.688	0.643	0.605	0.629	0.601	0.665	12.5
trans-1,2-Dichloroethene	0.700	0.674	0.621	0.567	0.591	0.561	0.619	9.3
1,1-Dichloroethane	1.192	1.153	1.156	1.063	1.110	1.043	1.120	5.2
2-Butanone	0.604	0.598	0.604	0.551	0.573	0.533	0.577	5.2
Carbon Tetrachloride	0.453	0.449	0.434	0.409	0.435	0.421	0.433	3.9
cis-1,2-Dichloroethene	0.786	0.766	0.762	0.699	0.729	0.701	0.740	4.9
Chloroform	1.235	1.152	1.145	1.061	1.085	1.030	1.118	6.7
1,1,1-Trichloroethane	1.029	0.995	0.969	0.895	0.925	0.893	0.951	5.9
Methylcyclohexane	0.633	0.645	0.588	0.570	0.603	0.589	0.605	4.8
Benzene	1.588	1.501	1.444	1.345	1.414	1.371	1.444	6.2
1,2-Dichloroethane	0.473	0.456	0.444	0.411	0.430	0.413	0.438	5.6
Trichloroethene	0.359	0.360	0.341	0.327	0.340	0.328	0.342	4.2
1,2-Dichloropropane	0.366	0.369	0.354	0.332	0.352	0.335	0.351	4.4
Bromodichloromethane	0.510	0.484	0.480	0.457	0.483	0.465	0.480	3.8
4-Methyl-2-Pentanone	0.505	0.549	0.576	0.538	0.562	0.528	0.543	4.6
Toluene	0.918	0.914	0.885	0.835	0.883	0.859	0.882	3.6
t-1,3-Dichloropropene	0.571	0.526	0.524	0.522	0.548	0.530	0.537	3.6
cis-1,3-Dichloropropene	0.609	0.577	0.564	0.551	0.584	0.561	0.574	3.6
1,1,2-Trichloroethane	0.359	0.355	0.342	0.322	0.335	0.323	0.340	4.7
2-Hexanone	0.312	0.282	0.363	0.368	0.397	0.376	0.350	12.4

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG No.: Q2314

Instrument ID: MSVOA_N Calibration Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Calibration Time(s): 12:44 14:49

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF001 = VN086862.D		RRF005 = VN086863.D		RRF020 = VN086864.D		
		RRF050 = VN086865.D		RRF100 = VN086866.D		RRF150 = VN086867.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dibromochloromethane	0.361	0.351	0.358	0.340	0.363	0.349	0.354	2.5
Tetrachloroethene	0.355	0.331	0.312	0.294	0.313	0.293	0.316	7.5
Chlorobenzene	1.233	1.135	1.107	1.023	1.089	1.030	1.103	7
Ethyl Benzene	1.989	1.975	1.907	1.796	1.913	1.816	1.900	4.2
m/p-Xylenes	0.730	0.751	0.741	0.701	0.736	0.703	0.727	2.8
o-Xylene	0.714	0.699	0.702	0.674	0.711	0.678	0.696	2.4
Styrene	1.177	1.193	1.226	1.162	1.229	1.164	1.192	2.5
Bromoform	0.217	0.266	0.276	0.265	0.286	0.267	0.263	9.1
Isopropylbenzene	3.864	3.749	3.649	3.426	3.621	3.546	3.643	4.2
1,1,2,2-Tetrachloroethane	1.292	1.299	1.273	1.178	1.205	1.157	1.234	5
1,3-Dichlorobenzene	1.763	1.709	1.657	1.554	1.612	1.566	1.644	5
1,4-Dichlorobenzene	1.820	1.786	1.657	1.572	1.642	1.576	1.676	6.3
1,2-Dichlorobenzene	1.675	1.651	1.596	1.500	1.557	1.496	1.579	4.8
1,2-Dichloroethane-d4		0.732	0.707	0.500	0.656	0.751	0.669	15.1
Dibromofluoromethane		0.303	0.310	0.219	0.298	0.351	0.296	16.2
Toluene-d8		1.245	1.203	0.861	1.178	1.377	1.173	16.2
4-Bromofluorobenzene		0.441	0.446	0.325	0.446	0.521	0.436	16.2

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG No.: Q2314
Instrument ID: MSVOA_Y Calibration Date(s): 06/02/2025 06/02/2025
Heated Purge: (Y/N) Y Calibration Time(s): 11:46 13:39
GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF005 = VY022491.D	RRF010 = VY022492.D	RRF020 = VY022493.D	RRF050 = VY022494.D	RRF100 = VY022495.D	RRF150 = VY022496.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Chloromethane	1.320	1.590	1.431	1.230	1.178	1.185	1.322	12.3
Vinyl Chloride	1.371	1.814	1.647	1.497	1.444	1.432	1.534	10.8
Bromomethane	1.365	1.735	1.705	1.240	1.341	1.436	1.470	13.8
Chloroethane	0.973	1.278	1.198	0.965	0.941	0.964	1.053	13.8
Trichlorofluoromethane	1.135	1.492	1.430	1.224	1.223	1.310	1.302	10.5
1,1,2-Trichlorotrifluoroethane	0.510	0.615	0.572	0.538	0.522	0.534	0.549	7.1
1,1-Dichloroethene	0.469	0.577	0.549	0.518	0.510	0.523	0.524	7
Acetone	0.130	0.119	0.120	0.116	0.105	0.092	0.114	11.6
Carbon Disulfide	1.503	1.870	1.731	1.664	1.638	1.666	1.679	7.2
Methyl tert-butyl Ether	1.307	1.618	1.571	1.470	1.435	1.462	1.477	7.4
Methylene Chloride	0.861	0.700	0.637	0.574	0.548	0.550	0.645	18.7
trans-1,2-Dichloroethene	0.522	0.651	0.612	0.571	0.574	0.592	0.587	7.4
1,1-Dichloroethane	0.968	1.193	1.124	1.060	1.051	1.080	1.079	7
2-Butanone	0.143	0.174	0.178	0.168	0.163	0.157	0.164	7.6
Carbon Tetrachloride	0.415	0.516	0.497	0.508	0.508	0.537	0.497	8.5
cis-1,2-Dichloroethene	0.592	0.731	0.706	0.682	0.668	0.691	0.678	7
Chloroform	0.960	1.183	1.109	1.058	1.043	1.062	1.069	6.9
1,1,1-Trichloroethane	0.819	1.029	0.970	0.948	0.951	0.977	0.949	7.4
Methylcyclohexane	0.568	0.674	0.645	0.657	0.664	0.698	0.651	6.9
Benzene	1.213	1.487	1.473	1.441	1.452	1.518	1.431	7.7
1,2-Dichloroethane	0.320	0.424	0.413	0.390	0.395	0.401	0.391	9.4
Trichloroethene	0.294	0.388	0.353	0.355	0.350	0.358	0.350	8.7
1,2-Dichloropropane	0.274	0.364	0.354	0.344	0.344	0.349	0.338	9.6
Bromodichloromethane	0.380	0.525	0.499	0.491	0.491	0.508	0.482	10.7
4-Methyl-2-Pentanone	0.175	0.242	0.246	0.243	0.244	0.246	0.233	12.1
Toluene	0.732	0.932	0.904	0.903	0.933	0.990	0.899	9.8
t-1,3-Dichloropropene	0.350	0.468	0.476	0.461	0.468	0.487	0.452	11.2
cis-1,3-Dichloropropene	0.423	0.549	0.545	0.537	0.544	0.558	0.526	9.7
1,1,2-Trichloroethane	0.207	0.257	0.258	0.242	0.243	0.249	0.243	7.7
2-Hexanone	0.120	0.158	0.166	0.162	0.165	0.162	0.156	11.3

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG No.: Q2314

Instrument ID: MSVOA_Y Calibration Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Calibration Time(s): 11:46 13:39

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VY022491.D		RRF010 = VY022492.D		RRF020 = VY022493.D		
		RRF050 = VY022494.D		RRF100 = VY022495.D		RRF150 = VY022496.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Dibromochloromethane	0.248	0.320	0.325	0.314	0.319	0.323	0.308	9.6
Tetrachloroethene	0.375	0.474	0.448	0.437	0.416	0.432	0.430	7.7
Chlorobenzene	0.949	1.170	1.102	1.116	1.120	1.182	1.106	7.5
Ethyl Benzene	1.655	2.090	2.006	2.083	2.148	2.332	2.052	10.9
m/p-Xylenes	0.616	0.780	0.765	0.785	0.822	0.899	0.778	11.9
o-Xylene	0.583	0.749	0.721	0.734	0.764	0.826	0.729	11
Styrene	0.909	1.195	1.189	1.233	1.291	1.417	1.206	13.9
Bromoform	0.161	0.209	0.200	0.201	0.206	0.214	0.198	9.7
Isopropylbenzene	3.470	4.308	4.090	4.136	4.167	4.460	4.105	8.3
1,1,2,2-Tetrachloroethane	0.570	0.738	0.692	0.682	0.671	0.689	0.674	8.3
1,3-Dichlorobenzene	1.514	1.783	1.730	1.733	1.809	1.963	1.755	8.3
1,4-Dichlorobenzene	1.508	1.814	1.733	1.701	1.677	1.781	1.702	6.3
1,2-Dichlorobenzene	1.246	1.582	1.547	1.512	1.490	1.564	1.490	8.3
1,2-Dichloroethane-d4	0.523	0.574	0.556	0.591	0.552	0.559	0.559	4.1
Dibromofluoromethane	0.264	0.283	0.301	0.321	0.307	0.315	0.298	7.2
Toluene-d8	1.067	1.181	1.158	1.279	1.253	1.298	1.206	7.2
4-Bromofluorobenzene	0.339	0.339	0.347	0.372	0.373	0.386	0.359	5.6

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG No.: Q2314

Instrument ID: MSVOA_N Calibration Date/Time: 06/13/2025 12:52

Lab File ID: VN086996.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.644	0.562	0.1	-12.73	20
Vinyl Chloride	0.664	0.695		4.67	20
Bromomethane	0.372	0.351		-5.64	20
Chloroethane	0.429	0.449		4.66	20
Trichlorofluoromethane	0.868	0.867		-0.12	20
1,1,2-Trichlorotrifluoroethane	0.545	0.537		-1.47	20
1,1-Dichloroethene	0.557	0.581		4.31	20
Acetone	0.355	0.346		-2.54	20
Carbon Disulfide	1.539	1.720		11.76	20
Methyl tert-butyl Ether	2.015	2.241		11.22	20
Methylene Chloride	0.665	0.715		7.52	20
trans-1,2-Dichloroethene	0.619	0.648		4.68	20
1,1-Dichloroethane	1.120	1.168	0.1	4.29	20
2-Butanone	0.577	0.570		-1.21	20
Carbon Tetrachloride	0.433	0.421		-2.77	20
cis-1,2-Dichloroethene	0.740	0.814		10	20
Chloroform	1.118	1.162		3.94	20
1,1,1-Trichloroethane	0.951	0.927		-2.52	20
Methylcyclohexane	0.605	0.537		-11.24	20
Benzene	1.444	1.500		3.88	20
1,2-Dichloroethane	0.438	0.467		6.62	20
Trichloroethene	0.342	0.362		5.85	20
1,2-Dichloropropane	0.351	0.370		5.41	20
Bromodichloromethane	0.480	0.515		7.29	20
4-Methyl-2-Pentanone	0.543	0.558		2.76	20
Toluene	0.882	0.929		5.33	20
t-1,3-Dichloropropene	0.537	0.613		14.15	20
cis-1,3-Dichloropropene	0.574	0.640		11.5	20
1,1,2-Trichloroethane	0.340	0.373		9.71	20
2-Hexanone	0.350	0.375		7.14	20
Dibromochloromethane	0.354	0.405		14.41	20
Tetrachloroethene	0.316	0.312		-1.27	20
Chlorobenzene	1.103	1.165	0.3	5.62	20
Ethyl Benzene	1.900	1.898		-0.1	20
m/p-Xylenes	0.727	0.748		2.89	20
o-Xylene	0.696	0.743		6.75	20
Styrene	1.192	1.276		7.05	20
Bromoform	0.263	0.307	0.1	16.73	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG No.: Q2314

Instrument ID: MSVOA_N Calibration Date/Time: 06/13/2025 12:52

Lab File ID: VN086996.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.643	3.469		-4.78	20
1,1,2,2-Tetrachloroethane	1.234	1.316	0.3	6.64	20
1,3-Dichlorobenzene	1.644	1.702		3.53	20
1,4-Dichlorobenzene	1.676	1.762		5.13	20
1,2-Dichlorobenzene	1.579	1.647		4.31	20
1,2-Dichloroethane-d4	0.669	0.665		-0.6	20
Dibromofluoromethane	0.296	0.318		7.43	20
Toluene-d8	1.173	1.131		-3.58	20
4-Bromofluorobenzene	0.436	0.446		2.29	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG No.: Q2314

Instrument ID: MSVOA_N Calibration Date/Time: 06/13/2025 20:13

Lab File ID: VN087015.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.644	0.652	0.1	1.24	50
Vinyl Chloride	0.664	0.821		23.65	50
Bromomethane	0.372	0.219		-41.13	50
Chloroethane	0.429	0.518		20.75	50
Trichlorofluoromethane	0.868	1.042		20.05	50
1,1,2-Trichlorotrifluoroethane	0.545	0.617		13.21	50
1,1-Dichloroethene	0.557	0.668		19.93	50
Acetone	0.355	0.350		-1.41	50
Carbon Disulfide	1.539	2.017		31.06	50
Methyl tert-butyl Ether	2.015	2.225		10.42	50
Methylene Chloride	0.665	0.744		11.88	50
trans-1,2-Dichloroethene	0.619	0.710		14.7	50
1,1-Dichloroethane	1.120	1.263	0.1	12.77	50
2-Butanone	0.577	0.590		2.25	50
Carbon Tetrachloride	0.433	0.489		12.93	50
cis-1,2-Dichloroethene	0.740	0.836		12.97	50
Chloroform	1.118	1.246		11.45	50
1,1,1-Trichloroethane	0.951	1.053		10.73	50
Methylcyclohexane	0.605	0.611		0.99	50
Benzene	1.444	1.638		13.44	50
1,2-Dichloroethane	0.438	0.485		10.73	50
Trichloroethene	0.342	0.397		16.08	50
1,2-Dichloropropane	0.351	0.397		13.1	50
Bromodichloromethane	0.480	0.538		12.08	50
4-Methyl-2-Pentanone	0.543	0.578		6.45	50
Toluene	0.882	1.010		14.51	50
t-1,3-Dichloropropene	0.537	0.584		8.75	50
cis-1,3-Dichloropropene	0.574	0.634		10.45	50
1,1,2-Trichloroethane	0.340	0.377		10.88	50
2-Hexanone	0.350	0.392		12	50
Dibromochloromethane	0.354	0.408		15.25	50
Tetrachloroethene	0.316	0.387		22.47	50
Chlorobenzene	1.103	1.233	0.3	11.79	50
Ethyl Benzene	1.900	2.095		10.26	50
m/p-Xylenes	0.727	0.827		13.76	50
o-Xylene	0.696	0.790		13.51	50
Styrene	1.192	1.365		14.51	50
Bromoform	0.263	0.300	0.1	14.07	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG No.: Q2314

Instrument ID: MSVOA_N Calibration Date/Time: 06/13/2025 20:13

Lab File ID: VN087015.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:44 14:49

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.643	3.855		5.82	50
1,1,2,2-Tetrachloroethane	1.234	1.365	0.3	10.62	50
1,3-Dichlorobenzene	1.644	1.779		8.21	50
1,4-Dichlorobenzene	1.676	1.813		8.17	50
1,2-Dichlorobenzene	1.579	1.724		9.18	50
1,2-Dichloroethane-d4	0.669	0.681		1.79	50
Dibromofluoromethane	0.296	0.323		9.12	50
Toluene-d8	1.173	1.197		2.05	50
4-Bromofluorobenzene	0.436	0.460		5.51	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG No.: Q2314

Instrument ID: MSVOA_Y Calibration Date/Time: 06/16/2025 08:31

Lab File ID: VY022695.D Init. Calib. Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 11:46 13:39

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	1.322	1.300	0.1	-1.66	20
Vinyl Chloride	1.534	1.652		7.69	20
Bromomethane	1.470	1.280		-12.93	20
Chloroethane	1.053	1.092		3.7	20
Trichlorofluoromethane	1.302	1.349		3.61	20
1,1,2-Trichlorotrifluoroethane	0.549	0.554		0.91	20
1,1-Dichloroethene	0.524	0.538		2.67	20
Acetone	0.114	0.137		20.17	20
Carbon Disulfide	1.679	1.608		-4.23	20
Methyl tert-butyl Ether	1.477	1.479		0.14	20
Methylene Chloride	0.645	0.604		-6.36	20
trans-1,2-Dichloroethene	0.587	0.600		2.21	20
1,1-Dichloroethane	1.079	1.150	0.1	6.58	20
2-Butanone	0.164	0.176		7.32	20
Carbon Tetrachloride	0.497	0.538		8.25	20
cis-1,2-Dichloroethene	0.678	0.713		5.16	20
Chloroform	1.069	1.145		7.11	20
1,1,1-Trichloroethane	0.949	1.020		7.48	20
Methylcyclohexane	0.651	0.660		1.38	20
Benzene	1.431	1.539		7.55	20
1,2-Dichloroethane	0.391	0.418		6.91	20
Trichloroethene	0.350	0.380		8.57	20
1,2-Dichloropropane	0.338	0.369		9.17	20
Bromodichloromethane	0.482	0.541		12.24	20
4-Methyl-2-Pentanone	0.233	0.241		3.43	20
Toluene	0.899	0.961		6.9	20
t-1,3-Dichloropropene	0.452	0.480		6.2	20
cis-1,3-Dichloropropene	0.526	0.570		8.36	20
1,1,2-Trichloroethane	0.243	0.255		4.94	20
2-Hexanone	0.156	0.165		5.77	20
Dibromochloromethane	0.308	0.331		7.47	20
Tetrachloroethene	0.430	0.509		18.37	20
Chlorobenzene	1.106	1.172	0.3	5.97	20
Ethyl Benzene	2.052	2.207		7.55	20
m/p-Xylenes	0.778	0.838		7.71	20
o-Xylene	0.729	0.778		6.72	20
Styrene	1.206	1.301		7.88	20
Bromoform	0.198	0.210	0.1	6.06	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG No.: Q2314

Instrument ID: MSVOA_Y Calibration Date/Time: 06/16/2025 08:31

Lab File ID: VY022695.D Init. Calib. Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 11:46 13:39

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	4.105	4.397		7.11	20
1,1,2,2-Tetrachloroethane	0.674	0.664	0.3	-1.48	20
1,3-Dichlorobenzene	1.755	1.897		8.09	20
1,4-Dichlorobenzene	1.702	1.810		6.34	20
1,2-Dichlorobenzene	1.490	1.586		6.44	20
1,2-Dichloroethane-d4	0.559	0.567		1.43	20
Dibromofluoromethane	0.298	0.316		6.04	20
Toluene-d8	1.206	1.267		5.06	20
4-Bromofluorobenzene	0.359	0.372		3.62	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG No.: Q2314

Instrument ID: MSVOA_Y Calibration Date/Time: 06/16/2025 16:55

Lab File ID: VY022710.D Init. Calib. Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 11:46 13:39

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	1.322	1.431	0.1	8.24	50
Vinyl Chloride	1.534	1.755		14.41	50
Bromomethane	1.470	1.602		8.98	50
Chloroethane	1.053	1.331		26.4	50
Trichlorofluoromethane	1.302	1.567		20.35	50
1,1,2-Trichlorotrifluoroethane	0.549	0.541		-1.46	50
1,1-Dichloroethene	0.524	0.521		-0.57	50
Acetone	0.114	0.112		-1.75	50
Carbon Disulfide	1.679	1.535		-8.58	50
Methyl tert-butyl Ether	1.477	1.536		3.99	50
Methylene Chloride	0.645	0.688		6.67	50
trans-1,2-Dichloroethene	0.587	0.604		2.9	50
1,1-Dichloroethane	1.079	1.125	0.1	4.26	50
2-Butanone	0.164	0.169		3.05	50
Carbon Tetrachloride	0.497	0.501		0.81	50
cis-1,2-Dichloroethene	0.678	0.724		6.78	50
Chloroform	1.069	1.172		9.64	50
1,1,1-Trichloroethane	0.949	1.002		5.59	50
Methylcyclohexane	0.651	0.603		-7.37	50
Benzene	1.431	1.492		4.26	50
1,2-Dichloroethane	0.391	0.412		5.37	50
Trichloroethene	0.350	0.372		6.29	50
1,2-Dichloropropane	0.338	0.357		5.62	50
Bromodichloromethane	0.482	0.531		10.17	50
4-Methyl-2-Pentanone	0.233	0.245		5.15	50
Toluene	0.899	0.931		3.56	50
t-1,3-Dichloropropene	0.452	0.473		4.65	50
cis-1,3-Dichloropropene	0.526	0.545		3.61	50
1,1,2-Trichloroethane	0.243	0.258		6.17	50
2-Hexanone	0.156	0.160		2.56	50
Dibromochloromethane	0.308	0.325		5.52	50
Tetrachloroethene	0.430	0.520		20.93	50
Chlorobenzene	1.106	1.156	0.3	4.52	50
Ethyl Benzene	2.052	2.121		3.36	50
m/p-Xylenes	0.778	0.812		4.37	50
o-Xylene	0.729	0.755		3.57	50
Styrene	1.206	1.265		4.89	50
Bromoform	0.198	0.208	0.1	5.05	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG No.: Q2314

Instrument ID: MSVOA_Y Calibration Date/Time: 06/16/2025 16:55

Lab File ID: VY022710.D Init. Calib. Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Init. Calib. Time(s): 11:46 13:39

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	4.105	4.072		-0.8	50
1,1,2,2-Tetrachloroethane	0.674	0.644	0.3	-4.45	50
1,3-Dichlorobenzene	1.755	1.800		2.56	50
1,4-Dichlorobenzene	1.702	1.711		0.53	50
1,2-Dichlorobenzene	1.490	1.526		2.42	50
1,2-Dichloroethane-d4	0.559	0.579		3.58	50
Dibromofluoromethane	0.298	0.313		5.03	50
Toluene-d8	1.206	1.250		3.65	50
4-Bromofluorobenzene	0.359	0.359		0	50

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

LAB CHRONICLE

OrderID:	Q2314	OrderDate:	6/12/2025 3:59:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	D41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2314-04	BP-VPB-182-GW-880-882	Water			06/12/25			06/12/25
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/14/25	
Q2314-05	BP-VPB-182-EB-20250612	Water			06/12/25			06/12/25
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/15/25	
Q2314-06	VPB182-HYD-20250612	Water			06/12/25			06/12/25
			SVOC-SIMGroup1	8270-Modified		06/13/25	06/15/25	



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

Hit Summary Sheet SW-846

SDG No.: Q2314
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : BP-VPB-182-EB-20250612								
Q2314-05	BP-VPB-182-EB-202506	WATER 1,4-Dioxane	0.300		0.07	0.21	0.21	ug/L
Total Svoc :				0.30				
Total Concentration:				0.30				



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	06/12/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/12/25
Client Sample ID:	BP-VPB-182-GW-880-882	SDG No.:	Q2314
Lab Sample ID:	Q2314-04	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	960 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037275.D	1	06/13/25 11:00	06/14/25 23:43	PB168476

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.21	U	0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.31		30 - 150		76%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		89%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		70%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.32		53 - 106		79%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		97%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1140	7.575				
1146-65-2	Naphthalene-d8	2850	10.351				
15067-26-2	Acenaphthene-d10	1520	14.224				
1517-22-2	Phenanthrene-d10	2710	16.971				
1719-03-5	Chrysene-d12	2170	21.171				
1520-96-3	Perylene-d12	2120	23.354				

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:	Tetra Tech NUS, Inc.	Date Collected:	06/12/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/12/25
Client Sample ID:	BP-VPB-182-EB-20250612	SDG No.:	Q2314
Lab Sample ID:	Q2314-05	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037276.D	1	06/13/25 11:00	06/15/25 00:18	PB168476

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.30		0.070	0.21	0.21	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.29		30 - 150		72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		87%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		55 - 111		63%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		74%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		91%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1180	7.575				
1146-65-2	Naphthalene-d8	3050	10.351				
15067-26-2	Acenaphthene-d10	1580	14.224				
1517-22-2	Phenanthrene-d10	2710	16.971				
1719-03-5	Chrysene-d12	2260	21.171				
1520-96-3	Perylene-d12	2220	23.357				

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:	Tetra Tech NUS, Inc.	Date Collected:	06/12/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	06/12/25
Client Sample ID:	VPB182-HYD-20250612	SDG No.:	Q2314
Lab Sample ID:	Q2314-06	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037277.D	1	06/13/25 11:00	06/15/25 00:54	PB168476

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.027	*	30 - 150		7%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.29		30 - 150		73%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		69%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		82%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.40		58 - 132		99%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1180	7.575				
1146-65-2	Naphthalene-d8	2840	10.351				
15067-26-2	Acenaphthene-d10	1500	14.224				
1517-22-2	Phenanthrene-d10	2630	16.971				
1719-03-5	Chrysene-d12	2000	21.171				
1520-96-3	Perylene-d12	1330	23.36				

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



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q2314

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB168476BL	PB168476BL	2-Methylnaphthalene-d10	0.4	0.33	83		30	150
		Fluoranthene-d10	0.4	0.36	90		30	150
		Nitrobenzene-d5	0.4	0.29	74		55	111
		2-Fluorobiphenyl	0.4	0.34	84		53	106
		Terphenyl-d14	0.4	0.38	95		58	132
PB168476BS	PB168476BS	2-Methylnaphthalene-d10	0.4	0.43	108		30	150
		Fluoranthene-d10	0.4	0.34	85		30	150
		Nitrobenzene-d5	0.4	0.38	94		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.38	95		58	132
PB168476BSD	PB168476BSD	2-Methylnaphthalene-d10	0.4	0.40	99		30	150
		Fluoranthene-d10	0.4	0.32	81		30	150
		Nitrobenzene-d5	0.4	0.34	85		55	111
		2-Fluorobiphenyl	0.4	0.36	89		53	106
		Terphenyl-d14	0.4	0.36	90		58	132
Q2314-04	BP-VPB-182-GW-880-882	2-Methylnaphthalene-d10	0.4	0.31	76		30	150
		Fluoranthene-d10	0.4	0.36	89		30	150
		Nitrobenzene-d5	0.4	0.28	70		55	111
		2-Fluorobiphenyl	0.4	0.32	79		53	106
		Terphenyl-d14	0.4	0.39	97		58	132
Q2314-05	BP-VPB-182-EB-20250612	2-Methylnaphthalene-d10	0.4	0.29	72		30	150
		Fluoranthene-d10	0.4	0.35	87		30	150
		Nitrobenzene-d5	0.4	0.25	63		55	111
		2-Fluorobiphenyl	0.4	0.30	74		53	106
		Terphenyl-d14	0.4	0.36	91		58	132
Q2314-06	VPB182-HYD-20250612	2-Methylnaphthalene-d10	0.4	0.027	7	*	30	150
		Fluoranthene-d10	0.4	0.29	73		30	150
		Nitrobenzene-d5	0.4	0.28	69		55	111
		2-Fluorobiphenyl	0.4	0.33	82		53	106
		Terphenyl-d14	0.4	0.40	99		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2314

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN037280.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB168476BS	1,4-Dioxane	0.4	0.30	ug/L	75				70	130	

A
B
C
D
E
F
G

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2314

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN037281.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB168476BSD	1,4-Dioxane	0.4	0.28	ug/L	70	7			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168476BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q2314

SAS No.: Q2314 SDG NO.: Q2314

Lab File ID: BN037274.D

Lab Sample ID: PB168476BL

Instrument ID: BNA_N

Date Extracted: 06/13/2025

Matrix: (soil/water) Water

Date Analyzed: 06/14/2025

Level: (low/med) LOW

Time Analyzed: 23:07

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168476BS	PB168476BS	BN037280.D	06/15/2025
BP-VPB-182-GW-880-882	Q2314-04	BN037275.D	06/14/2025
BP-VPB-182-EB-20250612	Q2314-05	BN037276.D	06/15/2025
VPB182-HYD-20250612	Q2314-06	BN037277.D	06/15/2025
PB168476BSD	PB168476BSD	BN037281.D	06/15/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

SAS No.: Q2314 SDG NO.: Q2314

Lab File ID: BN037223.D

DFTPP Injection Date: 06/13/2025

Instrument ID: BNA_N

DFTPP Injection Time: 11:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.1) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.3 (0.4) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
365	Greater than 1% of mass 198	5.3
441	Present, but less than mass 443	90.1
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.6 (20.1) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN037225.D	06/13/2025	13:33
SSTDICC0.2	SSTDICC0.2	BN037226.D	06/13/2025	14:10
SSTDICCC0.4	SSTDICCC0.4	BN037227.D	06/13/2025	14:46
SSTDICC0.8	SSTDICC0.8	BN037228.D	06/13/2025	15:22
SSTDICC1.6	SSTDICC1.6	BN037229.D	06/13/2025	15:59
SSTDICC3.2	SSTDICC3.2	BN037230.D	06/13/2025	16:35
SSTDICC5.0	SSTDICC5.0	BN037231.D	06/13/2025	17:11

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

SAS No.: Q2314 SDG NO.: Q2314

Lab File ID: BN037272.D

DFTPP Injection Date: 06/14/2025

Instrument ID: BNA_N

DFTPP Injection Time: 21:51

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	1 (1.5) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.4 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
365	Greater than 1% of mass 198	5.1
441	Present, but less than mass 443	82.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12 (20.1) 2

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037273.D	06/14/2025	22:31
PB168476BL	PB168476BL	BN037274.D	06/14/2025	23:07
BP-VPB-182-GW-880-882	Q2314-04	BN037275.D	06/14/2025	23:43
BP-VPB-182-EB-20250612	Q2314-05	BN037276.D	06/15/2025	00:18
VPB182-HYD-20250612	Q2314-06	BN037277.D	06/15/2025	00:54
PB168476BS	PB168476BS	BN037280.D	06/15/2025	02:42
PB168476BSD	PB168476BSD	BN037281.D	06/15/2025	03:18

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG NO.: Q2314

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/14/2025

Lab File ID: BN037273.D Time Analyzed: 22:31

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	1389	7.575	3410	10.35	1759	14.22
UPPER LIMIT	2778	8.075	6820	10.851	3518	14.724
LOWER LIMIT	694.5	7.075	1705	9.851	879.5	13.724
EPA SAMPLE NO.						
01 PB168476BL	1111	7.58	2537	10.36	1345	14.22
02 PB168476BS	1101	7.58	2637	10.35	1350	14.22
03 PB168476BSD	1070	7.58	2630	10.35	1332	14.22
04 BP-VPB-182-GW-880-882	1138	7.58	2846	10.35	1516	14.22
05 BP-VPB-182-EB-20250612	1177	7.58	3045	10.35	1578	14.22
06 VPB182-HYD-20250612	1176	7.58	2844	10.35	1497	14.22

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG NO.: Q2314

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/14/2025

Lab File ID: BN037273.D Time Analyzed: 22:31

Instrument ID: BNA_N GC Column: ZB-GR ID: 0.25 (mm)

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	3220	16.971	2454	21.171	2514	23.357
UPPER LIMIT	6440	17.471	4908	21.671	5028	23.857
LOWER LIMIT	1610	16.471	1227	20.671	1257	22.857
EPA SAMPLE NO.						
01 PB168476BL	2242	16.98	1645	21.17	1590	23.36
02 PB168476BS	2251	16.97	1528	21.17	1224 *	23.36
03 PB168476BSD	2256	16.97	1565	21.17	1276	23.35
04 BP-VPB-182-GW-880-882	2706	16.97	2168	21.17	2115	23.35
05 BP-VPB-182-EB-20250612	2705	16.97	2258	21.17	2222	23.36
06 VPB182-HYD-20250612	2633	16.97	1998	21.17	1328	23.36

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.

* Values outside of QC limits.



QC SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:		
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:		
Client Sample ID:	PB168476BL		SDG No.:	Q2314	
Lab Sample ID:	PB168476BL		Matrix:	Water	
Analytical Method:	SW8270ESIM		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037274.D	1	06/13/25 11:00	06/14/25 23:07	PB168476

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		83%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		30 - 150		90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		84%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		95%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1110	7.575				
1146-65-2	Naphthalene-d8	2540	10.361				
15067-26-2	Acenaphthene-d10	1350	14.224				
1517-22-2	Phenanthrene-d10	2240	16.984				
1719-03-5	Chrysene-d12	1650	21.171				
1520-96-3	Perylene-d12	1590	23.357				

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:	Tetra Tech NUS, Inc.		Date Collected:		
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:		
Client Sample ID:	PB168476BS		SDG No.:	Q2314	
Lab Sample ID:	PB168476BS		Matrix:	Water	
Analytical Method:	SW8270ESIM		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037280.D	1	06/13/25 11:00	06/15/25 02:42	PB168476

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.30		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.43		30 - 150		108%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		85%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		94%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		95%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1100	7.575				
1146-65-2	Naphthalene-d8	2640	10.351				
15067-26-2	Acenaphthene-d10	1350	14.224				
1517-22-2	Phenanthrene-d10	2250	16.971				
1719-03-5	Chrysene-d12	1530	21.171				
1520-96-3	Perylene-d12	1220	23.357				

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:	Tetra Tech NUS, Inc.		Date Collected:		
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:		
Client Sample ID:	PB168476BSD		SDG No.:	Q2314	
Lab Sample ID:	PB168476BSD		Matrix:	Water	
Analytical Method:	SW8270ESIM		% Solid:	0	
Sample Wt/Vol:	1000	Units: mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	SVOC-SIMGroup1	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037281.D	1	06/13/25 11:00	06/15/25 03:18	PB168476

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.28		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.40		30 - 150		99%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		85%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.36		53 - 106		89%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		58 - 132		90%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1070	7.575				
1146-65-2	Naphthalene-d8	2630	10.351				
15067-26-2	Acenaphthene-d10	1330	14.223				
1517-22-2	Phenanthrene-d10	2260	16.971				
1719-03-5	Chrysene-d12	1570	21.17				
1520-96-3	Perylene-d12	1280	23.354				

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



CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN061325.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Fri Jun 13 18:43:34 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN037225.D 0.2 =BN037226.D 0.4 =BN037227.D 0.8 =BN037228.D 1.6 =BN037229.D 3.2 =BN037230.D 5.0 =BN037231.D

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5.0	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.683	0.525	0.535	0.549	0.515	0.486	0.549	12.56	
3)	n-Nitrosodimet...	1.357	1.277	1.208	1.295	1.232	1.134	1.250	6.18	
4) S	2-Fluorophenol	1.043	1.026	0.942	0.907	0.996	0.990	0.972	0.982	4.80
5) S	Phenol-d6	0.875	0.937	0.963	0.986	1.148	1.166	1.173	1.035	11.94
6)	bis(2-Chloroet...	0.768	0.709	0.870	0.955	1.086	1.064	1.040	0.927	16.08
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.366	0.304	0.384	0.377	0.440	0.442	0.453	0.395	13.53
9)	Naphthalene	1.186	1.153	1.133	1.109	1.208	1.161	1.159	1.158	2.83
10)	Hexachlorobuta...	0.299	0.290	0.302	0.271	0.285	0.267	0.258	0.282	5.91
11) SURR2	Methylnaphth...	0.496	0.504	0.557	0.520	0.576	0.552	0.553	0.537	5.64
12)	2-Methylnaphth...	0.631	0.634	0.704	0.699	0.769	0.746	0.745	0.704	7.77
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.126	0.146	0.171	0.171	0.188	0.183	0.178	0.166	13.42
15) S	2-Fluorobiphenyl	1.566	1.530	1.699	1.658	1.822	1.777	1.715	1.681	6.31
16)	Acenaphthylene	1.907	1.870	1.870	1.915	2.077	2.062	2.021	1.960	4.61
17)	Acenaphthene	1.242	1.209	1.240	1.230	1.341	1.318	1.277	1.265	3.87
18)	Fluorene	1.544	1.509	1.593	1.610	1.757	1.714	1.649	1.625	5.46
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.074	0.066	0.086	0.100	0.110	0.116	0.092	21.86	
21)	4-Bromophenyl-...	0.248	0.248	0.244	0.256	0.278	0.276	0.273	0.261	5.65
22)	Hexachlorobenzene	0.342	0.318	0.311	0.284	0.297	0.284	0.279	0.302	7.65
23)	Atrazine	0.223	0.229	0.222	0.228	0.241	0.241	0.244	0.232	3.84
24)	Pentachlorophenol	0.139	0.124	0.137	0.154	0.162	0.171	0.148	11.86	
25)	Phenanthrene	1.253	1.225	1.186	1.238	1.324	1.328	1.327	1.269	4.54
26)	Anthracene	1.094	1.079	1.080	1.138	1.221	1.257	1.261	1.161	7.13
27) SURR	Fluoranthene-d10	1.015	1.073	1.053	1.017	1.053	1.043	1.073	1.046	2.27
28)	Fluoranthene	1.470	1.508	1.412	1.449	1.509	1.510	1.537	1.485	2.94
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.850	1.740	1.962	1.849	2.016	1.892	1.854	1.881	4.74
31) S	Terphenyl-d14	0.815	0.845	0.946	0.871	0.990	0.939	0.924	0.904	6.89
32)	Benzo(a)anthra...	1.175	1.204	1.225	1.332	1.512	1.507	1.499	1.351	11.36
33)	Chrysene	1.783	1.722	1.695	1.617	1.711	1.633	1.616	1.683	3.73
34)	Bis(2-ethylhex...	1.104	1.024	1.000	1.006	0.942	0.960	1.006	5.65	
35) I	Perylene-d12	-----ISTD-----								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\

Method File : 8270-SIM-BN061325.M

36)	Indeno(1,2,3-c...	1.506	1.503	1.507	1.486	1.718	1.757	1.813	1.613	8.87
37)	Benzo(b)fluora...	1.309	1.288	1.376	1.456	1.618	1.576	1.620	1.463	9.81
38)	Benzo(k)fluora...	1.835	1.503	1.628	1.667	1.757	1.704	1.728	1.689	6.24
39) C	Benzo(a)pyrene	1.271	1.208	1.234	1.298	1.407	1.382	1.413	1.316	6.42
40)	Dibenzo(a,h)an...	1.106	1.102	1.049	1.118	1.362	1.425	1.427	1.227	13.76
41)	Benzo(g,h,i)pe...	1.504	1.460	1.441	1.386	1.557	1.566	1.557	1.496	4.63

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG No.: Q2314

Instrument ID: BNA_N Calibration Date/Time: 06/14/2025 22:31

Lab File ID: BN037273.D Init. Calib. Date(s): 06/13/2025 06/13/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 13:33 17:11

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.537	0.562		4.7	20.0
Fluoranthene-d10	1.047	1.055		0.9	20.0
2-Fluorophenol	0.982	0.959		-2.3	20.0
Phenol-d6	1.035	1.017		-1.7	20.0
Nitrobenzene-d5	0.395	0.415		5.1	20.0
2-Fluorobiphenyl	1.681	1.763		4.9	20.0
2,4,6-Tribromophenol	0.166	0.170		2.4	20.0
Terphenyl-d14	0.904	0.900		-0.4	20.0
1,4-Dioxane	0.549	0.499		-9.1	20.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2314 SAS No.: Q2314 SDG No.: Q2314

Instrument ID: BNA_N Calibration Date/Time: 06/15/2025 03:54

Lab File ID: BN037282.D Init. Calib. Date(s): 06/13/2025 06/13/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 13:33 17:11

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.537	0.562		4.7	50.0
Fluoranthene-d10	1.047	1.054		0.8	50.0
2-Fluorophenol	0.982	0.915		-6.8	50.0
Phenol-d6	1.035	1.040		0.5	50.0
Nitrobenzene-d5	0.395	0.420		6.3	50.0
2-Fluorobiphenyl	1.681	1.736		3.3	50.0
2,4,6-Tribromophenol	0.166	0.171		3.0	50.0
Terphenyl-d14	0.904	0.949		5.0	50.0
1,4-Dioxane	0.549	0.485		-11.7	50.0

All other compounds must meet a minimum RRF of 0.010.



SHIPPING DOCUMENTS

Q2314

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

Order ID : Q2314	TETRO6	Order Date : 6/12/2025 3:59:00 PM	Project Mgr : Yazmeen
Client Name : Tetra Tech NUS, Inc.		Project Name : NWIRP Bethpage 112G080	Report Type : Level 4
Client Contact : Ernie Wu		Receive DateTime : 6/12/2025 6:40:00 PM	EDD Type : ADAPT
Invoice Name : Tetra Tech NUS, Inc.		Purchase Order :	Hard Copy Date :
Invoice Contact : Ernie Wu			Date Signoff : 6/13/2025 10:52:25 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2314-01	BP-VPB-182-TB-20250610	Water	06/10/2025	09:00	VOCMS Group1		8260-Low	2 Bus. Days	06/16/2025
Q2314-02	BP-VPB-182-GW-820-822	Water	06/10/2025	13:00	VOCMS Group1		8260-Low	2 Bus. Days	06/16/2025
Q2314-04	BP-VPB-182-GW-880-882	Water	06/12/2025	10:20	VOCMS Group1		8260-Low	2 Bus. Days	06/16/2025
Q2314-05	BP-VPB-182-EB-20250612	Water	06/12/2025	10:40	VOCMS Group1		8260-Low	2 Bus. Days	06/16/2025
Q2314-06	VPB182-HYD-20250612	Water	06/12/2025	14:30	VOCMS Group1		8260-Low	2 Bus. Days	06/16/2025
Q2314-08	BP-VPB-182-GW-840-842	Solid	06/11/2025	10:00	VOCMS Group1		8260D	2 Bus. Days	06/16/2025

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2314 TETR06

Order Date : 6/12/2025 3:59:00 PM

Project Mgr : Yazmeen

Client Name : Tetra Tech NUS, Inc.

Project Name : NWIRP Bethpage 112G080

Report Type : Level 4

Client Contact : Ernie Wu

Receive DateTime : 6/12/2025 6:40:00 PM

EDD Type : ADAPT

Invoice Name : Tetra Tech NUS, Inc.

Purchase Order :

Hard Copy Date :

Invoice Contact : Ernie Wu

Date Signoff : 6/13/2025 10:52:25 AM

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
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Relinquished By : ch

Date / Time : 6/13/25 0745

Received By : Sans

Date / Time : 6/13/25 7.45

Storage Area : VOA Refridgerator Room

Ref # 4
Ref # 6
F2 2