

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 : Q2082

ATTENTION : Ernie Wu



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q2082

Project ID : NWIRP Bethpage 112G08005-WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q2082-01
Q2082-02
Q2082-03
Q2082-04
Q2082-05
Q2082-06
Q2082-07
Q2082-08
Q2082-09
Q2082-10
Q2082-11
Q2082-12

Client Sample Number

BP-VPB-182-TB-20250515
BP-VPB-182-GW-260-262
BP-VPB-182-GW-280-282
BP-VPB-182-GW-300-302
BP-VPB-182-GW-320-322
BP-VPB-182-GW-340-342
BP-VPB-182-GW-360-362
BP-VPB-182-GW-390-392
BP-VPB-182-GW-400-402
BP-VPB-182-GW-400-402MS
BP-VPB-182-GW-400-402MSD
VPB182-HYD-20250516

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 5/30/2025

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 # Q2082

Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

12 Water samples were received on 05/19/2025.

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_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI The analysis of VOCMS Group1 was based on method 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 MS recoveries met the requirements for all compounds.

The MSD recoveries met the acceptable requirements.

The RPD met criteria.

The Blank Spike 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 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)."

VIAL A and B combined to run sample # 04 as both having much sediment and not possible to run separately.

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



284 Sheffield Street, Mountainside, NJ 07092
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2
2.1

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_____

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: NWIRP Bethpage 112G08005-WE13

Project Manager # Ernie Wu

Order ID # Q2082

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

12 Water samples were received on 05/19/2025.

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-GG. The 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 BP-VPB-182-GW-340-342 [Terphenyl-d14 - 142%], BP-VPB-182-GW-390-392 [Terphenyl-d14 - 147%] and VPB182-HYD-20250516 [2-Methylnaphthalene-d10 - 2%, Fluoranthene-d10 - 8%,]

The above failure surrogates are not associated with the client list, therefore no corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank Spike Duplicate met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

E. Additional Comments:

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

Sample # BP-VPB-182-GW-260-262 was received with limited volume.

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 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.

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This 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 #: Q2082

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 Castody

✓

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: 05/30/2025

LAB CHRONICLE

OrderID:	Q2082	OrderDate:	5/19/2025 4:13:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	L31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2082-01	BP-VPB-182-TB-2025 0515	Water			05/15/25			05/19/25
			VOCMS Group1	8260-Low			05/21/25	
Q2082-02	BP-VPB-182-GW-260- 262	Water			05/15/25			05/19/25
			VOCMS Group1	8260-Low			05/21/25	
Q2082-03	BP-VPB-182-GW-280- 282	Water			05/15/25			05/19/25
			VOCMS Group1	8260-Low			05/21/25	
Q2082-04	BP-VPB-182-GW-300- 302	Water			05/15/25			05/19/25
			VOCMS Group1	8260-Low			05/21/25	
Q2082-05	BP-VPB-182-GW-320- 322	Water			05/16/25			05/19/25
			VOCMS Group1	8260-Low			05/21/25	
Q2082-07	BP-VPB-182-GW-360- 362	Water			05/16/25			05/19/25
			VOCMS Group1	8260-Low			05/21/25	
Q2082-08	BP-VPB-182-GW-390- 392	Water			05/19/25			05/19/25
			VOCMS Group1	8260-Low			05/21/25	
Q2082-09	BP-VPB-182-GW-400- 402	Water			05/19/25			05/19/25
			VOCMS Group1	8260-Low			05/21/25	
Q2082-12	VPB182-HYD-202505 16	Water			05/16/25			05/19/25
			VOCMS Group1	8260-Low			05/21/25	

Hit Summary Sheet SW-846

SDG No.: Q2082

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID: Q2082-02	BP-VPB-182-GW-260-262 BP-VPB-182-GW-2 Water	Acetone		4.50	J	1.50	3.80	5.00	ug/L
		Total Voc :		4.50					
		Total Concentration:		4.50					
Client ID: Q2082-03	BP-VPB-182-GW-280-282 BP-VPB-182-GW-2 Water	Chloromethane		0.86	J	0.32	0.50	1.00	ug/L
Q2082-03	BP-VPB-182-GW-2 Water	Acetone		5.90		1.50	3.80	5.00	ug/L
Q2082-03	BP-VPB-182-GW-2 Water	Carbon Disulfide		0.80	J	0.21	0.75	1.00	ug/L
		Total Voc :		7.56					
		Total Concentration:		7.56					
Client ID: Q2082-04	BP-VPB-182-GW-300-302 BP-VPB-182-GW-3 Water	Acetone		7.70		1.50	3.80	5.00	ug/L
		Total Voc :		7.70					
		Total Concentration:		7.70					
Client ID: Q2082-05	BP-VPB-182-GW-320-322 BP-VPB-182-GW-3 Water	Acetone		6.40		1.50	3.80	5.00	ug/L
		Total Voc :		6.40					
		Total Concentration:		6.40					
Client ID: Q2082-07	BP-VPB-182-GW-360-362 BP-VPB-182-GW-3 Water	Acetone		2.60	J	1.50	3.80	5.00	ug/L
		Total Voc :		2.60					
		Total Concentration:		2.60					
Client ID: Q2082-08	BP-VPB-182-GW-390-392 BP-VPB-182-GW-3 Water	Acetone		2.50	J	1.50	3.80	5.00	ug/L
Q2082-08	BP-VPB-182-GW-3 Water	Carbon Disulfide		0.49	J	0.21	0.75	1.00	ug/L
		Total Voc :		2.99					
		Total Concentration:		2.99					
Client ID: Q2082-09	BP-VPB-182-GW-400-402 BP-VPB-182-GW-4 Water	Acetone		2.70	J	1.50	3.80	5.00	ug/L
		Total Voc :		2.70					
		Total Concentration:		2.70					
Client ID: Q2082-12	VPB182-HYD-20250516 VPB182-HYD-2025 Water	Acetone		3.60	J	1.50	3.80	5.00	ug/L
Q2082-12	VPB182-HYD-2025 Water	Bromodichloromethane		0.62	J	0.22	0.50	1.00	ug/L
Q2082-12	VPB182-HYD-2025 Water	Dibromochloromethane		1.20		0.18	0.50	1.00	ug/L
		Total Voc :		5.42					
		Total Concentration:		5.42					



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	05/15/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-TB-20250515		SDG No.:	Q2082	
Lab Sample ID:	Q2082-01		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046294.D	1		05/21/25 13:56	VX052125

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:	05/15/25		
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:	05/19/25		
Client Sample ID:	BP-VPB-182-TB-20250515			SDG No.:	Q2082		
Lab Sample ID:	Q2082-01			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:	DB-624UI	ID :	0.18	Level :	LOW		
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046294.D	1		05/21/25 13:56	VX052125

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	51.5		81 - 118		103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	50.7		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.3		85 - 114		105%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	71500	5.55				
540-36-3	1,4-Difluorobenzene	140000	6.757				
3114-55-4	Chlorobenzene-d5	132000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	60200	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D	U				

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	05/15/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-TB-20250515		SDG No.:	Q2082	
Lab Sample ID:	Q2082-01		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046294.D	1		05/21/25 13:56	VX052125

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:	05/15/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-260-262		SDG No.:	Q2082	
Lab Sample ID:	Q2082-02		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046297.D	1		05/21/25 15:05	VX052125

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	4.50	J	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:	05/15/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-260-262		SDG No.:	Q2082	
Lab Sample ID:	Q2082-02		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046297.D	1		05/21/25 15:05	VX052125

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	53.6		81 - 118		107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	50.5		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.6		85 - 114		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	65000	5.544				
540-36-3	1,4-Difluorobenzene	132000	6.757				
3114-55-4	Chlorobenzene-d5	123000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	51700	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D	U				

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	05/15/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-260-262		SDG No.:	Q2082	
Lab Sample ID:	Q2082-02		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046297.D	1		05/21/25 15:05	VX052125

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:	05/15/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-280-282		SDG No.:	Q2082	
Lab Sample ID:	Q2082-03		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046298.D	1		05/21/25 15:29	VX052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.86	J	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	5.90		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.80	J	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:	05/15/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-280-282		SDG No.:	Q2082	
Lab Sample ID:	Q2082-03		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046298.D	1		05/21/25 15:29	VX052125

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	52.4		81 - 118		105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	49.4		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.2		85 - 114		96%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	65600	5.55				
540-36-3	1,4-Difluorobenzene	130000	6.757				
3114-55-4	Chlorobenzene-d5	119000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	47500	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D	U				

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	05/15/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-280-282		SDG No.:	Q2082	
Lab Sample ID:	Q2082-03		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046298.D	1		05/21/25 15:29	VX052125

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:	05/15/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-300-302		SDG No.:	Q2082	
Lab Sample ID:	Q2082-04		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046295.D	1		05/21/25 14:19	VX052125

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	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:	05/15/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-300-302		SDG No.:	Q2082	
Lab Sample ID:	Q2082-04		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046295.D	1		05/21/25 14:19	VX052125

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	52.7		81 - 118		105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	50.4		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.0		85 - 114		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	76300	5.544				
540-36-3	1,4-Difluorobenzene	151000	6.757				
3114-55-4	Chlorobenzene-d5	140000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	58700	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D	U				

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	05/15/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-300-302		SDG No.:	Q2082	
Lab Sample ID:	Q2082-04		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046295.D	1		05/21/25 14:19	VX052125

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:	05/16/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-320-322		SDG No.:	Q2082	
Lab Sample ID:	Q2082-05		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046299.D	1		05/21/25 15:52	VX052125

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	6.40		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:	05/16/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-320-322		SDG No.:	Q2082	
Lab Sample ID:	Q2082-05		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046299.D	1		05/21/25 15:52	VX052125

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	53.3		81 - 118		107%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	51.0		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.1		85 - 114		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	64800	5.55				
540-36-3	1,4-Difluorobenzene	127000	6.757				
3114-55-4	Chlorobenzene-d5	120000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	48500	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D	U				

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	05/16/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-320-322		SDG No.:	Q2082	
Lab Sample ID:	Q2082-05		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046299.D	1		05/21/25 15:52	VX052125

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:	05/16/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-360-362		SDG No.:	Q2082	
Lab Sample ID:	Q2082-07		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046300.D	1		05/21/25 16:15	VX052125

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	2.60	J	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:	05/16/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-360-362		SDG No.:	Q2082	
Lab Sample ID:	Q2082-07		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046300.D	1		05/21/25 16:15	VX052125

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	53.2		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	50.0		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	49.3		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.0		85 - 114		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	65100	5.55				
540-36-3	1,4-Difluorobenzene	131000	6.757				
3114-55-4	Chlorobenzene-d5	120000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	50200	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D	U				

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	05/16/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-360-362		SDG No.:	Q2082	
Lab Sample ID:	Q2082-07		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046300.D	1		05/21/25 16:15	VX052125

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:	05/19/25	
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-390-392			SDG No.:	Q2082	
Lab Sample ID:	Q2082-08			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:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046301.D	1		05/21/25 16:39	VX052125

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	2.50	J	1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.49	J	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:	05/19/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-390-392		SDG No.:	Q2082	
Lab Sample ID:	Q2082-08		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046301.D	1		05/21/25 16:39	VX052125

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	54.1		81 - 118		108%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.8		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.6		85 - 114		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	65900	5.55				
540-36-3	1,4-Difluorobenzene	130000	6.757				
3114-55-4	Chlorobenzene-d5	123000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	52600	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D	U				

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	05/19/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-390-392		SDG No.:	Q2082	
Lab Sample ID:	Q2082-08		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046301.D	1		05/21/25 16:39	VX052125

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:	05/19/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-400-402		SDG No.:	Q2082	
Lab Sample ID:	Q2082-09		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046306.D	1		05/21/25 18:35	VX052125

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	2.70	J	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:	05/19/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-400-402		SDG No.:	Q2082	
Lab Sample ID:	Q2082-09		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046306.D	1		05/21/25 18:35	VX052125

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	53.6		81 - 118		107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.5		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	50.3		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.7		85 - 114		99%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	68900	5.55				
540-36-3	1,4-Difluorobenzene	136000	6.757				
3114-55-4	Chlorobenzene-d5	128000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	53500	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D	U				

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	05/19/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-400-402		SDG No.:	Q2082	
Lab Sample ID:	Q2082-09		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046306.D	1		05/21/25 18:35	VX052125

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:	05/16/25	
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:	05/19/25	
Client Sample ID:	VPB182-HYD-20250516			SDG No.:	Q2082	
Lab Sample ID:	Q2082-12			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:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046296.D	1		05/21/25 14:42	VX052125

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	3.60	J	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	0.62	J	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:	05/16/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	VPB182-HYD-20250516		SDG No.:	Q2082	
Lab Sample ID:	Q2082-12		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046296.D	1		05/21/25 14:42	VX052125

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	52.4		81 - 118		105%	SPK: 50
1868-53-7	Dibromofluoromethane	50.2		80 - 119		100%	SPK: 50
2037-26-5	Toluene-d8	49.5		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.8		85 - 114		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	67600	5.544				
540-36-3	1,4-Difluorobenzene	134000	6.757				
3114-55-4	Chlorobenzene-d5	128000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	54800	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D	U				

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	05/16/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	VPB182-HYD-20250516		SDG No.:	Q2082	
Lab Sample ID:	Q2082-12		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046296.D	1		05/21/25 14:42	VX052125

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



QC SUMMARY

Surrogate Summary

SDG No.: **Q2082**

Client: **Tetra Tech NUS, Inc.**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q2082-01	BP-VPB-182-TB-20250515	1,2-Dichloroethane-d4	50	51.5	103	81	118
		Dibromofluoromethane	50	50.0	100	80	119
		Toluene-d8	50	50.7	101	89	112
		4-Bromofluorobenzene	50	52.3	105	85	114
Q2082-02	BP-VPB-182-GW-260-262	1,2-Dichloroethane-d4	50	53.6	107	81	118
		Dibromofluoromethane	50	50.2	100	80	119
		Toluene-d8	50	50.5	101	89	112
		4-Bromofluorobenzene	50	50.5	101	85	114
Q2082-03	BP-VPB-182-GW-280-282	1,2-Dichloroethane-d4	50	52.4	105	81	118
		Dibromofluoromethane	50	50.1	100	80	119
		Toluene-d8	50	49.4	99	89	112
		4-Bromofluorobenzene	50	48.3	96	85	114
Q2082-04	BP-VPB-182-GW-300-302	1,2-Dichloroethane-d4	50	52.7	105	81	118
		Dibromofluoromethane	50	50.1	100	80	119
		Toluene-d8	50	50.4	101	89	112
		4-Bromofluorobenzene	50	51.0	102	85	114
Q2082-05	BP-VPB-182-GW-320-322	1,2-Dichloroethane-d4	50	53.3	107	81	118
		Dibromofluoromethane	50	51.0	102	80	119
		Toluene-d8	50	51.0	102	89	112
		4-Bromofluorobenzene	50	50.1	100	85	114
Q2082-07	BP-VPB-182-GW-360-362	1,2-Dichloroethane-d4	50	53.2	106	81	118
		Dibromofluoromethane	50	50.0	100	80	119
		Toluene-d8	50	49.3	99	89	112
		4-Bromofluorobenzene	50	49.0	98	85	114
Q2082-08	BP-VPB-182-GW-390-392	1,2-Dichloroethane-d4	50	54.1	108	81	118
		Dibromofluoromethane	50	50.9	102	80	119
		Toluene-d8	50	50.8	102	89	112
		4-Bromofluorobenzene	50	51.6	103	85	114
Q2082-09	BP-VPB-182-GW-400-402	1,2-Dichloroethane-d4	50	53.6	107	81	118
		Dibromofluoromethane	50	50.5	101	80	119
		Toluene-d8	50	50.3	101	89	112
		4-Bromofluorobenzene	50	49.7	99	85	114
Q2082-10MS	BP-VPB-182-GW-400-402MS	1,2-Dichloroethane-d4	50	53.2	106	81	118
		Dibromofluoromethane	50	52.6	105	80	119
		Toluene-d8	50	51.3	103	89	112
		4-Bromofluorobenzene	50	52.1	104	85	114
Q2082-11MSD	BP-VPB-182-GW-400-402MSD	1,2-Dichloroethane-d4	50	50.6	101	81	118
		Dibromofluoromethane	50	49.2	98	80	119
		Toluene-d8	50	48.7	97	89	112
		4-Bromofluorobenzene	50	49.9	100	85	114
Q2082-12	VPB182-HYD-20250516	1,2-Dichloroethane-d4	50	52.4	105	81	118
		Dibromofluoromethane	50	50.2	100	80	119
		Toluene-d8	50	49.5	99	89	112
		4-Bromofluorobenzene	50	51.8	104	85	114
VX0521WBL01	VX0521WBL01	1,2-Dichloroethane-d4	50	53.5	107	81	118
		Dibromofluoromethane	50	50.9	102	80	119
		Toluene-d8	50	50.8	102	89	112
		4-Bromofluorobenzene	50	50.7	101	85	114
VX0521WBS01	VX0521WBS01	1,2-Dichloroethane-d4	50	53.6	107	81	118
		Dibromofluoromethane	50	54.3	109	80	119

Surrogate Summary

SDG No.: Q2082

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
VX0521WBS01	VX0521WBS01	Toluene-d8	50	52.4	105	89	112
		4-Bromofluorobenzene	50	55.0	110	85	114

A

B

C

D

E

F

G

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2082

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Parameter	Spike	Sample	Result	Units	Rec		RPD	Limits		
		Result			Qual	RPD	Qual	Low	High	RPD
Lab Sample ID :	Q2082-10MS	Client Sample ID :	BP-VPB-182-GW-400-402MS				Datafile :	VX046307.D		
Chloromethane	50	0	55.3	ug/L	111			50	139	
Vinyl chloride	50	0	52.6	ug/L	105			58	137	
Bromomethane	50	0	51.2	ug/L	102			53	141	
Chloroethane	50	0	57.8	ug/L	116			60	138	
Trichlorofluoromethane	50	0	53.7	ug/L	107			65	141	
1,1,2-Trichlorotrifluoroethane	50	0	48.2	ug/L	96			70	136	
1,1-Dichloroethene	50	0	54.3	ug/L	109			71	131	
Acetone	250	2.70	290	ug/L	115			39	160	
Carbon disulfide	50	0	49.8	ug/L	100			64	133	
Methyl tert-butyl Ether	50	0	56.9	ug/L	114			71	124	
Methylene Chloride	50	0	53.0	ug/L	106			74	124	
trans-1,2-Dichloroethene	50	0	54.4	ug/L	109			75	124	
1,1-Dichloroethane	50	0	57.1	ug/L	114			77	125	
2-Butanone	250	0	300	ug/L	120			56	143	
Carbon Tetrachloride	50	0	53.3	ug/L	107			72	136	
cis-1,2-Dichloroethene	50	0	55.2	ug/L	110			78	123	
Chloroform	50	0	56.9	ug/L	114			79	124	
1,1,1-Trichloroethane	50	0	55.5	ug/L	111			74	131	
Methylcyclohexane	50	0	45.9	ug/L	92			72	132	
Benzene	50	0	55.3	ug/L	111			79	120	
1,2-Dichloroethane	50	0	55.9	ug/L	112			73	128	
Trichloroethene	50	0	53.8	ug/L	108			79	123	
1,2-Dichloropropane	50	0	57.0	ug/L	114			78	122	
Bromodichloromethane	50	0	56.9	ug/L	114			79	125	
4-Methyl-2-Pentanone	250	0	300	ug/L	120			67	130	
Toluene	50	0	55.4	ug/L	111			80	121	
t-1,3-Dichloropropene	50	0	54.2	ug/L	108			73	127	
cis-1,3-Dichloropropene	50	0	54.4	ug/L	109			75	124	
1,1,2-Trichloroethane	50	0	55.9	ug/L	112			80	119	
2-Hexanone	250	0	300	ug/L	120			57	139	
Dibromochloromethane	50	0	57.4	ug/L	115			74	126	
Tetrachloroethene	50	0	52.3	ug/L	105			74	129	
Chlorobenzene	50	0	52.5	ug/L	105			82	118	
Ethyl Benzene	50	0	54.3	ug/L	109			79	121	
m/p-Xylenes	100	0	110	ug/L	110			80	121	
o-Xylene	50	0	54.7	ug/L	109			78	122	
Styrene	50	0	54.6	ug/L	109			78	123	
Bromoform	50	0	53.4	ug/L	107			66	130	
Isopropylbenzene	50	0	56.3	ug/L	113			72	131	
1,1,2,2-Tetrachloroethane	50	0	53.7	ug/L	107			71	121	
1,3-Dichlorobenzene	50	0	54.1	ug/L	108			80	119	
1,4-Dichlorobenzene	50	0	52.5	ug/L	105			79	118	
1,2-Dichlorobenzene	50	0	53.9	ug/L	108			80	119	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2082

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Limits											
Parameter	Spike	Sample	Result	Units	Rec		RPD		Limits		RPD
		Result			Qual	RPD	Qual	Low	High		
Lab Sample ID :	Q2082-11MSD	Client Sample ID :	BP-VPB-182-GW-400-402MSD				Datafile :	VX046308.D			
Chloromethane	50	0	52.6	ug/L	105		5		50	139	20
Vinyl chloride	50	0	50.7	ug/L	101		4		58	137	20
Bromomethane	50	0	51.2	ug/L	102		0		53	141	20
Chloroethane	50	0	55.1	ug/L	110		5		60	138	20
Trichlorofluoromethane	50	0	52.4	ug/L	105		2		65	141	20
1,1,2-Trichlorotrifluoroethane	50	0	45.7	ug/L	91		5		70	136	20
1,1-Dichloroethene	50	0	52.0	ug/L	104		4		71	131	20
Acetone	250	2.70	280	ug/L	111		4		39	160	20
Carbon disulfide	50	0	49.0	ug/L	98		2		64	133	20
Methyl tert-butyl Ether	50	0	55.9	ug/L	112		2		71	124	20
Methylene Chloride	50	0	51.1	ug/L	102		4		74	124	20
trans-1,2-Dichloroethene	50	0	52.5	ug/L	105		4		75	124	20
1,1-Dichloroethane	50	0	55.7	ug/L	111		2		77	125	20
2-Butanone	250	0	290	ug/L	116		3		56	143	20
Carbon Tetrachloride	50	0	51.4	ug/L	103		4		72	136	20
cis-1,2-Dichloroethene	50	0	54.4	ug/L	109		1		78	123	20
Chloroform	50	0	55.5	ug/L	111		2		79	124	20
1,1,1-Trichloroethane	50	0	55.0	ug/L	110		1		74	131	20
Methylcyclohexane	50	0	43.2	ug/L	86		6		72	132	20
Benzene	50	0	52.4	ug/L	105		5		79	120	20
1,2-Dichloroethane	50	0	52.6	ug/L	105		6		73	128	20
Trichloroethene	50	0	51.2	ug/L	102		5		79	123	20
1,2-Dichloropropane	50	0	53.2	ug/L	106		7		78	122	20
Bromodichloromethane	50	0	54.6	ug/L	109		4		79	125	20
4-Methyl-2-Pentanone	250	0	290	ug/L	116		3		67	130	20
Toluene	50	0	52.8	ug/L	106		5		80	121	20
t-1,3-Dichloropropene	50	0	53.0	ug/L	106		2		73	127	20
cis-1,3-Dichloropropene	50	0	53.1	ug/L	106		2		75	124	20
1,1,2-Trichloroethane	50	0	54.4	ug/L	109		3		80	119	20
2-Hexanone	250	0	290	ug/L	116		3		57	139	20
Dibromochloromethane	50	0	55.9	ug/L	112		3		74	126	20
Tetrachloroethene	50	0	49.5	ug/L	99		6		74	129	20
Chlorobenzene	50	0	52.2	ug/L	104		1		82	118	20
Ethyl Benzene	50	0	53.5	ug/L	107		1		79	121	20
m/p-Xylenes	100	0	110	ug/L	110		0		80	121	20
o-Xylene	50	0	54.3	ug/L	109		1		78	122	20
Styrene	50	0	52.8	ug/L	106		3		78	123	20
Bromoform	50	0	54.1	ug/L	108		1		66	130	20
Isopropylbenzene	50	0	54.4	ug/L	109		3		72	131	20
1,1,2,2-Tetrachloroethane	50	0	53.2	ug/L	106		1		71	121	20
1,3-Dichlorobenzene	50	0	52.3	ug/L	105		3		80	119	20
1,4-Dichlorobenzene	50	0	51.1	ug/L	102		3		79	118	20
1,2-Dichlorobenzene	50	0	52.1	ug/L	104		3		80	119	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2082

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VX046287.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0521WBS01	Chloromethane	20	19.7	ug/L	99			50	139	
	Vinyl chloride	20	19.0	ug/L	95			58	137	
	Bromomethane	20	19.6	ug/L	98			53	141	
	Chloroethane	20	20.8	ug/L	104			60	138	
	Trichlorofluoromethane	20	20.1	ug/L	101			65	141	
	1,1,2-Trichlorotrifluoroethane	20	19.6	ug/L	98			70	136	
	1,1-Dichloroethene	20	18.8	ug/L	94			71	131	
	Acetone	100	100	ug/L	100			39	160	
	Carbon disulfide	20	15.6	ug/L	78			64	133	
	Methyl tert-butyl Ether	20	20.6	ug/L	103			71	124	
	Methylene Chloride	20	19.7	ug/L	99			74	124	
	trans-1,2-Dichloroethene	20	19.5	ug/L	98			75	124	
	1,1-Dichloroethane	20	20.8	ug/L	104			77	125	
	2-Butanone	100	110	ug/L	110			56	143	
	Carbon Tetrachloride	20	20.4	ug/L	102			72	136	
	cis-1,2-Dichloroethene	20	19.9	ug/L	100			78	123	
	Chloroform	20	20.9	ug/L	104			79	124	
	1,1,1-Trichloroethane	20	20.5	ug/L	103			74	131	
	Methylcyclohexane	20	18.2	ug/L	91			72	132	
	Benzene	20	20.3	ug/L	102			79	120	
	1,2-Dichloroethane	20	21.0	ug/L	105			73	128	
	Trichloroethene	20	20.1	ug/L	101			79	123	
	1,2-Dichloropropane	20	20.7	ug/L	104			78	122	
	Bromodichloromethane	20	20.9	ug/L	104			79	125	
	4-Methyl-2-Pentanone	100	110	ug/L	110			67	130	
	Toluene	20	20.5	ug/L	103			80	121	
	t-1,3-Dichloropropene	20	19.9	ug/L	100			73	127	
	cis-1,3-Dichloropropene	20	20.4	ug/L	102			75	124	
	1,1,2-Trichloroethane	20	21.6	ug/L	108			80	119	
	2-Hexanone	100	110	ug/L	110			57	139	
	Dibromochloromethane	20	21.5	ug/L	108			74	126	
	Tetrachloroethene	20	20.5	ug/L	103			74	129	
	Chlorobenzene	20	19.8	ug/L	99			82	118	
	Ethyl Benzene	20	20.1	ug/L	101			79	121	
	m/p-Xylenes	40	40.3	ug/L	101			80	121	
	o-Xylene	20	20.9	ug/L	104			78	122	
	Styrene	20	21.2	ug/L	106			78	123	
	Bromoform	20	19.9	ug/L	100			66	130	
	Isopropylbenzene	20	20.4	ug/L	102			72	131	
	1,1,2,2-Tetrachloroethane	20	20.4	ug/L	102			71	121	
	1,3-Dichlorobenzene	20	20.5	ug/L	103			80	119	
	1,4-Dichlorobenzene	20	19.8	ug/L	99			79	118	
	1,2-Dichlorobenzene	20	20.5	ug/L	103			80	119	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0521WBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q2082

SAS No.: Q2082 SDG NO.: Q2082

Lab File ID: VX046286.D

Lab Sample ID: VX0521WBL01

Date Analyzed: 05/21/2025

Time Analyzed: 10:46

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0521WBS01	VX0521WBS01	VX046287.D	05/21/2025
BP-VPB-182-TB-20250515	Q2082-01	VX046294.D	05/21/2025
BP-VPB-182-GW-300-302	Q2082-04	VX046295.D	05/21/2025
VPB182-HYD-20250516	Q2082-12	VX046296.D	05/21/2025
BP-VPB-182-GW-260-262	Q2082-02	VX046297.D	05/21/2025
BP-VPB-182-GW-280-282	Q2082-03	VX046298.D	05/21/2025
BP-VPB-182-GW-320-322	Q2082-05	VX046299.D	05/21/2025
BP-VPB-182-GW-360-362	Q2082-07	VX046300.D	05/21/2025
BP-VPB-182-GW-390-392	Q2082-08	VX046301.D	05/21/2025
BP-VPB-182-GW-400-402	Q2082-09	VX046306.D	05/21/2025
BP-VPB-182-GW-400-402MS	Q2082-10MS	VX046307.D	05/21/2025
BP-VPB-182-GW-400-402MSD	Q2082-11MSD	VX046308.D	05/21/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q2082 SAS No.: Q2082 SDG NO.: Q2082
Lab File ID: VX046038.D BFB Injection Date: 05/05/2025
Instrument ID: MSVOA_X BFB Injection Time: 09:37
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.1
75	30.0 - 60.0% of mass 95	56.2
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	0.5 (0.7) 1
174	50.0 - 100.0% of mass 95	68.8
175	5.0 - 9.0% of mass 174	5 (7.3) 1
176	95.0 - 101.0% of mass 174	66.7 (97) 1
177	5.0 - 9.0% of mass 176	4.6 (6.9) 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
VSTDIC020	VSTDIC020	VX046041.D	05/05/2025	11:35
VSTDIC050	VSTDIC050	VX046042.D	05/05/2025	11:58
VSTDIC100	VSTDIC100	VX046043.D	05/05/2025	12:21
VSTDIC150	VSTDIC150	VX046044.D	05/05/2025	12:45
VSTDIC005	VSTDIC005	VX046046.D	05/05/2025	16:04
VSTDIC001	VSTDIC001	VX046047.D	05/05/2025	16:27

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q2082 SAS No.: Q2082 SDG NO.: Q2082
Lab File ID: VX046283.D BFB Injection Date: 05/21/2025
Instrument ID: MSVOA_X BFB Injection Time: 09:13
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.4
75	30.0 - 60.0% of mass 95	56.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.6 (0.9) 1
174	50.0 - 100.0% of mass 95	70.1
175	5.0 - 9.0% of mass 174	5.4 (7.7) 1
176	95.0 - 101.0% of mass 174	67.1 (95.7) 1
177	5.0 - 9.0% of mass 176	4.3 (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	VX046284.D	05/21/2025	09:55
VX0521WBL01	VX0521WBL01	VX046286.D	05/21/2025	10:46
VX0521WBS01	VX0521WBS01	VX046287.D	05/21/2025	11:09
BP-VPB-182-TB-20250515	Q2082-01	VX046294.D	05/21/2025	13:56
BP-VPB-182-GW-300-302	Q2082-04	VX046295.D	05/21/2025	14:19
VPB182-HYD-20250516	Q2082-12	VX046296.D	05/21/2025	14:42
BP-VPB-182-GW-260-262	Q2082-02	VX046297.D	05/21/2025	15:05
BP-VPB-182-GW-280-282	Q2082-03	VX046298.D	05/21/2025	15:29
BP-VPB-182-GW-320-322	Q2082-05	VX046299.D	05/21/2025	15:52
BP-VPB-182-GW-360-362	Q2082-07	VX046300.D	05/21/2025	16:15
BP-VPB-182-GW-390-392	Q2082-08	VX046301.D	05/21/2025	16:39
BP-VPB-182-GW-400-402	Q2082-09	VX046306.D	05/21/2025	18:35
BP-VPB-182-GW-400-402MS	Q2082-10MS	VX046307.D	05/21/2025	18:58
BP-VPB-182-GW-400-402MSD	Q2082-11MSD	VX046308.D	05/21/2025	19:21
VSTDCCC050EC	VSTDCCC050	VX046309.D	05/21/2025	19:44

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q2082 SAS No.: Q2082 SDG NO.: Q2082
Lab File ID: VX046284.D Date Analyzed: 05/21/2025
Instrument ID: MSVOA_X Time Analyzed: 09:55
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	95080	5.54	161730	6.75	140445	10.05
UPPER LIMIT	190160	6.037	323460	7.251	280890	10.549
LOWER LIMIT	47540	5.037	80865	6.251	70222.5	9.549
EPA SAMPLE NO.						
BP-VPB-182-TB-20250515	71541	5.55	139675	6.76	131819	10.05
BP-VPB-182-GW-260-262	65017	5.54	131648	6.76	122793	10.05
BP-VPB-182-GW-280-282	65611	5.55	130055	6.76	119143	10.06
BP-VPB-182-GW-300-302	76265	5.54	151412	6.76	140047	10.05
BP-VPB-182-GW-320-322	64755	5.55	127417	6.76	119598	10.05
BP-VPB-182-GW-360-362	65131	5.55	131317	6.76	119664	10.05
BP-VPB-182-GW-390-392	65898	5.55	130017	6.76	123419	10.05
BP-VPB-182-GW-400-402	68861	5.55	136083	6.76	127972	10.05
BP-VPB-182-GW-400-402MS	78978	5.54	141460	6.76	126683	10.05
BP-VPB-182-GW-400-402MSD	79940	5.55	146227	6.76	127394	10.05
VPB182-HYD-20250516	67553	5.54	134394	6.76	128060	10.05
VX0521WBL01	66690	5.54	132814	6.76	124685	10.05
VX0521WBS01	83102	5.54	146697	6.76	130479	10.05

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.: Q2082 SAS No.: Q2082 SDG NO.: Q2082
Lab File ID: VX046284.D Date Analyzed: 05/21/2025
Instrument ID: MSVOA_X Time Analyzed: 09:55
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	67683	12.018				
UPPER LIMIT	135366	12.518				
LOWER LIMIT	33841.5	11.518				
EPA SAMPLE NO.						
BP-VPB-182-TB-20250515	60241	12.02				
BP-VPB-182-GW-260-262	51747	12.02				
BP-VPB-182-GW-280-282	47547	12.02				
BP-VPB-182-GW-300-302	58719	12.02				
BP-VPB-182-GW-320-322	48477	12.02				
BP-VPB-182-GW-360-362	50238	12.02				
BP-VPB-182-GW-390-392	52601	12.02				
BP-VPB-182-GW-400-402	53505	12.02				
BP-VPB-182-GW-400-402MS	57803	12.02				
BP-VPB-182-GW-400-402MSD	59572	12.02				
VPB182-HYD-20250516	54802	12.02				
VX0521WBL01	53099	12.02				
VX0521WBS01	62651	12.02				

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:	VX0521WBL01		SDG No.:	Q2082
Lab Sample ID:	VX0521WBL01		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:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046286.D	1		05/21/25 10:46	VX052125

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:	VX0521WBL01		SDG No.:	Q2082
Lab Sample ID:	VX0521WBL01		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:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046286.D	1		05/21/25 10:46	VX052125

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	53.5		81 - 118		107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.9		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.8		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		85 - 114		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	66700	5.544				
540-36-3	1,4-Difluorobenzene	133000	6.757				
3114-55-4	Chlorobenzene-d5	125000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	53100	12.018				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	
Client Sample ID:	VX0521WBS01		SDG No.:	Q2082
Lab Sample ID:	VX0521WBS01		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:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046287.D	1		05/21/25 11:09	VX052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	19.7		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	19.0		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	19.6		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	20.8		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	20.1		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.6		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.8		0.23	0.75	1.00	ug/L
67-64-1	Acetone	100		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	15.6		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	20.6		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	19.7		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	19.5		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	20.8		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	110		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.4		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.9		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	20.5		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	18.2		0.16	0.50	1.00	ug/L
71-43-2	Benzene	20.3		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.0		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	20.1		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	20.7		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	20.9		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	110		0.68	2.50	5.00	ug/L
108-88-3	Toluene	20.5		0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.9		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.4		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.6		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	110		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:	VX0521WBS01		SDG No.:	Q2082
Lab Sample ID:	VX0521WBS01		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:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046287.D	1		05/21/25 11:09	VX052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	21.5		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	20.5		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.8		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	20.1		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	40.3		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	20.9		0.12	0.50	1.00	ug/L
100-42-5	Styrene	21.2		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	19.9		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	20.4		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	20.5		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.8		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	20.5		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	54.3		80 - 119		109%	SPK: 50
2037-26-5	Toluene-d8	52.4		89 - 112		105%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.0		85 - 114		110%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	83100	5.544				
540-36-3	1,4-Difluorobenzene	147000	6.757				
3114-55-4	Chlorobenzene-d5	130000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	62700	12.018				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	05/19/25	
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-400-402MS			SDG No.:	Q2082	
Lab Sample ID:	Q2082-10MS			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:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046307.D	1		05/21/25 18:58	VX052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	55.3		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	52.6		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	51.2		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	57.8		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	53.7		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	48.2		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	54.3		0.23	0.75	1.00	ug/L
67-64-1	Acetone	290		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	49.8		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	56.9		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	53.0		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	54.4		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	57.1		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	300		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	53.3		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	55.2		0.19	0.75	1.00	ug/L
67-66-3	Chloroform	56.9		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	55.5		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	45.9		0.16	0.50	1.00	ug/L
71-43-2	Benzene	55.3		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	55.9		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	53.8		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	57.0		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	56.9		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	300		0.68	2.50	5.00	ug/L
108-88-3	Toluene	55.4		0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	54.2		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	54.4		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	55.9		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	300		0.89	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	05/19/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-400-402MS		SDG No.:	Q2082	
Lab Sample ID:	Q2082-10MS		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046307.D	1		05/21/25 18:58	VX052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	57.4		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	52.3		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	52.5		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	54.3		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	110		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	54.7		0.12	0.50	1.00	ug/L
100-42-5	Styrene	54.6		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	53.4		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	56.3		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	53.7		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	54.1		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	52.5		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	53.9		0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.2		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	52.6		80 - 119		105%	SPK: 50
2037-26-5	Toluene-d8	51.3		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.1		85 - 114		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	79000	5.544				
540-36-3	1,4-Difluorobenzene	141000	6.757				
3114-55-4	Chlorobenzene-d5	127000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	57800	12.018				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	05/19/25	
Project:	NWIRP Bethpage 112G08005-WE13			Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-400-402MSD			SDG No.:	Q2082	
Lab Sample ID:	Q2082-11MSD			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:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :						

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046308.D	1		05/21/25 19:21	VX052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	52.6		0.32	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	50.7		0.26	0.75	1.00	ug/L
74-83-9	Bromomethane	51.2		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	55.1		0.47	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	52.4		0.33	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	45.7		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	52.0		0.23	0.75	1.00	ug/L
67-64-1	Acetone	280		1.50	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	49.0		0.21	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	55.9		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	51.1		0.28	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	52.5		0.23	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	55.7		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	290		0.98	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	51.4		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	54.4		0.19	0.75	1.00	ug/L
67-66-3	Chloroform	55.5		0.25	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	55.0		0.20	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	43.2		0.16	0.50	1.00	ug/L
71-43-2	Benzene	52.4		0.15	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	52.6		0.22	0.50	1.00	ug/L
79-01-6	Trichloroethene	51.2		0.090	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	53.2		0.20	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	54.6		0.22	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	290		0.68	2.50	5.00	ug/L
108-88-3	Toluene	52.8		0.14	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	53.0		0.17	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	53.1		0.16	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	54.4		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	290		0.89	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	05/19/25	
Project:	NWIRP Bethpage 112G08005-WE13		Date Received:	05/19/25	
Client Sample ID:	BP-VPB-182-GW-400-402MSD		SDG No.:	Q2082	
Lab Sample ID:	Q2082-11MSD		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:	DB-624UI	ID : 0.18	Level :	LOW	
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046308.D	1		05/21/25 19:21	VX052125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	55.9		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	49.5		0.23	0.50	1.00	ug/L
108-90-7	Chlorobenzene	52.2		0.12	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	53.5		0.13	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	110		0.24	1.00	2.00	ug/L
95-47-6	o-Xylene	54.3		0.12	0.50	1.00	ug/L
100-42-5	Styrene	52.8		0.15	0.50	1.00	ug/L
75-25-2	Bromoform	54.1		0.19	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	54.4		0.12	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	53.2		0.26	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	52.3		0.16	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	51.1		0.19	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	52.1		0.16	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.6		81 - 118		101%	SPK: 50
1868-53-7	Dibromofluoromethane	49.2		80 - 119		98%	SPK: 50
2037-26-5	Toluene-d8	48.7		89 - 112		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		85 - 114		100%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	79900	5.55				
540-36-3	1,4-Difluorobenzene	146000	6.757				
3114-55-4	Chlorobenzene-d5	127000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	59600	12.018				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q2082 SAS No.: Q2082 SDG No.: Q2082
Instrument ID: MSVOA_X Calibration Date(s): 05/05/2025 05/05/2025
Heated Purge: (Y/N) N Calibration Time(s): 11:35 16:27
GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF020 = VX046041.D		RRF050 = VX046042.D		RRF100 = VX046043.D			
		RRF150 = VX046044.D		RRF005 = VX046046.D		RRF001 = VX046047.D			
COMPOUND	RRF020	RRF050	RRF100	RRF150	RRF005	RRF001	RRF	% RSD	
Chloromethane	0.727	0.775	0.787	0.791	0.679	0.694	0.742	6.6	
Vinyl Chloride	0.660	0.710	0.727	0.755	0.619	0.673	0.691	7.2	
Bromomethane	0.296	0.326	0.340	0.334	0.305		0.320	5.8	
Chloroethane	0.354	0.378	0.329	0.317	0.368	0.467	0.369	14.4	
Trichlorofluoromethane	1.035	1.068	0.983	0.985	0.990	1.064	1.021	3.9	
1,1,2-Trichlorotrifluoroethane	0.628	0.641	0.629	0.648	0.610	0.633	0.632	2.1	
1,1-Dichloroethene	0.565	0.601	0.607	0.625	0.567	0.594	0.593	3.9	
Acetone	0.361	0.362	0.361	0.370	0.408	0.380	0.374	4.9	
Carbon Disulfide	1.295	1.455	1.522	1.597	1.141	1.423	1.406	11.7	
Methyl tert-butyl Ether	2.044	2.160	2.172	2.239	1.908	1.949	2.079	6.4	
Methylene Chloride	0.689	0.684	0.691	0.691	0.689	0.853	0.716	9.4	
trans-1,2-Dichloroethene	0.573	0.610	0.612	0.622	0.557	0.604	0.596	4.3	
1,1-Dichloroethane	1.233	1.263	1.263	1.286	1.154	1.116	1.219	5.6	
2-Butanone	0.540	0.555	0.558	0.569	0.539	0.495	0.543	4.8	
Carbon Tetrachloride	0.528	0.558	0.552	0.577	0.505	0.541	0.544	4.6	
cis-1,2-Dichloroethene	0.716	0.737	0.738	0.755	0.642	0.719	0.718	5.5	
Chloroform	1.287	1.296	1.277	1.300	1.199	1.265	1.271	3	
1,1,1-Trichloroethane	1.106	1.131	1.155	1.188	1.013	1.015	1.101	6.6	
Methylcyclohexane	0.596	0.641	0.627	0.658	0.587	0.627	0.623	4.3	
Benzene	1.426	1.474	1.441	1.477	1.337	1.348	1.417	4.3	
1,2-Dichloroethane	0.632	0.627	0.611	0.625	0.594	0.579	0.612	3.5	
Trichloroethene	0.344	0.355	0.345	0.362	0.315	0.324	0.341	5.3	
1,2-Dichloropropane	0.356	0.371	0.368	0.378	0.324	0.317	0.352	7.4	
Bromodichloromethane	0.557	0.577	0.573	0.594	0.498	0.485	0.547	8.2	
4-Methyl-2-Pentanone	0.620	0.634	0.630	0.631	0.555	0.561	0.605	6	
Toluene	0.884	0.898	0.885	0.904	0.838	0.803	0.869	4.5	
t-1,3-Dichloropropene	0.468	0.528	0.555	0.591	0.406	0.371	0.487	17.9	
cis-1,3-Dichloropropene	0.531	0.578	0.602	0.623	0.469	0.423	0.538	14.6	
1,1,2-Trichloroethane	0.349	0.354	0.351	0.356	0.337	0.308	0.343	5.3	
2-Hexanone	0.466	0.473	0.477	0.473	0.414	0.385	0.448	8.7	

* 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.: Q2082 SAS No.: Q2082 SDG No.: Q2082

Instrument ID: MSVOA_X Calibration Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Calibration Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF020 = VX046041.D		RRF050 = VX046042.D		RRF100 = VX046043.D			
		RRF150 = VX046044.D		RRF005 = VX046046.D		RRF001 = VX046047.D			
COMPOUND	RRF020	RRF050	RRF100	RRF150	RRF005	RRF001	RRF	% RSD	
Dibromochloromethane	0.378	0.400	0.415	0.431	0.326	0.306	0.376	13.3	
Tetrachloroethene	0.390	0.375	0.345	0.344	0.323	0.347	0.354	6.8	
Chlorobenzene	1.093	1.098	1.085	1.114	1.046	1.131	1.094	2.7	
Ethyl Benzene	1.919	2.022	1.979	2.036	1.816	1.803	1.929	5.2	
m/p-Xylenes	0.706	0.740	0.721	0.740	0.678	0.648	0.706	5.2	
o-Xylene	0.688	0.727	0.706	0.726	0.639	0.642	0.688	5.7	
Styrene	1.135	1.219	1.214	1.230	1.012	0.951	1.127	10.6	
Bromoform	0.270	0.304	0.312	0.327	0.236	0.234	0.281	14.2	
Isopropylbenzene	3.843	4.130	3.876	4.156	3.562	3.789	3.893	5.7	
1,1,2,2-Tetrachloroethane	1.315	1.338	1.284	1.345	1.350	1.552	1.364	7	
1,3-Dichlorobenzene	1.633	1.701	1.656	1.730	1.558	1.619	1.649	3.7	
1,4-Dichlorobenzene	1.629	1.693	1.639	1.722	1.606	1.817	1.684	4.6	
1,2-Dichlorobenzene	1.613	1.696	1.634	1.702	1.577	1.710	1.655	3.3	
1,2-Dichloroethane-d4	0.953	0.910	0.930	0.932	0.935		0.932	1.6	
Dibromofluoromethane	0.359	0.355	0.364	0.368	0.354		0.360	1.7	
Toluene-d8	1.246	1.223	1.266	1.275	1.221		1.246	2	
4-Bromofluorobenzene	0.455	0.470	0.500	0.500	0.464		0.478	4.4	

* 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 CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2082 SAS No.: Q2082 SDG No.: Q2082

Instrument ID: MSVOA_X Calibration Date/Time: 05/21/2025 09:55

Lab File ID: VX046284.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.742	0.718	0.1	-3.23	20
Vinyl Chloride	0.691	0.658		-4.78	20
Bromomethane	0.320	0.295		-7.81	20
Chloroethane	0.369	0.376		1.9	20
Trichlorofluoromethane	1.021	1.037		1.57	20
1,1,2-Trichlorotrifluoroethane	0.632	0.636		0.63	20
1,1-Dichloroethene	0.593	0.565		-4.72	20
Acetone	0.374	0.385		2.94	20
Carbon Disulfide	1.406	1.268		-9.81	20
Methyl tert-butyl Ether	2.079	2.141		2.98	20
Methylene Chloride	0.716	0.669		-6.56	20
trans-1,2-Dichloroethene	0.596	0.569		-4.53	20
1,1-Dichloroethane	1.219	1.239	0.1	1.64	20
2-Butanone	0.543	0.551		1.47	20
Carbon Tetrachloride	0.544	0.553		1.65	20
cis-1,2-Dichloroethene	0.718	0.707		-1.53	20
Chloroform	1.271	1.290		1.5	20
1,1,1-Trichloroethane	1.101	1.116		1.36	20
Methylcyclohexane	0.623	0.594		-4.66	20
Benzene	1.417	1.412		-0.35	20
1,2-Dichloroethane	0.612	0.615		0.49	20
Trichloroethene	0.341	0.344		0.88	20
1,2-Dichloropropane	0.352	0.366		3.98	20
Bromodichloromethane	0.547	0.585		6.95	20
4-Methyl-2-Pentanone	0.605	0.637		5.29	20
Toluene	0.869	0.857		-1.38	20
t-1,3-Dichloropropene	0.487	0.530		8.83	20
cis-1,3-Dichloropropene	0.538	0.582		8.18	20
1,1,2-Trichloroethane	0.343	0.354		3.21	20
2-Hexanone	0.448	0.473		5.58	20
Dibromochloromethane	0.376	0.414		10.11	20
Tetrachloroethene	0.354	0.370		4.52	20
Chlorobenzene	1.094	1.082	0.3	-1.1	20
Ethyl Benzene	1.929	1.968		2.02	20
m/p-Xylenes	0.706	0.721		2.13	20
o-Xylene	0.688	0.712		3.49	20
Styrene	1.127	1.215		7.81	20
Bromoform	0.281	0.307	0.1	9.25	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.: Q2082 SAS No.: Q2082 SDG No.: Q2082

Instrument ID: MSVOA_X Calibration Date/Time: 05/21/2025 09:55

Lab File ID: VX046284.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.893	4.007		2.93	20
1,1,2,2-Tetrachloroethane	1.364	1.299	0.3	-4.76	20
1,3-Dichlorobenzene	1.649	1.667		1.09	20
1,4-Dichlorobenzene	1.684	1.675		-0.53	20
1,2-Dichlorobenzene	1.655	1.691		2.17	20
1,2-Dichloroethane-d4	0.932	0.913		-2.04	20
Dibromofluoromethane	0.360	0.371		3.06	20
Toluene-d8	1.246	1.223		-1.85	20
4-Bromofluorobenzene	0.478	0.481		0.63	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.: Q2082 SAS No.: Q2082 SDG No.: Q2082

Instrument ID: MSVOA_X Calibration Date/Time: 05/21/2025 19:44

Lab File ID: VX046309.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.742	0.769	0.1	3.64	50
Vinyl Chloride	0.691	0.691		0	50
Bromomethane	0.320	0.326		1.88	50
Chloroethane	0.369	0.402		8.94	50
Trichlorofluoromethane	1.021	1.087		6.46	50
1,1,2-Trichlorotrifluoroethane	0.632	0.646		2.21	50
1,1-Dichloroethene	0.593	0.609		2.7	50
Acetone	0.374	0.392		4.81	50
Carbon Disulfide	1.406	1.379		-1.92	50
Methyl tert-butyl Ether	2.079	2.290		10.15	50
Methylene Chloride	0.716	0.707		-1.26	50
trans-1,2-Dichloroethene	0.596	0.609		2.18	50
1,1-Dichloroethane	1.219	1.336	0.1	9.6	50
2-Butanone	0.543	0.605		11.42	50
Carbon Tetrachloride	0.544	0.571		4.96	50
cis-1,2-Dichloroethene	0.718	0.772		7.52	50
Chloroform	1.271	1.395		9.76	50
1,1,1-Trichloroethane	1.101	1.195		8.54	50
Methylcyclohexane	0.623	0.636		2.09	50
Benzene	1.417	1.500		5.86	50
1,2-Dichloroethane	0.612	0.652		6.54	50
Trichloroethene	0.341	0.361		5.86	50
1,2-Dichloropropane	0.352	0.391		11.08	50
Bromodichloromethane	0.547	0.608		11.15	50
4-Methyl-2-Pentanone	0.605	0.688		13.72	50
Toluene	0.869	0.921		5.98	50
t-1,3-Dichloropropene	0.487	0.540		10.88	50
cis-1,3-Dichloropropene	0.538	0.595		10.6	50
1,1,2-Trichloroethane	0.343	0.376		9.62	50
2-Hexanone	0.448	0.510		13.84	50
Dibromochloromethane	0.376	0.429		14.1	50
Tetrachloroethene	0.354	0.365		3.11	50
Chlorobenzene	1.094	1.136	0.3	3.84	50
Ethyl Benzene	1.929	2.098		8.76	50
m/p-Xylenes	0.706	0.767		8.64	50
o-Xylene	0.688	0.753		9.45	50
Styrene	1.127	1.288		14.29	50
Bromoform	0.281	0.308	0.1	9.61	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.: Q2082 SAS No.: Q2082 SDG No.: Q2082

Instrument ID: MSVOA_X Calibration Date/Time: 05/21/2025 19:44

Lab File ID: VX046309.D Init. Calib. Date(s): 05/05/2025 05/05/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 11:35 16:27

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.893	4.262		9.48	50
1,1,2,2-Tetrachloroethane	1.364	1.388	0.3	1.76	50
1,3-Dichlorobenzene	1.649	1.744		5.76	50
1,4-Dichlorobenzene	1.684	1.757		4.34	50
1,2-Dichlorobenzene	1.655	1.755		6.04	50
1,2-Dichloroethane-d4	0.932	0.965		3.54	50
Dibromofluoromethane	0.360	0.378		5	50
Toluene-d8	1.246	1.283		2.97	50
4-Bromofluorobenzene	0.478	0.523		9.41	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:	Q2082	OrderDate:	5/19/2025 4:13:00 PM
Client:	Tetra Tech NUS, Inc.	Project:	NWIRP Bethpage 112G08005-WE13
Contact:	Ernie Wu	Location:	L31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2082-02	BP-VPB-182-GW-260-262	Water			05/15/25			05/19/25
			SVOC-SIMGroup1	8270-Modified		05/21/25	05/28/25	
Q2082-04	BP-VPB-182-GW-300-302	Water			05/15/25			05/19/25
			SVOC-SIMGroup1	8270-Modified		05/21/25	05/28/25	
Q2082-06	BP-VPB-182-GW-340-342	Water			05/16/25			05/19/25
			SVOC-SIMGroup1	8270-Modified		05/21/25	05/28/25	
Q2082-08	BP-VPB-182-GW-390-392	Water			05/19/25			05/19/25
			SVOC-SIMGroup1	8270-Modified		05/21/25	05/28/25	
Q2082-12	VPB182-HYD-20250516	Water			05/16/25			05/19/25
			SVOC-SIMGroup1	8270-Modified		05/21/25	05/28/25	

Hit Summary Sheet SW-846

SDG No.: Q2082

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID : BP-VPB-182-GW-300-302								
Q2082-04	BP-VPB-182-GW-300-30 WATER	1,4-Dioxane	0.230		0.07	0.2	0.2	ug/L
		Total Svoc :		0.23				
		Total Concentration:		0.23				
Client ID : BP-VPB-182-GW-340-342								
Q2082-06	BP-VPB-182-GW-340-34 WATER	1,4-Dioxane	0.330		0.08	0.24	0.24	ug/L
		Total Svoc :		0.33				
		Total Concentration:		0.33				
Client ID : BP-VPB-182-GW-390-392								
Q2082-08	BP-VPB-182-GW-390-35 WATER	1,4-Dioxane	0.300		0.07	0.22	0.22	ug/L
		Total Svoc :		0.30				
		Total Concentration:		0.30				



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	05/15/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/19/25
Client Sample ID:	BP-VPB-182-GW-260-262	SDG No.:	Q2082
Lab Sample ID:	Q2082-02	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	520 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
BN037114.D	1	05/21/25 08:41	05/28/25 18:23	PB168100

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.38	U	0.13	0.38	0.38	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.26		30 - 150		64%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.28		30 - 150		71%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		55 - 111		63%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.34		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.50		58 - 132		125%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1700	7.611				
1146-65-2	Naphthalene-d8	4550	10.394				
15067-26-2	Acenaphthene-d10	2500	14.256				
1517-22-2	Phenanthrene-d10	4890	17.009				
1719-03-5	Chrysene-d12	3170	21.198				
1520-96-3	Perylene-d12	2640	23.398				

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:	05/15/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/19/25
Client Sample ID:	BP-VPB-182-GW-300-302	SDG No.:	Q2082
Lab Sample ID:	Q2082-04	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 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
BN037115.D	1	05/21/25 08:41	05/28/25 18:59	PB168100

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.23		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.26		30 - 150		64%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		81%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.26		55 - 111		64%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		82%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.53		58 - 132		132%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1750	7.611				
1146-65-2	Naphthalene-d8	4760	10.394				
15067-26-2	Acenaphthene-d10	2640	14.256				
1517-22-2	Phenanthrene-d10	5100	16.996				
1719-03-5	Chrysene-d12	3510	21.198				
1520-96-3	Perylene-d12	2980	23.398				

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:	05/16/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/19/25
Client Sample ID:	BP-VPB-182-GW-340-342	SDG No.:	Q2082
Lab Sample ID:	Q2082-06	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	850 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
BN037116.D	1	05/21/25 08:41	05/28/25 19:35	PB168100

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.33		0.080	0.24	0.24	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		71%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		84%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		100%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.57	*	58 - 132		142%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1870	7.611				
1146-65-2	Naphthalene-d8	4980	10.394				
15067-26-2	Acenaphthene-d10	2700	14.256				
1517-22-2	Phenanthrene-d10	5230	17.009				
1719-03-5	Chrysene-d12	3310	21.198				
1520-96-3	Perylene-d12	2880	23.398				

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:	05/19/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/19/25
Client Sample ID:	BP-VPB-182-GW-390-392	SDG No.:	Q2082
Lab Sample ID:	Q2082-08	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	890 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
BN037117.D	1	05/21/25 08:41	05/28/25 20:11	PB168100

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.30		0.070	0.22	0.22	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.28		30 - 150		70%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.32		30 - 150		79%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		74%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		53 - 106		102%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.59	*	58 - 132		147%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1980	7.611				
1146-65-2	Naphthalene-d8	5090	10.394				
15067-26-2	Acenaphthene-d10	2710	14.256				
1517-22-2	Phenanthrene-d10	4780	17.009				
1719-03-5	Chrysene-d12	3140	21.197				
1520-96-3	Perylene-d12	3040	23.398				

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:	05/16/25
Project:	NWIRP Bethpage 112G08005-WE13	Date Received:	05/19/25
Client Sample ID:	VPB182-HYD-20250516	SDG No.:	Q2082
Lab Sample ID:	Q2082-12	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
BN037118.D	1	05/21/25 08:41	05/28/25 20:47	PB168100

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	0.0080	*	30 - 150		2%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.032	*	30 - 150		8%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		71%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.41		53 - 106		103%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		114%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2060	7.611				
1146-65-2	Naphthalene-d8	5060	10.394				
15067-26-2	Acenaphthene-d10	2510	14.256				
1517-22-2	Phenanthrene-d10	4250	17.009				
1719-03-5	Chrysene-d12	3090	21.198				
1520-96-3	Perylene-d12	2550	23.398				

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.: Q2082

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB168100BL	PB168100BL	2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.33	83		30	150
		Nitrobenzene-d5	0.4	0.34	86		55	111
		2-Fluorobiphenyl	0.4	0.35	88		53	106
		Terphenyl-d14	0.4	0.46	115		58	132
PB168100BS	PB168100BS	2-Methylnaphthalene-d10	0.4	0.38	94		30	150
		Fluoranthene-d10	0.4	0.28	69		30	150
		Nitrobenzene-d5	0.4	0.33	83		55	111
		2-Fluorobiphenyl	0.4	0.35	86		53	106
		Terphenyl-d14	0.4	0.37	92		58	132
PB168100BSD	PB168100BSD	2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.29	73		30	150
		Nitrobenzene-d5	0.4	0.35	86		55	111
		2-Fluorobiphenyl	0.4	0.39	98		53	106
		Terphenyl-d14	0.4	0.38	95		58	132
Q2082-02	BP-VPB-182-GW-260-262	2-Methylnaphthalene-d10	0.4	0.26	64		30	150
		Fluoranthene-d10	0.4	0.28	71		30	150
		Nitrobenzene-d5	0.4	0.25	63		55	111
		2-Fluorobiphenyl	0.4	0.34	86		53	106
		Terphenyl-d14	0.4	0.50	125		58	132
Q2082-04	BP-VPB-182-GW-300-302	2-Methylnaphthalene-d10	0.4	0.26	64		30	150
		Fluoranthene-d10	0.4	0.32	81		30	150
		Nitrobenzene-d5	0.4	0.26	64		55	111
		2-Fluorobiphenyl	0.4	0.33	82		53	106
		Terphenyl-d14	0.4	0.53	132		58	132
Q2082-06	BP-VPB-182-GW-340-342	2-Methylnaphthalene-d10	0.4	0.28	71		30	150
		Fluoranthene-d10	0.4	0.34	84		30	150
		Nitrobenzene-d5	0.4	0.30	74		55	111
		2-Fluorobiphenyl	0.4	0.40	100		53	106
		Terphenyl-d14	0.4	0.57	142	*	58	132
Q2082-08	BP-VPB-182-GW-390-392	2-Methylnaphthalene-d10	0.4	0.28	70		30	150
		Fluoranthene-d10	0.4	0.32	79		30	150
		Nitrobenzene-d5	0.4	0.30	74		55	111
		2-Fluorobiphenyl	0.4	0.41	102		53	106
		Terphenyl-d14	0.4	0.59	147	*	58	132
Q2082-12	VPB182-HYD-20250516	2-Methylnaphthalene-d10	0.4	0.0080	2	*	30	150
		Fluoranthene-d10	0.4	0.032	8	*	30	150
		Nitrobenzene-d5	0.4	0.28	71		55	111
		2-Fluorobiphenyl	0.4	0.41	103		53	106
		Terphenyl-d14	0.4	0.46	114		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2082

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN037124.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB168100BS	1,4-Dioxane	0.4	0.28	ug/L	70				70	130	

A

B

C

D

E

F

G

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2082

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN037125.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB168100BSD	1,4-Dioxane	0.4	0.29	ug/L	73	4			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168100BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q2082

SAS No.: Q2082 SDG NO.: Q2082

Lab File ID: BN037113.D

Lab Sample ID: PB168100BL

Instrument ID: BNA_N

Date Extracted: 05/21/2025

Matrix: (soil/water) Water

Date Analyzed: 05/28/2025

Level: (low/med) LOW

Time Analyzed: 17:47

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168100BS	PB168100BS	BN037124.D	05/29/2025
BP-VPB-182-GW-260-262	Q2082-02	BN037114.D	05/28/2025
BP-VPB-182-GW-300-302	Q2082-04	BN037115.D	05/28/2025
BP-VPB-182-GW-340-342	Q2082-06	BN037116.D	05/28/2025
PB168100BSD	PB168100BSD	BN037125.D	05/29/2025
BP-VPB-182-GW-390-392	Q2082-08	BN037117.D	05/28/2025
VPB182-HYD-20250516	Q2082-12	BN037118.D	05/28/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

SAS No.: Q2082

SDG NO.: Q2082

Lab File ID: BN036998.D

DFTPP Injection Date: 05/13/2025

Instrument ID: BNA_N

DFTPP Injection Time: 17:02

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	62.8
68	Less than 2.0% of mass 69	0.8 (1.4) 1
69	Mass 69 relative abundance	55.6
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	52.7
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	6.9
275	10.0 - 60.0% of mass 198	23.8
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	8.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.4 (19) 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	BN036999.D	05/13/2025	17:41
SSTDICC0.2	SSTDICC0.2	BN037000.D	05/13/2025	18:17
SSTDICCC0.4	SSTDICCC0.4	BN037001.D	05/13/2025	18:53
SSTDICC0.8	SSTDICC0.8	BN037002.D	05/13/2025	19:29
SSTDICC1.6	SSTDICC1.6	BN037003.D	05/13/2025	20:05
SSTDICC3.2	SSTDICC3.2	BN037004.D	05/13/2025	20:41
SSTDICC5.0	SSTDICC5.0	BN037005.D	05/13/2025	21:17

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

SAS No.: Q2082 SDG NO.: Q2082

Lab File ID: BN037111.D

DFTPP Injection Date: 05/28/2025

Instrument ID: BNA_N

DFTPP Injection Time: 16:31

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	75.5
68	Less than 2.0% of mass 69	0.9 (1.4) 1
69	Mass 69 relative abundance	62.5
70	Less than 2.0% of mass 69	0.4 (0.6) 1
127	10.0 - 80.0% of mass 198	56.1
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	6.8
275	10.0 - 60.0% of mass 198	25.1
365	Greater than 1% of mass 198	4.6
441	Present, but less than mass 443	9.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	11.5 (19.5) 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	BN037112.D	05/28/2025	17:11
PB168100BL	PB168100BL	BN037113.D	05/28/2025	17:47
BP-VPB-182-GW-260-262	Q2082-02	BN037114.D	05/28/2025	18:23
BP-VPB-182-GW-300-302	Q2082-04	BN037115.D	05/28/2025	18:59
BP-VPB-182-GW-340-342	Q2082-06	BN037116.D	05/28/2025	19:35
BP-VPB-182-GW-390-392	Q2082-08	BN037117.D	05/28/2025	20:11
VPB182-HYD-20250516	Q2082-12	BN037118.D	05/28/2025	20:47
PB168100BS	PB168100BS	BN037124.D	05/29/2025	00:23
PB168100BSD	PB168100BSD	BN037125.D	05/29/2025	00:59
SSTDCCC0.4EC	SSTDCCC0.4	BN037126.D	05/29/2025	01:35

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2082 SAS No.: Q2082 SDG NO.: Q2082

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 05/28/2025

Lab File ID: BN037112.D Time Analyzed: 17:11

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	2022	7.611	5050	10.38	2480	14.26
UPPER LIMIT	4044	8.111	10100	10.883	4960	14.756
LOWER LIMIT	1011	7.111	2525	9.883	1240	13.756
EPA SAMPLE NO.						
01 PB168100BL	1765	7.61	4396	10.39	2346	14.26
02 BP-VPB-182-GW-260-262	1698	7.61	4547	10.39	2504	14.26
03 PB168100BS	2482	7.61	6249	10.38	2970	14.26
04 PB168100BSD	2246	7.61	5562	10.38	2593	14.26
05 BP-VPB-182-GW-300-302	1749	7.61	4761	10.39	2641	14.26
06 BP-VPB-182-GW-340-342	1870	7.61	4981	10.39	2695	14.26
07 BP-VPB-182-GW-390-392	1975	7.61	5085	10.39	2709	14.26
08 VPB182-HYD-20250516	2059	7.61	5062	10.39	2514	14.26

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.: Q2082 SAS No.: Q2082 SDG NO.: Q2082

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 05/28/2025

Lab File ID: BN037112.D Time Analyzed: 17:11

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	4231	17.009	3037	21.198	3091	23.395
UPPER LIMIT	8462	17.509	6074	21.698	6182	23.895
LOWER LIMIT	2115.5	16.509	1518.5	20.698	1545.5	22.895
EPA SAMPLE NO.						
01 PB168100BL	4153	17.01	2590	21.20	2358	23.40
02 BP-VPB-182-GW-260-262	4885	17.01	3172	21.20	2643	23.40
03 PB168100BS	4819	17.01	3074	21.20	3112	23.40
04 PB168100BSD	4050	17.01	2689	21.20	2817	23.39
05 BP-VPB-182-GW-300-302	5103	17.00	3511	21.20	2983	23.40
06 BP-VPB-182-GW-340-342	5234	17.01	3312	21.20	2878	23.40
07 BP-VPB-182-GW-390-392	4782	17.01	3144	21.20	3044	23.40
08 VPB182-HYD-20250516	4253	17.01	3086	21.20	2551	23.40

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:	PB168100BL		SDG No.:	Q2082	
Lab Sample ID:	PB168100BL		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
BN037113.D	1	05/21/25 08:41	05/28/25 17:47	PB168100

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	0.36		30 - 150		90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.33		30 - 150		83%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.46		58 - 132		115%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1770	7.611				
1146-65-2	Naphthalene-d8	4400	10.394				
15067-26-2	Acenaphthene-d10	2350	14.256				
1517-22-2	Phenanthrene-d10	4150	17.009				
1719-03-5	Chrysene-d12	2590	21.198				
1520-96-3	Perylene-d12	2360	23.401				

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:	PB168100BS		SDG No.:	Q2082
Lab Sample ID:	PB168100BS		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
BN037124.D	1	05/21/25 08:41	05/29/25 00:23	PB168100

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	0.38		30 - 150		94%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.28		30 - 150		69%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		83%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		86%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		58 - 132		92%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2480	7.611				
1146-65-2	Naphthalene-d8	6250	10.383				
15067-26-2	Acenaphthene-d10	2970	14.256				
1517-22-2	Phenanthrene-d10	4820	17.009				
1719-03-5	Chrysene-d12	3070	21.198				
1520-96-3	Perylene-d12	3110	23.395				

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:	PB168100BSD		SDG No.:	Q2082
Lab Sample ID:	PB168100BSD		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
BN037125.D	1	05/21/25 08:41	05/29/25 00:59	PB168100

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.29		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.29		30 - 150		73%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		55 - 111		86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		98%	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	2250	7.611				
1146-65-2	Naphthalene-d8	5560	10.383				
15067-26-2	Acenaphthene-d10	2590	14.256				
1517-22-2	Phenanthrene-d10	4050	17.009				
1719-03-5	Chrysene-d12	2690	21.197				
1520-96-3	Perylene-d12	2820	23.392				

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-BN051425.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed May 14 11:26:32 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN036999.D 0.2 =BN037000.D 0.4 =BN037001.D 0.8 =BN037002.D 1.6 =BN037003.D 3.2 =BN037004.D 5.0 =BN037005.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	0.510	0.512	0.487	0.514	0.467	0.454	0.491	5.25	
3)	n-Nitrosodimet...	1.465	0.974	0.980	0.971	1.075	0.967	0.950	1.054	17.59
4) S	2-Fluorophenol	1.101	1.134	1.024	1.093	0.964	0.971	1.048	6.87	
5) S	Phenol-d6	1.304	1.385	1.236	1.392	1.259	1.292	1.311	4.91	
6)	bis(2-Chloroet...	1.441	1.163	1.153	1.135	1.240	1.168	1.148	1.207	9.02
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.546	0.383	0.398	0.400	0.452	0.426	0.442	0.436	12.60
9)	Naphthalene	1.326	1.140	1.144	1.122	1.226	1.152	1.165	1.182	6.05
10)	Hexachlorobuta...	0.286	0.248	0.244	0.235	0.256	0.236	0.233	0.248	7.47
11) SURR2	Methylnaphth...	0.529	0.547	0.552	0.548	0.603	0.574	0.588	0.563	4.65
12)	2-Methylnaphth...	0.754	0.724	0.736	0.733	0.814	0.770	0.790	0.760	4.34
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.174	0.168	0.178	0.160	0.186	0.175	0.189	0.176	5.77
15) S	2-Fluorobiphenyl	1.912	1.801	1.901	1.802	1.927	1.672	1.807	1.832	4.90
16)	Acenaphthylene	1.906	1.838	1.894	1.849	2.071	1.997	2.075	1.947	5.14
17)	Acenaphthene	1.255	1.229	1.243	1.217	1.350	1.298	1.315	1.272	3.89
18)	Fluorene	1.602	1.581	1.635	1.611	1.779	1.721	1.752	1.669	4.80
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.060	0.073	0.079	0.102	0.103	0.124	0.090	26.02	
21)	4-Bromophenyl-...	0.243	0.246	0.250	0.247	0.262	0.261	0.259	0.253	3.13
22)	Hexachlorobenzene	0.267	0.269	0.281	0.259	0.281	0.270	0.267	0.270	3.03
23)	Atrazine	0.199	0.207	0.211	0.213	0.237	0.234	0.242	0.220	7.64
24)	Pentachlorophenol	0.133	0.134	0.141	0.137	0.159	0.162	0.177	0.149	11.45
25)	Phenanthrene	1.259	1.272	1.292	1.263	1.367	1.337	1.361	1.307	3.56
26)	Anthracene	1.099	1.104	1.166	1.130	1.269	1.259	1.300	1.190	7.13
27) SURR	Fluoranthene-d10	1.033	1.033	1.078	1.042	1.153	1.161	1.178	1.097	5.95
28)	Fluoranthene	1.461	1.439	1.500	1.496	1.670	1.672	1.693	1.562	7.13
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.744	1.708	1.727	1.656	1.790	1.641	1.711	1.711	2.96
31) S	Terphenyl-d14	0.897	0.844	0.871	0.822	0.891	0.816	0.848	0.856	3.73
32)	Benzo(a)anthra...	1.463	1.432	1.485	1.438	1.594	1.521	1.609	1.506	4.77
33)	Chrysene	1.655	1.559	1.616	1.532	1.653	1.560	1.576	1.593	3.05
34)	Bis(2-ethylhex...	0.955	0.919	0.906	0.855	0.941	0.903	1.011	0.927	5.27
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN051425.M

36)	Indeno(1,2,3-c...	1.511	1.613	1.645	1.568	1.687	1.732	1.680	1.634	4.65
37)	Benzo(b)fluora...	1.631	1.570	1.602	1.599	1.749	1.698	1.765	1.659	4.71
38)	Benzo(k)fluora...	1.539	1.538	1.642	1.601	1.770	1.661	1.719	1.639	5.34
39) C	Benzo(a)pyrene	1.380	1.343	1.381	1.331	1.486	1.444	1.486	1.407	4.59
40)	Dibenzo(a,h)an...	1.116	1.232	1.273	1.237	1.340	1.376	1.334	1.272	6.90
41)	Benzo(g,h,i)pe...	1.299	1.407	1.424	1.330	1.403	1.439	1.376	1.383	3.72

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2082 SAS No.: Q2082 SDG No.: Q2082

Instrument ID: BNA_N Calibration Date/Time: 05/28/2025 17:11

Lab File ID: BN037112.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 17:41 21:17

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.563	0.552		-2.0	20.0
Fluoranthene-d10	1.097	0.986		-10.1	20.0
2-Fluorophenol	1.048	0.938		-10.5	20.0
Phenol-d6	1.311	1.123		-14.3	20.0
Nitrobenzene-d5	0.436	0.426		-2.3	20.0
2-Fluorobiphenyl	1.832	1.889		3.1	20.0
2,4,6-Tribromophenol	0.176	0.145		-17.6	20.0
Terphenyl-d14	0.856	0.888		3.7	20.0
1,4-Dioxane	0.491	0.489		-0.4	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.: Q2082 SAS No.: Q2082 SDG No.: Q2082

Instrument ID: BNA_N Calibration Date/Time: 05/29/2025 01:35

Lab File ID: BN037126.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 17:41 21:17

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.563	0.577		2.5	50.0
Fluoranthene-d10	1.097	1.019		-7.1	50.0
2-Fluorophenol	1.048	0.946		-9.7	50.0
Phenol-d6	1.311	1.170		-10.8	50.0
Nitrobenzene-d5	0.436	0.407		-6.7	50.0
2-Fluorobiphenyl	1.832	1.641		-10.4	50.0
2,4,6-Tribromophenol	0.176	0.153		-13.1	50.0
Terphenyl-d14	0.856	1.004		17.3	50.0
1,4-Dioxane	0.491	0.459		-6.5	50.0

All other compounds must meet a minimum RRF of 0.010.



SHIPPING DOCUMENTS

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 : Q2082 TETR06

Order Date : 5/19/2025 4:13:00 PM

Project Mgr :

Client Name : Tetra Tech NUS, Inc.

Project Name : NWIRP Bethpage 112G080

Report Type : Level 4

Client Contact : Ernie Wu

Receive DateTime : 5/19/2025 12:00:00 AM

EDD Type : ADAPT

Invoice Name : Tetra Tech NUS, Inc.

Purchase Order : 18:36

Hard Copy Date :

Invoice Contact : Ernie Wu

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2082-01	BP-TB-20250515 BP-VPB-182-TB-20250515	Water	05/15/2025	08:00					
					VOCMS Group1		8260-Low	40 Bus. Days	2 day tat
Q2082-02	BP-VPB-182-GW-260-262	Water	05/15/2025	10:27					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2082-03	BP-VPB-182-GW-280-282	Water	05/15/2025	12:36					
					VOCMS Group1		8260-Low	40 Bus. Days	
Q2082-04	BP-VPB-182-GW-300-302	Water	05/15/2025	14:25					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2082-05	BP-VPB-182-GW-320-322	Water	05/16/2025	10:11					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2082-07	BP-VPB-182-GW-360-362	Water	05/16/2025	14:10					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2082-08	BP-VPB-182-GW-390-392	Water	05/19/2025	12:15					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2082-09	BP-VPB-182-GW-400-402	Water	05/19/2025	14:15					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2082	TETR06	Order Date : 5/19/2025 4:13:00 PM	Project Mgr :
Client Name : Tetra Tech NUS, Inc.		Project Name : NWIRP Bethpage 112G080	Report Type : Level 4
Client Contact : Ernie Wu		Receive DateTime : 5/19/2025 12:00:00 AM	EDD Type : ADAPT
Invoice Name : Tetra Tech NUS, Inc.		Purchase Order : 1830	Hard Copy Date :
Invoice Contact : Ernie Wu			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2082-10	Q2082-09MS	Water	05/19/2025	14:15	VOCMS Group1		8260-Low	10 Bus. Days	2 day tat
Q2082-11	Q2082-09MSD	Water	05/19/2025	14:15	VOCMS Group1		8260-Low	10 Bus. Days	
Q2082-12	VPB182-HYD-20250516	Water	05/16/2025	14:30	VOCMS Group1		8260-Low	10 Bus. Days	

Relinquished By :

Date / Time :

OR
5/20/25 11:47

Received By :

Date / Time :

Sams
05/20/25 11:47 Ag # 4

Storage Area : VOA Refridgerator Room