

ANALYTICAL RESULTS SUMMARY

VOLATILE ORGANICS
SEMI-VOLATILE ORGANICS

PROJECT NAME : CTO WE13

TETRA TECH NUS, INC.

661 Andersen Drive

Suite 200

Pittsburgh, PA - 15220-2745

Phone No: 412-921-7090

ORDER ID : Q1423

ATTENTION : Ernie Wu



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q1423

Project ID : NWIRP Bethpage CTO WE13 - VPB-192 #112G08005

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q1423-01
Q1423-02
Q1423-03
Q1423-04

Client Sample Number

BP-VPB-192-TB-20250220
VPB192-HYD-20250221
BP-VPB-192-EB-20250221
BP-VPB-192-GW-925-927

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: 3/5/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project Manager# Ernie Wu

Chemtech Project # Q1423

Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

4 Water samples were received on 02/24/2025.

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 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 %RSD is greater than 20% in the Initial Calibration method (82X021025W.M) for Chloroethane is passing on Quadratic Regression.

The Continuous Calibration File ID VX045029.D met the requirements except for 2-Hexanone,4-Methyl-2-Pentanone and Acetone are failing high and associate sample having hit of acetone but below CRQL therefore no corrective action taken.

The Tuning criteria met requirements.

E. Additional Comments:

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

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

The not QT review data is reported in the Miscellaneous.

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_____

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project Manager: Ernie Wu

Chemtech Project # Q1423

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

4 Water samples were received on 02/24/2025.

B. Parameters

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for PB166876BS [2-Fluorobiphenyl - 123%], PB166876BSD [2-Fluorobiphenyl - 127%], VPB192-HYD-20250221 [Terphenyl-d14 - 147%], BP-VPB-192-EB-20250221 [2-Fluorobiphenyl - 124% and Terphenyl-d14 - 158%], The above failure surrogates not associated with the client parameters list, therefore no corrective action was taken and VPB192-HYD-20250221 [2-Methylnaphthalene-d10 - 22%,], Due to the limited volume of this sample not be re-analyzed 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 File ID BN036508.D met the requirements except for 2,4,6-Tribromophenol , The above failure compound not associated with the client parameters list, therefore no corrective action was taken..

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)."

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.

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 <15% 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 > 15% 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 #: Q1423

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 03/05/2025

LAB CHRONICLE

OrderID:	Q1423	OrderDate:	2/25/2025 10:55:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	H33,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1423-01	BP-VPB-192-TB-2025 0220	Water			02/20/25			02/24/25
			VOCMS Group1	8260-Low			02/28/25	
Q1423-02	VPB192-HYD-202502 21	Water			02/21/25			02/24/25
			VOCMS Group1	8260-Low			02/25/25	
Q1423-03	BP-VPB-192-EB-2025 0221	Water			02/21/25			02/24/25
			VOCMS Group1	8260-Low			02/28/25	
Q1423-04	BP-VPB-192-GW-925- 927	Water			02/20/25			02/24/25
			VOCMS Group1	8260-Low			02/25/25	

Hit Summary Sheet
SW-846

SDG No.: Q1423

Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID: Q1423-01	BP-VPB-192-TB-20250220 BP-VPB-192-TB-20 Water	Acetone		14.0		1.40	3.80	5.00	ug/L
		Total Voc :		14.0					
		Total Concentration:		14.0					
Client ID: Q1423-02	VPB192-HYD-20250221 VPB192-HYD-2025 Water	Acetone		1.80	J	1.40	3.80	5.00	ug/L
Q1423-02	VPB192-HYD-2025 Water	Bromodichloromethane		0.99	J	0.24	0.50	1.00	ug/L
Q1423-02	VPB192-HYD-2025 Water	Dibromochloromethane		1.50		0.18	0.50	1.00	ug/L
		Total Voc :		4.29					
		Total Concentration:		4.29					
Client ID: Q1423-03	BP-VPB-192-EB-20250221 BP-VPB-192-EB-20 Water	Acetone		12.7		1.40	3.80	5.00	ug/L
Q1423-03	BP-VPB-192-EB-20 Water	Methylene Chloride		0.64	J	0.32	0.50	1.00	ug/L
		Total Voc :		13.3					
		Total Concentration:		13.3					
Client ID: Q1423-04	BP-VPB-192-GW-925-927 BP-VPB-192-GW-9 Water	Acetone		2.20	J	1.40	3.80	5.00	ug/L
		Total Voc :		2.20					
		Total Concentration:		2.20					



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.			Date Collected:	02/20/25	
Project:	CTO WE13			Date Received:	02/24/25	
Client Sample ID:	BP-VPB-192-TB-20250220			SDG No.:	Q1423	
Lab Sample ID:	Q1423-01			Matrix:	Water	
Analytical Method:	SW8260			% 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
VX045084.D	1		02/28/25 13:23	VX022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	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	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	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	0.26	0.75	1.00	ug/L
67-64-1	Acetone	14.0		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	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	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	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	1.30	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	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	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	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	02/20/25	
Project:	CTO WE13		Date Received:	02/24/25	
Client Sample ID:	BP-VPB-192-TB-20250220		SDG No.:	Q1423	
Lab Sample ID:	Q1423-01		Matrix:	Water	
Analytical Method:	SW8260		% 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
VX045084.D	1		02/28/25 13:23	VX022825

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	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	52.2		81 - 118		104%	SPK: 50
1868-53-7	Dibromofluoromethane	53.1		80 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	51.9		89 - 112		104%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.3		85 - 114		105%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	70100	5.55				
540-36-3	1,4-Difluorobenzene	139000	6.757				
3114-55-4	Chlorobenzene-d5	128000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	54100	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	02/20/25	
Project:	CTO WE13		Date Received:	02/24/25	
Client Sample ID:	BP-VPB-192-TB-20250220		SDG No.:	Q1423	
Lab Sample ID:	Q1423-01		Matrix:	Water	
Analytical Method:	SW8260		% 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
VX045084.D	1		02/28/25 13:23	VX022825

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:	02/21/25	
Project:	CTO WE13			Date Received:	02/24/25	
Client Sample ID:	VPB192-HYD-20250221			SDG No.:	Q1423	
Lab Sample ID:	Q1423-02			Matrix:	Water	
Analytical Method:	SW8260			% 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
VX045038.D	1		02/25/25 14:54	VX022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	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	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	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	0.26	0.75	1.00	ug/L
67-64-1	Acetone	1.80	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	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	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	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	1.30	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	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.99	J	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	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	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	02/21/25	
Project:	CTO WE13		Date Received:	02/24/25	
Client Sample ID:	VPB192-HYD-20250221		SDG No.:	Q1423	
Lab Sample ID:	Q1423-02		Matrix:	Water	
Analytical Method:	SW8260		% 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
VX045038.D	1		02/25/25 14:54	VX022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	1.50		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	0.50	U	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	55.7		81 - 118		111%	SPK: 50
1868-53-7	Dibromofluoromethane	53.0		80 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	50.4		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	50.7		85 - 114		101%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	78100	5.544				
540-36-3	1,4-Difluorobenzene	155000	6.757				
3114-55-4	Chlorobenzene-d5	144000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	57200	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	02/21/25	
Project:	CTO WE13		Date Received:	02/24/25	
Client Sample ID:	VPB192-HYD-20250221		SDG No.:	Q1423	
Lab Sample ID:	Q1423-02		Matrix:	Water	
Analytical Method:	SW8260		% 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
VX045038.D	1		02/25/25 14:54	VX022525

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:	02/21/25	
Project:	CTO WE13		Date Received:	02/24/25	
Client Sample ID:	BP-VPB-192-EB-20250221		SDG No.:	Q1423	
Lab Sample ID:	Q1423-03		Matrix:	Water	
Analytical Method:	SW8260		% 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
VX045085.D	1		02/28/25 13:47	VX022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	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	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	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	0.26	0.75	1.00	ug/L
67-64-1	Acetone	12.7		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	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	0.64	J	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	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	1.30	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	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	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	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	02/21/25	
Project:	CTO WE13		Date Received:	02/24/25	
Client Sample ID:	BP-VPB-192-EB-20250221		SDG No.:	Q1423	
Lab Sample ID:	Q1423-03		Matrix:	Water	
Analytical Method:	SW8260		% 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
VX045085.D	1		02/28/25 13:47	VX022825

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	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	51.2		81 - 118		102%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	51.4		89 - 112		103%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.2		85 - 114		104%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	69000	5.544				
540-36-3	1,4-Difluorobenzene	136000	6.757				
3114-55-4	Chlorobenzene-d5	125000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	51900	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	02/21/25	
Project:	CTO WE13		Date Received:	02/24/25	
Client Sample ID:	BP-VPB-192-EB-20250221		SDG No.:	Q1423	
Lab Sample ID:	Q1423-03		Matrix:	Water	
Analytical Method:	SW8260		% 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
VX045085.D	1		02/28/25 13:47	VX022825

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:	02/20/25	
Project:	CTO WE13			Date Received:	02/24/25	
Client Sample ID:	BP-VPB-192-GW-925-927			SDG No.:	Q1423	
Lab Sample ID:	Q1423-04			Matrix:	Water	
Analytical Method:	SW8260			% 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
VX045041.D	1		02/25/25 16:03	VX022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	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	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	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	0.26	0.75	1.00	ug/L
67-64-1	Acetone	2.20	J	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	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	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	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	1.30	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	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	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	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	02/20/25	
Project:	CTO WE13		Date Received:	02/24/25	
Client Sample ID:	BP-VPB-192-GW-925-927		SDG No.:	Q1423	
Lab Sample ID:	Q1423-04		Matrix:	Water	
Analytical Method:	SW8260		% 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
VX045041.D	1		02/25/25 16:03	VX022525

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	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	56.4		81 - 118		113%	SPK: 50
1868-53-7	Dibromofluoromethane	51.7		80 - 119		103%	SPK: 50
2037-26-5	Toluene-d8	50.1		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.9		85 - 114		98%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	78000	5.544				
540-36-3	1,4-Difluorobenzene	157000	6.757				
3114-55-4	Chlorobenzene-d5	140000	10.055				
3855-82-1	1,4-Dichlorobenzene-d4	56400	12.018				
TENTATIVE IDENTIFIED COMPOUNDS							
75-43-4	Dichlorofluoromethane	N.D					

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	02/20/25	
Project:	CTO WE13		Date Received:	02/24/25	
Client Sample ID:	BP-VPB-192-GW-925-927		SDG No.:	Q1423	
Lab Sample ID:	Q1423-04		Matrix:	Water	
Analytical Method:	SW8260		% 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
VX045041.D	1		02/25/25 16:03	VX022525

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.: Q1423

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1423-01	BP-VPB-192-TB-20250220	1,2-Dichloroethane-d4	50	52.2	104	81	118
		Dibromofluoromethane	50	53.1	106	80	119
		Toluene-d8	50	51.9	104	89	112
		4-Bromofluorobenzene	50	52.3	105	85	114
Q1423-02	VPB192-HYD-20250221	1,2-Dichloroethane-d4	50	55.7	111	81	118
		Dibromofluoromethane	50	53.0	106	80	119
		Toluene-d8	50	50.4	101	89	112
		4-Bromofluorobenzene	50	50.7	101	85	114
Q1423-03	BP-VPB-192-EB-20250221	1,2-Dichloroethane-d4	50	51.2	102	81	118
		Dibromofluoromethane	50	50.4	101	80	119
		Toluene-d8	50	51.4	103	89	112
		4-Bromofluorobenzene	50	52.3	104	85	114
Q1423-04	BP-VPB-192-GW-925-927	1,2-Dichloroethane-d4	50	56.4	113	81	118
		Dibromofluoromethane	50	51.7	103	80	119
		Toluene-d8	50	50.1	100	89	112
		4-Bromofluorobenzene	50	48.9	98	85	114
VX0225WBL01	VX0225WBL01	1,2-Dichloroethane-d4	50	53.6	107	81	118
		Dibromofluoromethane	50	50.3	101	80	119
		Toluene-d8	50	48.4	97	89	112
		4-Bromofluorobenzene	50	47.5	95	85	114
VX0225WBS01	VX0225WBS01	1,2-Dichloroethane-d4	50	53.0	106	81	118
		Dibromofluoromethane	50	52.8	106	80	119
		Toluene-d8	50	50.5	101	89	112
		4-Bromofluorobenzene	50	51.6	103	85	114
VX0225WBSD0	VX0225WBSD01	1,2-Dichloroethane-d4	50	53.4	107	81	118
		Dibromofluoromethane	50	53.7	107	80	119
		Toluene-d8	50	49.7	99	89	112
		4-Bromofluorobenzene	50	53.8	108	85	114
VX0228WBL01	VX0228WBL01	1,2-Dichloroethane-d4	50	50.0	100	81	118
		Dibromofluoromethane	50	51.0	102	80	119
		Toluene-d8	50	50.9	102	89	112
		4-Bromofluorobenzene	50	53.3	107	85	114
VX0228WBS01	VX0228WBS01	1,2-Dichloroethane-d4	50	46.9	94	81	118
		Dibromofluoromethane	50	48.2	96	80	119
		Toluene-d8	50	50.1	100	89	112
		4-Bromofluorobenzene	50	51.0	102	85	114

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1423

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VX045032.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0225WBS01	Chloromethane	20	15.3	ug/L	77			50	139	
	Vinyl chloride	20	16.6	ug/L	83			58	137	
	Bromomethane	20	20.6	ug/L	103			53	141	
	Chloroethane	20	21.1	ug/L	106			60	138	
	Trichlorofluoromethane	20	18.6	ug/L	93			65	141	
	1,1,2-Trichlorotrifluoroethane	20	19.1	ug/L	96			70	136	
	1,1-Dichloroethene	20	17.0	ug/L	85			71	131	
	Acetone	100	110	ug/L	110			39	160	
	Carbon disulfide	20	15.3	ug/L	77			64	133	
	Methyl tert-butyl Ether	20	18.8	ug/L	94			71	124	
	Methylene Chloride	20	18.5	ug/L	93			74	124	
	trans-1,2-Dichloroethene	20	17.7	ug/L	89			75	124	
	1,1-Dichloroethane	20	18.7	ug/L	94			77	125	
	2-Butanone	100	120	ug/L	120			56	143	
	Carbon Tetrachloride	20	19.6	ug/L	98			72	136	
	cis-1,2-Dichloroethene	20	18.8	ug/L	94			78	123	
	Chloroform	20	19.6	ug/L	98			79	124	
	1,1,1-Trichloroethane	20	18.7	ug/L	94			74	131	
	Methylcyclohexane	20	18.2	ug/L	91			72	132	
	Benzene	20	19.1	ug/L	96			79	120	
	1,2-Dichloroethane	20	21.3	ug/L	106			73	128	
	Trichloroethene	20	19.2	ug/L	96			79	123	
	1,2-Dichloropropane	20	19.8	ug/L	99			78	122	
	Bromodichloromethane	20	20.4	ug/L	102			79	125	
	4-Methyl-2-Pentanone	100	120	ug/L	120			67	130	
	Toluene	20	19.6	ug/L	98			80	121	
	t-1,3-Dichloropropene	20	18.7	ug/L	94			73	127	
	cis-1,3-Dichloropropene	20	19.3	ug/L	97			75	124	
	1,1,2-Trichloroethane	20	20.7	ug/L	104			80	119	
	2-Hexanone	100	120	ug/L	120			57	139	
	Dibromochloromethane	20	20.2	ug/L	101			74	126	
	Tetrachloroethene	20	19.2	ug/L	96			74	129	
	Chlorobenzene	20	19.5	ug/L	98			82	118	
	Ethyl Benzene	20	19.0	ug/L	95			79	121	
	m/p-Xylenes	40	38.8	ug/L	97			80	121	
	o-Xylene	20	19.5	ug/L	98			78	122	
	Styrene	20	20.0	ug/L	100			78	123	
	Bromoform	20	21.0	ug/L	105			66	130	
	Isopropylbenzene	20	19.0	ug/L	95			72	131	
	1,1,2,2-Tetrachloroethane	20	19.7	ug/L	99			71	121	
	1,3-Dichlorobenzene	20	18.6	ug/L	93			80	119	
	1,4-Dichlorobenzene	20	18.6	ug/L	93			79	118	
	1,2-Dichlorobenzene	20	19.2	ug/L	96			80	119	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1423

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VX045033.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0225WBSD01	Chloromethane	20	15.6	ug/L	78	1		50	139	20
	Vinyl chloride	20	16.1	ug/L	81	2		58	137	20
	Bromomethane	20	20.5	ug/L	103	0		53	141	20
	Chloroethane	20	22.7	ug/L	114	7		60	138	20
	Trichlorofluoromethane	20	18.9	ug/L	95	2		65	141	20
	1,1,2-Trichlorotrifluoroethane	20	18.4	ug/L	92	4		70	136	20
	1,1-Dichloroethene	20	17.1	ug/L	86	1		71	131	20
	Acetone	100	120	ug/L	120	9		39	160	20
	Carbon disulfide	20	15.3	ug/L	77	0		64	133	20
	Methyl tert-butyl Ether	20	19.2	ug/L	96	2		71	124	20
	Methylene Chloride	20	18.5	ug/L	93	0		74	124	20
	trans-1,2-Dichloroethene	20	17.6	ug/L	88	1		75	124	20
	1,1-Dichloroethane	20	18.6	ug/L	93	1		77	125	20
	2-Butanone	100	120	ug/L	120	0		56	143	20
	Carbon Tetrachloride	20	19.6	ug/L	98	0		72	136	20
	cis-1,2-Dichloroethene	20	18.6	ug/L	93	1		78	123	20
	Chloroform	20	19.7	ug/L	99	1		79	124	20
	1,1,1-Trichloroethane	20	18.9	ug/L	95	1		74	131	20
	Methylcyclohexane	20	18.8	ug/L	94	3		72	132	20
	Benzene	20	18.8	ug/L	94	2		79	120	20
	1,2-Dichloroethane	20	21.5	ug/L	108	2		73	128	20
	Trichloroethene	20	19.4	ug/L	97	1		79	123	20
	1,2-Dichloropropane	20	19.9	ug/L	100	1		78	122	20
	Bromodichloromethane	20	20.9	ug/L	104	2		79	125	20
	4-Methyl-2-Pentanone	100	130	ug/L	130	8		67	130	20
	Toluene	20	19.3	ug/L	97	1		80	121	20
	t-1,3-Dichloropropene	20	18.3	ug/L	92	2		73	127	20
	cis-1,3-Dichloropropene	20	19.7	ug/L	99	2		75	124	20
	1,1,2-Trichloroethane	20	21.0	ug/L	105	1		80	119	20
	2-Hexanone	100	130	ug/L	130	8		57	139	20
	Dibromochloromethane	20	20.7	ug/L	104	3		74	126	20
	Tetrachloroethene	20	19.2	ug/L	96	0		74	129	20
	Chlorobenzene	20	19.3	ug/L	97	1		82	118	20
	Ethyl Benzene	20	19.2	ug/L	96	1		79	121	20
	m/p-Xylenes	40	39.5	ug/L	99	2		80	121	20
	o-Xylene	20	19.3	ug/L	97	1		78	122	20
	Styrene	20	20.2	ug/L	101	1		78	123	20
	Bromoform	20	21.2	ug/L	106	1		66	130	20
	Isopropylbenzene	20	18.7	ug/L	94	1		72	131	20
	1,1,2,2-Tetrachloroethane	20	20.2	ug/L	101	2		71	121	20
	1,3-Dichlorobenzene	20	19.2	ug/L	96	3		80	119	20
	1,4-Dichlorobenzene	20	18.6	ug/L	93	0		79	118	20
	1,2-Dichlorobenzene	20	19.8	ug/L	99	3		80	119	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1423

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VX045080.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0228WBS01	Chloromethane	20	18.6	ug/L	93			50	139	
	Vinyl chloride	20	18.4	ug/L	92			58	137	
	Bromomethane	20	17.7	ug/L	89			53	141	
	Chloroethane	20	16.6	ug/L	83			60	138	
	Trichlorofluoromethane	20	18.6	ug/L	93			65	141	
	1,1,2-Trichlorotrifluoroethane	20	19.9	ug/L	100			70	136	
	1,1-Dichloroethene	20	18.1	ug/L	91			71	131	
	Acetone	100	83.3	ug/L	83			39	160	
	Carbon disulfide	20	17.7	ug/L	89			64	133	
	Methyl tert-butyl Ether	20	17.9	ug/L	90			71	124	
	Methylene Chloride	20	17.9	ug/L	90			74	124	
	trans-1,2-Dichloroethene	20	18.6	ug/L	93			75	124	
	1,1-Dichloroethane	20	17.9	ug/L	90			77	125	
	2-Butanone	100	91.6	ug/L	92			56	143	
	Carbon Tetrachloride	20	18.5	ug/L	93			72	136	
	cis-1,2-Dichloroethene	20	18.2	ug/L	91			78	123	
	Chloroform	20	18.1	ug/L	91			79	124	
	1,1,1-Trichloroethane	20	18.2	ug/L	91			74	131	
	Methylcyclohexane	20	20.8	ug/L	104			72	132	
	Benzene	20	19.0	ug/L	95			79	120	
	1,2-Dichloroethane	20	18.6	ug/L	93			73	128	
	Trichloroethene	20	18.6	ug/L	93			79	123	
	1,2-Dichloropropane	20	18.6	ug/L	93			78	122	
	Bromodichloromethane	20	18.6	ug/L	93			79	125	
	4-Methyl-2-Pentanone	100	95.6	ug/L	96			67	130	
	Toluene	20	19.6	ug/L	98			80	121	
	t-1,3-Dichloropropene	20	19.5	ug/L	98			73	127	
	cis-1,3-Dichloropropene	20	20.0	ug/L	100			75	124	
	1,1,2-Trichloroethane	20	19.1	ug/L	96			80	119	
	2-Hexanone	100	97.0	ug/L	97			57	139	
	Dibromochloromethane	20	18.5	ug/L	93			74	126	
	Tetrachloroethene	20	19.0	ug/L	95			74	129	
	Chlorobenzene	20	19.6	ug/L	98			82	118	
	Ethyl Benzene	20	19.4	ug/L	97			79	121	
	m/p-Xylenes	40	40.1	ug/L	100			80	121	
	o-Xylene	20	19.7	ug/L	99			78	122	
	Styrene	20	20.2	ug/L	101			78	123	
	Bromoform	20	18.2	ug/L	91			66	130	
	Isopropylbenzene	20	19.4	ug/L	97			72	131	
	1,1,2,2-Tetrachloroethane	20	18.3	ug/L	92			71	121	
	1,3-Dichlorobenzene	20	19.5	ug/L	98			80	119	
	1,4-Dichlorobenzene	20	19.4	ug/L	97			79	118	
	1,2-Dichlorobenzene	20	19.4	ug/L	97			80	119	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0225WBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1423

SAS No.: Q1423 SDG NO.: Q1423

Lab File ID: VX045031.D

Lab Sample ID: VX0225WBL01

Date Analyzed: 02/25/2025

Time Analyzed: 12:07

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
VX0225WBS01	VX0225WBS01	VX045032.D	02/25/2025
VX0225WBSD01	VX0225WBSD01	VX045033.D	02/25/2025
VPB192-HYD-20250221	Q1423-02	VX045038.D	02/25/2025
BP-VPB-192-GW-925-927	Q1423-04	VX045041.D	02/25/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0228WBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1423

SAS No.: Q1423 SDG NO.: Q1423

Lab File ID: VX045079.D

Lab Sample ID: VX0228WBL01

Date Analyzed: 02/28/2025

Time Analyzed: 11:23

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
VX0228WBS01	VX0228WBS01	VX045080.D	02/28/2025
BP-VPB-192-TB-20250220	Q1423-01	VX045084.D	02/28/2025
BP-VPB-192-EB-20250221	Q1423-03	VX045085.D	02/28/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1423 SAS No.: Q1423 SDG NO.: Q1423
Lab File ID: VX044867.D BFB Injection Date: 02/10/2025
Instrument ID: MSVOA_X BFB Injection Time: 09:35
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	19.7
75	30.0 - 60.0% of mass 95	52.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.5 (0.6) 1
174	50.0 - 100.0% of mass 95	75.9
175	5.0 - 9.0% of mass 174	5.7 (7.5) 1
176	95.0 - 101.0% of mass 174	72.6 (95.7) 1
177	5.0 - 9.0% of mass 176	4.5 (6.2) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VX044868.D	02/10/2025	10:25
VSTDIC005	VSTDIC005	VX044869.D	02/10/2025	10:48
VSTDIC020	VSTDIC020	VX044870.D	02/10/2025	11:11
VSTDIC050	VSTDIC050	VX044871.D	02/10/2025	11:34
VSTDIC100	VSTDIC100	VX044872.D	02/10/2025	12:05
VSTDIC150	VSTDIC150	VX044873.D	02/10/2025	12:28

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1423 SAS No.: Q1423 SDG NO.: Q1423
Lab File ID: VX045028.D BFB Injection Date: 02/25/2025
Instrument ID: MSVOA_X BFB Injection Time: 09:30
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	21.3
75	30.0 - 60.0% of mass 95	52.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.8 (1) 1
174	50.0 - 100.0% of mass 95	76.2
175	5.0 - 9.0% of mass 174	5.7 (7.5) 1
176	95.0 - 101.0% of mass 174	73.8 (96.9) 1
177	5.0 - 9.0% of mass 176	4.7 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX045029.D	02/25/2025	10:00
VX0225WBL01	VX0225WBL01	VX045031.D	02/25/2025	12:07
VX0225WBS01	VX0225WBS01	VX045032.D	02/25/2025	12:30
VX0225WBSD01	VX0225WBSD01	VX045033.D	02/25/2025	12:57
VPB192-HYD-20250221	Q1423-02	VX045038.D	02/25/2025	14:54
BP-VPB-192-GW-925-927	Q1423-04	VX045041.D	02/25/2025	16:03
VSTDCCC050EC	VSTDCCC050	VX045042.D	02/25/2025	16:28

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1423 SAS No.: Q1423 SDG NO.: Q1423
Lab File ID: VX045067.D BFB Injection Date: 02/28/2025
Instrument ID: MSVOA_X BFB Injection Time: 01:03
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	20.7
75	30.0 - 60.0% of mass 95	53.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.7 (1) 1
174	50.0 - 100.0% of mass 95	73.8
175	5.0 - 9.0% of mass 174	5.8 (7.9) 1
176	95.0 - 101.0% of mass 174	70.6 (95.6) 1
177	5.0 - 9.0% of mass 176	4.3 (6.2) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VX045068.D	02/28/2025	01:27
VSTDIC005	VSTDIC005	VX045069.D	02/28/2025	02:13
VSTDIC020	VSTDIC020	VX045070.D	02/28/2025	02:37
VSTDIC050	VSTDIC050	VX045071.D	02/28/2025	03:00
VSTDIC100	VSTDIC100	VX045072.D	02/28/2025	03:23
VSTDIC150	VSTDIC150	VX045073.D	02/28/2025	03:47

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1423 SAS No.: Q1423 SDG NO.: Q1423
Lab File ID: VX045076.D BFB Injection Date: 02/28/2025
Instrument ID: MSVOA_X BFB Injection Time: 10:03
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	21.1
75	30.0 - 60.0% of mass 95	52.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.8 (1) 1
174	50.0 - 100.0% of mass 95	74.6
175	5.0 - 9.0% of mass 174	5.5 (7.4) 1
176	95.0 - 101.0% of mass 174	72.8 (97.6) 1
177	5.0 - 9.0% of mass 176	5.1 (7) 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	VX045077.D	02/28/2025	10:32
VX0228WBL01	VX0228WBL01	VX045079.D	02/28/2025	11:23
VX0228WBS01	VX0228WBS01	VX045080.D	02/28/2025	11:46
BP-VPB-192-TB-20250220	Q1423-01	VX045084.D	02/28/2025	13:23
BP-VPB-192-EB-20250221	Q1423-03	VX045085.D	02/28/2025	13:47
VSTDCCC050EC	VSTDCCC050	VX045098.D	02/28/2025	18:50

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1423 SAS No.: Q1423 SDG NO.: Q1423
Lab File ID: VX045029.D Date Analyzed: 02/25/2025
Instrument ID: MSVOA_X Time Analyzed: 10:00
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	110252	5.54	188741	6.75	166334	10.05
UPPER LIMIT	220504	6.044	377482	7.251	332668	10.549
LOWER LIMIT	55126	5.044	94370.5	6.251	83167	9.549
EPA SAMPLE NO.						
VPB192-HYD-20250221	78098	5.54	154583	6.76	143564	10.05
BP-VPB-192-GW-925-927	78013	5.54	157287	6.76	140409	10.06
VX0225WBL01	79395	5.55	159366	6.76	142850	10.05
VX0225WBS01	112915	5.55	200483	6.76	175398	10.05
VX0225WBSD01	104015	5.55	184616	6.76	164218	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.: Q1423 SAS No.: Q1423 SDG NO.: Q1423
Lab File ID: VX045029.D Date Analyzed: 02/25/2025
Instrument ID: MSVOA_X Time Analyzed: 10:00
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	76720	12.018				
UPPER LIMIT	153440	12.518				
LOWER LIMIT	38360	11.518				
EPA SAMPLE NO.						
VPB192-HYD-20250221	57225	12.02				
BP-VPB-192-GW-925-927	56448	12.02				
VX0225WBL01	58355	12.02				
VX0225WBS01	80174	12.02				
VX0225WBSD01	77007	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1423 SAS No.: Q1423 SDG NO.: Q1423
Lab File ID: VX045077.D Date Analyzed: 02/28/2025
Instrument ID: MSVOA_X Time Analyzed: 10:32
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	111989	5.54	196414	6.75	172369	10.05
UPPER LIMIT	223978	6.037	392828	7.251	344738	10.549
LOWER LIMIT	55994.5	5.037	98207	6.251	86184.5	9.549
EPA SAMPLE NO.						
BP-VPB-192-TB-20250220	70094	5.55	139228	6.76	127899	10.06
BP-VPB-192-EB-20250221	68971	5.54	136036	6.76	125036	10.06
VX0228WBL01	76430	5.54	149381	6.76	137180	10.05
VX0228WBS01	108329	5.54	192724	6.76	169474	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.: Q1423 SAS No.: Q1423 SDG NO.: Q1423
Lab File ID: VX045077.D Date Analyzed: 02/28/2025
Instrument ID: MSVOA_X Time Analyzed: 10:32
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	76314	12.018				
UPPER LIMIT	152628	12.518				
LOWER LIMIT	38157	11.518				
EPA SAMPLE NO.						
BP-VPB-192-TB-20250220	54116	12.02				
BP-VPB-192-EB-20250221	51925	12.02				
VX0228WBL01	59690	12.02				
VX0228WBS01	76472	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:	CTO WE13		Date Received:	
Client Sample ID:	VX0225WBL01		SDG No.:	Q1423
Lab Sample ID:	VX0225WBL01		Matrix:	Water
Analytical Method:	SW8260		% 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
VX045031.D	1		02/25/25 12:07	VX022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	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	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	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	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	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	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	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	1.30	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	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	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	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VX0225WBL01		SDG No.:	Q1423
Lab Sample ID:	VX0225WBL01		Matrix:	Water
Analytical Method:	SW8260		% 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
VX045031.D	1		02/25/25 12:07	VX022525

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	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	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	50.3		80 - 119		101%	SPK: 50
2037-26-5	Toluene-d8	48.4		89 - 112		97%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.5		85 - 114		95%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	79400	5.55				
540-36-3	1,4-Difluorobenzene	159000	6.757				
3114-55-4	Chlorobenzene-d5	143000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	58400	12.018				

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VX0225WBL01		SDG No.:	Q1423
Lab Sample ID:	VX0225WBL01		Matrix:	Water
Analytical Method:	SW8260		% 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
VX045031.D	1		02/25/25 12:07	VX022525

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:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VX0228WBL01		SDG No.:	Q1423
Lab Sample ID:	VX0228WBL01		Matrix:	Water
Analytical Method:	SW8260		% 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
VX045079.D	1		02/28/25 11:23	VX022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	0.50	U	0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	0.75	U	0.34	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	0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.50	U	0.34	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	0.26	0.75	1.00	ug/L
67-64-1	Acetone	3.80	U	1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	0.75	U	0.32	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	0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.50	U	0.25	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	1.30	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	0.25	0.75	1.00	ug/L
67-66-3	Chloroform	0.50	U	0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.50	U	0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	0.50	U	0.19	0.50	1.00	ug/L
71-43-2	Benzene	0.50	U	0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.50	U	0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	0.75	U	0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.50	U	0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	0.50	U	0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	2.50	U	0.75	2.50	5.00	ug/L
108-88-3	Toluene	0.50	U	0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.50	U	0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.50	U	0.18	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	1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VX0228WBL01		SDG No.:	Q1423
Lab Sample ID:	VX0228WBL01		Matrix:	Water
Analytical Method:	SW8260		% 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
VX045079.D	1		02/28/25 11:23	VX022825

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	0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	0.50	U	0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	0.50	U	0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	1.00	U	0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	0.50	U	0.14	0.50	1.00	ug/L
100-42-5	Styrene	0.50	U	0.16	0.50	1.00	ug/L
75-25-2	Bromoform	0.50	U	0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	0.50	U	0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U	0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.50	U	0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.50	U	0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.50	U	0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	50.0		81 - 118		100%	SPK: 50
1868-53-7	Dibromofluoromethane	51.0		80 - 119		102%	SPK: 50
2037-26-5	Toluene-d8	50.9		89 - 112		102%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.3		85 - 114		107%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	76400	5.544				
540-36-3	1,4-Difluorobenzene	149000	6.757				
3114-55-4	Chlorobenzene-d5	137000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	59700	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:	CTO WE13		Date Received:	
Client Sample ID:	VX0225WBS01		SDG No.:	Q1423
Lab Sample ID:	VX0225WBS01		Matrix:	Water
Analytical Method:	SW8260		% 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
VX045032.D	1		02/25/25 12:30	VX022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	15.3		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	16.6		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	20.6		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	21.1		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.6		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.1		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.0		0.26	0.75	1.00	ug/L
67-64-1	Acetone	110		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	15.3		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	18.8		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	18.5		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.7		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.7		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	120		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.6		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.8		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	19.6		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.7		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	18.2		0.19	0.50	1.00	ug/L
71-43-2	Benzene	19.1		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.3		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.2		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.8		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	20.4		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	120		0.75	2.50	5.00	ug/L
108-88-3	Toluene	19.6		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	18.7		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.3		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.7		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	120		1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VX0225WBS01		SDG No.:	Q1423
Lab Sample ID:	VX0225WBS01		Matrix:	Water
Analytical Method:	SW8260		% 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
VX045032.D	1		02/25/25 12:30	VX022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	20.2		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	19.2		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.5		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.0		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	38.8		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	19.5		0.14	0.50	1.00	ug/L
100-42-5	Styrene	20.0		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	21.0		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	19.0		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	19.7		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	18.6		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.6		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.2		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.0		81 - 118		106%	SPK: 50
1868-53-7	Dibromofluoromethane	52.8		80 - 119		106%	SPK: 50
2037-26-5	Toluene-d8	50.6		89 - 112		101%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.6		85 - 114		103%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	113000	5.55				
540-36-3	1,4-Difluorobenzene	200000	6.757				
3114-55-4	Chlorobenzene-d5	175000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	80200	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:	CTO WE13		Date Received:	
Client Sample ID:	VX0228WBS01		SDG No.:	Q1423
Lab Sample ID:	VX0228WBS01		Matrix:	Water
Analytical Method:	SW8260		% 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
VX045080.D	1		02/28/25 11:46	VX022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	18.6		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	18.4		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	17.7		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	16.6		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.6		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	19.9		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.1		0.26	0.75	1.00	ug/L
67-64-1	Acetone	83.3		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	17.7		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	17.9		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	17.9		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	18.6		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.9		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	91.6		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	18.5		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.2		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	18.1		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.2		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	20.8		0.19	0.50	1.00	ug/L
71-43-2	Benzene	19.0		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	18.6		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	18.6		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	18.6		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	18.6		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	95.6		0.75	2.50	5.00	ug/L
108-88-3	Toluene	19.6		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	19.5		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	20.0		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	19.1		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	97.0		1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VX0228WBS01		SDG No.:	Q1423
Lab Sample ID:	VX0228WBS01		Matrix:	Water
Analytical Method:	SW8260		% 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
VX045080.D	1		02/28/25 11:46	VX022825

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	18.5		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	19.0		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.6		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.4		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	40.1		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	19.7		0.14	0.50	1.00	ug/L
100-42-5	Styrene	20.2		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	18.2		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	19.4		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	18.3		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.5		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	19.4		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.4		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	46.9		81 - 118		94%	SPK: 50
1868-53-7	Dibromofluoromethane	48.2		80 - 119		96%	SPK: 50
2037-26-5	Toluene-d8	50.1		89 - 112		100%	SPK: 50
460-00-4	4-Bromofluorobenzene	51.0		85 - 114		102%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	108000	5.544				
540-36-3	1,4-Difluorobenzene	193000	6.757				
3114-55-4	Chlorobenzene-d5	169000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	76500	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:	CTO WE13		Date Received:	
Client Sample ID:	VX0225WBSD01		SDG No.:	Q1423
Lab Sample ID:	VX0225WBSD01		Matrix:	Water
Analytical Method:	SW8260		% 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
VX045033.D	1		02/25/25 12:57	VX022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
74-87-3	Chloromethane	15.6		0.35	0.50	1.00	ug/L
75-01-4	Vinyl Chloride	16.1		0.34	0.75	1.00	ug/L
74-83-9	Bromomethane	20.5		1.40	3.80	5.00	ug/L
75-00-3	Chloroethane	22.7		0.56	0.75	1.00	ug/L
75-69-4	Trichlorofluoromethane	18.9		0.34	0.50	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	18.4		0.25	0.50	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.1		0.26	0.75	1.00	ug/L
67-64-1	Acetone	120		1.40	3.80	5.00	ug/L
75-15-0	Carbon Disulfide	15.3		0.32	0.75	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	19.2		0.16	0.50	1.00	ug/L
75-09-2	Methylene Chloride	18.5		0.32	0.50	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	17.6		0.25	0.50	1.00	ug/L
75-34-3	1,1-Dichloroethane	18.6		0.23	0.50	1.00	ug/L
78-93-3	2-Butanone	120		1.30	2.50	5.00	ug/L
56-23-5	Carbon Tetrachloride	19.6		0.25	0.50	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.6		0.25	0.75	1.00	ug/L
67-66-3	Chloroform	19.7		0.26	0.50	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	18.9		0.19	0.50	1.00	ug/L
108-87-2	Methylcyclohexane	18.8		0.19	0.50	1.00	ug/L
71-43-2	Benzene	18.8		0.16	0.50	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.5		0.24	0.50	1.00	ug/L
79-01-6	Trichloroethene	19.4		0.32	0.75	1.00	ug/L
78-87-5	1,2-Dichloropropane	19.9		0.19	0.50	1.00	ug/L
75-27-4	Bromodichloromethane	20.9		0.24	0.50	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	130		0.75	2.50	5.00	ug/L
108-88-3	Toluene	19.3		0.18	0.50	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	18.3		0.21	0.50	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	19.7		0.18	0.50	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.0		0.21	0.50	1.00	ug/L
591-78-6	2-Hexanone	130		1.10	2.50	5.00	ug/L

Report of Analysis

Client:	Tetra Tech NUS, Inc.		Date Collected:	
Project:	CTO WE13		Date Received:	
Client Sample ID:	VX0225WBSD01		SDG No.:	Q1423
Lab Sample ID:	VX0225WBSD01		Matrix:	Water
Analytical Method:	SW8260		% 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
VX045033.D	1		02/25/25 12:57	VX022525

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	20.7		0.18	0.50	1.00	ug/L
127-18-4	Tetrachloroethene	19.2		0.25	0.50	1.00	ug/L
108-90-7	Chlorobenzene	19.3		0.13	0.50	1.00	ug/L
100-41-4	Ethyl Benzene	19.2		0.16	0.50	1.00	ug/L
179601-23-1	m/p-Xylenes	39.5		0.31	1.00	2.00	ug/L
95-47-6	o-Xylene	19.3		0.14	0.50	1.00	ug/L
100-42-5	Styrene	20.2		0.16	0.50	1.00	ug/L
75-25-2	Bromoform	21.2		0.21	0.50	1.00	ug/L
98-82-8	Isopropylbenzene	18.7		0.13	0.50	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	20.2		0.27	0.50	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	19.2		0.24	0.50	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	18.6		0.27	0.50	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	19.8		0.19	0.50	1.00	ug/L
SURROGATES							
17060-07-0	1,2-Dichloroethane-d4	53.4		81 - 118		107%	SPK: 50
1868-53-7	Dibromofluoromethane	53.7		80 - 119		107%	SPK: 50
2037-26-5	Toluene-d8	49.7		89 - 112		99%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.8		85 - 114		108%	SPK: 50
INTERNAL STANDARDS							
363-72-4	Pentafluorobenzene	104000	5.55				
540-36-3	1,4-Difluorobenzene	185000	6.757				
3114-55-4	Chlorobenzene-d5	164000	10.049				
3855-82-1	1,4-Dichlorobenzene-d4	77000	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.: Q1423 SAS No.: Q1423 SDG No.: Q1423
Instrument ID: MSVOA_X Calibration Date(s): 02/10/2025 02/10/2025
Heated Purge: (Y/N) N Calibration Time(s): 10:25 12:28
GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:								
RRF001 = VX044868.D			RRF005 = VX044869.D			RRF020 = VX044870.D		
RRF050 = VX044871.D			RRF100 = VX044872.D			RRF150 = VX044873.D		
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
Chloromethane	0.958	0.860	0.862	0.843	0.805	0.793	0.854	6.9
Vinyl Chloride	0.839	0.846	0.847	0.808	0.807	0.814	0.827	2.3
Bromomethane		0.248	0.252	0.249	0.242	0.246	0.247	1.4
Chloroethane	0.500	0.288	0.280	0.341	0.249	0.181	0.307	35.4
Trichlorofluoromethane	1.062	1.066	1.096	1.029	1.013	1.008	1.046	3.3
1,1,2-Trichlorotrifluoroethane	0.583	0.647	0.668	0.626	0.631	0.637	0.632	4.5
1,1-Dichloroethene	0.647	0.639	0.661	0.630	0.632	0.657	0.644	2
Acetone	0.305	0.292	0.298	0.293	0.285	0.292	0.294	2.3
Carbon Disulfide	1.689	1.732	1.786	1.762	1.789	1.846	1.767	3
Methyl tert-butyl Ether	1.941	2.065	2.130	2.046	2.011	2.110	2.050	3.4
Methylene Chloride	0.747	0.717	0.741	0.704	0.695	0.720	0.721	2.8
trans-1,2-Dichloroethene	0.608	0.622	0.657	0.640	0.633	0.644	0.634	2.7
1,1-Dichloroethane	1.155	1.257	1.292	1.227	1.209	1.257	1.233	3.9
2-Butanone	0.422	0.472	0.504	0.506	0.477	0.487	0.478	6.4
Carbon Tetrachloride	0.457	0.466	0.478	0.453	0.445	0.459	0.460	2.4
cis-1,2-Dichloroethene	0.680	0.783	0.812	0.758	0.758	0.779	0.762	5.9
Chloroform	1.167	1.209	1.268	1.169	1.153	1.208	1.196	3.5
1,1,1-Trichloroethane	1.014	1.003	1.051	1.005	0.984	1.028	1.014	2.3
Methylcyclohexane	0.509	0.571	0.667	0.622	0.634	0.635	0.606	9.4
Benzene	1.370	1.488	1.577	1.470	1.429	1.453	1.465	4.7
1,2-Dichloroethane	0.417	0.465	0.502	0.472	0.462	0.482	0.467	6.1
Trichloroethene	0.293	0.340	0.367	0.335	0.332	0.343	0.335	7.2
1,2-Dichloropropane	0.343	0.354	0.389	0.367	0.360	0.372	0.364	4.3
Bromodichloromethane	0.428	0.481	0.514	0.500	0.500	0.513	0.489	6.6
4-Methyl-2-Pentanone	0.439	0.514	0.562	0.554	0.506	0.498	0.512	8.6
Toluene	0.776	0.872	0.957	0.898	0.866	0.864	0.872	6.7
t-1,3-Dichloropropene	0.417	0.451	0.518	0.514	0.528	0.543	0.495	10
cis-1,3-Dichloropropene	0.452	0.511	0.587	0.577	0.587	0.599	0.552	10.5
1,1,2-Trichloroethane	0.307	0.342	0.362	0.341	0.331	0.329	0.335	5.4
2-Hexanone	0.313	0.360	0.406	0.404	0.369	0.362	0.369	9.3

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06
Lab Code: CHEM Case No.: Q1423 SAS No.: Q1423 SDG No.: Q1423
Instrument ID: MSVOA_X Calibration Date(s): 02/10/2025 02/10/2025
Heated Purge: (Y/N) N Calibration Time(s): 10:25 12:28
GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX044868.D		RRF005 = VX044869.D		RRF020 = VX044870.D			
		RRF050 = VX044871.D		RRF100 = VX044872.D		RRF150 = VX044873.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dibromochloromethane	0.317	0.342	0.381	0.373	0.368	0.370	0.359	6.7	
Tetrachloroethene	0.306	0.311	0.343	0.310	0.307	0.314	0.315	4.4	
Chlorobenzene	0.969	1.093	1.140	1.096	1.071	1.076	1.074	5.3	
Ethyl Benzene	1.690	1.873	2.021	1.935	1.923	1.929	1.895	5.9	
m/p-Xylenes	0.616	0.700	0.754	0.724	0.706	0.694	0.699	6.6	
o-Xylene	0.661	0.721	0.747	0.707	0.691	0.681	0.701	4.4	
Styrene	0.909	1.124	1.249	1.199	1.161	1.139	1.130	10.4	
Bromoform	0.186	0.247	0.272	0.280	0.276	0.287	0.258	14.7	
Isopropylbenzene	3.735	4.012	4.347	4.045	3.940	4.076	4.026	4.9	
1,1,2,2-Tetrachloroethane	1.429	1.403	1.438	1.366	1.305	1.360	1.383	3.6	
1,3-Dichlorobenzene	1.616	1.669	1.741	1.679	1.663	1.703	1.678	2.5	
1,4-Dichlorobenzene	1.662	1.712	1.762	1.686	1.660	1.701	1.697	2.2	
1,2-Dichlorobenzene	1.512	1.713	1.763	1.666	1.604	1.639	1.650	5.3	
1,2-Dichloroethane-d4		0.764	0.718	0.723	0.707	0.747	0.732	3.2	
Dibromofluoromethane		0.335	0.322	0.320	0.320	0.328	0.325	2	
Toluene-d8		1.239	1.249	1.239	1.208	1.212	1.229	1.5	
4-Bromofluorobenzene		0.404	0.410	0.431	0.415	0.412	0.414	2.5	

* 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.: Q1423 SAS No.: Q1423 SDG No.: Q1423
Instrument ID: MSVOA_X Calibration Date(s): 02/28/2025 02/28/2025
Heated Purge: (Y/N) N Calibration Time(s): 01:27 03:47
GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX045068.D		RRF005 = VX045069.D		RRF020 = VX045070.D			
		RRF050 = VX045071.D		RRF100 = VX045072.D		RRF150 = VX045073.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Chloromethane	0.755	0.821	0.828	0.753	0.721	0.744	0.770	5.7	
Vinyl Chloride	0.773	0.755	0.774	0.761	0.765	0.758	0.764	1	
Bromomethane		0.337	0.298	0.292	0.284	0.291	0.300	7	
Chloroethane	0.373	0.421	0.366	0.373	0.297	0.286	0.352	14.5	
Trichlorofluoromethane	0.978	1.061	1.050	1.050	0.982	0.948	1.012	4.7	
1,1,2-Trichlorotrifluoroethane	0.526	0.613	0.595	0.594	0.596	0.563	0.581	5.4	
1,1-Dichloroethene	0.609	0.620	0.612	0.623	0.620	0.603	0.614	1.3	
Acetone	0.414	0.363	0.384	0.351	0.345	0.356	0.369	7	
Carbon Disulfide	1.584	1.582	1.587	1.660	1.708	1.698	1.636	3.6	
Methyl tert-butyl Ether	1.955	1.913	2.127	2.083	2.132	2.158	2.061	5	
Methylene Chloride	0.806	0.730	0.752	0.698	0.694	0.706	0.731	5.8	
trans-1,2-Dichloroethene	0.540	0.619	0.603	0.631	0.634	0.616	0.607	5.7	
1,1-Dichloroethane	1.200	1.223	1.280	1.242	1.270	1.264	1.247	2.5	
2-Butanone	0.476	0.545	0.610	0.579	0.553	0.570	0.555	8.1	
Carbon Tetrachloride	0.463	0.463	0.447	0.468	0.489	0.463	0.465	3	
cis-1,2-Dichloroethene	0.687	0.746	0.765	0.762	0.767	0.769	0.749	4.2	
Chloroform	1.206	1.247	1.278	1.246	1.230	1.225	1.239	2	
1,1,1-Trichloroethane	0.908	0.992	1.009	1.024	1.044	1.025	1.000	4.8	
Methylcyclohexane	0.464	0.530	0.560	0.585	0.607	0.550	0.549	9.1	
Benzene	1.321	1.459	1.491	1.496	1.497	1.424	1.448	4.7	
1,2-Dichloroethane	0.487	0.525	0.545	0.528	0.524	0.520	0.521	3.6	
Trichloroethene	0.319	0.351	0.339	0.341	0.354	0.336	0.340	3.7	
1,2-Dichloropropane	0.354	0.378	0.382	0.371	0.376	0.373	0.372	2.7	
Bromodichloromethane	0.478	0.503	0.536	0.524	0.528	0.528	0.516	4.2	
4-Methyl-2-Pentanone	0.535	0.570	0.647	0.610	0.579	0.579	0.587	6.5	
Toluene	0.716	0.872	0.892	0.898	0.874	0.845	0.849	8	
t-1,3-Dichloropropene	0.304	0.389	0.436	0.469	0.490	0.502	0.431	17.3	
cis-1,3-Dichloropropene	0.404	0.463	0.509	0.535	0.555	0.553	0.503	11.8	
1,1,2-Trichloroethane	0.346	0.348	0.371	0.356	0.341	0.336	0.350	3.6	
2-Hexanone	0.349	0.412	0.476	0.448	0.431	0.436	0.425	10.1	

* 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.: Q1423 SAS No.: Q1423 SDG No.: Q1423
Instrument ID: MSVOA_X Calibration Date(s): 02/28/2025 02/28/2025
Heated Purge: (Y/N) N Calibration Time(s): 01:27 03:47
GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX045068.D		RRF005 = VX045069.D		RRF020 = VX045070.D			
		RRF050 = VX045071.D		RRF100 = VX045072.D		RRF150 = VX045073.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dibromochloromethane	0.305	0.349	0.390	0.384	0.385	0.380	0.366	9	
Tetrachloroethene	0.315	0.326	0.319	0.324	0.329	0.309	0.320	2.3	
Chlorobenzene	0.968	1.054	1.090	1.092	1.100	1.045	1.058	4.7	
Ethyl Benzene	1.566	1.794	1.889	1.952	1.972	1.888	1.843	8.1	
m/p-Xylenes	0.555	0.672	0.711	0.724	0.715	0.673	0.675	9.3	
o-Xylene	0.609	0.689	0.702	0.706	0.707	0.670	0.681	5.5	
Styrene	0.879	1.060	1.170	1.181	1.183	1.134	1.101	10.7	
Bromoform	0.209	0.234	0.276	0.276	0.300	0.300	0.266	13.9	
Isopropylbenzene	3.397	4.034	3.999	4.135	4.006	3.845	3.903	6.8	
1,1,2,2-Tetrachloroethane	1.395	1.479	1.513	1.419	1.391	1.396	1.432	3.6	
1,3-Dichlorobenzene	1.502	1.652	1.710	1.668	1.675	1.649	1.643	4.4	
1,4-Dichlorobenzene	1.605	1.702	1.665	1.687	1.669	1.643	1.662	2.1	
1,2-Dichlorobenzene	1.479	1.695	1.735	1.668	1.687	1.622	1.648	5.5	
1,2-Dichloroethane-d4		0.836	0.784	0.757	0.783	0.817	0.795	3.9	
Dibromofluoromethane		0.329	0.335	0.329	0.340	0.338	0.334	1.5	
Toluene-d8		1.237	1.191	1.210	1.219	1.203	1.212	1.4	
4-Bromofluorobenzene		0.383	0.393	0.402	0.410	0.421	0.402	3.7	

* 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 CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1423 SAS No.: Q1423 SDG No.: Q1423

Instrument ID: MSVOA_X Calibration Date/Time: 02/25/2025 10:00

Lab File ID: VX045029.D Init. Calib. Date(s): 02/10/2025 02/10/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:25 12:28

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.854	0.745	0.1	-12.76	20
Vinyl Chloride	0.827	0.732		-11.49	20
Bromomethane	0.247	0.252		2.02	20
Chloroethane	0.307	0.346		12.7	20
Trichlorofluoromethane	1.046	1.033		-1.24	20
1,1,2-Trichlorotrifluoroethane	0.632	0.617		-2.37	20
1,1-Dichloroethene	0.644	0.593		-7.92	20
Acetone	0.294	0.364		23.81	20
Carbon Disulfide	1.767	1.454		-17.71	20
Methyl tert-butyl Ether	2.050	1.972		-3.81	20
Methylene Chloride	0.721	0.673		-6.66	20
trans-1,2-Dichloroethene	0.634	0.582		-8.2	20
1,1-Dichloroethane	1.233	1.194	0.1	-3.16	20
2-Butanone	0.478	0.544		13.81	20
Carbon Tetrachloride	0.460	0.478		3.91	20
cis-1,2-Dichloroethene	0.762	0.721		-5.38	20
Chloroform	1.196	1.170		-2.17	20
1,1,1-Trichloroethane	1.014	0.979		-3.45	20
Methylcyclohexane	0.606	0.609		0.5	20
Benzene	1.465	1.459		-0.41	20
1,2-Dichloroethane	0.467	0.504		7.92	20
Trichloroethene	0.335	0.339		1.19	20
1,2-Dichloropropane	0.364	0.376		3.3	20
Bromodichloromethane	0.489	0.538		10.02	20
4-Methyl-2-Pentanone	0.512	0.618		20.7	20
Toluene	0.872	0.882		1.15	20
t-1,3-Dichloropropene	0.495	0.515		4.04	20
cis-1,3-Dichloropropene	0.552	0.576		4.35	20
1,1,2-Trichloroethane	0.335	0.356		6.27	20
2-Hexanone	0.369	0.458		24.12	20
Dibromochloromethane	0.359	0.394		9.75	20
Tetrachloroethene	0.315	0.319		1.27	20
Chlorobenzene	1.074	1.097	0.3	2.14	20
Ethyl Benzene	1.895	1.927		1.69	20
m/p-Xylenes	0.699	0.720		3	20
o-Xylene	0.701	0.716		2.14	20
Styrene	1.130	1.200		6.2	20
Bromoform	0.258	0.297	0.1	15.12	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.: Q1423 SAS No.: Q1423 SDG No.: Q1423

Instrument ID: MSVOA_X Calibration Date/Time: 02/25/2025 10:00

Lab File ID: VX045029.D Init. Calib. Date(s): 02/10/2025 02/10/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:25 12:28

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	4.026	3.989		-0.92	20
1,1,2,2-Tetrachloroethane	1.383	1.395	0.3	0.87	20
1,3-Dichlorobenzene	1.678	1.702		1.43	20
1,4-Dichlorobenzene	1.697	1.703		0.35	20
1,2-Dichlorobenzene	1.650	1.713		3.82	20
1,2-Dichloroethane-d4	0.732	0.737		0.68	20
Dibromofluoromethane	0.325	0.348		7.08	20
Toluene-d8	1.229	1.235		0.49	20
4-Bromofluorobenzene	0.414	0.445		7.49	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.: Q1423 SAS No.: Q1423 SDG No.: Q1423

Instrument ID: MSVOA_X Calibration Date/Time: 02/25/2025 16:28

Lab File ID: VX045042.D Init. Calib. Date(s): 02/10/2025 02/10/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:25 12:28

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.854	0.726	0.1	-14.99	50
Vinyl Chloride	0.827	0.730		-11.73	50
Bromomethane	0.247	0.257		4.05	50
Chloroethane	0.307	0.394		28.34	50
Trichlorofluoromethane	1.046	1.033		-1.24	50
1,1,2-Trichlorotrifluoroethane	0.632	0.618		-2.21	50
1,1-Dichloroethene	0.644	0.588		-8.7	50
Acetone	0.294	0.351		19.39	50
Carbon Disulfide	1.767	1.404		-20.54	50
Methyl tert-butyl Ether	2.050	1.999		-2.49	50
Methylene Chloride	0.721	0.693		-3.88	50
trans-1,2-Dichloroethene	0.634	0.586		-7.57	50
1,1-Dichloroethane	1.233	1.217	0.1	-1.3	50
2-Butanone	0.478	0.582		21.76	50
Carbon Tetrachloride	0.460	0.456		-0.87	50
cis-1,2-Dichloroethene	0.762	0.735		-3.54	50
Chloroform	1.196	1.210		1.17	50
1,1,1-Trichloroethane	1.014	0.999		-1.48	50
Methylcyclohexane	0.606	0.586		-3.3	50
Benzene	1.465	1.440		-1.71	50
1,2-Dichloroethane	0.467	0.512		9.64	50
Trichloroethene	0.335	0.332		-0.9	50
1,2-Dichloropropane	0.364	0.369		1.37	50
Bromodichloromethane	0.489	0.527		7.77	50
4-Methyl-2-Pentanone	0.512	0.643		25.59	50
Toluene	0.872	0.881		1.03	50
t-1,3-Dichloropropene	0.495	0.493		-0.4	50
cis-1,3-Dichloropropene	0.552	0.553		0.18	50
1,1,2-Trichloroethane	0.335	0.357		6.57	50
2-Hexanone	0.369	0.477		29.27	50
Dibromochloromethane	0.359	0.388		8.08	50
Tetrachloroethene	0.315	0.301		-4.44	50
Chlorobenzene	1.074	1.075	0.3	0.09	50
Ethyl Benzene	1.895	1.889		-0.32	50
m/p-Xylenes	0.699	0.704		0.71	50
o-Xylene	0.701	0.697		-0.57	50
Styrene	1.130	1.186		4.96	50
Bromoform	0.258	0.284	0.1	10.08	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.: Q1423 SAS No.: Q1423 SDG No.: Q1423

Instrument ID: MSVOA_X Calibration Date/Time: 02/25/2025 16:28

Lab File ID: VX045042.D Init. Calib. Date(s): 02/10/2025 02/10/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:25 12:28

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	4.026	3.925		-2.51	50
1,1,2,2-Tetrachloroethane	1.383	1.401	0.3	1.3	50
1,3-Dichlorobenzene	1.678	1.635		-2.56	50
1,4-Dichlorobenzene	1.697	1.651		-2.71	50
1,2-Dichlorobenzene	1.650	1.641		-0.55	50
1,2-Dichloroethane-d4	0.732	0.643		-12.16	50
Dibromofluoromethane	0.325	0.287		-11.69	50
Toluene-d8	1.229	1.046		-14.89	50
4-Bromofluorobenzene	0.414	0.377		-8.94	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.: Q1423 SAS No.: Q1423 SDG No.: Q1423

Instrument ID: MSVOA_X Calibration Date/Time: 02/28/2025 10:32

Lab File ID: VX045077.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.770	0.741	0.1	-3.77	20
Vinyl Chloride	0.764	0.729		-4.58	20
Bromomethane	0.300	0.282		-6	20
Chloroethane	0.352	0.283		-19.6	20
Trichlorofluoromethane	1.012	0.999		-1.28	20
1,1,2-Trichlorotrifluoroethane	0.581	0.595		2.41	20
1,1-Dichloroethene	0.614	0.584		-4.89	20
Acetone	0.369	0.312		-15.45	20
Carbon Disulfide	1.636	1.571		-3.97	20
Methyl tert-butyl Ether	2.061	1.935		-6.11	20
Methylene Chloride	0.731	0.667		-8.76	20
trans-1,2-Dichloroethene	0.607	0.586		-3.46	20
1,1-Dichloroethane	1.247	1.167	0.1	-6.41	20
2-Butanone	0.555	0.512		-7.75	20
Carbon Tetrachloride	0.465	0.459		-1.29	20
cis-1,2-Dichloroethene	0.749	0.712		-4.94	20
Chloroform	1.239	1.140		-7.99	20
1,1,1-Trichloroethane	1.000	0.948		-5.2	20
Methylcyclohexane	0.549	0.617		12.39	20
Benzene	1.448	1.433		-1.04	20
1,2-Dichloroethane	0.521	0.494		-5.18	20
Trichloroethene	0.340	0.328		-3.53	20
1,2-Dichloropropane	0.372	0.358		-3.76	20
Bromodichloromethane	0.516	0.508		-1.55	20
4-Methyl-2-Pentanone	0.587	0.565		-3.75	20
Toluene	0.849	0.870		2.47	20
t-1,3-Dichloropropene	0.431	0.483		12.06	20
cis-1,3-Dichloropropene	0.503	0.551		9.54	20
1,1,2-Trichloroethane	0.350	0.330		-5.71	20
2-Hexanone	0.425	0.411		-3.29	20
Dibromochloromethane	0.366	0.367		0.27	20
Tetrachloroethene	0.320	0.319		-0.31	20
Chlorobenzene	1.058	1.039	0.3	-1.8	20
Ethyl Benzene	1.843	1.879		1.95	20
m/p-Xylenes	0.675	0.694		2.82	20
o-Xylene	0.681	0.685		0.59	20
Styrene	1.101	1.143		3.82	20
Bromoform	0.266	0.268	0.1	0.75	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.: Q1423 SAS No.: Q1423 SDG No.: Q1423

Instrument ID: MSVOA_X Calibration Date/Time: 02/28/2025 10:32

Lab File ID: VX045077.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.903	3.973		1.79	20
1,1,2,2-Tetrachloroethane	1.432	1.334	0.3	-6.84	20
1,3-Dichlorobenzene	1.643	1.660		1.03	20
1,4-Dichlorobenzene	1.662	1.653		-0.54	20
1,2-Dichlorobenzene	1.648	1.652		0.24	20
1,2-Dichloroethane-d4	0.795	0.733		-7.8	20
Dibromofluoromethane	0.334	0.331		-0.9	20
Toluene-d8	1.212	1.209		-0.25	20
4-Bromofluorobenzene	0.402	0.404		0.5	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.: Q1423 SAS No.: Q1423 SDG No.: Q1423

Instrument ID: MSVOA_X Calibration Date/Time: 02/28/2025 18:50

Lab File ID: VX045098.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Chloromethane	0.770	0.696	0.1	-9.61	50
Vinyl Chloride	0.764	0.736		-3.66	50
Bromomethane	0.300	0.261		-13	50
Chloroethane	0.352	0.305		-13.35	50
Trichlorofluoromethane	1.012	0.992		-1.98	50
1,1,2-Trichlorotrifluoroethane	0.581	0.602		3.61	50
1,1-Dichloroethene	0.614	0.600		-2.28	50
Acetone	0.369	0.330		-10.57	50
Carbon Disulfide	1.636	1.572		-3.91	50
Methyl tert-butyl Ether	2.061	2.046		-0.73	50
Methylene Chloride	0.731	0.691		-5.47	50
trans-1,2-Dichloroethene	0.607	0.624		2.8	50
1,1-Dichloroethane	1.247	1.237	0.1	-0.8	50
2-Butanone	0.555	0.536		-3.42	50
Carbon Tetrachloride	0.465	0.475		2.15	50
cis-1,2-Dichloroethene	0.749	0.756		0.94	50
Chloroform	1.239	1.219		-1.61	50
1,1,1-Trichloroethane	1.000	1.013		1.3	50
Methylcyclohexane	0.549	0.612		11.48	50
Benzene	1.448	1.471		1.59	50
1,2-Dichloroethane	0.521	0.520		-0.19	50
Trichloroethene	0.340	0.344		1.18	50
1,2-Dichloropropane	0.372	0.372		0	50
Bromodichloromethane	0.516	0.518		0.39	50
4-Methyl-2-Pentanone	0.587	0.582		-0.85	50
Toluene	0.849	0.879		3.53	50
t-1,3-Dichloropropene	0.431	0.460		6.73	50
cis-1,3-Dichloropropene	0.503	0.536		6.56	50
1,1,2-Trichloroethane	0.350	0.342		-2.29	50
2-Hexanone	0.425	0.430		1.18	50
Dibromochloromethane	0.366	0.364		-0.55	50
Tetrachloroethene	0.320	0.334		4.38	50
Chlorobenzene	1.058	1.084	0.3	2.46	50
Ethyl Benzene	1.843	1.942		5.37	50
m/p-Xylenes	0.675	0.717		6.22	50
o-Xylene	0.681	0.694		1.91	50
Styrene	1.101	1.166		5.9	50
Bromoform	0.266	0.275	0.1	3.38	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.: Q1423 SAS No.: Q1423 SDG No.: Q1423

Instrument ID: MSVOA_X Calibration Date/Time: 02/28/2025 18:50

Lab File ID: VX045098.D Init. Calib. Date(s): 02/28/2025 02/28/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 01:27 03:47

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Isopropylbenzene	3.903	4.046		3.66	50
1,1,2,2-Tetrachloroethane	1.432	1.422	0.3	-0.7	50
1,3-Dichlorobenzene	1.643	1.677		2.07	50
1,4-Dichlorobenzene	1.662	1.661		-0.06	50
1,2-Dichlorobenzene	1.648	1.681		2	50
1,2-Dichloroethane-d4	0.795	0.780		-1.89	50
Dibromofluoromethane	0.334	0.338		1.2	50
Toluene-d8	1.212	1.211		-0.08	50
4-Bromofluorobenzene	0.402	0.392		-2.49	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:	Q1423	OrderDate:	2/25/2025 10:55:00 AM
Client:	Tetra Tech NUS, Inc.	Project:	CTO WE13
Contact:	Ernie Wu	Location:	H33,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1423-02	VPB192-HYD-20250221	Water			02/21/25			02/24/25
			SVOC-SIMGroup1	8270-Modified		02/26/25	02/26/25	
Q1423-03	BP-VPB-192-EB-20250221	Water			02/21/25			02/24/25
			SVOC-SIMGroup1	8270-Modified		02/26/25	02/26/25	



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

Hit Summary Sheet SW-846

SDG No.: Q1423
Client: Tetra Tech NUS, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :				0.000					
Total Svoc :					0.00				
Total Concentration:					0.00				



SAMPLE DATA

Report of Analysis

Client:	Tetra Tech NUS, Inc.	Date Collected:	02/21/25
Project:	CTO WE13	Date Received:	02/24/25
Client Sample ID:	VPB192-HYD-20250221	SDG No.:	Q1423
Lab Sample ID:	Q1423-02	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
BN036510.D	1	02/26/25 08:52	02/26/25 14:55	PB166876

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.22	U	0.080	0.22	0.22	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.086	*	30 - 150		22%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		97%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.33		55 - 111		81%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		53 - 106		87%	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	2030	7.739				
1146-65-2	Naphthalene-d8	4360	10.53				
15067-26-2	Acenaphthene-d10	3010	14.377				
1517-22-2	Phenanthrene-d10	6200	17.136				
1719-03-5	Chrysene-d12	5180	21.313				
1520-96-3	Perylene-d12	4670	23.578				

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:	02/21/25
Project:	CTO WE13	Date Received:	02/24/25
Client Sample ID:	BP-VPB-192-EB-20250221	SDG No.:	Q1423
Lab Sample ID:	Q1423-03	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	900 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
BN036511.D	1	02/26/25 08:52	02/26/25 15:31	PB166876

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.22	U	0.080	0.22	0.22	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.37		30 - 150		93%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.42		30 - 150		105%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		91%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.50	*	53 - 106		124%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.63	*	58 - 132		158%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2560	7.739				
1146-65-2	Naphthalene-d8	5720	10.53				
15067-26-2	Acenaphthene-d10	3700	14.377				
1517-22-2	Phenanthrene-d10	7690	17.124				
1719-03-5	Chrysene-d12	5770	21.313				
1520-96-3	Perylene-d12	5080	23.578				

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.: Q1423

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB166876BL	PB166876BL	2-Methylnaphthalene-d10	0.4	0.34	84		30	150
		Fluoranthene-d10	0.4	0.38	94		30	150
		Nitrobenzene-d5	0.4	0.34	86		55	111
		2-Fluorobiphenyl	0.4	0.30	75		53	106
		Terphenyl-d14	0.4	0.45	113		58	132
PB166876BS	PB166876BS	2-Methylnaphthalene-d10	0.4	0.43	108		30	150
		Fluoranthene-d10	0.4	0.34	85		30	150
		Nitrobenzene-d5	0.4	0.38	96		55	111
		2-Fluorobiphenyl	0.4	0.49	123	*	53	106
		Terphenyl-d14	0.4	0.48	119		58	132
PB166876BSD	PB166876BSD	2-Methylnaphthalene-d10	0.4	0.42	106		30	150
		Fluoranthene-d10	0.4	0.34	84		30	150
		Nitrobenzene-d5	0.4	0.39	97		55	111
		2-Fluorobiphenyl	0.4	0.51	127	*	53	106
		Terphenyl-d14	0.4	0.47	118		58	132
Q1423-02	VPB192-HYD-20250221	2-Methylnaphthalene-d10	0.4	0.086	22	*	30	150
		Fluoranthene-d10	0.4	0.39	97		30	150
		Nitrobenzene-d5	0.4	0.33	81		55	111
		2-Fluorobiphenyl	0.4	0.35	87		53	106
		Terphenyl-d14	0.4	0.59	147	*	58	132
Q1423-03	BP-VPB-192-EB-20250221	2-Methylnaphthalene-d10	0.4	0.37	93		30	150
		Fluoranthene-d10	0.4	0.42	105		30	150
		Nitrobenzene-d5	0.4	0.37	91		55	111
		2-Fluorobiphenyl	0.4	0.50	124	*	53	106
		Terphenyl-d14	0.4	0.63	158	*	58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1423

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN036512.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB166876BS	1,4-Dioxane	0.4	0.37	ug/L	93				70	130	

A
B
C
D
E
F
G

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1423

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN036513.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB166876BSD	1,4-Dioxane	0.4	0.37	ug/L	93	0			70	130	20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166876BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1423

SAS No.: Q1423 SDG NO.: Q1423

Lab File ID: BN036509.D

Lab Sample ID: PB166876BL

Instrument ID: BNA_N

Date Extracted: 02/26/2025

Matrix: (soil/water) Water

Date Analyzed: 02/26/2025

Level: (low/med) LOW

Time Analyzed: 14:19

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB166876BS	PB166876BS	BN036512.D	02/26/2025
VPB192-HYD-20250221	Q1423-02	BN036510.D	02/26/2025
BP-VPB-192-EB-20250221	Q1423-03	BN036511.D	02/26/2025
PB166876BSD	PB166876BSD	BN036513.D	02/26/2025

COMMENTS: _____

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

SAS No.: Q1423 SDG NO.: Q1423

Lab File ID: BN036408.D

DFTPP Injection Date: 02/10/2025

Instrument ID: BNA_N

DFTPP Injection Time: 11:46

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	51.4
68	Less than 2.0% of mass 69	0.3 (0.7) 1
69	Mass 69 relative abundance	47.7
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	48.3
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	24.7
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	7.1
442	Greater than 50% of mass 198	52.3
443	15.0 - 24.0% of mass 442	10.5 (20.1) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN036409.D	02/10/2025	12:25
SSTDICC0.2	SSTDICC0.2	BN036410.D	02/10/2025	13:01
SSTDICCC0.4	SSTDICCC0.4	BN036411.D	02/10/2025	13:36
SSTDICC0.8	SSTDICC0.8	BN036412.D	02/10/2025	14:12
SSTDICC1.6	SSTDICC1.6	BN036413.D	02/10/2025	14:48
SSTDICC3.2	SSTDICC3.2	BN036414.D	02/10/2025	15:24
SSTDICC5.0	SSTDICC5.0	BN036415.D	02/10/2025	16:00

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

SAS No.: Q1423 SDG NO.: Q1423

Lab File ID: BN036507.D

DFTPP Injection Date: 02/26/2025

Instrument ID: BNA_N

DFTPP Injection Time: 13:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	57.6
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	52.7
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	49.8
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	25.4
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	8.7
442	Greater than 50% of mass 198	57.1
443	15.0 - 24.0% of mass 442	10.6 (18.6) 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	BN036508.D	02/26/2025	13:43
PB166876BL	PB166876BL	BN036509.D	02/26/2025	14:19
VPB192-HYD-20250221	Q1423-02	BN036510.D	02/26/2025	14:55
BP-VPB-192-EB-20250221	Q1423-03	BN036511.D	02/26/2025	15:31
PB166876BS	PB166876BS	BN036512.D	02/26/2025	16:07
PB166876BSD	PB166876BSD	BN036513.D	02/26/2025	16:44
SSTDCCC0.4EC	SSTDCCC0.4	BN036514.D	02/26/2025	17:20

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1423 SAS No.: Q1423 SDG NO.: Q1423

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 02/26/2025

Lab File ID: BN036508.D Time Analyzed: 13:43

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	2772	7.739	6909	10.53	4680	14.38
UPPER LIMIT	5544	8.239	13818	11.03	9360	14.877
LOWER LIMIT	1386	7.239	3454.5	10.03	2340	13.877
EPA SAMPLE NO.						
01 PB166876BL	2585	7.75	5224	10.55	3049	14.39
02 VPB192-HYD-20250221	2028	7.74	4364	10.53	3005	14.38
03 PB166876BS	2531	7.74	5759	10.53	3208	14.38
04 BP-VPB-192-EB-20250221	2561	7.74	5724	10.53	3696	14.38
05 PB166876BSD	2476	7.74	5554	10.53	2910	14.38

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.: Q1423 SAS No.: Q1423 SDG NO.: Q1423

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 02/26/2025

Lab File ID: BN036508.D Time Analyzed: 13:43

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	9092	17.124	6639	21.313	6000	23.581
UPPER LIMIT	18184	17.624	13278	21.813	12000	24.081
LOWER LIMIT	4546	16.624	3319.5	20.813	3000	23.081
EPA SAMPLE NO.						
01 PB166876BL	5698	17.15	3989	21.32	3507	23.59
02 VPB192-HYD-20250221	6199	17.14	5181	21.31	4672	23.58
03 PB166876BS	5804	17.12	3657	21.31	3285	23.58
04 BP-VPB-192-EB-20250221	7691	17.12	5768	21.31	5083	23.58
05 PB166876BSD	5252	17.12	3329	21.31	2986 *	23.58

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:	CTO WE13		Date Received:	
Client Sample ID:	PB166876BL		SDG No.:	Q1423
Lab Sample ID:	PB166876BL		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
BN036509.D	1	02/26/25 08:52	02/26/25 14:19	PB166876

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	0.34		30 - 150		84%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.38		30 - 150		94%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		86%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.30		53 - 106		75%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.45		58 - 132		113%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2590	7.746				
1146-65-2	Naphthalene-d8	5220	10.551				
15067-26-2	Acenaphthene-d10	3050	14.387				
1517-22-2	Phenanthrene-d10	5700	17.148				
1719-03-5	Chrysene-d12	3990	21.322				
1520-96-3	Perylene-d12	3510	23.589				

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:	CTO WE13		Date Received:		
Client Sample ID:	PB166876BS		SDG No.:	Q1423	
Lab Sample ID:	PB166876BS		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
BN036512.D	1	02/26/25 08:52	02/26/25 16:07	PB166876

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.37		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.43		30 - 150		108%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		85%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.38		55 - 111		96%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.49	*	53 - 106		123%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		119%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2530	7.739				
1146-65-2	Naphthalene-d8	5760	10.53				
15067-26-2	Acenaphthene-d10	3210	14.377				
1517-22-2	Phenanthrene-d10	5800	17.124				
1719-03-5	Chrysene-d12	3660	21.313				
1520-96-3	Perylene-d12	3290	23.584				

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:	CTO WE13		Date Received:		
Client Sample ID:	PB166876BSD		SDG No.:	Q1423	
Lab Sample ID:	PB166876BSD		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
BN036513.D	1	02/26/25 08:52	02/26/25 16:44	PB166876

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.37		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.42		30 - 150		106%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		30 - 150		84%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.51	*	53 - 106		127%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		118%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2480	7.739				
1146-65-2	Naphthalene-d8	5550	10.53				
15067-26-2	Acenaphthene-d10	2910	14.377				
1517-22-2	Phenanthrene-d10	5250	17.124				
1719-03-5	Chrysene-d12	3330	21.313				
1520-96-3	Perylene-d12	2990	23.583				

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-BN021025.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Tue Feb 11 01:17:14 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN036409.D 0.2 =BN036410.D 0.4 =BN036411.D 0.8 =BN036412.D 1.6 =BN036413.D 3.2 =BN036414.D 5.0 =BN036415.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	0.555	0.437	0.433	0.414	0.411	0.433	0.381	0.438	12.66
3)	n-Nitrosodimet...	0.906	0.779	0.764	0.724	0.708	0.769	0.670	0.760	9.90
4) S	2-Fluorophenol	1.009	0.954	0.936	0.920	0.914	0.999	0.885	0.945	4.80
5) S	Phenol-d6	1.134	1.007	1.032	1.062	1.099	1.267	1.164	1.109	8.00
6)	bis(2-Chloroet...	1.382	1.070	1.086	1.129	1.120	1.225	1.107	1.160	9.48
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.500	0.363	0.365	0.370	0.367	0.417	0.381	0.395	12.70
9)	Naphthalene	1.400	1.141	1.116	1.088	1.075	1.186	1.073	1.154	10.01
10)	Hexachlorobuta...	0.319	0.293	0.283	0.272	0.264	0.282	0.253	0.281	7.67
11) SURR2	Methylnaphth...	0.647	0.583	0.602	0.588	0.597	0.668	0.618	0.615	5.19
12)	2-Methylnaphth...	0.833	0.712	0.738	0.721	0.726	0.816	0.750	0.757	6.40
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.196	0.181	0.186	0.184	0.195	0.226	0.219	0.198	8.90
15) S	2-Fluorobiphenyl	1.409	1.390	1.377	1.491	1.564	1.738	1.558	1.504	8.57
16)	Acenaphthylene	1.807	1.667	1.692	1.683	1.734	1.964	1.820	1.767	5.98
17)	Acenaphthene	1.245	1.125	1.146	1.128	1.175	1.273	1.169	1.180	4.89
18)	Fluorene	1.696	1.630	1.661	1.627	1.669	1.829	1.646	1.680	4.17
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.071	0.067	0.069	0.074	0.084	0.107		0.078	19.60
21)	4-Bromophenyl-...	0.243	0.227	0.231	0.232	0.236	0.264	0.238	0.239	5.15
22)	Hexachlorobenzene	0.305	0.296	0.284	0.287	0.289	0.317	0.285	0.295	4.11
23)	Atrazine	0.196	0.190	0.187	0.186	0.194	0.229	0.213	0.199	8.00
24)	Pentachlorophenol	0.140	0.125	0.122	0.122	0.134	0.170	0.167	0.140	14.74
25)	Phenanthrene	1.233	1.090	1.095	1.112	1.138	1.273	1.153	1.156	6.12
26)	Anthracene	0.990	0.933	0.967	0.978	1.015	1.167	1.088	1.020	7.92
27) SURR	Fluoranthene-d10	1.109	1.043	1.063	1.059	1.098	1.258	1.156	1.112	6.70
28)	Fluoranthene	1.441	1.323	1.353	1.356	1.404	1.607	1.461	1.421	6.76
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.584	1.568	1.534	1.490	1.488	1.629	1.492	1.541	3.59
31) S	Terphenyl-d14	0.860	0.847	0.852	0.829	0.834	0.913	0.843	0.854	3.27
32)	Benzo(a)anthra...	1.257	1.276	1.293	1.255	1.300	1.471	1.362	1.316	5.86
33)	Chrysene	1.449	1.456	1.360	1.414	1.404	1.527	1.366	1.425	4.08
34)	Bis(2-ethylhex...	0.902	0.875	0.777	0.745	0.761	0.861	0.819	0.820	7.45
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN021025.M

36)	Indeno(1,2,3-c...	1.182	1.289	1.378	1.390	1.446	1.630	1.471	1.398	10.13
37)	Benzo(b)fluora...	1.174	1.220	1.260	1.290	1.333	1.529	1.416	1.317	9.24
38)	Benzo(k)fluora...	1.258	1.253	1.363	1.326	1.347	1.532	1.413	1.356	7.08
39) C	Benzo(a)pyrene	1.091	1.081	1.102	1.114	1.145	1.309	1.206	1.150	7.12
40)	Dibenzo(a,h)an...	0.906	1.021	1.075	1.087	1.154	1.304	1.176	1.103	11.40
41)	Benzo(g,h,i)pe...	1.140	1.212	1.254	1.230	1.269	1.400	1.249	1.250	6.27

(#) = Out of Range

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1423 SAS No.: Q1423 SDG No.: Q1423

Instrument ID: BNA_N Calibration Date/Time: 02/26/2025 13:43

Lab File ID: BN036508.D Init. Calib. Date(s): 02/10/2025 02/10/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:25 16:00

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.615	0.593		-3.6	20.0
Fluoranthene-d10	1.112	1.020		-8.3	20.0
2-Fluorophenol	0.945	0.858		-9.2	20.0
Phenol-d6	1.109	1.001		-9.7	20.0
Nitrobenzene-d5	0.395	0.386		-2.3	20.0
2-Fluorobiphenyl	1.504	1.669		11.0	20.0
2,4,6-Tribromophenol	0.198	0.154		-22.2	20.0
Terphenyl-d14	0.854	0.911		6.7	20.0
1,4-Dioxane	0.438	0.467		6.6	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.: Q1423 SAS No.: Q1423 SDG No.: Q1423

Instrument ID: BNA_N Calibration Date/Time: 02/26/2025 17:20

Lab File ID: BN036514.D Init. Calib. Date(s): 02/10/2025 02/10/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:25 16:00

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.615	0.591		-3.9	50.0
Fluoranthene-d10	1.112	0.974		-12.4	50.0
2-Fluorophenol	0.945	0.869		-8.0	50.0
Phenol-d6	1.109	0.989		-10.8	50.0
Nitrobenzene-d5	0.395	0.396		0.3	50.0
2-Fluorobiphenyl	1.504	1.666		10.8	50.0
2,4,6-Tribromophenol	0.198	0.160		-19.2	50.0
Terphenyl-d14	0.854	0.937		9.7	50.0
1,4-Dioxane	0.438	0.440		0.5	50.0

All other compounds must meet a minimum RRF of 0.010.



SHIPPING DOCUMENTS

CHEMTECH CHAIN OF CUSTODY RECORD		284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 Fax: (908) 78-8922 www.chemtech.net		Chemtech Project Number: <u>Q1423</u>															
CLIENT INFORMATION		PROJECT INFORMATION		BILLING INFORMATION															
COMPANY: Tetra Tech		PROJECT NAME: NWIRP Bethpage		BILL TO: SEE CONTRACT PO#															
ADDRESS: 4433 Corporation Lane Suite 300		PROJECT #: 112G08005-WE13 LOCATION: VPB-192		ADDRESS:															
CITY: Virginia Beach STATE: VA ZIP: 23462		PROJECT MANAGER: Ernie Wu		CITY: STATE: ZIP:															
ATTENTION: Ernie Wu		E-MAIL: ernie.wu@tetratech.com		ATTENTION: PHONE:															
PHONE: 757-466-4901 FAX: 757-461-4148		PHONE: 757-466-4901 FAX: 757-461-4148		ANALYSIS															
DATA TURNAROUND INFORMATION		DATA DELIVERABLE INFORMATION		PRESERVATIVES															
FAX: 10 DAYS* HARD COPY: 10 DAYS* EDD: 10 DAYS* * TO BE APPROVED BY CHEMTECH STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS		☐ RESEULTS ONLY ☐ USEPA CLP ☐ RESULTS + QC ☐ New York State ASP "B" ☐ New Jersey REDUCED ☐ New York State ASP "A" ☐ New Jersey CLP ☐ Other _____ ☐ EDD Format _____																	
CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# of Bottles	PRESERVATIVES									COMMENTS		
			COMP	GRAB	DATE	TIME		A	1	2	3	4	5	6	7	8		9	
1.	BP-VPB-192-TB-20250220	QA		X	2/20/25	9:00	2	2											Trip blank
2.	VPB-192-HYD-20250221	AQ		X	2/21/25	14:00	3	2	1										
3.	BP-VPB-192-EB-20250221	QA		X	2/21/25	9:30	2	2	1										Equipment Blank
4.	BP-VPB-192-GW-925-927	AQ		X	2/20/25	9:35	2	2											
5.																			
6.																			
7.																			
8.																			
9.																			
10.																			
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSION INCLUDING COURIER DELIVERY																			
RELINQUISHED BY SAMPLER		DATE/TIME		RECEIVED BY		Conditions of bottles or coolers at receipt: q Compliant q Non Compliant q Cooler Temp <u>2.3°C</u> MeOH extraction requires an additional 4oz. Jar for percent solid Comments: Standard TAT													
1. <u>[Signature]</u>		2/24/25		1. <u>[Signature]</u> 1530															
RELINQUISHED BY		DATE/TIME		RECEIVED BY															
2.				2.															
RELINQUISHED BY		DATE/TIME		RECEIVED FOR LAB BY		Page <u>1</u> of <u>1</u>				SHIPPED VIA: CLIENT: ☐ Hand Delivered ☐ Overnight CHEMTECH: ☐ Picked Up ☐ Overnight				Shipment Complete ☐ YES ☐ NO					
3. <u>[Signature]</u>		2-24-25		3.															
WHITE - CHEMTECH COPYFOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY																			

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 : Q1423 TETR06

Order Date : 2/25/2025 10:55:00 AM

Project Mgr :

Client Name : Tetra Tech NUS, Inc.

Project Name : CTO WE13

Report Type : Level 4

Client Contact : Ernie Wu

Receive DateTime : 2/24/2025 6:28:00 PM

EDD Type : ADAPT

Invoice Name : Tetra Tech NUS, Inc.

Purchase Order :

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
Q1423-01	BP-VPB-192-TB-20250220	Water	02/20/2025	09:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1423-02	VPB-192-HYD-20250221	Water	02/21/2025	14:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1423-03	BP-VPB-192-EB-20250221	Water	02/21/2025	09:30					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q1423-04	BP-VPB-192-GW-925-927	Water	02/20/2025	09:35					
					VOCMS Group1		8260-Low	10 Bus. Days	

Relinquished By :

Date / Time : 2/25/25 11:05

Received By :

Date / Time : 02/25/25 11:05

Storage Area : VOA Refridgerator Room