

ANALYTICAL RESULTS SUMMARYVOLATILE 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 : Q1173****ATTENTION : Ernie Wu****Laboratory Certification ID # 20012**

| | | |
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Order ID : Q1173

Project ID : CTO WE13

Client : Tetra Tech NUS, Inc.

Lab Sample Number

Q1173-01
Q1173-02
Q1173-03
Q1173-04
Q1173-05
Q1173-06

Client Sample Number

BP-VPB-192-TB-20250121
BP-VPB-192-GW-60-62
BP-VPB-192-GW-100-102
BP-VPB-192-GW-140-142
BP-VPB-192-GW-200-202
VPB192-HYD-20250122

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: 2/15/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project Manager: Ernie Wu

Chemtech Project # Q1173

Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:

6 Water samples were received on 01/23/2025.

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#121-1324UIThe 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 for {VX0127WBS01} with File ID: VX044714.D met requirements for all samples except for Chloroethane[191%],

The Blank Spike Duplicate for {VX0127WBSD01} with File ID: VX044715.D met requirements for all samples except for Chloroethane[205%],

Above Blank Spike and Blank Spike Duplicate failing high but no positive hit in associated samples therefore no corrective action taken.

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

The Initial Calibration met the requirements .

The Continuous Calibration File ID VX044711.D met the requirements except for Chloroethane failing high but no positive hit in associated samples therefore no corrective action taken.

The Tuning criteria met requirements.



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Phone: 908 789 8900 Fax: 908 789 8922

E. Additional Comments:

This Data Package has been revised due to client ID changed for sam#06 as per client request.

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

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 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 _____



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Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Tetra Tech NUS, Inc.

Project Name: CTO WE13

Project Manager: Ernie Wu

Chemtech Project # Q1173

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

6 Water samples were received on 01/23/2025.

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-GGA. The analysis of SVOC-SIMGroup1 was based on method 8270-Modified and extraction was done based on method 3510.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for PB166237BSD [Nitrobenzene-d5 - 112%], BP-VPB-192-GW-100-102 [Terphenyl-d14 - 147%], BP-VPB-192-GW-200-202 [Terphenyl-d14 - 149%]. The failure surrogates are not associated with the client list, therefore no corrective action was taken and VPB-192-HYD-20250122 [2-Methylnaphthalene-d10 - 9%, Terphenyl-d14 - 140%], VPB-192-HYD-20250122RE [2-Methylnaphthalene-d10 - 8%, and Terphenyl-d14 - 135%]. All the failure samples in surrogates were reanalyzed to confirm the results as per method and reported in the data.

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 .



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The Continuous Calibration File ID BN036112.D met the requirements except for Phenol-d6 , failure surrogate is not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken.

The Continuous Calibration File ID BN036303.D met the requirements except for 2,4,6-Tribromophenol , failure surrogate is not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken.

The Continuous Calibration File ID BN036320.D met the requirements except for 2,4,6-Tribromophenol , failure surrogate is not associated with the client list, as per criteria affected surrogates were passing, therefore no corrective action was taken.

The Tuning criteria met requirements.

E. Additional Comments:

This Data Package has been revised due to client ID changed for sam#06 as per client request.

Less volume was taken for samples # BP-VPB-192-GW-60-62, BP-VPB-192-GW-100-102, BP-VPB-192-GW-140-142 and BP-VPB-192-GW-200-202 at the extraction due to Limited volume received.

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

The not QT review data is reported in the Miscellaneous.

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

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <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



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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 #: Q1173

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 02/15/2025

LAB CHRONICLE

| OrderID: | Q1173 | OrderDate: | 1/23/2025 3:29:00 PM | | | | | |
|-----------------|------------------------------------|-------------------|-----------------------|----------|-----------------|-----------|-----------|-----------------|
| Client: | Tetra Tech NUS, Inc. | Project: | CTO WE13 | | | | | |
| Contact: | Ernie Wu | Location: | N41,VOA Ref. #3 Water | | | | | |
| <hr/> | | | | | | | | |
| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
| Q1173-01 | BP-VPB-192-TB-2025 0121 | Water | | | 01/21/25 | | | 01/23/25 |
| | | | VOCMS Group1 | 8260-Low | | | 01/27/25 | |
| Q1173-02 | BP-VPB-192-GW-60-6 2 | Water | | | 01/21/25 | | | 01/23/25 |
| | | | VOCMS Group1 | 8260-Low | | | 01/27/25 | |
| Q1173-03 | BP-VPB-192-GW-100- 102 | Water | | | 01/21/25 | | | 01/23/25 |
| | | | VOCMS Group1 | 8260-Low | | | 01/27/25 | |
| Q1173-04 | BP-VPB-192-GW-140- 142 | Water | | | 01/22/25 | | | 01/23/25 |
| | | | VOCMS Group1 | 8260-Low | | | 01/27/25 | |
| Q1173-05 | BP-VPB-192-GW-200- 202 | Water | | | 01/22/25 | | | 01/23/25 |
| | | | VOCMS Group1 | 8260-Low | | | 01/27/25 | |
| Q1173-06 | VPB192-HYD-202501 22 | Water | | | 01/22/25 | | | 01/23/25 |
| | | | VOCMS Group1 | 8260-Low | | | 01/27/25 | |

 A
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Hit Summary Sheet
SW-846

SDG No.: Q1173
Client: Tetra Tech NUS, Inc.

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | LOD | RDL | Units |
|-------------------------------|---|--------|-----------------------------|---------------|---|------|------|------|-------|
| Client ID: Q1173-02 | BP-VPB-192-GW-60-62 BP-VPB-192-GW-6 Water | | Acetone | 12.0 | | 1.40 | 3.80 | 5.00 | ug/L |
| | | | Total Voc : | 12.0 | | | | | |
| | | | Total Concentration: | 12.0 | | | | | |
| Client ID: Q1173-03 | BP-VPB-192-GW-100-102 BP-VPB-192-GW-1 Water | | Acetone | 7.60 | | 1.40 | 3.80 | 5.00 | ug/L |
| Q1173-03 | BP-VPB-192-GW-1 Water | | Chloroform | 1.10 | | 0.26 | 0.50 | 1.00 | ug/L |
| Q1173-03 | BP-VPB-192-GW-1 Water | | Trichloroethene | 0.87 | J | 0.32 | 0.75 | 1.00 | ug/L |
| Q1173-03 | BP-VPB-192-GW-1 Water | | Bromodichloromethane | 0.98 | J | 0.24 | 0.50 | 1.00 | ug/L |
| Q1173-03 | BP-VPB-192-GW-1 Water | | Dibromochloromethane | 1.10 | | 0.18 | 0.50 | 1.00 | ug/L |
| | | | Total Voc : | 11.7 | | | | | |
| | | | Total Concentration: | 11.7 | | | | | |
| Client ID: Q1173-04 | BP-VPB-192-GW-140-142 BP-VPB-192-GW-1 Water | | Acetone | 7.40 | | 1.40 | 3.80 | 5.00 | ug/L |
| Q1173-04 | BP-VPB-192-GW-1 Water | | Chloroform | 0.70 | J | 0.26 | 0.50 | 1.00 | ug/L |
| Q1173-04 | BP-VPB-192-GW-1 Water | | Benzene | 6.50 | | 0.16 | 0.50 | 1.00 | ug/L |
| Q1173-04 | BP-VPB-192-GW-1 Water | | Toluene | 0.96 | J | 0.18 | 0.50 | 1.00 | ug/L |
| | | | Total Voc : | 15.6 | | | | | |
| | | | Total Concentration: | 15.6 | | | | | |
| Client ID: Q1173-05 | BP-VPB-192-GW-200-202 BP-VPB-192-GW-2 Water | | Acetone | 7.10 | | 1.40 | 3.80 | 5.00 | ug/L |
| Q1173-05 | BP-VPB-192-GW-2 Water | | Chloroform | 0.68 | J | 0.26 | 0.50 | 1.00 | ug/L |
| Q1173-05 | BP-VPB-192-GW-2 Water | | Trichloroethene | 1.80 | | 0.32 | 0.75 | 1.00 | ug/L |
| | | | Total Voc : | 9.58 | | | | | |
| | | | Total Concentration: | 9.58 | | | | | |
| Client ID: Q1173-06 | VPB192-HYD-20250122 VPB192-HYD-2025 Water | | Acetone | 1.60 | J | 1.40 | 3.80 | 5.00 | ug/L |
| Q1173-06 | VPB192-HYD-2025 Water | | Dibromochloromethane | 1.30 | | 0.18 | 0.50 | 1.00 | ug/L |
| | | | Total Voc : | 2.90 | | | | | |
| | | | Total Concentration: | 2.90 | | | | | |



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SAMPLE DATA

Report of Analysis

| | | | |
|--------------------|------------------------|-----------------|--------------------|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 01/21/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-TB-20250121 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-01 | 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 |
|-------------------|-----------|-----------|----------------|---------------|
| VX044717.D | 1 | | 01/27/25 12:38 | VX012725 |

| 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 | UQ | 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: | 01/21/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-TB-20250121 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-01 | 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 |
|-------------------|-----------|-----------|----------------|---------------|
| VX044717.D | 1 | | 01/27/25 12:38 | VX012725 |

| 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 | 46.8 | | 81 - 118 | | 94% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.7 | | 80 - 119 | | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 55.2 | | 89 - 112 | | 110% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 54.2 | | 85 - 114 | | 108% | SPK: 50 |
| INTERNAL STANDARDS | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 154000 | 5.544 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 301000 | 6.757 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 273000 | 10.049 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 116000 | 12.018 | | | | |
| TENTATIVE IDENTIFIED COMPOUNDS | | | | | | | |
| 75-43-4 | Dichlorofluoromethane | | N.D | | | | |

Report of Analysis

| | | | |
|--------------------|------------------------|-----------------|--------------------|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 01/21/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-TB-20250121 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-01 | 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 |
|-------------------|-----------|-----------|----------------|---------------|
| VX044717.D | 1 | | 01/27/25 12:38 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|-----|------------|-------|
|------------|-----------|-------|-----------|-----|-----|------------|-------|

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

| | | | |
|--------------------|----------------------|-----------------|--------------------|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 01/21/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-60-62 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-02 | 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 |
|-------------------|-----------|-----------|----------------|---------------|
| VX044718.D | 1 | | 01/27/25 13:01 | VX012725 |

| 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 | UQ | 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 | 12.0 | | 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: | 01/21/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-60-62 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-02 | 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 |
|-------------------|-----------|-----------|----------------|---------------|
| VX044718.D | 1 | | 01/27/25 13:01 | VX012725 |

| 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 | 49.0 | | 81 - 118 | | 98% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.4 | | 80 - 119 | | 103% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 55.7 | | 89 - 112 | | 111% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 52.2 | | 85 - 114 | | 104% | SPK: 50 |
| INTERNAL STANDARDS | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 145000 | 5.544 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 291000 | 6.757 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 261000 | 10.049 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 111000 | 12.018 | | | | |
| TENTATIVE IDENTIFIED COMPOUNDS | | | | | | | |
| 75-43-4 | Dichlorofluoromethane | | N.D | | | | |

Report of Analysis

| | | | |
|--------------------|----------------------|-----------------|--------------------|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 01/21/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-60-62 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-02 | 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 |
|-------------------|-----------|-----------|----------------|---------------|
| VX044718.D | 1 | | 01/27/25 13:01 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|-----|------------|-------|
|------------|-----------|-------|-----------|-----|-----|------------|-------|

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

| | | | |
|--------------------|-----------------------|-----------------|--------------------|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 01/21/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-100-102 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-03 | 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 |
|-------------------|-----------|-----------|----------------|---------------|
| VX044719.D | 1 | | 01/27/25 13:24 | VX012725 |

| 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 | UQ | 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 | 7.60 | | 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 | 1.10 | | 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 | 0.87 | J | 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 | 0.98 | 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: | 01/21/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-100-102 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-03 | 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 |
|-------------------|-----------|-----------|----------------|---------------|
| VX044719.D | 1 | | 01/27/25 13:24 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---------------------------------------|---------------------------|--------|-----------|----------|------|------------|---------|
| 124-48-1 | Dibromochloromethane | 1.10 | | 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 | 47.9 | | 81 - 118 | | 96% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.8 | | 80 - 119 | | 102% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 55.2 | | 89 - 112 | | 110% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 52.4 | | 85 - 114 | | 105% | SPK: 50 |
| INTERNAL STANDARDS | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 157000 | 5.544 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 304000 | 6.757 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 268000 | 10.049 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 116000 | 12.018 | | | | |
| TENTATIVE IDENTIFIED COMPOUNDS | | | | | | | |
| 75-43-4 | Dichlorofluoromethane | | N.D | | | | |

Report of Analysis

| | | | |
|--------------------|-----------------------|-----------------|--------------------|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 01/21/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-100-102 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-03 | 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 |
|-------------------|-----------|-----------|----------------|---------------|
| VX044719.D | 1 | | 01/27/25 13:24 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|-----|------------|-------|
|------------|-----------|-------|-----------|-----|-----|------------|-------|

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

| | | | |
|--------------------|-----------------------|-----------------|--------------------|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 01/22/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-140-142 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-04 | 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 |
|-------------------|-----------|-----------|----------------|---------------|
| VX044720.D | 1 | | 01/27/25 13:47 | VX012725 |

| 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 | UQ | 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 | 7.40 | | 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 | 0.70 | J | 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 | 6.50 | | 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 | 0.96 | J | 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: | 01/22/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-140-142 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-04 | 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 |
|-------------------|-----------|-----------|----------------|---------------|
| VX044720.D | 1 | | 01/27/25 13:47 | VX012725 |

| 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 | 48.7 | | 81 - 118 | | 97% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.2 | | 80 - 119 | | 102% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 54.9 | | 89 - 112 | | 110% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.9 | | 85 - 114 | | 102% | SPK: 50 |
| INTERNAL STANDARDS | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 154000 | 5.544 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 313000 | 6.757 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 273000 | 10.049 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 115000 | 12.018 | | | | |
| TENTATIVE IDENTIFIED COMPOUNDS | | | | | | | |
| 75-43-4 | Dichlorofluoromethane | | N.D | | | | |

Report of Analysis

| | | | |
|--------------------|-----------------------|-----------------|--------------------|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 01/22/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-140-142 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-04 | 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 |
|-------------------|-----------|-----------|----------------|---------------|
| VX044720.D | 1 | | 01/27/25 13:47 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|-----|------------|-------|
|------------|-----------|-------|-----------|-----|-----|------------|-------|

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Report of Analysis

| | | | |
|--------------------|-----------------------|-----------------|--------------------|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 01/22/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-200-202 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-05 | 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 |
|-------------------|-----------|-----------|----------------|---------------|
| VX044721.D | 1 | | 01/27/25 14:09 | VX012725 |

| 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 | UQ | 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 | 7.10 | | 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 | 0.68 | J | 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 | 1.80 | | 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: | 01/22/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-200-202 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-05 | 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 |
|-------------------|-----------|-----------|----------------|---------------|
| VX044721.D | 1 | | 01/27/25 14:09 | VX012725 |

| 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 | 47.8 | | 81 - 118 | | 96% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.8 | | 80 - 119 | | 102% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 54.5 | | 89 - 112 | | 109% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 53.6 | | 85 - 114 | | 107% | SPK: 50 |
| INTERNAL STANDARDS | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 144000 | 5.544 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 289000 | 6.757 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 258000 | 10.049 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 113000 | 12.018 | | | | |
| TENTATIVE IDENTIFIED COMPOUNDS | | | | | | | |
| 75-43-4 | Dichlorofluoromethane | | N.D | | | | |

Report of Analysis

| | | | |
|--------------------|-----------------------|-----------------|----------|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 01/22/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-200-202 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-05 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 | Units: | mL |
| Soil Aliquot Vol: | | uL | |
| GC Column: | DB-624UI | ID : | 0.18 |
| Prep Method : | | Level : | LOW |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VX044721.D | 1 | | 01/27/25 14:09 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|-----|------------|-------|
|------------|-----------|-------|-----------|-----|-----|------------|-------|

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products

Report of Analysis

| | | | |
|--------------------|----------------------|-----------------|--------------------|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 01/22/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | VPB192-HYD-20250122 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-06 | 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 |
|-------------------|-----------|-----------|----------------|---------------|
| VX044716.D | 1 | | 01/27/25 12:15 | VX012725 |

| 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 | 1.60 | 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: | 01/22/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | VPB192-HYD-20250122 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-06 | 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 |
|-------------------|-----------|-----------|----------------|---------------|
| VX044716.D | 1 | | 01/27/25 12:15 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---------------------------------------|---------------------------|--------|-----------|----------|------|------------|---------|
| 124-48-1 | Dibromochloromethane | 1.30 | | 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 | 49.6 | | 81 - 118 | | 99% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.8 | | 80 - 119 | | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 54.4 | | 89 - 112 | | 109% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 53.6 | | 85 - 114 | | 107% | SPK: 50 |
| INTERNAL STANDARDS | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 143000 | 5.543 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 296000 | 6.757 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 265000 | 10.049 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 114000 | 12.018 | | | | |
| TENTATIVE IDENTIFIED COMPOUNDS | | | | | | | |
| 75-43-4 | Dichlorofluoromethane | | N.D | | | | |

Report of Analysis

| | | | |
|--------------------|----------------------|-----------------|----------|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 01/22/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | VPB192-HYD-20250122 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-06 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 | Units: | mL |
| Soil Aliquot Vol: | | uL | |
| GC Column: | DB-624UI | ID : | 0.18 |
| Prep Method : | | Level : | LOW |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VX044716.D | 1 | | 01/27/25 12:15 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|------------|-----------|-------|-----------|-----|-----|------------|-------|
|------------|-----------|-------|-----------|-----|-----|------------|-------|

U = Not Detected
 LOQ = Limit of Quantitation
 MDL = Method Detection Limit
 LOD = Limit of Detection
 E = Value Exceeds Calibration Range
 Q = indicates LCS control criteria did not meet requirements
 M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 D = Dilution
 () = Laboratory InHouse Limit
 A = Aldol-Condensation Reaction Products



A
B
C
D
E
F
G

QC SUMMARY

Surrogate Summary

SDG No.: Q1173

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

| Lab Sample ID | Client ID | Parameter | Spike | Result | Recovery | Limits | |
|---------------|------------------------|-----------------------|-------|--------|----------|--------|-----|
| | | | | | | Qual | Low |
| Q1173-01 | BP-VPB-192-TB-20250121 | 1,2-Dichloroethane-d4 | 50 | 46.8 | 94 | 81 | 118 |
| | | Dibromofluoromethane | 50 | 50.7 | 101 | 80 | 119 |
| | | Toluene-d8 | 50 | 55.2 | 110 | 89 | 112 |
| | | 4-Bromofluorobenzene | 50 | 54.2 | 108 | 85 | 114 |
| Q1173-02 | BP-VPB-192-GW-60-62 | 1,2-Dichloroethane-d4 | 50 | 49.0 | 98 | 81 | 118 |
| | | Dibromofluoromethane | 50 | 51.4 | 103 | 80 | 119 |
| | | Toluene-d8 | 50 | 55.7 | 111 | 89 | 112 |
| | | 4-Bromofluorobenzene | 50 | 52.2 | 104 | 85 | 114 |
| Q1173-03 | BP-VPB-192-GW-100-102 | 1,2-Dichloroethane-d4 | 50 | 47.9 | 96 | 81 | 118 |
| | | Dibromofluoromethane | 50 | 50.8 | 102 | 80 | 119 |
| | | Toluene-d8 | 50 | 55.2 | 110 | 89 | 112 |
| | | 4-Bromofluorobenzene | 50 | 52.4 | 105 | 85 | 114 |
| Q1173-04 | BP-VPB-192-GW-140-142 | 1,2-Dichloroethane-d4 | 50 | 48.7 | 97 | 81 | 118 |
| | | Dibromofluoromethane | 50 | 51.2 | 102 | 80 | 119 |
| | | Toluene-d8 | 50 | 54.9 | 110 | 89 | 112 |
| | | 4-Bromofluorobenzene | 50 | 50.9 | 102 | 85 | 114 |
| Q1173-05 | BP-VPB-192-GW-200-202 | 1,2-Dichloroethane-d4 | 50 | 47.8 | 96 | 81 | 118 |
| | | Dibromofluoromethane | 50 | 50.8 | 102 | 80 | 119 |
| | | Toluene-d8 | 50 | 54.5 | 109 | 89 | 112 |
| | | 4-Bromofluorobenzene | 50 | 53.6 | 107 | 85 | 114 |
| Q1173-06 | VPB192-HYD-20250122 | 1,2-Dichloroethane-d4 | 50 | 49.6 | 99 | 81 | 118 |
| | | Dibromofluoromethane | 50 | 49.8 | 100 | 80 | 119 |
| | | Toluene-d8 | 50 | 54.4 | 109 | 89 | 112 |
| | | 4-Bromofluorobenzene | 50 | 53.6 | 107 | 85 | 114 |
| VX0127WBL01 | VX0127WBL01 | 1,2-Dichloroethane-d4 | 50 | 47.7 | 95 | 81 | 118 |
| | | Dibromofluoromethane | 50 | 50.5 | 101 | 80 | 119 |
| | | Toluene-d8 | 50 | 54.6 | 109 | 89 | 112 |
| | | 4-Bromofluorobenzene | 50 | 56.1 | 112 | 85 | 114 |
| VX0127WBS01 | VX0127WBS01 | 1,2-Dichloroethane-d4 | 50 | 41.6 | 83 | 81 | 118 |
| | | Dibromofluoromethane | 50 | 45.8 | 92 | 80 | 119 |
| | | Toluene-d8 | 50 | 48.4 | 97 | 89 | 112 |
| | | 4-Bromofluorobenzene | 50 | 46.8 | 94 | 85 | 114 |
| VX0127WBSD0 | VX0127WBSD01 | 1,2-Dichloroethane-d4 | 50 | 42.1 | 84 | 81 | 118 |
| | | Dibromofluoromethane | 50 | 45.1 | 90 | 80 | 119 |
| | | Toluene-d8 | 50 | 48.1 | 96 | 89 | 112 |
| | | 4-Bromofluorobenzene | 50 | 46.9 | 94 | 85 | 114 |

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1173

Client: Tetra Tech NUS, Inc.

Analytical Method: SW8260-Low

Datafile : VX044714.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits | | RPD |
|---------------|--------------------------------|-------|--------|------|-----|-----|------|--------|------|-----|
| | | | | | | | | Low | High | |
| VX0127WBS01 | Chloromethane | 20 | 19.0 | ug/L | 95 | | | 50 | 139 | |
| | Vinyl chloride | 20 | 17.3 | ug/L | 86 | | | 58 | 137 | |
| | Bromomethane | 20 | 18.9 | ug/L | 95 | | | 53 | 141 | |
| | Chloroethane | 20 | 38.1 | ug/L | 191 | * | | 60 | 138 | |
| | Trichlorofluoromethane | 20 | 16.7 | ug/L | 84 | | | 65 | 141 | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 18.4 | ug/L | 92 | | | 70 | 136 | |
| | 1,1-Dichloroethene | 20 | 18.6 | ug/L | 93 | | | 71 | 131 | |
| | Acetone | 100 | 80.8 | ug/L | 81 | | | 39 | 160 | |
| | Carbon disulfide | 20 | 18.4 | ug/L | 92 | | | 64 | 133 | |
| | Methyl tert-butyl Ether | 20 | 17.2 | ug/L | 86 | | | 71 | 124 | |
| | Methylene Chloride | 20 | 17.5 | ug/L | 88 | | | 74 | 124 | |
| | trans-1,2-Dichloroethene | 20 | 17.5 | ug/L | 88 | | | 75 | 124 | |
| | 1,1-Dichloroethane | 20 | 18.0 | ug/L | 90 | | | 77 | 125 | |
| | 2-Butanone | 100 | 90.1 | ug/L | 90 | | | 56 | 143 | |
| | Carbon Tetrachloride | 20 | 16.7 | ug/L | 84 | | | 72 | 136 | |
| | cis-1,2-Dichloroethene | 20 | 17.4 | ug/L | 87 | | | 78 | 123 | |
| | Chloroform | 20 | 17.3 | ug/L | 86 | | | 79 | 124 | |
| | 1,1,1-Trichloroethane | 20 | 16.1 | ug/L | 81 | | | 74 | 131 | |
| | Methylcyclohexane | 20 | 18.3 | ug/L | 92 | | | 72 | 132 | |
| | Benzene | 20 | 18.5 | ug/L | 93 | | | 79 | 120 | |
| | 1,2-Dichloroethane | 20 | 16.3 | ug/L | 81 | | | 73 | 128 | |
| | Trichloroethene | 20 | 17.5 | ug/L | 88 | | | 79 | 123 | |
| | 1,2-Dichloroproppane | 20 | 18.6 | ug/L | 93 | | | 78 | 122 | |
| | Bromodichloromethane | 20 | 17.0 | ug/L | 85 | | | 79 | 125 | |
| | 4-Methyl-2-Pentanone | 100 | 95.9 | ug/L | 96 | | | 67 | 130 | |
| | Toluene | 20 | 18.3 | ug/L | 92 | | | 80 | 121 | |
| | t-1,3-Dichloropropene | 20 | 17.2 | ug/L | 86 | | | 73 | 127 | |
| | cis-1,3-Dichloropropene | 20 | 17.5 | ug/L | 88 | | | 75 | 124 | |
| | 1,1,2-Trichloroethane | 20 | 18.3 | ug/L | 92 | | | 80 | 119 | |
| | 2-Hexanone | 100 | 95.6 | ug/L | 96 | | | 57 | 139 | |
| | Dibromochloromethane | 20 | 17.2 | ug/L | 86 | | | 74 | 126 | |
| | Tetrachloroethene | 20 | 18.7 | ug/L | 94 | | | 74 | 129 | |
| | Chlorobenzene | 20 | 18.6 | ug/L | 93 | | | 82 | 118 | |
| | Ethyl Benzene | 20 | 18.6 | ug/L | 93 | | | 79 | 121 | |
| | m/p-Xylenes | 40 | 38.0 | ug/L | 95 | | | 80 | 121 | |
| | o-Xylene | 20 | 18.6 | ug/L | 93 | | | 78 | 122 | |
| | Styrene | 20 | 19.2 | ug/L | 96 | | | 78 | 123 | |
| | Bromoform | 20 | 17.7 | ug/L | 89 | | | 66 | 130 | |
| | Isopropylbenzene | 20 | 17.8 | ug/L | 89 | | | 72 | 131 | |
| | 1,1,2,2-Tetrachloroethane | 20 | 18.0 | ug/L | 90 | | | 71 | 121 | |
| | 1,3-Dichlorobenzene | 20 | 18.4 | ug/L | 92 | | | 80 | 119 | |
| | 1,4-Dichlorobenzene | 20 | 18.2 | ug/L | 91 | | | 79 | 118 | |
| | 1,2-Dichlorobenzene | 20 | 18.1 | ug/L | 91 | | | 80 | 119 | |

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:

Q1173

Client:

Tetra Tech NUS, Inc.

Analytical Method:

SW8260-Low

Datafile : VX044715.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits | | |
|---------------|--------------------------------|-------|--------|------|-----|-----|------|--------|------|-----|
| | | | | | | | | Low | High | RPD |
| VX0127WBSD01 | Chloromethane | 20 | 19.1 | ug/L | 96 | 1 | * | 50 | 139 | 20 |
| | Vinyl chloride | 20 | 17.7 | ug/L | 89 | 3 | | 58 | 137 | 20 |
| | Bromomethane | 20 | 19.9 | ug/L | 100 | 5 | | 53 | 141 | 20 |
| | Chloroethane | 20 | 41.0 | ug/L | 205 | 7 | * | 60 | 138 | 20 |
| | Trichlorofluoromethane | 20 | 17.6 | ug/L | 88 | 5 | | 65 | 141 | 20 |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 19.0 | ug/L | 95 | 3 | | 70 | 136 | 20 |
| | 1,1-Dichloroethene | 20 | 19.2 | ug/L | 96 | 3 | | 71 | 131 | 20 |
| | Acetone | 100 | 87.8 | ug/L | 88 | 8 | | 39 | 160 | 20 |
| | Carbon disulfide | 20 | 19.3 | ug/L | 97 | 5 | | 64 | 133 | 20 |
| | Methyl tert-butyl Ether | 20 | 18.0 | ug/L | 90 | 5 | | 71 | 124 | 20 |
| | Methylene Chloride | 20 | 18.2 | ug/L | 91 | 3 | | 74 | 124 | 20 |
| | trans-1,2-Dichloroethene | 20 | 18.4 | ug/L | 92 | 4 | | 75 | 124 | 20 |
| | 1,1-Dichloroethane | 20 | 18.6 | ug/L | 93 | 3 | | 77 | 125 | 20 |
| | 2-Butanone | 100 | 98.0 | ug/L | 98 | 9 | | 56 | 143 | 20 |
| | Carbon Tetrachloride | 20 | 17.2 | ug/L | 86 | 2 | | 72 | 136 | 20 |
| | cis-1,2-Dichloroethene | 20 | 18.0 | ug/L | 90 | 3 | | 78 | 123 | 20 |
| | Chloroform | 20 | 18.0 | ug/L | 90 | 5 | | 79 | 124 | 20 |
| | 1,1,1-Trichloroethane | 20 | 16.7 | ug/L | 84 | 4 | | 74 | 131 | 20 |
| | Methylcyclohexane | 20 | 19.4 | ug/L | 97 | 5 | | 72 | 132 | 20 |
| | Benzene | 20 | 19.2 | ug/L | 96 | 3 | | 79 | 120 | 20 |
| | 1,2-Dichloroethane | 20 | 17.4 | ug/L | 87 | 7 | | 73 | 128 | 20 |
| | Trichloroethene | 20 | 18.5 | ug/L | 93 | 6 | | 79 | 123 | 20 |
| | 1,2-Dichloroproppane | 20 | 19.1 | ug/L | 96 | 3 | | 78 | 122 | 20 |
| | Bromodichloromethane | 20 | 17.4 | ug/L | 87 | 2 | | 79 | 125 | 20 |
| | 4-Methyl-2-Pentanone | 100 | 100 | ug/L | 100 | 4 | | 67 | 130 | 20 |
| | Toluene | 20 | 19.2 | ug/L | 96 | 4 | | 80 | 121 | 20 |
| | t-1,3-Dichloropropene | 20 | 18.0 | ug/L | 90 | 5 | | 73 | 127 | 20 |
| | cis-1,3-Dichloropropene | 20 | 18.4 | ug/L | 92 | 4 | | 75 | 124 | 20 |
| | 1,1,2-Trichloroethane | 20 | 18.9 | ug/L | 95 | 3 | | 80 | 119 | 20 |
| | 2-Hexanone | 100 | 99.7 | ug/L | 100 | 4 | | 57 | 139 | 20 |
| | Dibromochloromethane | 20 | 18.2 | ug/L | 91 | 6 | | 74 | 126 | 20 |
| | Tetrachloroethene | 20 | 18.7 | ug/L | 94 | 0 | | 74 | 129 | 20 |
| | Chlorobenzene | 20 | 18.7 | ug/L | 94 | 1 | | 82 | 118 | 20 |
| | Ethyl Benzene | 20 | 18.8 | ug/L | 94 | 1 | | 79 | 121 | 20 |
| | m/p-Xylenes | 40 | 38.1 | ug/L | 95 | 0 | | 80 | 121 | 20 |
| | o-Xylene | 20 | 18.9 | ug/L | 95 | 2 | | 78 | 122 | 20 |
| | Styrene | 20 | 19.6 | ug/L | 98 | 2 | | 78 | 123 | 20 |
| | Bromoform | 20 | 17.8 | ug/L | 89 | 0 | | 66 | 130 | 20 |
| | Isopropylbenzene | 20 | 18.4 | ug/L | 92 | 3 | | 72 | 131 | 20 |
| | 1,1,2,2-Tetrachloroethane | 20 | 18.3 | ug/L | 92 | 2 | | 71 | 121 | 20 |
| | 1,3-Dichlorobenzene | 20 | 18.8 | ug/L | 94 | 2 | | 80 | 119 | 20 |
| | 1,4-Dichlorobenzene | 20 | 18.7 | ug/L | 94 | 3 | | 79 | 118 | 20 |
| | 1,2-Dichlorobenzene | 20 | 18.6 | ug/L | 93 | 2 | | 80 | 119 | 20 |

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0127WBL01

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1173

SAS No.: Q1173 SDG NO.: Q1173

Lab File ID: VX044713.D

Lab Sample ID: VX0127WBL01

Date Analyzed: 01/27/2025

Time Analyzed: 11:01

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 |
|------------------------|------------------|----------------|------------------|
| VX0127WBS01 | VX0127WBS01 | VX044714.D | 01/27/2025 |
| VX0127WBSD01 | VX0127WBSD01 | VX044715.D | 01/27/2025 |
| VPB192-HYD-20250122 | Q1173-06 | VX044716.D | 01/27/2025 |
| BP-VPB-192-TB-20250121 | Q1173-01 | VX044717.D | 01/27/2025 |
| BP-VPB-192-GW-60-62 | Q1173-02 | VX044718.D | 01/27/2025 |
| BP-VPB-192-GW-100-102 | Q1173-03 | VX044719.D | 01/27/2025 |
| BP-VPB-192-GW-140-142 | Q1173-04 | VX044720.D | 01/27/2025 |
| BP-VPB-192-GW-200-202 | Q1173-05 | VX044721.D | 01/27/2025 |

COMMENTS:

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

| | | | |
|----------------|------------------------|---------------------|------------|
| Lab Name: | CHEMTECH | Contract: | TETR06 |
| Lab Code: | CHEM | Case No.: | Q1173 |
| Lab File ID: | VX044647.D | SAS No.: | Q1173 |
| Instrument ID: | MSVOA_X | SDG NO.: | Q1173 |
| GC Column: | DB-624UI ID: 0.18 (mm) | BFB Injection Date: | 01/15/2025 |
| | | BFB Injection Time: | 09:30 |
| | | Heated Purge: | Y/N |

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50 | 15.0 - 40.0% of mass 95 | 18.6 |
| 75 | 30.0 - 60.0% of mass 95 | 50.2 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.5 |
| 173 | Less than 2.0% of mass 174 | 0.6 (0.9) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 67.1 |
| 175 | 5.0 - 9.0% of mass 174 | 4.9 (7.3) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 64.4 (96) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.3 (6.8) 2 |

1-Value is % mass 174

2-Value is % mass 176

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| VSTDICC001 | VSTDICC001 | VX044648.D | 01/15/2025 | 10:31 |
| VSTDICC005 | VSTDICC005 | VX044649.D | 01/15/2025 | 11:17 |
| VSTDICC020 | VSTDICC020 | VX044650.D | 01/15/2025 | 11:40 |
| VSTDICCC050 | VSTDICCC050 | VX044651.D | 01/15/2025 | 12:02 |
| VSTDICC100 | VSTDICC100 | VX044652.D | 01/15/2025 | 13:14 |
| VSTDICC150 | VSTDICC150 | VX044653.D | 01/15/2025 | 13:37 |

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

| | | | |
|----------------|------------------------|---------------------|------------|
| Lab Name: | CHEMTECH | Contract: | TETR06 |
| Lab Code: | CHEM | Case No.: | Q1173 |
| Lab File ID: | VX044710.D | SAS No.: | Q1173 |
| Instrument ID: | MSVOA_X | SDG NO.: | Q1173 |
| GC Column: | DB-624UI ID: 0.18 (mm) | BFB Injection Date: | 01/27/2025 |
| | | BFB Injection Time: | 08:47 |
| | | Heated Purge: | Y/N |
| | | | N |

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50 | 15.0 - 40.0% of mass 95 | 19.2 |
| 75 | 30.0 - 60.0% of mass 95 | 49.7 |
| 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 | 0.4 (0.7) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 65.4 |
| 175 | 5.0 - 9.0% of mass 174 | 4.9 (7.4) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 63 (96.3) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.5 (7.1) 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 | VX044711.D | 01/27/2025 | 10:08 |
| VX0127WBL01 | VX0127WBL01 | VX044713.D | 01/27/2025 | 11:01 |
| VX0127WBS01 | VX0127WBS01 | VX044714.D | 01/27/2025 | 11:24 |
| VX0127WBSD01 | VX0127WBSD01 | VX044715.D | 01/27/2025 | 11:52 |
| VPB192-HYD-20250122 | Q1173-06 | VX044716.D | 01/27/2025 | 12:15 |
| BP-VPB-192-TB-20250121 | Q1173-01 | VX044717.D | 01/27/2025 | 12:38 |
| BP-VPB-192-GW-60-62 | Q1173-02 | VX044718.D | 01/27/2025 | 13:01 |
| BP-VPB-192-GW-100-102 | Q1173-03 | VX044719.D | 01/27/2025 | 13:24 |
| BP-VPB-192-GW-140-142 | Q1173-04 | VX044720.D | 01/27/2025 | 13:47 |
| BP-VPB-192-GW-200-202 | Q1173-05 | VX044721.D | 01/27/2025 | 14:09 |
| VSTDCCC050EC | VSTDCCC050 | VX044734.D | 01/27/2025 | 19:09 |

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

| | | | |
|----------------|------------|----------------|------------------------------|
| Lab Name: | CHEMTECH | Contract: | TETR06 |
| Lab Code: | CHEM | Case No.: | Q1173 |
| Lab File ID: | VX044711.D | Date Analyzed: | 01/27/2025 |
| Instrument ID: | MSVOA_X | Time Analyzed: | 10:08 |
| GC Column: | DB-624UI | ID: 0.18 (mm) | Heated Purge: (Y/N) <u>N</u> |

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|------------------------|---------------|-------|---------------|-------|---------------|--------|
| 12 HOUR STD | 172369 | 5.54 | 318376 | 6.75 | 277935 | 10.05 |
| UPPER LIMIT | 344738 | 6.037 | 636752 | 7.251 | 555870 | 10.549 |
| LOWER LIMIT | 86184.5 | 5.037 | 159188 | 6.251 | 138968 | 9.549 |
| EPA SAMPLE NO. | | | | | | |
| BP-VPB-192-TB-20250121 | 154291 | 5.54 | 301435 | 6.76 | 272981 | 10.05 |
| BP-VPB-192-GW-60-62 | 145080 | 5.54 | 291470 | 6.76 | 260564 | 10.05 |
| BP-VPB-192-GW-100-102 | 156971 | 5.54 | 304234 | 6.76 | 268221 | 10.05 |
| BP-VPB-192-GW-140-142 | 153813 | 5.54 | 313071 | 6.76 | 272691 | 10.05 |
| BP-VPB-192-GW-200-202 | 143949 | 5.54 | 289107 | 6.76 | 257515 | 10.05 |
| VPB192-HYD-20250122 | 142665 | 5.54 | 295520 | 6.76 | 265204 | 10.05 |
| VX0127WBL01 | 158308 | 5.54 | 315173 | 6.76 | 280517 | 10.05 |
| VX0127WBS01 | 194501 | 5.54 | 349402 | 6.76 | 294902 | 10.05 |
| VX0127WBSD01 | 181106 | 5.54 | 329948 | 6.75 | 287428 | 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.: | Q1173 | SAS No.: | Q1173 |
| Lab File ID: | VX044711.D | | Date Analyzed: | 01/27/2025 | |
| Instrument ID: | MSVOA_X | | Time Analyzed: | 10:08 | |
| GC Column: | DB-624UI | ID: 0.18 (mm) | Heated Purge: | (Y/N) | N |

| | IS4 AREA # | RT # | | | | |
|------------------------|---------------|--------|--|--|--|--|
| 12 HOUR STD | 123095 | 12.018 | | | | |
| | 246190 | 12.518 | | | | |
| | 61547.5 | 11.518 | | | | |
| EPA SAMPLE NO. | | | | | | |
| BP-VPB-192-TB-20250121 | 115657 | 12.02 | | | | |
| BP-VPB-192-GW-60-62 | 111378 | 12.02 | | | | |
| BP-VPB-192-GW-100-102 | 115943 | 12.02 | | | | |
| BP-VPB-192-GW-140-142 | 114579 | 12.02 | | | | |
| BP-VPB-192-GW-200-202 | 112964 | 12.02 | | | | |
| VPB192-HYD-20250122 | 114051 | 12.02 | | | | |
| VX0127WBL01 | 124517 | 12.02 | | | | |
| VX0127WBS01 | 132232 | 12.02 | | | | |
| VX0127WBSD01 | 125692 | 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.



A
B
C
D
E
F
G

QC SAMPLE

DATA

Report of Analysis

| | | |
|--------------------|----------------------|--------------------|
| Client: | Tetra Tech NUS, Inc. | Date Collected: |
| Project: | CTO WE13 | Date Received: |
| Client Sample ID: | VX0127WBL01 | SDG No.: Q1173 |
| Lab Sample ID: | VX0127WBL01 | Matrix: Water |
| Analytical Method: | SW8260 | % Solid: 0 |
| Sample Wt/Vol: | 5 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 |
|-------------------|-----------|-----------|----------------|---------------|
| VX044713.D | 1 | | 01/27/25 11:01 | VX012725 |

| 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: | VX0127WBL01 | SDG No.: Q1173 |
| Lab Sample ID: | VX0127WBL01 | Matrix: Water |
| Analytical Method: | SW8260 | % Solid: 0 |
| Sample Wt/Vol: | 5 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 |
|-------------------|-----------|-----------|----------------|---------------|
| VX044713.D | 1 | | 01/27/25 11:01 | VX012725 |

| 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 | 47.7 | | 81 - 118 | | 95% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.5 | | 80 - 119 | | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 54.6 | | 89 - 112 | | 109% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 56.1 | | 85 - 114 | | 112% | SPK: 50 |
| INTERNAL STANDARDS | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 158000 | 5.544 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 315000 | 6.757 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 281000 | 10.049 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 125000 | 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: | VX0127WBS01 | SDG No.: | Q1173 |
| Lab Sample ID: | VX0127WBS01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 | Units: | mL |
| Soil Aliquot Vol: | | uL | |
| GC Column: | DB-624UI | ID : | 0.18 |
| Prep Method : | | Level : | LOW |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VX044714.D | 1 | | 01/27/25 11:24 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|----------------|--------------------------------|-------|-----------|------|------|------------|-------|
| TARGETS | | | | | | | |
| 74-87-3 | Chloromethane | 19.0 | | 0.35 | 0.50 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 17.3 | | 0.34 | 0.75 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 18.9 | | 1.40 | 3.80 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 38.1 | | 0.56 | 0.75 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 16.7 | | 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 | 18.6 | | 0.26 | 0.75 | 1.00 | ug/L |
| 67-64-1 | Acetone | 80.8 | | 1.40 | 3.80 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 18.4 | | 0.32 | 0.75 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 17.2 | | 0.16 | 0.50 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 17.5 | | 0.32 | 0.50 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 17.5 | | 0.25 | 0.50 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 18.0 | | 0.23 | 0.50 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 90.1 | | 1.30 | 2.50 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 16.7 | | 0.25 | 0.50 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 17.4 | | 0.25 | 0.75 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 17.3 | | 0.26 | 0.50 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 16.1 | | 0.19 | 0.50 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 18.3 | | 0.19 | 0.50 | 1.00 | ug/L |
| 71-43-2 | Benzene | 18.5 | | 0.16 | 0.50 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 16.3 | | 0.24 | 0.50 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 17.5 | | 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 | 17.0 | | 0.24 | 0.50 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 95.9 | | 0.75 | 2.50 | 5.00 | ug/L |
| 108-88-3 | Toluene | 18.3 | | 0.18 | 0.50 | 1.00 | ug/L |
| 10061-02-6 | t-1,3-Dichloropropene | 17.2 | | 0.21 | 0.50 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 17.5 | | 0.18 | 0.50 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 18.3 | | 0.21 | 0.50 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 95.6 | | 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: | VX0127WBS01 | SDG No.: | Q1173 |
| Lab Sample ID: | VX0127WBS01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 | Units: | mL |
| Soil Aliquot Vol: | | uL | |
| GC Column: | DB-624UI | ID : | 0.18 |
| Prep Method : | | Level : | LOW |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VX044714.D | 1 | | 01/27/25 11:24 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---------------------------|---------------------------|--------|-----------|----------|------|------------|---------|
| 124-48-1 | Dibromochloromethane | 17.2 | | 0.18 | 0.50 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 18.7 | | 0.25 | 0.50 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 18.6 | | 0.13 | 0.50 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 18.6 | | 0.16 | 0.50 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 38.0 | | 0.31 | 1.00 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 18.6 | | 0.14 | 0.50 | 1.00 | ug/L |
| 100-42-5 | Styrene | 19.2 | | 0.16 | 0.50 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 17.7 | | 0.21 | 0.50 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 17.8 | | 0.13 | 0.50 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 18.0 | | 0.27 | 0.50 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 18.4 | | 0.24 | 0.50 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 18.2 | | 0.27 | 0.50 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 18.1 | | 0.19 | 0.50 | 1.00 | ug/L |
| SURROGATES | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 41.6 | | 81 - 118 | | 83% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 45.8 | | 80 - 119 | | 92% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.4 | | 89 - 112 | | 97% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 46.8 | | 85 - 114 | | 94% | SPK: 50 |
| INTERNAL STANDARDS | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 195000 | 5.543 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 349000 | 6.757 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 295000 | 10.049 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 132000 | 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: | VX0127WBSD01 | SDG No.: | Q1173 |
| Lab Sample ID: | VX0127WBSD01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 | Units: | mL |
| Soil Aliquot Vol: | | uL | |
| GC Column: | DB-624UI | ID : | 0.18 |
| Prep Method : | | Level : | LOW |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|-------------------|-----------|-----------|----------------|---------------|
| VX044715.D | 1 | | 01/27/25 11:52 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|----------------|--------------------------------|-------|-----------|------|------|------------|-------|
| TARGETS | | | | | | | |
| 74-87-3 | Chloromethane | 19.1 | | 0.35 | 0.50 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 17.7 | | 0.34 | 0.75 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 19.9 | | 1.40 | 3.80 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 41.0 | | 0.56 | 0.75 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 17.6 | | 0.34 | 0.50 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 19.0 | | 0.25 | 0.50 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 19.2 | | 0.26 | 0.75 | 1.00 | ug/L |
| 67-64-1 | Acetone | 87.8 | | 1.40 | 3.80 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 19.3 | | 0.32 | 0.75 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 18.0 | | 0.16 | 0.50 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 18.2 | | 0.32 | 0.50 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 18.4 | | 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 | 98.0 | | 1.30 | 2.50 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 17.2 | | 0.25 | 0.50 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 18.0 | | 0.25 | 0.75 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 18.0 | | 0.26 | 0.50 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 16.7 | | 0.19 | 0.50 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 19.4 | | 0.19 | 0.50 | 1.00 | ug/L |
| 71-43-2 | Benzene | 19.2 | | 0.16 | 0.50 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 17.4 | | 0.24 | 0.50 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 18.5 | | 0.32 | 0.75 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 19.1 | | 0.19 | 0.50 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 17.4 | | 0.24 | 0.50 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 100 | | 0.75 | 2.50 | 5.00 | ug/L |
| 108-88-3 | Toluene | 19.2 | | 0.18 | 0.50 | 1.00 | ug/L |
| 10061-02-6 | t-1,3-Dichloropropene | 18.0 | | 0.21 | 0.50 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 18.4 | | 0.18 | 0.50 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 18.9 | | 0.21 | 0.50 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 99.7 | | 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: | VX0127WBSD01 | SDG No.: Q1173 |
| Lab Sample ID: | VX0127WBSD01 | Matrix: Water |
| Analytical Method: | SW8260 | % Solid: 0 |
| Sample Wt/Vol: | 5 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 |
|-------------------|-----------|-----------|----------------|---------------|
| VX044715.D | 1 | | 01/27/25 11:52 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---------------------------|---------------------------|--------|-----------|----------|------|------------|---------|
| 124-48-1 | Dibromochloromethane | 18.2 | | 0.18 | 0.50 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 18.7 | | 0.25 | 0.50 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 18.7 | | 0.13 | 0.50 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 18.8 | | 0.16 | 0.50 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 38.1 | | 0.31 | 1.00 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 18.9 | | 0.14 | 0.50 | 1.00 | ug/L |
| 100-42-5 | Styrene | 19.6 | | 0.16 | 0.50 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 17.8 | | 0.21 | 0.50 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 18.4 | | 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 | 18.8 | | 0.24 | 0.50 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 18.7 | | 0.27 | 0.50 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 18.6 | | 0.19 | 0.50 | 1.00 | ug/L |
| SURROGATES | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 42.1 | | 81 - 118 | | 84% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 45.1 | | 80 - 119 | | 90% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.1 | | 89 - 112 | | 96% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 46.9 | | 85 - 114 | | 94% | SPK: 50 |
| INTERNAL STANDARDS | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 181000 | 5.543 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 330000 | 6.75 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 287000 | 10.049 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 126000 | 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



A
B
C
D
E
F
G

CALIBRATION

SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

| | | | |
|----------------|----------|----------------------|-------------|
| Lab Name: | CHEMTECH | Contract: | TETR06 |
| Lab Code: | CHEM | SAS No.: | Q1173 |
| Instrument ID: | MSVOA_X | Calibration Date(s): | 01/15/2025 |
| Heated Purge: | (Y/N) N | Calibration Time(s): | 10:31 13:37 |
| GC Column: | DB-624UI | ID: | 0.18 (mm) |

| LAB FILE ID: | RRF001 = VX044648.D | RRF005 = VX044649.D | RRF020 = VX044650.D | | | | | |
|--------------------------------|---------------------|---------------------|---------------------|--------|--------|--------|-------|-------|
| COMPOUND | RRF001 | RRF005 | RRF020 | RRF050 | RRF100 | RRF150 | RRF | % RSD |
| Chloromethane | 0.826 | 0.712 | 0.723 | 0.710 | 0.682 | 0.713 | 0.728 | 6.9 |
| Vinyl Chloride | 0.801 | 0.681 | 0.681 | 0.702 | 0.699 | 0.749 | 0.719 | 6.6 |
| Bromomethane | | 0.170 | 0.166 | 0.171 | 0.169 | 0.183 | 0.172 | 3.7 |
| Chloroethane | 0.165 | 0.123 | 0.113 | 0.117 | 0.124 | 0.149 | 0.132 | 15.7 |
| Trichlorofluoromethane | 0.859 | 0.749 | 0.755 | 0.765 | 0.808 | 0.830 | 0.795 | 5.7 |
| 1,1,2-Trichlorotrifluoroethane | 0.678 | 0.563 | 0.562 | 0.554 | 0.598 | 0.629 | 0.597 | 8.1 |
| 1,1-Dichloroethene | 0.638 | 0.546 | 0.572 | 0.566 | 0.571 | 0.618 | 0.585 | 6 |
| Acetone | 0.369 | 0.277 | 0.274 | 0.267 | 0.309 | 0.295 | 0.299 | 12.7 |
| Carbon Disulfide | 1.690 | 1.556 | 1.571 | 1.544 | 1.552 | 1.673 | 1.598 | 4.1 |
| Methyl tert-butyl Ether | 2.328 | 2.120 | 2.091 | 2.032 | 1.998 | 2.155 | 2.121 | 5.5 |
| Methylene Chloride | 0.828 | 0.699 | 0.682 | 0.650 | 0.633 | 0.679 | 0.695 | 10 |
| trans-1,2-Dichloroethene | 0.738 | 0.607 | 0.590 | 0.568 | 0.559 | 0.605 | 0.611 | 10.7 |
| 1,1-Dichloroethane | 1.251 | 1.164 | 1.161 | 1.126 | 1.111 | 1.238 | 1.175 | 4.9 |
| 2-Butanone | 0.451 | 0.444 | 0.444 | 0.426 | 0.449 | 0.450 | 0.444 | 2.1 |
| Carbon Tetrachloride | 0.585 | 0.503 | 0.468 | 0.460 | 0.465 | 0.502 | 0.497 | 9.4 |
| cis-1,2-Dichloroethene | 0.940 | 0.735 | 0.746 | 0.717 | 0.704 | 0.771 | 0.769 | 11.3 |
| Chloroform | 1.261 | 1.226 | 1.185 | 1.142 | 1.095 | 1.206 | 1.186 | 5 |
| 1,1,1-Trichloroethane | 1.393 | 1.036 | 1.037 | 0.997 | 0.991 | 1.087 | 1.090 | 14 |
| Methylcyclohexane | 0.662 | 0.555 | 0.556 | 0.551 | 0.583 | 0.614 | 0.587 | 7.5 |
| Benzene | 1.517 | 1.376 | 1.364 | 1.306 | 1.274 | 1.384 | 1.370 | 6.1 |
| 1,2-Dichloroethane | 0.552 | 0.494 | 0.491 | 0.477 | 0.473 | 0.513 | 0.500 | 5.8 |
| Trichloroethene | 0.338 | 0.319 | 0.324 | 0.316 | 0.324 | 0.355 | 0.329 | 4.5 |
| 1,2-Dichloropropane | 0.367 | 0.359 | 0.335 | 0.329 | 0.326 | 0.354 | 0.345 | 5 |
| Bromodichloromethane | 0.634 | 0.530 | 0.518 | 0.508 | 0.499 | 0.542 | 0.538 | 9.1 |
| 4-Methyl-2-Pentanone | 0.549 | 0.489 | 0.481 | 0.449 | 0.445 | 0.458 | 0.479 | 8.1 |
| Toluene | 0.941 | 0.864 | 0.849 | 0.805 | 0.769 | 0.804 | 0.839 | 7.3 |
| t-1,3-Dichloropropene | 0.578 | 0.551 | 0.564 | 0.546 | 0.537 | 0.563 | 0.556 | 2.7 |
| cis-1,3-Dichloropropene | 0.684 | 0.589 | 0.603 | 0.574 | 0.567 | 0.603 | 0.603 | 7 |
| 1,1,2-Trichloroethane | 0.401 | 0.342 | 0.341 | 0.319 | 0.312 | 0.321 | 0.339 | 9.6 |
| 2-Hexanone | 0.397 | 0.358 | 0.357 | 0.330 | 0.331 | 0.341 | 0.352 | 7.2 |

* Compounds with required minimum RRF and maximum %RSD values.

All other compounds must meet a minimum RRF of 0.010.

RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE ORGANICS INITIAL CALIBRATION DATA

| | | | |
|----------------|---------------|----------------------|------------------|
| Lab Name: | CHEMTECH | Contract: | TETR06 |
| Lab Code: | CHEM | SAS No.: | Q1173 |
| Instrument ID: | MSVOA_X | SDG No.: | Q1173 |
| Heated Purge: | (Y/N) N | Calibration Date(s): | 01/15/2025 |
| GC Column: | DB-624UI | Calibration Time(s): | 10:31 13:37 |
| | ID: 0.18 (mm) | | |

| LAB FILE ID: | RRF001 = VX044648.D | RRF005 = VX044649.D | RRF020 = VX044650.D | | | | | |
|---------------------------|---------------------|---------------------|---------------------|--------|--------|--------|-------|-------|
| COMPOUND | RRF001 | RRF005 | RRF020 | RRF050 | RRF100 | RRF150 | RRF | % RSD |
| Dibromochloromethane | 0.449 | 0.407 | 0.399 | 0.381 | 0.369 | 0.386 | 0.398 | 7.1 |
| Tetrachloroethene | 0.346 | 0.309 | 0.299 | 0.296 | 0.308 | 0.326 | 0.314 | 5.9 |
| Chlorobenzene | 1.178 | 1.085 | 1.036 | 1.008 | 0.998 | 1.067 | 1.062 | 6.2 |
| Ethyl Benzene | 2.026 | 1.839 | 1.827 | 1.779 | 1.777 | 1.871 | 1.853 | 5 |
| m/p-Xylenes | 0.771 | 0.697 | 0.686 | 0.656 | 0.646 | 0.669 | 0.688 | 6.5 |
| o-Xylene | 0.787 | 0.713 | 0.690 | 0.665 | 0.644 | 0.674 | 0.695 | 7.3 |
| Styrene | 1.172 | 1.146 | 1.133 | 1.089 | 1.069 | 1.128 | 1.123 | 3.4 |
| Bromoform | 0.333 | 0.315 | 0.302 | 0.302 | 0.304 | 0.331 | 0.314 | 4.6 |
| Isopropylbenzene | 4.514 | 4.259 | 4.043 | 3.917 | 3.790 | 3.985 | 4.085 | 6.4 |
| 1,1,2,2-Tetrachloroethane | 1.618 | 1.510 | 1.398 | 1.302 | 1.267 | 1.370 | 1.411 | 9.4 |
| 1,3-Dichlorobenzene | 1.733 | 1.641 | 1.619 | 1.613 | 1.608 | 1.720 | 1.656 | 3.4 |
| 1,4-Dichlorobenzene | 1.911 | 1.664 | 1.606 | 1.577 | 1.579 | 1.705 | 1.674 | 7.6 |
| 1,2-Dichlorobenzene | 1.919 | 1.756 | 1.665 | 1.626 | 1.548 | 1.687 | 1.700 | 7.5 |
| 1,2-Dichloroethane-d4 | | 0.863 | 0.691 | 0.745 | 0.689 | 0.785 | 0.755 | 9.6 |
| Dibromofluoromethane | | 0.355 | 0.289 | 0.318 | 0.293 | 0.333 | 0.318 | 8.8 |
| Toluene-d8 | | 1.270 | 1.051 | 1.111 | 1.001 | 1.104 | 1.108 | 9.1 |
| 4-Bromofluorobenzene | | 0.445 | 0.394 | 0.421 | 0.383 | 0.421 | 0.413 | 6 |

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

VOLATILE CONTINUING CALIBRATION CHECK

| | | | | | |
|----------------|------------|------------------------|------------|------------|-------|
| Lab Name: | CHEMTECH | Contract: | TETR06 | | |
| Lab Code: | CHEM | Case No.: | Q1173 | SDG No.: | Q1173 |
| Instrument ID: | MSVOA_X | Calibration Date/Time: | 01/27/2025 | 10:08 | |
| Lab File ID: | VX044711.D | Init. Calib. Date(s): | 01/15/2025 | 01/15/2025 | |
| Heated Purge: | (Y/N) N | Init. Calib. Time(s): | 10:31 | 13:37 | |
| GC Column: | DB-624UI | ID: | 0.18 | (mm) | |

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|--------------------------------|-------|--------|---------|-------|-------|
| Chloromethane | 0.728 | 0.776 | 0.1 | 6.59 | 20 |
| Vinyl Chloride | 0.719 | 0.750 | | 4.31 | 20 |
| Bromomethane | 0.172 | 0.181 | | 5.23 | 20 |
| Chloroethane | 0.132 | 0.178 | | 34.85 | 20 |
| Trichlorofluoromethane | 0.795 | 0.780 | | -1.89 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.597 | 0.612 | | 2.51 | 20 |
| 1,1-Dichloroethene | 0.585 | 0.612 | | 4.61 | 20 |
| Acetone | 0.299 | 0.288 | | -3.68 | 20 |
| Carbon Disulfide | 1.598 | 1.689 | | 5.76 | 20 |
| Methyl tert-butyl Ether | 2.121 | 2.198 | | 3.63 | 20 |
| Methylene Chloride | 0.695 | 0.734 | | 5.61 | 20 |
| trans-1,2-Dichloroethene | 0.611 | 0.618 | | 1.15 | 20 |
| 1,1-Dichloroethane | 1.175 | 1.237 | 0.1 | 5.28 | 20 |
| 2-Butanone | 0.444 | 0.470 | | 5.86 | 20 |
| Carbon Tetrachloride | 0.497 | 0.453 | | -8.85 | 20 |
| cis-1,2-Dichloroethene | 0.769 | 0.785 | | 2.08 | 20 |
| Chloroform | 1.186 | 1.204 | | 1.52 | 20 |
| 1,1,1-Trichloroethane | 1.090 | 0.992 | | -8.99 | 20 |
| Methylcyclohexane | 0.587 | 0.601 | | 2.38 | 20 |
| Benzene | 1.370 | 1.421 | | 3.72 | 20 |
| 1,2-Dichloroethane | 0.500 | 0.487 | | -2.6 | 20 |
| Trichloroethene | 0.329 | 0.332 | | 0.91 | 20 |
| 1,2-Dichloropropane | 0.345 | 0.367 | | 6.38 | 20 |
| Bromodichloromethane | 0.538 | 0.535 | | -0.56 | 20 |
| 4-Methyl-2-Pentanone | 0.479 | 0.506 | | 5.64 | 20 |
| Toluene | 0.839 | 0.864 | | 2.98 | 20 |
| t-1,3-Dichloropropene | 0.556 | 0.582 | | 4.68 | 20 |
| cis-1,3-Dichloropropene | 0.603 | 0.618 | | 2.49 | 20 |
| 1,1,2-Trichloroethane | 0.339 | 0.351 | | 3.54 | 20 |
| 2-Hexanone | 0.352 | 0.364 | | 3.41 | 20 |
| Dibromochloromethane | 0.398 | 0.411 | | 3.27 | 20 |
| Tetrachloroethene | 0.314 | 0.305 | | -2.87 | 20 |
| Chlorobenzene | 1.062 | 1.085 | 0.3 | 2.17 | 20 |
| Ethyl Benzene | 1.853 | 1.874 | | 1.13 | 20 |
| m/p-Xylenes | 0.688 | 0.702 | | 2.04 | 20 |
| o-Xylene | 0.695 | 0.695 | | 0 | 20 |
| Styrene | 1.123 | 1.192 | | 6.14 | 20 |
| Bromoform | 0.314 | 0.313 | 0.1 | -0.32 | 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.: | Q1173 | SAS No.: | Q1173 |
| Instrument ID: | MSVOA_X | | Calibration Date/Time: | 01/27/2025 | 10:08 |
| Lab File ID: | VX044711.D | | Init. Calib. Date(s): | 01/15/2025 | 01/15/2025 |
| Heated Purge: (Y/N) | N | | Init. Calib. Time(s): | 10:31 | 13:37 |
| GC Column: | DB-624UI | ID: 0.18 (mm) | | | |

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---------------------------|-------|--------|---------|-------|-------|
| Isopropylbenzene | 4.085 | 3.903 | | -4.45 | 20 |
| 1,1,2,2-Tetrachloroethane | 1.411 | 1.377 | 0.3 | -2.41 | 20 |
| 1,3-Dichlorobenzene | 1.656 | 1.722 | | 3.99 | 20 |
| 1,4-Dichlorobenzene | 1.674 | 1.716 | | 2.51 | 20 |
| 1,2-Dichlorobenzene | 1.700 | 1.665 | | -2.06 | 20 |
| 1,2-Dichloroethane-d4 | 0.755 | 0.714 | | -5.43 | 20 |
| Dibromofluoromethane | 0.318 | 0.317 | | -0.31 | 20 |
| Toluene-d8 | 1.108 | 1.118 | | 0.9 | 20 |
| 4-Bromofluorobenzene | 0.413 | 0.422 | | 2.18 | 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.: | Q1173 | SAS No.: | Q1173 |
| Instrument ID: | MSVOA_X | | Calibration Date/Time: | 01/27/2025 | 19:09 |
| Lab File ID: | VX044734.D | | Init. Calib. Date(s): | 01/15/2025 | 01/15/2025 |
| Heated Purge: | (Y/N) | N | Init. Calib. Time(s): | 10:31 | 13:37 |
| GC Column: | DB-624UI | ID: 0.18 (mm) | | | |

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|--------------------------------|-------|--------|---------|-------|-------|
| Chloromethane | 0.728 | 0.744 | 0.1 | 2.2 | 50 |
| Vinyl Chloride | 0.719 | 0.766 | | 6.54 | 50 |
| Bromomethane | 0.172 | 0.186 | | 8.14 | 50 |
| Chloroethane | 0.132 | 0.181 | | 37.12 | 50 |
| Trichlorofluoromethane | 0.795 | 0.925 | | 16.35 | 50 |
| 1,1,2-Trichlorotrifluoroethane | 0.597 | 0.628 | | 5.19 | 50 |
| 1,1-Dichloroethene | 0.585 | 0.647 | | 10.6 | 50 |
| Acetone | 0.299 | 0.300 | | 0.33 | 50 |
| Carbon Disulfide | 1.598 | 1.710 | | 7.08 | 50 |
| Methyl tert-butyl Ether | 2.121 | 2.147 | | 1.23 | 50 |
| Methylene Chloride | 0.695 | 0.714 | | 2.73 | 50 |
| trans-1,2-Dichloroethene | 0.611 | 0.636 | | 4.09 | 50 |
| 1,1-Dichloroethane | 1.175 | 1.255 | 0.1 | 6.81 | 50 |
| 2-Butanone | 0.444 | 0.489 | | 10.14 | 50 |
| Carbon Tetrachloride | 0.497 | 0.462 | | -7.04 | 50 |
| cis-1,2-Dichloroethene | 0.769 | 0.784 | | 1.95 | 50 |
| Chloroform | 1.186 | 1.201 | | 1.26 | 50 |
| 1,1,1-Trichloroethane | 1.090 | 1.028 | | -5.69 | 50 |
| Methylcyclohexane | 0.587 | 0.588 | | 0.17 | 50 |
| Benzene | 1.370 | 1.426 | | 4.09 | 50 |
| 1,2-Dichloroethane | 0.500 | 0.460 | | -8 | 50 |
| Trichloroethene | 0.329 | 0.329 | | 0 | 50 |
| 1,2-Dichloropropane | 0.345 | 0.360 | | 4.35 | 50 |
| Bromodichloromethane | 0.538 | 0.505 | | -6.13 | 50 |
| 4-Methyl-2-Pentanone | 0.479 | 0.494 | | 3.13 | 50 |
| Toluene | 0.839 | 0.847 | | 0.95 | 50 |
| t-1,3-Dichloropropene | 0.556 | 0.518 | | -6.84 | 50 |
| cis-1,3-Dichloropropene | 0.603 | 0.575 | | -4.64 | 50 |
| 1,1,2-Trichloroethane | 0.339 | 0.332 | | -2.07 | 50 |
| 2-Hexanone | 0.352 | 0.362 | | 2.84 | 50 |
| Dibromochloromethane | 0.398 | 0.369 | | -7.29 | 50 |
| Tetrachloroethene | 0.314 | 0.307 | | -2.23 | 50 |
| Chlorobenzene | 1.062 | 1.060 | 0.3 | -0.19 | 50 |
| Ethyl Benzene | 1.853 | 1.887 | | 1.84 | 50 |
| m/p-Xylenes | 0.688 | 0.698 | | 1.45 | 50 |
| o-Xylene | 0.695 | 0.694 | | -0.14 | 50 |
| Styrene | 1.123 | 1.138 | | 1.34 | 50 |
| Bromoform | 0.314 | 0.292 | 0.1 | -7.01 | 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.: | Q1173 | SAS No.: | Q1173 | SDG No.: | Q1173 |
| Instrument ID: | MSVOA_X | | | Calibration Date/Time: | | 01/27/2025 | 19:09 |
| Lab File ID: | VX044734.D | | | Init. Calib. Date(s): | | 01/15/2025 | 01/15/2025 |
| Heated Purge: | (Y/N) N | | | Init. Calib. Time(s): | | 10:31 | 13:37 |
| GC Column: | DB-624UI | ID: | 0.18 | (mm) | | | |

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---------------------------|-------|--------|---------|-------|-------|
| Isopropylbenzene | 4.085 | 4.084 | | -0.02 | 50 |
| 1,1,2,2-Tetrachloroethane | 1.411 | 1.419 | 0.3 | 0.57 | 50 |
| 1,3-Dichlorobenzene | 1.656 | 1.674 | | 1.09 | 50 |
| 1,4-Dichlorobenzene | 1.674 | 1.631 | | -2.57 | 50 |
| 1,2-Dichlorobenzene | 1.700 | 1.674 | | -1.53 | 50 |
| 1,2-Dichloroethane-d4 | 0.755 | 0.712 | | -5.7 | 50 |
| Dibromofluoromethane | 0.318 | 0.320 | | 0.63 | 50 |
| Toluene-d8 | 1.108 | 1.148 | | 3.61 | 50 |
| 4-Bromofluorobenzene | 0.413 | 0.386 | | -6.54 | 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: | Q1173 | OrderDate: | 1/23/2025 3:29:00 PM | | | | | |
|-------------------|-----------------------------------|-------------------|-----------------------|---------------|-----------------|-----------|-----------|-----------------|
| Client: | Tetra Tech NUS, Inc. | Project: | CTO WE13 | | | | | |
| Contact: | Ernie Wu | Location: | N41,VOA Ref. #3 Water | | | | | |
| <hr/> | | | | | | | | |
| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
| Q1173-02 | BP-VPB-192-GW-60-6 2 | Water | | | 01/21/25 | | | 01/23/25 |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 01/24/25 | 01/29/25 | |
| Q1173-03 | BP-VPB-192-GW-100- 102 | Water | | | 01/21/25 | | | 01/23/25 |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 01/24/25 | 01/29/25 | |
| Q1173-04 | BP-VPB-192-GW-140- 142 | Water | | | 01/22/25 | | | 01/23/25 |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 01/24/25 | 01/29/25 | |
| Q1173-05 | BP-VPB-192-GW-200- 202 | Water | | | 01/22/25 | | | 01/23/25 |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 01/24/25 | 01/30/25 | |
| Q1173-06 | VPB192-HYD-202501 22 | Water | | | 01/22/25 | | | 01/23/25 |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 01/24/25 | 01/30/25 | |
| Q1173-06RE | VPB192-HYD-202501 22RE | Water | | | 01/22/25 | | | 01/23/25 |
| | | | SVOC-SIMGroup1 | 8270-Modified | | 01/24/25 | 02/05/25 | |

 A
 B
 C
 D
 E
 F
 G



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

**Hit Summary Sheet
SW-846**

SDG No.: Q1173

Client: Tetra Tech NUS, Inc.

| Sample ID | Client ID | Parameter | Concentration | C | MDL | LOD | RDL | Units |
|--------------------|------------------------------|-----------------------------|---------------|---|-------------|------|------|-------|
| Client ID : | BP-VPB-192-GW-140-142 | | | | | | | |
| Q1173-04 | BP-VPB-192-GW-140-14 WATER | 1,4-Dioxane | 0.160 | J | 0.1 | 0.28 | 0.28 | ug/L |
| | | Total Svoc : | | | 0.16 | | | |
| | | Total Concentration: | | | 0.16 | | | |
| Client ID : | BP-VPB-192-GW-200-202 | | | | | | | |
| Q1173-05 | BP-VPB-192-GW-200-20 WATER | 1,4-Dioxane | 0.250 | | 0.08 | 0.24 | 0.24 | ug/L |
| | | Total Svoc : | | | 0.25 | | | |
| | | Total Concentration: | | | 0.25 | | | |



A
B
C
D
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G

SAMPLE DATA

Report of Analysis

| | | | |
|--------------------|----------------------|------------------|----------------------|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 01/21/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-60-62 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-02 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 590 | 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 |
|-------------------|-----------|----------------|----------------|---------------|
| BN036119.D | 1 | 01/24/25 11:00 | 01/29/25 22:19 | PB166237 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| TARGETS | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.34 | U | 0.12 | 0.34 | 0.34 | ug/L |
| SURROGATES | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.38 | | 30 - 150 | | 94% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.41 | | 30 - 150 | | 102% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.39 | | 55 - 111 | | 98% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.33 | | 53 - 106 | | 83% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.52 | | 58 - 132 | | 129% | SPK: 0.4 |
| INTERNAL STANDARDS | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 2590 | | 7.803 | | | |
| 1146-65-2 | Naphthalene-d8 | 6320 | | 10.6 | | | |
| 15067-26-2 | Acenaphthene-d10 | 3480 | | 14.442 | | | |
| 1517-22-2 | Phenanthrene-d10 | 7080 | | 17.186 | | | |
| 1719-03-5 | Chrysene-d12 | 5870 | | 21.367 | | | |
| 1520-96-3 | Perylene-d12 | 5930 | | 23.672 | | | |

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: | 01/21/25 | |
| Project: | CTO WE13 | | | Date Received: | 01/23/25 | |
| Client Sample ID: | BP-VPB-192-GW-100-102 | | | SDG No.: | Q1173 | |
| Lab Sample ID: | Q1173-03 | | | Matrix: | Water | |
| Analytical Method: | SW8270ESIM | | | % Solid: | 0 | |
| Sample Wt/Vol: | 450 | 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 |
|-------------------|-----------|----------------|----------------|---------------|
| BN036120.D | 1 | 01/24/25 11:00 | 01/29/25 22:55 | PB166237 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| TARGETS | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.44 | U | 0.15 | 0.44 | 0.44 | ug/L |
| SURROGATES | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.40 | | 30 - 150 | | 99% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.43 | | 30 - 150 | | 108% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.42 | | 55 - 111 | | 104% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.36 | | 53 - 106 | | 90% | 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 | 2450 | 7.803 | | | | |
| 1146-65-2 | Naphthalene-d8 | 5670 | 10.59 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 3080 | 14.442 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 6240 | 17.186 | | | | |
| 1719-03-5 | Chrysene-d12 | 5340 | 21.367 | | | | |
| 1520-96-3 | Perylene-d12 | 5630 | 23.672 | | | | |

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: | 01/22/25 | |
| Project: | CTO WE13 | | | Date Received: | 01/23/25 | |
| Client Sample ID: | BP-VPB-192-GW-140-142 | | | SDG No.: | Q1173 | |
| Lab Sample ID: | Q1173-04 | | | Matrix: | Water | |
| Analytical Method: | SW8270ESIM | | | % Solid: | 0 | |
| Sample Wt/Vol: | 710 | 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 |
|-------------------|-----------|----------------|----------------|---------------|
| BN036121.D | 1 | 01/24/25 11:00 | 01/29/25 23:31 | PB166237 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| TARGETS | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.16 | J | 0.10 | 0.28 | 0.28 | ug/L |
| SURROGATES | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.30 | | 30 - 150 | | 74% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.37 | | 30 - 150 | | 92% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.31 | | 55 - 111 | | 77% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.28 | | 53 - 106 | | 69% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.41 | | 58 - 132 | | 102% | SPK: 0.4 |
| INTERNAL STANDARDS | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 2190 | | 7.803 | | | |
| 1146-65-2 | Naphthalene-d8 | 4950 | | 10.6 | | | |
| 15067-26-2 | Acenaphthene-d10 | 2530 | | 14.441 | | | |
| 1517-22-2 | Phenanthrene-d10 | 4820 | | 17.186 | | | |
| 1719-03-5 | Chrysene-d12 | 4380 | | 21.367 | | | |
| 1520-96-3 | Perylene-d12 | 4970 | | 23.672 | | | |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

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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: | 01/22/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-200-202 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-05 | Matrix: | Water |
| Analytical Method: | SW8270ESIM | % Solid: | 0 |
| Sample Wt/Vol: | 830 | 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 |
|-------------------|-----------|----------------|----------------|---------------|
| BN036122.D | 1 | 01/24/25 11:00 | 01/30/25 00:07 | PB166237 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| TARGETS | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.25 | | 0.080 | 0.24 | 0.24 | ug/L |
| SURROGATES | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.40 | | 30 - 150 | | 100% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.47 | | 30 - 150 | | 118% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.42 | | 55 - 111 | | 104% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.34 | | 53 - 106 | | 84% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.60 | * | 58 - 132 | | 149% | SPK: 0.4 |
| INTERNAL STANDARDS | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 2210 | | 7.803 | | | |
| 1146-65-2 | Naphthalene-d8 | 5160 | | 10.59 | | | |
| 15067-26-2 | Acenaphthene-d10 | 3020 | | 14.437 | | | |
| 1517-22-2 | Phenanthrene-d10 | 6550 | | 17.181 | | | |
| 1719-03-5 | Chrysene-d12 | 5370 | | 21.367 | | | |
| 1520-96-3 | Perylene-d12 | 4990 | | 23.671 | | | |

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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: | 01/22/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | VPB192-HYD-20250122 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-06 | 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 |
|-------------------|-----------|----------------|----------------|---------------|
| BN036123.D | 1 | 01/24/25 11:00 | 01/30/25 00:43 | PB166237 |

| 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 | 0.035 | * | 30 - 150 | | 9% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.36 | | 30 - 150 | | 90% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.40 | | 55 - 111 | | 100% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.35 | | 53 - 106 | | 88% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.56 | * | 58 - 132 | | 140% | SPK: 0.4 |
| INTERNAL STANDARDS | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 2520 | 7.803 | | | | |
| 1146-65-2 | Naphthalene-d8 | 5600 | 10.6 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 3000 | 14.441 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 5700 | 17.186 | | | | |
| 1719-03-5 | Chrysene-d12 | 4770 | 21.367 | | | | |
| 1520-96-3 | Perylene-d12 | 4940 | 23.672 | | | | |

U = Not Detected

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MDL = Method Detection Limit

LOD = Limit of Detection

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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: | 01/22/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | VPB192-HYD-20250122RE | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-06RE | 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 |
|-------------------|-----------|----------------|----------------|---------------|
| BN036306.D | 1 | 01/24/25 11:00 | 02/05/25 20:35 | PB166237 |

| 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 | 0.032 | * | 30 - 150 | | 8% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.35 | | 30 - 150 | | 88% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.37 | | 55 - 111 | | 94% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.33 | | 53 - 106 | | 82% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.54 | * | 58 - 132 | | 135% | SPK: 0.4 |
| INTERNAL STANDARDS | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 2110 | 7.775 | | | | |
| 1146-65-2 | Naphthalene-d8 | 4570 | 10.562 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 2300 | 14.409 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 4460 | 17.161 | | | | |
| 1719-03-5 | Chrysene-d12 | 3800 | 21.34 | | | | |
| 1520-96-3 | Perylene-d12 | 3360 | 23.628 | | | | |

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J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

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A = Aldol-Condensation Reaction Products



A
B
C
D
E
F
G

QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q1173

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

| Lab Sample ID | Client ID | Parameter | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) | |
|---------------|-----------------------|-------------------------|-------------|--------------|--------------|------|------------|------|
| | | | | | | | Low | High |
| PB166237BL | PB166237BL | 2-Methylnaphthalene-d10 | 0.4 | 0.40 | 100 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.44 | 110 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.43 | 107 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.38 | 95 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.46 | 115 | | 58 | 132 |
| PB166237BS | PB166237BS | 2-Methylnaphthalene-d10 | 0.4 | 0.58 | 144 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.41 | 101 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.43 | 108 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.40 | 99 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.51 | 126 | | 58 | 132 |
| PB166237BSD | PB166237BSD | 2-Methylnaphthalene-d10 | 0.4 | 0.60 | 150 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.41 | 103 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.45 | 112 | * | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.40 | 100 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.52 | 131 | | 58 | 132 |
| Q1173-02 | BP-VPB-192-GW-60-62 | 2-Methylnaphthalene-d10 | 0.4 | 0.38 | 94 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.41 | 102 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.39 | 98 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.33 | 83 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.52 | 129 | | 58 | 132 |
| Q1173-03 | BP-VPB-192-GW-100-102 | 2-Methylnaphthalene-d10 | 0.4 | 0.40 | 99 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.43 | 108 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.42 | 104 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.36 | 90 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.59 | 147 | * | 58 | 132 |
| Q1173-04 | BP-VPB-192-GW-140-142 | 2-Methylnaphthalene-d10 | 0.4 | 0.30 | 74 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.37 | 92 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.31 | 77 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.28 | 69 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.41 | 102 | | 58 | 132 |
| Q1173-05 | BP-VPB-192-GW-200-202 | 2-Methylnaphthalene-d10 | 0.4 | 0.40 | 100 | | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.47 | 118 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.42 | 104 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.34 | 84 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.41 | 102 | | 58 | 132 |
| Q1173-06 | VPB192-HYD-20250122 | 2-Methylnaphthalene-d10 | 0.4 | 0.035 | 9 | * | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.36 | 90 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.40 | 100 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.35 | 88 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.56 | 140 | * | 58 | 132 |
| Q1173-06RE | VPB192-HYD-20250122RE | 2-Methylnaphthalene-d10 | 0.4 | 0.032 | 8 | * | 30 | 150 |
| | | Fluoranthene-d10 | 0.4 | 0.35 | 88 | | 30 | 150 |
| | | Nitrobenzene-d5 | 0.4 | 0.37 | 94 | | 55 | 111 |
| | | 2-Fluorobiphenyl | 0.4 | 0.33 | 82 | | 53 | 106 |
| | | Terphenyl-d14 | 0.4 | 0.54 | 135 | * | 58 | 132 |

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1173

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN036124.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Qual | Limits | | RPD |
|---------------|-------------|-------|--------|------|-----|-----|------|------|--------|------|-----|
| | | | | | | | | | Low | High | |
| PB166237BS | 1,4-Dioxane | 0.4 | 0.34 | ug/L | 85 | | | | 70 | 130 | |

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1173

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN036125.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Qual | Limits | | |
|---------------|-------------|-------|--------|------|-----|-----|------|------|--------|-----|------|
| | | | | | | | | | RPD | Low | High |
| PB166237BSD | 1,4-Dioxane | 0.4 | 0.35 | ug/L | 88 | 3 | | | 70 | 130 | 20 |

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166237BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q1173

SAS No.: Q1173 SDG No.: Q1173

Lab File ID: BN036329.D

Lab Sample ID: PB166237BL

Instrument ID: BNA_N

Date Extracted: 01/24/2025

Matrix: (soil/water) Water

Date Analyzed: 02/06/2025

Level: (low/med) LOW

Time Analyzed: 11:03

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|-----------------------|------------------|----------------|------------------|
| PB166237BS | PB166237BS | BN036124.D | 01/30/2025 |
| PB166237BSD | PB166237BSD | BN036125.D | 01/30/2025 |
| BP-VPB-192-GW-60-62 | Q1173-02 | BN036119.D | 01/29/2025 |
| BP-VPB-192-GW-100-102 | Q1173-03 | BN036120.D | 01/29/2025 |
| BP-VPB-192-GW-140-142 | Q1173-04 | BN036121.D | 01/29/2025 |
| BP-VPB-192-GW-200-202 | Q1173-05 | BN036122.D | 01/30/2025 |
| VPB192-HYD-20250122 | Q1173-06 | BN036123.D | 01/30/2025 |

COMMENTS:

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

SAS No.: Q1173 SDG NO.: Q1173

Lab File ID: BN036009.D

DFTPP Injection Date: 01/22/2025

Instrument ID: BNA_N

DFTPP Injection Time: 09:44

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51 | 10.0 - 80.0% of mass 198 | 48.9 |
| 68 | Less than 2.0% of mass 69 | 0.5 (1.1) 1 |
| 69 | Mass 69 relative abundance | 45.7 |
| 70 | Less than 2.0% of mass 69 | 0.3 (0.6) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 47.7 |
| 197 | Less than 2.0% of mass 198 | 0.0 |
| 198 | Base Peak, 100% relative abundance | 100 |
| 199 | 5.0 to 9.0% of mass 198 | 6.5 |
| 275 | 10.0 - 60.0% of mass 198 | 24.1 |
| 365 | Greater than 1% of mass 198 | 3.8 |
| 441 | Present, but less than mass 443 | 9.4 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 11.5 (20.4) 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 | BN036010.D | 01/22/2025 | 11:02 |
| SSTDICC0.2 | SSTDICC0.2 | BN036011.D | 01/22/2025 | 11:38 |
| SSTDICCC0.4 | SSTDICCC0.4 | BN036012.D | 01/22/2025 | 12:13 |
| SSTDICC0.8 | SSTDICC0.8 | BN036013.D | 01/22/2025 | 12:49 |
| SSTDICC1.6 | SSTDICC1.6 | BN036014.D | 01/22/2025 | 13:25 |
| SSTDICC3.2 | SSTDICC3.2 | BN036015.D | 01/22/2025 | 14:01 |
| SSTDICC5.0 | SSTDICC5.0 | BN036016.D | 01/22/2025 | 14:36 |

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

SAS No.: Q1173 SDG NO.: Q1173

Lab File ID: BN036111.D

DFTPP Injection Date: 01/29/2025

Instrument ID: BNA_N

DFTPP Injection Time: 17:27

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51 | 10.0 - 80.0% of mass 198 | 42.5 |
| 68 | Less than 2.0% of mass 69 | 0.0 (0.0) 1 |
| 69 | Mass 69 relative abundance | 42.8 |
| 70 | Less than 2.0% of mass 69 | 0.2 (0.5) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 47.9 |
| 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 | 7.2 |
| 275 | 10.0 - 60.0% of mass 198 | 26.8 |
| 365 | Greater than 1% of mass 198 | 3.7 |
| 441 | Present, but less than mass 443 | 11.1 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 12.7 (18.8) 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 | BN036112.D | 01/29/2025 | 18:06 |
| BP-VPB-192-GW-60-62 | Q1173-02 | BN036119.D | 01/29/2025 | 22:19 |
| BP-VPB-192-GW-100-102 | Q1173-03 | BN036120.D | 01/29/2025 | 22:55 |
| BP-VPB-192-GW-140-142 | Q1173-04 | BN036121.D | 01/29/2025 | 23:31 |
| BP-VPB-192-GW-200-202 | Q1173-05 | BN036122.D | 01/30/2025 | 00:07 |
| VPB192-HYD-20250122 | Q1173-06 | BN036123.D | 01/30/2025 | 00:43 |
| PB166237BS | PB166237BS | BN036124.D | 01/30/2025 | 01:19 |
| PB166237BSD | PB166237BSD | BN036125.D | 01/30/2025 | 01:55 |
| SSTDCCC0.4EC | SSTDCCC0.4 | BN036128.D | 01/30/2025 | 03:43 |

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

SAS No.: Q1173 SDG NO.: Q1173

Lab File ID: BN036302.D

DFTPP Injection Date: 02/05/2025

Instrument ID: BNA_N

DFTPP Injection Time: 18:08

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51 | 10.0 - 80.0% of mass 198 | 49.1 |
| 68 | Less than 2.0% of mass 69 | 0.1 (0.3) 1 |
| 69 | Mass 69 relative abundance | 45.4 |
| 70 | Less than 2.0% of mass 69 | 0.3 (0.6) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 47.2 |
| 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 | 26.2 |
| 365 | Greater than 1% of mass 198 | 3.9 |
| 441 | Present, but less than mass 443 | 9.9 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 11.5 (18.9) 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 | BN036303.D | 02/05/2025 | 18:47 |
| VPB192-HYD-20250122RE | Q1173-06RE | BN036306.D | 02/05/2025 | 20:35 |
| SSTDCCC0.4EC | SSTDCCC0.4 | BN036318.D | 02/06/2025 | 03:45 |

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM

SAS No.: Q1173 SDG NO.: Q1173

Lab File ID: BN036319.D

DFTPP Injection Date: 02/06/2025

Instrument ID: BNA_N

DFTPP Injection Time: 05:01

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 51 | 10.0 - 80.0% of mass 198 | 50.8 |
| 68 | Less than 2.0% of mass 69 | 0.0 (0.0) 1 |
| 69 | Mass 69 relative abundance | 47 |
| 70 | Less than 2.0% of mass 69 | 0.2 (0.4) 1 |
| 127 | 10.0 - 80.0% of mass 198 | 48 |
| 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 | 6.6 |
| 275 | 10.0 - 60.0% of mass 198 | 23.8 |
| 365 | Greater than 1% of mass 198 | 3.6 |
| 441 | Present, but less than mass 443 | 8.7 |
| 442 | Greater than 50% of mass 198 | 100 |
| 443 | 15.0 - 24.0% of mass 442 | 9.5 (18.3) 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 | BN036320.D | 02/06/2025 | 05:40 |
| PB166237BL | PB166237BL | BN036329.D | 02/06/2025 | 11:03 |
| SSTDCCC0.4EC | SSTDCCC0.4 | BN036332.D | 02/06/2025 | 12:54 |



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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH
Lab Code: CHEM Case No.: Q1173 SAS No.: Q1173 SDG NO.: Q1173
EPA Sample No.: SSTDCCC0.4 Date Analyzed: 01/29/2025
Lab File ID: BN036112.D Time Analyzed: 18:06
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 | 2094 | 7.803 | 4943 | 10.60 | 2715 | 14.44 |
| UPPER LIMIT | 4188 | 8.303 | 9886 | 11.1 | 5430 | 14.937 |
| LOWER LIMIT | 1047 | 7.303 | 2471.5 | 10.1 | 1357.5 | 13.937 |
| EPA SAMPLE NO. | | | | | | |
| 01 PB166237BS | 2273 | 7.80 | 5072 | 10.60 | 2643 | 14.44 |
| 02 PB166237BSD | 2190 | 7.80 | 4796 | 10.59 | 2534 | 14.44 |
| 03 BP-VPB-192-GW-60-62 | 2585 | 7.80 | 6318 | 10.60 | 3478 | 14.44 |
| 04 BP-VPB-192-GW-100-102 | 2447 | 7.80 | 5665 | 10.59 | 3082 | 14.44 |
| 05 BP-VPB-192-GW-140-142 | 2194 | 7.80 | 4945 | 10.60 | 2527 | 14.44 |
| 06 BP-VPB-192-GW-200-202 | 2210 | 7.80 | 5163 | 10.59 | 3019 | 14.44 |
| 07 VPB192-HYD-20250122 | 2520 | 7.80 | 5602 | 10.60 | 2998 | 14.44 |

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 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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

| | | | | | | | |
|-----------------|-------------|-----------|----------------|------------|-------|----------|-------|
| Lab Name: | CHEMTECH | | | | | | |
| Lab Code: | CHEM | Case No.: | Q1173 | SAS No.: | Q1173 | SDG NO.: | Q1173 |
| EPA Sample No.: | SSTDCCCC0.4 | | Date Analyzed: | 01/29/2025 | | | |
| Lab File ID: | BN036112.D | | Time Analyzed: | 18:06 | | | |
| 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 | 5698 | 17.194 | 4562 | 21.376 | 5021 | 23.677 |
| | 11396 | 17.694 | 9124 | 21.876 | 10042 | 24.177 |
| | 2849 | 16.694 | 2281 | 20.876 | 2510.5 | 23.177 |
| EPA SAMPLE NO. | | | | | | |
| 01 PB166237BS | 4937 | 17.19 | 3907 | 21.38 | 4551 | 23.67 |
| 02 PB166237BSD | 4885 | 17.18 | 3758 | 21.38 | 4193 | 23.67 |
| 03 BP-VPB-192-GW-60-62 | 7077 | 17.19 | 5874 | 21.37 | 5930 | 23.67 |
| 04 BP-VPB-192-GW-100-102 | 6244 | 17.19 | 5342 | 21.37 | 5628 | 23.67 |
| 05 BP-VPB-192-GW-140-142 | 4819 | 17.19 | 4376 | 21.37 | 4969 | 23.67 |
| 06 BP-VPB-192-GW-200-202 | 6554 | 17.18 | 5368 | 21.37 | 4990 | 23.67 |
| 07 VPB192-HYD-20250122 | 5695 | 17.19 | 4766 | 21.37 | 4937 | 23.67 |

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 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.



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6

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH
Lab Code: CHEM Case No.: Q1173 SAS No.: Q1173 SDG NO.: Q1173
EPA Sample No.: SSTDCCC0.4 Date Analyzed: 02/05/2025
Lab File ID: BN036303.D Time Analyzed: 18:47
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 | 2214 | 7.775 | 4864 | 10.56 | 2378 | 14.41 |
| UPPER LIMIT | 4428 | 8.275 | 9728 | 11.062 | 4756 | 14.909 |
| LOWER LIMIT | 1107 | 7.275 | 2432 | 10.062 | 1189 | 13.909 |
| EPA SAMPLE NO. | | | | | | |
| 01 VPB192-HYD-20250122RE | 2111 | 7.78 | 4569 | 10.56 | 2296 | 14.41 |

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 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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

| | | | | |
|-----------------|-------------|-----------|----------------|------------|
| Lab Name: | CHEMTECH | | | |
| Lab Code: | CHEM | Case No.: | Q1173 | |
| SAS No.: | Q1173 | | SDG NO.: | Q1173 |
| EPA Sample No.: | SSTDCCCC0.4 | | Date Analyzed: | 02/05/2025 |
| Lab File ID: | BN036303.D | | Time Analyzed: | 18:47 |
| 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 | 4362 | 17.161 | 3774 | 21.34 | 4195 | 23.628 |
| | 8724 | 17.661 | 7548 | 21.84 | 8390 | 24.128 |
| | 2181 | 16.661 | 1887 | 20.84 | 2097.5 | 23.128 |
| EPA SAMPLE NO. | | | | | | |
| 01 VPB192-HYD-20250122RE | 4463 | 17.16 | 3799 | 21.34 | 3362 | 23.63 |

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 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.



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6

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH
Lab Code: CHEM Case No.: Q1173 SAS No.: Q1173 SDG NO.: Q1173
EPA Sample No.: SSTDCCC0.4 Date Analyzed: 02/06/2025
Lab File ID: BN036320.D Time Analyzed: 05:40
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 | 2017 | 7.775 | 4328 | 10.56 | 2158 | 14.41 |
| UPPER LIMIT | 4034 | 8.275 | 8656 | 11.062 | 4316 | 14.909 |
| LOWER LIMIT | 1008.5 | 7.275 | 2164 | 10.062 | 1079 | 13.909 |
| EPA SAMPLE NO. | | | | | | |
| 01 PB166237BL | 2019 | 7.78 | 4128 | 10.57 | 2036 | 14.42 |

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 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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

| | | | | |
|-----------------|-------------|-----------|----------------|------------|
| Lab Name: | CHEMTECH | | | |
| Lab Code: | CHEM | Case No.: | Q1173 | |
| SAS No.: | Q1173 | | SDG NO.: | Q1173 |
| EPA Sample No.: | SSTDCCCC0.4 | | Date Analyzed: | 02/06/2025 |
| Lab File ID: | BN036320.D | | Time Analyzed: | 05:40 |
| 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 | 4298 | 17.149 | 3803 | 21.34 | 4157 | 23.627 |
| | 8596 | 17.649 | 7606 | 21.84 | 8314 | 24.127 |
| | 2149 | 16.649 | 1901.5 | 20.84 | 2078.5 | 23.127 |
| EPA SAMPLE NO. | | | | | | |
| 01 PB166237BL | 3826 | 17.17 | 3617 | 21.35 | 3788 | 23.63 |

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 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.



A
B
C
D
E
F
G

QC SAMPLE

DATA

Report of Analysis

| | | | | | |
|--------------------|----------------------|--------|----|-----------------|----------------|
| Client: | Tetra Tech NUS, Inc. | | | Date Collected: | |
| Project: | CTO WE13 | | | Date Received: | |
| Client Sample ID: | PB166237BL | | | SDG No.: | Q1173 |
| Lab Sample ID: | PB166237BL | | | 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 |
|-------------------|-----------|----------------|----------------|---------------|
| BN036329.D | 1 | 01/24/25 11:00 | 02/06/25 11:03 | PB166237 |

| 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 | 0.40 | | 30 - 150 | | 100% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.44 | | 30 - 150 | | 110% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.43 | | 55 - 111 | | 107% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.38 | | 53 - 106 | | 95% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.46 | | 58 - 132 | | 115% | SPK: 0.4 |
| INTERNAL STANDARDS | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 2020 | 7.775 | | | | |
| 1146-65-2 | Naphthalene-d8 | 4130 | 10.573 | | | | |
| 15067-26-2 | Acenaphthene-d10 | 2040 | 14.42 | | | | |
| 1517-22-2 | Phenanthrene-d10 | 3830 | 17.173 | | | | |
| 1719-03-5 | Chrysene-d12 | 3620 | 21.349 | | | | |
| 1520-96-3 | Perylene-d12 | 3790 | 23.627 | | | | |

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: | PB166237BS | | | SDG No.: | Q1173 |
| Lab Sample ID: | PB166237BS | | | 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 |
|-------------------|-----------|----------------|----------------|---------------|
| BN036124.D | 1 | 01/24/25 11:00 | 01/30/25 01:19 | PB166237 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| TARGETS | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.34 | | 0.070 | 0.20 | 0.20 | ug/L |
| SURROGATES | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.58 | | 30 - 150 | | 144% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.41 | | 30 - 150 | | 101% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.43 | | 55 - 111 | | 108% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.40 | | 53 - 106 | | 99% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.51 | | 58 - 132 | | 126% | SPK: 0.4 |
| INTERNAL STANDARDS | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 2270 | | 7.802 | | | |
| 1146-65-2 | Naphthalene-d8 | 5070 | | 10.6 | | | |
| 15067-26-2 | Acenaphthene-d10 | 2640 | | 14.441 | | | |
| 1517-22-2 | Phenanthrene-d10 | 4940 | | 17.186 | | | |
| 1719-03-5 | Chrysene-d12 | 3910 | | 21.375 | | | |
| 1520-96-3 | Perylene-d12 | 4550 | | 23.671 | | | |

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: | PB166237BSD | | | SDG No.: | Q1173 |
| Lab Sample ID: | PB166237BSD | | | 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 |
|-------------------|-----------|----------------|----------------|---------------|
| BN036125.D | 1 | 01/24/25 11:00 | 01/30/25 01:55 | PB166237 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| TARGETS | | | | | | | |
| 123-91-1 | 1,4-Dioxane | 0.35 | | 0.070 | 0.20 | 0.20 | ug/L |
| SURROGATES | | | | | | | |
| 7297-45-2 | 2-Methylnaphthalene-d10 | 0.60 | | 30 - 150 | | 150% | SPK: 0.4 |
| 93951-69-0 | Fluoranthene-d10 | 0.41 | | 30 - 150 | | 103% | SPK: 0.4 |
| 4165-60-0 | Nitrobenzene-d5 | 0.45 | * | 55 - 111 | | 112% | SPK: 0.4 |
| 321-60-8 | 2-Fluorobiphenyl | 0.40 | | 53 - 106 | | 100% | SPK: 0.4 |
| 1718-51-0 | Terphenyl-d14 | 0.52 | | 58 - 132 | | 131% | SPK: 0.4 |
| INTERNAL STANDARDS | | | | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 2190 | | 7.803 | | | |
| 1146-65-2 | Naphthalene-d8 | 4800 | | 10.59 | | | |
| 15067-26-2 | Acenaphthene-d10 | 2530 | | 14.436 | | | |
| 1517-22-2 | Phenanthrene-d10 | 4890 | | 17.181 | | | |
| 1719-03-5 | Chrysene-d12 | 3760 | | 21.375 | | | |
| 1520-96-3 | Perylene-d12 | 4190 | | 23.671 | | | |

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



A
B
C
D
E
F
G

CALIBRATION

SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN012225.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Thu Jan 23 00:34:56 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN036010.D 0.2 =BN036011.D 0.4 =BN036012.D 0.8 =BN036013.D 1.6 =BN036014.D 3.2 =BN036015.D 5.0 =BN036016.D

| | Compound | 0.1 | 0.2 | 0.4 | 0.8 | 1.6 | 3.2 | 5.0 | Avg | %RSD |
|-------|-----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <hr/> | | | | | | | | | | |
| 1) I | 1,4-Dichlorobenzene | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 2) | 1,4-Dioxane | 0.452 | 0.460 | 0.469 | 0.477 | 0.447 | 0.408 | 0.417 | 0.447 | 5.81 |
| 3) | n-Nitrosodimethylamine | 0.798 | 0.749 | 0.877 | 0.883 | 0.829 | 0.781 | 0.759 | 0.811 | 6.65 |
| 4) S | 2-Fluorophenol | 1.032 | 1.012 | 1.092 | 1.099 | 1.042 | 0.997 | 1.010 | 1.040 | 3.88 |
| 5) S | Phenol-d6 | 1.284 | 1.195 | 1.270 | 1.155 | 1.230 | 1.210 | 1.209 | 1.222 | 3.61 |
| 6) | bis(2-Chloroethyl)ether | 1.024 | 0.979 | 1.056 | 0.929 | 0.993 | 0.952 | 0.952 | 0.984 | 4.53 |
| 7) I | Naphthalene-d8 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 8) S | Nitrobenzene-d5 | 0.377 | 0.356 | 0.399 | 0.333 | 0.397 | 0.388 | 0.394 | 0.378 | 6.55 |
| 9) | Naphthalene | 1.149 | 1.141 | 1.250 | 1.137 | 1.184 | 1.141 | 1.131 | 1.162 | 3.68 |
| 10) | Hexachlorobutane | 0.383 | 0.369 | 0.404 | 0.371 | 0.388 | 0.359 | 0.353 | 0.375 | 4.74 |
| 11) | SURR2-Methylnaphthalene | 0.522 | 0.527 | 0.578 | 0.528 | 0.556 | 0.550 | 0.545 | 0.544 | 3.66 |
| 12) | 2-Methylnaphthalene | 0.702 | 0.688 | 0.760 | 0.700 | 0.741 | 0.735 | 0.721 | 0.721 | 3.58 |
| 13) I | Acenaphthene-d10 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 14) S | 2,4,6-Tribromoethane | 0.240 | 0.238 | 0.256 | 0.238 | 0.268 | 0.275 | 0.282 | 0.257 | 7.32 |
| 15) S | 2-Fluorobiphenyl | 1.806 | 1.736 | 1.934 | 1.787 | 1.819 | 1.693 | 1.724 | 1.786 | 4.47 |
| 16) | Acenaphthylene | 1.835 | 1.826 | 2.011 | 1.840 | 1.940 | 1.889 | 1.936 | 1.897 | 3.65 |
| 17) | Acenaphthene | 1.248 | 1.236 | 1.365 | 1.266 | 1.338 | 1.310 | 1.327 | 1.299 | 3.78 |
| 18) | Fluorene | 1.583 | 1.482 | 1.633 | 1.550 | 1.739 | 1.703 | 1.700 | 1.627 | 5.76 |
| 19) I | Phenanthrene-d10 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 20) | 4,6-Dinitro-2-methoxyphenol | 0.071 | 0.081 | 0.095 | 0.089 | 0.101 | 0.107 | 0.108 | 0.093 | 14.73 |
| 21) | 4-Bromophenylmethanol | 0.285 | 0.269 | 0.307 | 0.287 | 0.293 | 0.273 | 0.281 | 0.285 | 4.42 |
| 22) | Hexachlorobenzene | 0.391 | 0.358 | 0.407 | 0.374 | 0.380 | 0.355 | 0.361 | 0.375 | 5.08 |
| 23) | Atrazine | 0.185 | 0.194 | 0.218 | 0.204 | 0.216 | 0.209 | 0.215 | 0.206 | 6.05 |
| 24) | Pentachlorophenol | 0.131 | 0.131 | 0.164 | 0.155 | 0.179 | 0.185 | 0.192 | 0.162 | 15.18 |
| 25) | Phenanthrene | 1.154 | 1.158 | 1.302 | 1.172 | 1.226 | 1.182 | 1.219 | 1.202 | 4.33 |
| 26) | Anthracene | 1.019 | 1.016 | 1.151 | 1.064 | 1.128 | 1.123 | 1.151 | 1.093 | 5.42 |
| 27) | SURRFluoranthene-d10 | 1.005 | 1.006 | 1.111 | 0.994 | 0.959 | 1.078 | 1.101 | 1.036 | 5.75 |
| 28) | Fluoranthene | 1.312 | 1.350 | 1.507 | 1.357 | 1.317 | 1.506 | 1.533 | 1.412 | 6.99 |
| 29) I | Chrysene-d12 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| 30) | Pyrene | 1.657 | 1.588 | 1.693 | 1.636 | 1.646 | 1.552 | 1.575 | 1.621 | 3.12 |
| 31) S | Terphenyl-d14 | 0.821 | 0.807 | 0.871 | 0.831 | 0.860 | 0.804 | 0.822 | 0.831 | 3.09 |
| 32) | Benzo(a)anthracene | 1.445 | 1.403 | 1.503 | 1.411 | 1.513 | 1.448 | 1.433 | 1.451 | 2.93 |
| 33) | Chrysene | 1.501 | 1.476 | 1.545 | 1.448 | 1.515 | 1.435 | 1.463 | 1.483 | 2.63 |
| 34) | Bis(2-ethylhexylphthalate) | 0.919 | 0.793 | 0.798 | 0.748 | 0.791 | 0.748 | 0.768 | 0.795 | 7.36 |
| 35) I | Perylene-d12 | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN012225.M

| | | | | | | | | | | |
|-------|--------------------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| 36) | Indeno(1,2,3-c...) | 1.525 | 1.477 | 1.621 | 1.585 | 1.669 | 1.668 | 1.692 | 1.605 | 5.03 |
| 37) | Benzo(b)fluora... | 1.443 | 1.380 | 1.497 | 1.429 | 1.475 | 1.444 | 1.510 | 1.454 | 3.03 |
| 38) | Benzo(k)fluora... | 1.427 | 1.378 | 1.486 | 1.427 | 1.519 | 1.496 | 1.524 | 1.465 | 3.76 |
| 39) C | Benzo(a)pyrene | 1.237 | 1.164 | 1.263 | 1.203 | 1.264 | 1.265 | 1.296 | 1.242 | 3.61 |
| 40) | Dibenzo(a,h)an... | 1.187 | 1.169 | 1.290 | 1.279 | 1.337 | 1.338 | 1.356 | 1.279 | 5.86 |
| 41) | Benzo(g,h,i)pe... | 1.338 | 1.308 | 1.426 | 1.387 | 1.438 | 1.428 | 1.436 | 1.394 | 3.75 |

(#) = Out of Range

A
B
C
D
E
F
G

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

| | | | | | |
|-----------------|-------------------|-----------------|------------------------|-------------------|-------------------|
| Lab Name: | <u>CHEMTECH</u> | | Contract: | <u>TETR06</u> | |
| Lab Code: | <u>CHEM</u> | Case No.: | <u>Q1173</u> | SAS No.: | <u>Q1173</u> |
| Instrument ID: | <u>BNA_N</u> | | Calibration Date/Time: | <u>01/29/2025</u> | <u>18:06</u> |
| Lab File ID: | <u>BN036112.D</u> | | Init. Calib. Date(s): | <u>01/22/2025</u> | <u>01/22/2025</u> |
| EPA Sample No.: | <u>SSTDCCC0.4</u> | | Init. Calib. Time(s): | <u>11:02</u> | <u>14:36</u> |
| GC Column: | <u>ZB-GR</u> | ID: <u>0.25</u> | (mm) | | |

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|-------------------------|-------|--------|---------|------|-------|
| 2-Methylnaphthalene-d10 | 0.544 | 0.594 | | 9.2 | 20.0 |
| Fluoranthene-d10 | 1.036 | 1.092 | | 5.4 | 20.0 |
| 2-Fluorophenol | 1.040 | 1.195 | | 14.9 | 20.0 |
| Phenol-d6 | 1.222 | 1.488 | | 21.8 | 20.0 |
| Nitrobenzene-d5 | 0.378 | 0.398 | | 5.3 | 20.0 |
| 2-Fluorobiphenyl | 1.786 | 1.681 | | -5.9 | 20.0 |
| 2,4,6-Tribromophenol | 0.257 | 0.246 | | -4.3 | 20.0 |
| Terphenyl-d14 | 0.831 | 0.973 | | 17.1 | 20.0 |
| 1,4-Dioxane | 0.447 | 0.405 | | -9.4 | 20.0 |

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

| | | | | | |
|-----------------|--------------|-----------|------------------------|------------|------------|
| Lab Name: | CHEMTECH | | Contract: | TETR06 | |
| Lab Code: | CHEM | Case No.: | Q1173 | SAS No.: | Q1173 |
| Instrument ID: | BNA_N | | Calibration Date/Time: | 01/30/2025 | 03:43 |
| Lab File ID: | BN036128.D | | Init. Calib. Date(s): | 01/22/2025 | 01/22/2025 |
| EPA Sample No.: | SSTDCCC0.4EC | | Init. Calib. Time(s): | 11:02 | 14:36 |
| GC Column: | ZB-GR | ID: 0.25 | (mm) | | |

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|-------------------------|-------|--------|---------|------|-------|
| 2-Methylnaphthalene-d10 | 0.544 | 0.601 | | 10.5 | 50.0 |
| Fluoranthene-d10 | 1.036 | 1.159 | | 11.9 | 50.0 |
| 2-Fluorophenol | 1.040 | 1.189 | | 14.3 | 50.0 |
| Phenol-d6 | 1.222 | 1.499 | | 22.7 | 50.0 |
| Nitrobenzene-d5 | 0.378 | 0.413 | | 9.3 | 50.0 |
| 2-Fluorobiphenyl | 1.786 | 1.729 | | -3.2 | 50.0 |
| 2,4,6-Tribromophenol | 0.257 | 0.251 | | -2.3 | 50.0 |
| Terphenyl-d14 | 0.831 | 1.004 | | 20.8 | 50.0 |
| 1,4-Dioxane | 0.447 | 0.408 | | -8.7 | 50.0 |

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.: | Q1173 | SAS No.: | Q1173 |
| Instrument ID: | BNA_N | | Calibration Date/Time: | 02/05/2025 | 18:47 |
| Lab File ID: | BN036303.D | | Init. Calib. Date(s): | 01/22/2025 | 01/22/2025 |
| EPA Sample No.: | SSTDCCC0.4 | | Init. Calib. Time(s): | 11:02 | 14:36 |
| GC Column: | ZB-GR | ID: 0.25 | (mm) | | |

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|-------------------------|-------|--------|---------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.544 | 0.565 | | 3.9 | 20.0 |
| Fluoranthene-d10 | 1.036 | 1.052 | | 1.5 | 20.0 |
| 2-Fluorophenol | 1.040 | 1.145 | | 10.1 | 20.0 |
| Phenol-d6 | 1.222 | 1.324 | | 8.3 | 20.0 |
| Nitrobenzene-d5 | 0.378 | 0.409 | | 8.2 | 20.0 |
| 2-Fluorobiphenyl | 1.786 | 1.693 | | -5.2 | 20.0 |
| 2,4,6-Tribromophenol | 0.257 | 0.198 | | -23.0 | 20.0 |
| Terphenyl-d14 | 0.831 | 0.860 | | 3.5 | 20.0 |
| 1,4-Dioxane | 0.447 | 0.491 | | 9.8 | 20.0 |

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

| | | | | | |
|-----------------|---------------------|-----------------|------------------------|-------------------|-------------------|
| Lab Name: | <u>CHEMTECH</u> | | Contract: | <u>TETR06</u> | |
| Lab Code: | <u>CHEM</u> | Case No.: | <u>Q1173</u> | SAS No.: | <u>Q1173</u> |
| Instrument ID: | <u>BNA_N</u> | | Calibration Date/Time: | <u>02/06/2025</u> | <u>03:45</u> |
| Lab File ID: | <u>BN036318.D</u> | | Init. Calib. Date(s): | <u>01/22/2025</u> | <u>01/22/2025</u> |
| EPA Sample No.: | <u>SSTDCCC0.4EC</u> | | Init. Calib. Time(s): | <u>11:02</u> | <u>14:36</u> |
| GC Column: | <u>ZB-GR</u> | ID: <u>0.25</u> | (mm) | | |

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|-------------------------|-------|--------|---------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.544 | 0.576 | | 5.9 | 50.0 |
| Fluoranthene-d10 | 1.036 | 1.061 | | 2.4 | 50.0 |
| 2-Fluorophenol | 1.040 | 1.175 | | 13.0 | 50.0 |
| Phenol-d6 | 1.222 | 1.328 | | 8.7 | 50.0 |
| Nitrobenzene-d5 | 0.378 | 0.397 | | 5.0 | 50.0 |
| 2-Fluorobiphenyl | 1.786 | 1.502 | | -15.9 | 50.0 |
| 2,4,6-Tribromophenol | 0.257 | 0.194 | | -24.5 | 50.0 |
| Terphenyl-d14 | 0.831 | 0.907 | | 9.1 | 50.0 |
| 1,4-Dioxane | 0.447 | 0.478 | | 6.9 | 50.0 |

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.: | Q1173 | SAS No.: | Q1173 |
| Instrument ID: | BNA_N | | Calibration Date/Time: | 02/06/2025 | 05:40 |
| Lab File ID: | BN036320.D | | Init. Calib. Date(s): | 01/22/2025 | 01/22/2025 |
| EPA Sample No.: | SSTDCCC0.4 | | Init. Calib. Time(s): | 11:02 | 14:36 |
| GC Column: | ZB-GR | ID: 0.25 | (mm) | | |

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|-------------------------|-------|--------|---------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.544 | 0.575 | | 5.7 | 20.0 |
| Fluoranthene-d10 | 1.036 | 1.072 | | 3.5 | 20.0 |
| 2-Fluorophenol | 1.040 | 1.170 | | 12.5 | 20.0 |
| Phenol-d6 | 1.222 | 1.367 | | 11.9 | 20.0 |
| Nitrobenzene-d5 | 0.378 | 0.417 | | 10.3 | 20.0 |
| 2-Fluorobiphenyl | 1.786 | 1.611 | | -9.8 | 20.0 |
| 2,4,6-Tribromophenol | 0.257 | 0.200 | | -22.2 | 20.0 |
| Terphenyl-d14 | 0.831 | 0.874 | | 5.2 | 20.0 |
| 1,4-Dioxane | 0.447 | 0.518 | | 15.9 | 20.0 |

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

| | | | | | |
|-----------------|---------------------|-----------------|------------------------|-------------------|-------------------|
| Lab Name: | <u>CHEMTECH</u> | | Contract: | <u>TETR06</u> | |
| Lab Code: | <u>CHEM</u> | Case No.: | <u>Q1173</u> | SAS No.: | <u>Q1173</u> |
| Instrument ID: | <u>BNA_N</u> | | Calibration Date/Time: | <u>02/06/2025</u> | <u>12:54</u> |
| Lab File ID: | <u>BN036332.D</u> | | Init. Calib. Date(s): | <u>01/22/2025</u> | <u>01/22/2025</u> |
| EPA Sample No.: | <u>SSTDCCC0.4EC</u> | | Init. Calib. Time(s): | <u>11:02</u> | <u>14:36</u> |
| GC Column: | <u>ZB-GR</u> | ID: <u>0.25</u> | (mm) | | |

| COMPOUND | RRF | RRF0.4 | MIN RRF | %D | MAX%D |
|-------------------------|-------|--------|---------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.544 | 0.570 | | 4.8 | 50.0 |
| Fluoranthene-d10 | 1.036 | 1.077 | | 4.0 | 50.0 |
| 2-Fluorophenol | 1.040 | 1.162 | | 11.7 | 50.0 |
| Phenol-d6 | 1.222 | 1.293 | | 5.8 | 50.0 |
| Nitrobenzene-d5 | 0.378 | 0.409 | | 8.2 | 50.0 |
| 2-Fluorobiphenyl | 1.786 | 1.549 | | -13.3 | 50.0 |
| 2,4,6-Tribromophenol | 0.257 | 0.188 | | -26.8 | 50.0 |
| Terphenyl-d14 | 0.831 | 0.868 | | 4.5 | 50.0 |
| 1,4-Dioxane | 0.447 | 0.486 | | 8.7 | 50.0 |

All other compounds must meet a minimum RRF of 0.010.



SHIPPING DOCUMENTS



284 Sheffield Street, Mountainside, NJ 07092
 (908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number:

Q1173

7

7.1

| CLIENT INFORMATION | | PROJECT INFORMATION | | | | BILLING INFORMATION | | | | | | | | | | | |
|--|------------------------|---|---|---------|-------------------|--|--|---------------|---|---|---|---|---|---|---|--|----------|
| COMPANY: Tetra Tech ADDRESS: 4433 Corporation Lane Suite 300 CITY: Virginia Beach STATE: VA ZIP: 23462 ATTENTION: Ernie Wu PHONE: 757-466-4901 FAX: 757-461-4148 | | PROJECT NAME: NWIRP Bethpage PROJECT #: 112G08005-WE13 LOCATION: VPB-192 PROJECT MANAGER: Ernie Wu E-MAIL: ernie.wu@tetratech.com PHONE: 757-466-4901 FAX: 757-461-4148 | | | | BILL TO: SEE CONTRACT PO# ADDRESS: CITY: STATE: ZIP: ATTENTION: PHONE: | | | | | | | | | | | |
| DATA TURNAROUND INFORMATION | | DATA DELIVERABLE INFORMATION | | | | ANALYSIS | | | | | | | | | | | |
| FAX: <u>10</u> DAYS* HARD COPY: <u>10</u> DAYS* EDD <u>10</u> DAYS* | | <input type="checkbox"/> RESULTS ONLY <input type="checkbox"/> USEPA CLP <input type="checkbox"/> RESULTS + QC <input type="checkbox"/> New York State ASP "B" <input type="checkbox"/> New Jersey REDUCED <input type="checkbox"/> New York State ASP "A" <input type="checkbox"/> New Jersey CLP <input type="checkbox"/> Other _____ <input type="checkbox"/> EDD Format | | | | VOC(SW46-8260B) 1,4-Dioxane (8270 SIM) 1 2 3 4 5 6 7 8 9 | | | | | | | | | | | |
| PROJECT SAMPLE IDENTIFICATION <u>192</u> NO | | SAMPLE MATRIX | SAMPLE TYPE | | SAMPLE COLLECTION | | # of Bottles | PRESERVATIVES | | | | | | | | | COMMENTS |
| CHEMTECH SAMPLE ID | COMP | | GRAB | DATE | TIME | A | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
| 1. | BP-VPB-192-TB-20250121 | QA | X | 1/21/25 | 9:00 | 2 | 2 | | | | | | | | | Trip Blank | |
| 2. | BP-VPB-192-GW-60-62 | AQ | X | 1/21/25 | 10:55 | 3 | 2 | 1 | | | | | | | | | |
| 3. | BP-VPB-192-GW-100-102 | AQ | X | 1/21/25 | 14:00 | 3 | 2 | 1 | | | | | | | | | |
| 4. | BP-VPB-192-GW-140-142 | AQ | X | 1/22/25 | 11:20 | 3 | 2 | 1 | | | | | | | | | |
| 5. | BP-VPB-192-GW-200-202 | AQ | X | 1/22/25 | 14:45 | 3 | 2 | 1 | | | | | | | | | |
| 6. | VPB-192-HYD-20250122 | AQ | X | 1/22/25 | 15:30 | 3 | 2 | 1 | | | | | | | | | |
| 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: <input type="checkbox"/> Compliant <input type="checkbox"/> Non Compliant <input type="checkbox"/> Cooler Temp <u>2,4°C</u> MeOH extraction requires an additional 4oz. Jar for percent solid Comments: Standard TAT | | | | | | | | | | | | | | |
| 1. | 1/23/25 | 1530 1-23-25 | | | | | | | | | | | | | | | |
| RELINQUISHED BY | DATE/TIME | RECEIVED BY | <input type="checkbox"/> Ice in Cooler?: _____ 2. | | | | | | | | | | | | | | |
| 2. | | | | | | | | | | | | | | | | | |
| RELINQUISHED BY | DATE/TIME | RECEIVED FOR LAB BY | Page <u>1</u> of <u>1</u> | | | | SHIPPED VIA: CLIENT: <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Overnight CHEMTECH: <input type="checkbox"/> Picked Up <input type="checkbox"/> Overnight | | | | | | | | | <u>Shipment Complete</u> | |
| 3. | 1-23-25 | 3. | | | | | | | | | | | | | | <input type="checkbox"/> YES <input type="checkbox"/> NO | |
| WHITE - CHEMTECH COPY FOR 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 : Q1173 | TETR06 | Order Date : 1/23/2025 3:29:00 PM | Project Mgr : Yazmeen |
| Client Name : Tetra Tech NUS, Inc. | | Project Name : CTO WE13 | Report Type : Level 4 |
| Client Contact : Ernie Wu | | Receive DateTime : 1/23/2025 6:20:00 PM | EDD Type : ADAPT |
| Invoice Name : Tetra Tech NUS, Inc. | | Purchase Order : | Hard Copy Date : |
| Invoice Contact : Ernie Wu | | | Date Signoff : 1/24/2025 10:51:03 AM |

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DU ^E DATES |
|----------|------------------------------------|--------|-------------|-------------|--------------|------------|----------|----------|-----------------------|
| Q1173-01 | BP-VPB-192-TB-20250121 | Water | 01/21/2025 | 09:00 | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q1173-02 | BP-VPB-192-GW-60-62 | Water | 01/21/2025 | 10:55 | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q1173-03 | BP-VPB-192-GW-100-102 | Water | 01/21/2025 | 14:00 | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q1173-04 | BP-VPB-192-GW-140-142 | Water | 01/22/2025 | 11:20 | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q1173-05 | BP-VPB-192-GW-200-202 | Water | 01/22/2025 | 14:45 | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q1173-06 | VPB192-HYD-20250122 | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| | BP-VPB-192-HYD-20250122 | Water | 01/22/2025 | 15:30 | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| | YG 02/03/25 | | | | | | | | |

LOGIN REPORT/SAMPLE TRANSFER

| | | | |
|-------------------------------------|--------|---|--------------------------------------|
| Order ID : Q1173 | TETR06 | Order Date : 1/23/2025 3:29:00 PM | Project Mgr : Yazmeen |
| Client Name : Tetra Tech NUS, Inc. | | Project Name : CTO WE13 | Report Type : Level 4 |
| Client Contact : Ernie Wu | | Receive DateTime : 1/23/2025 6:20:00 PM | EDD Type : ADAPT |
| Invoice Name : Tetra Tech NUS, Inc. | | Purchase Order : | Hard Copy Date : |
| Invoice Contact : Ernie Wu | | | Date Signoff : 1/24/2025 10:51:03 AM |

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|--------|-----------|--------|-------------|-------------|------|------------|--------|----------|-----------|
|--------|-----------|--------|-------------|-------------|------|------------|--------|----------|-----------|

Relinquished By : 
 Date / Time : 1-24-25 11:15

Received By : 
 Date / Time : 1-24-25 11:15

Storage Area : VOA Refrigerator Room