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



# LAB CHRONICLE

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

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q2314-01** | **BP-VPB-182-TB-20250610** | **Water** | | | **06/10/25** | | | **06/12/25** |
| | | | VOCMS Group1 | 8260-Low | | | 06/13/25 | |
| **Q2314-02** | **BP-VPB-182-GW-820-822** | **Water** | | | **06/10/25** | | | **06/12/25** |
| | | | VOCMS Group1 | 8260-Low | | | 06/13/25 | |
| **Q2314-04** | **BP-VPB-182-GW-880-882** | **Water** | | | **06/12/25** | | | **06/12/25** |
| | | | VOCMS Group1 | 8260-Low | | | 06/13/25 | |
| **Q2314-05** | **BP-VPB-182-EB-20250612** | **Water** | | | **06/12/25** | | | **06/12/25** |
| | | | VOCMS Group1 | 8260-Low | | | 06/13/25 | |
| **Q2314-06** | **VPB182-HYD-20250612** | **Water** | | | **06/12/25** | | | **06/12/25** |
| | | | VOCMS Group1 | 8260-Low | | | 06/13/25 | |
| **Q2314-08** | **BP-VPB-182-GW-840-842** | **SOIL** | | | **06/11/25** | | | **06/12/25** |
| | | | VOCMS Group1 | 8260D | | | 06/16/25 | |

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Fax : 908 789 8922

# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2314

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

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

# SAMPLE DATA

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# Report of Analysis

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

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

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

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# Report of Analysis

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

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

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

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# Report of Analysis

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

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

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

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

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

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# Report of Analysis

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

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

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

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Fax : 908 789 8922

# Report of Analysis

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

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

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

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Fax : 908 789 8922

# Report of Analysis

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

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

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

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

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

# Report of Analysis

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

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

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

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Fax : 908 789 8922

# Report of Analysis

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

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

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

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# Report of Analysis

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

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

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

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

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

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# Report of Analysis

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

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

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

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Fax : 908 789 8922

# Report of Analysis

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

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

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

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# Report of Analysis

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

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

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

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

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

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Fax : 908 789 8922

# Report of Analysis

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

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

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

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Fax : 908 789 8922

# Report of Analysis

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

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

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

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Fax : 908 789 8922

# Report of Analysis

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

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

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

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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# Report of Analysis

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

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

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

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Fax : 908 789 8922

# Report of Analysis

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

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

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

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# Report of Analysis

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

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

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

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

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

# QC SUMMARY

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# Surrogate Summary

**SDG No.:** Q2314

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

**Analytical Method:** SW8260D

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

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# Surrogate Summary

**SDG No.:** Q2314

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

**Analytical Method:** SW8260-Low

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

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2314

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

**Analytical Method:** SW8260-Low **Datafile :** VN087000.D

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

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Fax : 908 789 8922

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2314

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

**Analytical Method:** SW8260-Low **Datafile :** VN087001.D

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

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2314

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

**Analytical Method:** SW8260D **Datafile :** VY022697.D

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

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2314

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

**Analytical Method:** SW8260D **Datafile :** VY022698.D

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

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VN0613WBL01

Lab Name: CHEMTECH Contract: TETR06

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

Lab File ID: VN086998.D Lab Sample ID: VN0613WBL01

Date Analyzed: 06/13/2025 Time Analyzed: 13:47

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_N

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

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

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY0616SBL01

Lab Name: CHEMTECH Contract: TETR06

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

Lab File ID: VY022696.D Lab Sample ID: VY0616SBL01

Date Analyzed: 06/16/2025 Time Analyzed: 09:40

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

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

COMMENTS:

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

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

Lab File ID: VN086861.D BFB Injection Date: 06/06/2025

Instrument ID: MSVOA_N BFB Injection Time: 07:59

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

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

1-Value is % mass 174 2-Value is % mass 176

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC001 | VSTDICC001 | VN086862.D | 06/06/2025 | 12:44 |
| VSTDICC005 | VSTDICC005 | VN086863.D | 06/06/2025 | 13:17 |
| VSTDICC020 | VSTDICC020 | VN086864.D | 06/06/2025 | 13:40 |
| VSTDICCC050 | VSTDICCC050 | VN086865.D | 06/06/2025 | 14:03 |
| VSTDICC100 | VSTDICC100 | VN086866.D | 06/06/2025 | 14:26 |
| VSTDICC150 | VSTDICC150 | VN086867.D | 06/06/2025 | 14:49 |

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A B C D E F G

# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

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

Lab File ID: VN086995.D BFB Injection Date: 06/13/2025

Instrument ID: MSVOA_N BFB Injection Time: 10:26

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N N

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

1-Value is % mass 174 2-Value is % mass 176

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

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

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

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

Lab File ID: VY022488.D BFB Injection Date: 06/02/2025

Instrument ID: MSVOA_Y BFB Injection Time: 08:31

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

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

1-Value is % mass 174 2-Value is % mass 176

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC005 | VSTDICC005 | VY022491.D | 06/02/2025 | 11:46 |
| VSTDICC010 | VSTDICC010 | VY022492.D | 06/02/2025 | 12:09 |
| VSTDICC020 | VSTDICC020 | VY022493.D | 06/02/2025 | 12:32 |
| VSTDICCC050 | VSTDICCC050 | VY022494.D | 06/02/2025 | 12:54 |
| VSTDICC100 | VSTDICC100 | VY022495.D | 06/02/2025 | 13:17 |
| VSTDICC150 | VSTDICC150 | VY022496.D | 06/02/2025 | 13:39 |

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# VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
## BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: TETR06

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

Lab File ID: VY022694.D BFB Injection Date: 06/16/2025

Instrument ID: MSVOA_Y BFB Injection Time: 07:59

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

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

1-Value is % mass 174 2-Value is % mass 176

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

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

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Fax : 908 789 8922

# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

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

Lab File ID: VN086996.D Date Analyzed: 06/13/2025

Instrument ID: MSVOA_N Time Analyzed: 12:52

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

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

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

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

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

Lab File ID: VN086996.D Date Analyzed: 06/13/2025

Instrument ID: MSVOA_N Time Analyzed: 12:52

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) N

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

IS4 = 1,4-Dichlorobenzene-d4

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

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

Lab File ID: VY022695.D Date Analyzed: 06/16/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:31

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

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

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

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

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

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

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

Lab File ID: VY022695.D Date Analyzed: 06/16/2025

Instrument ID: MSVOA_Y Time Analyzed: 08:31

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

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

IS4 = 1,4-Dichlorobenzene-d4

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

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

# QC SAMPLE DATA

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# Report of Analysis

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

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

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

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# Report of Analysis

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

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

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

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

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

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# Report of Analysis

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

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

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

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Fax : 908 789 8922

# Report of Analysis

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

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

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

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

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

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

# Report of Analysis

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

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

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

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

# Report of Analysis

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

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

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

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

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

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

# Report of Analysis

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

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

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

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

# Report of Analysis

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

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

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

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

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

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

# Report of Analysis

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

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

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

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

# Report of Analysis

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

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

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

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

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

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

# Report of Analysis

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

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

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

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

# Report of Analysis

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

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

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

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

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

# CALIBRATION SUMMARY

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

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

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

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

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

LAB FILE ID: RRF001 = VN086862.D RRF005 = VN086863.D RRF020 = VN086864.D
RRF050 = VN086865.D RRF100 = VN086866.D RRF150 = VN086867.D

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

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

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Fax : 908 789 8922

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

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

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

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

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

LAB FILE ID: RRF001 = VN086862.D RRF005 = VN086863.D RRF020 = VN086864.D
RRF050 = VN086865.D RRF100 = VN086866.D RRF150 = VN086867.D

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

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

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Fax : 908 789 8922

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

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

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

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

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

LAB FILE ID: RRF005 = VY022491.D RRF010 = VY022492.D RRF020 = VY022493.D
RRF050 = VY022494.D RRF100 = VY022495.D RRF150 = VY022496.D

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

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

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

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

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

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

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

LAB FILE ID: RRF005 = VY022491.D RRF010 = VY022492.D RRF020 = VY022493.D
RRF050 = VY022494.D RRF100 = VY022495.D RRF150 = VY022496.D

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

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

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# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

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

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

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

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

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

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

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

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## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

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

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

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

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

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

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

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

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# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

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

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

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

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

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

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

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

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## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

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

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

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

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

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

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

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

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# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

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

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

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

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

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

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

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

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## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

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

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

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

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

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

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

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

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# VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

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

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

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

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

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

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

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

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## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

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

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

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

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

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

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

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

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# LAB CHRONICLE

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

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

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q2314

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

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

# SAMPLE DATA

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

# Report of Analysis

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

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

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

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

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

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Fax : 908 789 8922

# Report of Analysis

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

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

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

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

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

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

# Report of Analysis

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

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

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

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

# QC SUMMARY

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Fax : 908 789 8922

# Surrogate Summary

**SW-846**

**SDG No.:** Q2314

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

**Analytical Method:** 8270-Modified

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

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2314

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

**Analytical Method:** 8270-Modified **DataFile:** BN037280.D

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

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# Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** Q2314

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

**Analytical Method:** 8270-Modified **DataFile:** BN037281.D

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

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168476BL

Lab Name: CHEMTECH Contract: TETR06

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

Lab File ID: BN037274.D Lab Sample ID: PB168476BL

Instrument ID: BNA_N Date Extracted: 06/13/2025

Matrix: (soil/water) Water Date Analyzed: 06/14/2025

Level: (low/med) LOW Time Analyzed: 23:07

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

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

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

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

Lab File ID: BN037223.D DFTPP Injection Date: 06/13/2025

Instrument ID: BNA_N DFTPP Injection Time: 11:34

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

1-Value is % mass 69

2-Value is % mass 442

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

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

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: TETR06

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

Lab File ID: BN037272.D DFTPP Injection Date: 06/14/2025

Instrument ID: BNA_N DFTPP Injection Time: 21:51

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

1-Value is % mass 69

2-Value is % mass 442

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

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

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

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

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

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

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

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

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

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

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

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

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

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

# QC SAMPLE DATA

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

# Report of Analysis

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

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

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

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

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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

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

# Report of Analysis

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

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

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

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Fax : 908 789 8922

# Report of Analysis

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

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

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

U = Not Detected
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# CALIBRATION SUMMARY

Response Factor Report BNA_N

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

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

| | | Compound | 0.1 | 0.2 | 0.4 | 0.8 | 1.6 | 3.2 | 5.0 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | | |
| 2) | | 1,4-Dioxane | | 0.683 | 0.525 | 0.535 | 0.549 | 0.515 | 0.486 | 0.549 | 12.56 |
| 3) | | n-Nitrosodimet... | | 1.357 | 1.277 | 1.208 | 1.295 | 1.232 | 1.134 | 1.250 | 6.18 |
| 4) | S | 2-Fluorophenol | 1.043 | 1.026 | 0.942 | 0.907 | 0.996 | 0.990 | 0.972 | 0.982 | 4.80 |
| 5) | S | Phenol-d6 | 0.875 | 0.937 | 0.963 | 0.986 | 1.148 | 1.166 | 1.173 | 1.035 | 11.94 |
| 6) | | bis(2-Chloroet... | 0.768 | 0.709 | 0.870 | 0.955 | 1.086 | 1.064 | 1.040 | 0.927 | 16.08 |
| 7) | I | Naphthalene-d8 | ----------ISTD---------- | | | | | | | | |
| 8) | S | Nitrobenzene-d5 | 0.366 | 0.304 | 0.384 | 0.377 | 0.440 | 0.442 | 0.453 | 0.395 | 13.53 |
| 9) | | Naphthalene | 1.186 | 1.153 | 1.133 | 1.109 | 1.208 | 1.161 | 1.159 | 1.158 | 2.83 |
| 10) | | Hexachlorobuta... | 0.299 | 0.290 | 0.302 | 0.271 | 0.285 | 0.267 | 0.258 | 0.282 | 5.91 |
| 11) | SURR | 2-Methylnaphth... | 0.496 | 0.504 | 0.557 | 0.520 | 0.576 | 0.552 | 0.553 | 0.537 | 5.64 |
| 12) | | 2-Methylnaphth... | 0.631 | 0.634 | 0.704 | 0.699 | 0.769 | 0.746 | 0.745 | 0.704 | 7.77 |
| 13) | I | Acenaphthene-d10 | ----------ISTD---------- | | | | | | | | |
| 14) | S | 2,4,6-Tribromo... | 0.126 | 0.146 | 0.171 | 0.171 | 0.188 | 0.183 | 0.178 | 0.166 | 13.42 |
| 15) | S | 2-Fluorobiphenyl | 1.566 | 1.530 | 1.699 | 1.658 | 1.822 | 1.777 | 1.715 | 1.681 | 6.31 |
| 16) | | Acenaphthylene | 1.907 | 1.870 | 1.870 | 1.915 | 2.077 | 2.062 | 2.021 | 1.960 | 4.61 |
| 17) | | Acenaphthene | 1.242 | 1.209 | 1.240 | 1.230 | 1.341 | 1.318 | 1.277 | 1.265 | 3.87 |
| 18) | | Fluorene | 1.544 | 1.509 | 1.593 | 1.610 | 1.757 | 1.714 | 1.649 | 1.625 | 5.46 |
| 19) | I | Phenanthrene-d10 | ----------ISTD---------- | | | | | | | | |
| 20) | | 4,6-Dinitro-2-... | | 0.074 | 0.066 | 0.086 | 0.100 | 0.110 | 0.116 | 0.092 | 21.86 |
| 21) | | 4-Bromophenyl-... | 0.248 | 0.248 | 0.244 | 0.256 | 0.278 | 0.276 | 0.273 | 0.261 | 5.65 |
| 22) | | Hexachlorobenzene | 0.342 | 0.318 | 0.311 | 0.284 | 0.297 | 0.284 | 0.279 | 0.302 | 7.65 |
| 23) | | Atrazine | 0.223 | 0.229 | 0.222 | 0.228 | 0.241 | 0.241 | 0.244 | 0.232 | 3.84 |
| 24) | | Pentachlorophenol | | 0.139 | 0.124 | 0.137 | 0.154 | 0.162 | 0.171 | 0.148 | 11.86 |
| 25) | | Phenanthrene | 1.253 | 1.225 | 1.186 | 1.238 | 1.324 | 1.328 | 1.327 | 1.269 | 4.54 |
| 26) | | Anthracene | 1.094 | 1.079 | 1.080 | 1.138 | 1.221 | 1.257 | 1.261 | 1.161 | 7.13 |
| 27) | SURR | Fluoranthene-d10 | 1.015 | 1.073 | 1.053 | 1.017 | 1.053 | 1.043 | 1.073 | 1.046 | 2.27 |
| 28) | | Fluoranthene | 1.470 | 1.508 | 1.412 | 1.449 | 1.509 | 1.510 | 1.537 | 1.485 | 2.94 |
| 29) | I | Chrysene-d12 | ----------ISTD---------- | | | | | | | | |
| 30) | | Pyrene | 1.850 | 1.740 | 1.962 | 1.849 | 2.016 | 1.892 | 1.854 | 1.881 | 4.74 |
| 31) | S | Terphenyl-d14 | 0.815 | 0.845 | 0.946 | 0.871 | 0.990 | 0.939 | 0.924 | 0.904 | 6.89 |
| 32) | | Benzo(a)anthra... | 1.175 | 1.204 | 1.225 | 1.332 | 1.512 | 1.507 | 1.499 | 1.351 | 11.36 |
| 33) | | Chrysene | 1.783 | 1.722 | 1.695 | 1.617 | 1.711 | 1.633 | 1.616 | 1.683 | 3.73 |
| 34) | | Bis(2-ethylhex... | | 1.104 | 1.024 | 1.000 | 1.006 | 0.942 | 0.960 | 1.006 | 5.65 |
| 35) | I | Perylene-d12 | ----------ISTD---------- | | | | | | | | |

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN061325.M

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

(#) = Out of Range

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

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

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

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

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

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

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

All other compounds must meet a minimum RRF of 0.010.

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

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

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

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

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

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

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

All other compounds must meet a minimum RRF of 0.010.