

ANALYTICAL REPORT

PREPARED FOR

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Generated 11/27/2023 4:28:05 AM

JOB DESCRIPTION

Ford LTP - On Site

JOB NUMBER

240-195406-1

Eurofins Cleveland

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization



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Definitions/Glossary

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|---|
| 4 | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| B | Compound was found in the blank and sample. |
| E | Result exceeded calibration range. |
| F1 | MS and/or MSD recovery exceeds control limits. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| U | Indicates the analyte was analyzed for but not detected. |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| □ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Case Narrative

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Job ID: 240-195406-1

Laboratory: Eurofins Cleveland

Narrative

**Job Narrative
240-195406-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/14/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.2°C and 3.4°C

GC/MS VOA

Method 8260D: The method requirement for no headspace was not met. The following volatile sample was analyzed with headspace in the sample container(s): DUP_05 (240-195406-7).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Method Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

| Method | Method Description | Protocol | Laboratory |
|-----------|-------------------------------------|----------|------------|
| 8260D | Volatile Organic Compounds by GC/MS | SW846 | EET CLE |
| 8260D SIM | Volatile Organic Compounds (GC/MS) | SW846 | EET CLE |
| 5030C | Purge and Trap | SW846 | EET CLE |

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396



Sample Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 240-195406-1 | TRIP BLANK_79 | Water | 11/09/23 00:00 | 11/14/23 10:00 |
| 240-195406-2 | MW-66_110923 | Water | 11/09/23 12:30 | 11/14/23 10:00 |
| 240-195406-3 | MW-65_110923 | Water | 11/10/23 14:03 | 11/14/23 10:00 |
| 240-195406-4 | MW-64_111023 | Water | 11/09/23 15:28 | 11/14/23 10:00 |
| 240-195406-5 | DUP_03 | Water | 11/09/23 00:00 | 11/14/23 10:00 |
| 240-195406-6 | MW-23_110923 | Water | 11/09/23 15:40 | 11/14/23 10:00 |
| 240-195406-7 | DUP_05 | Water | 11/09/23 00:00 | 11/14/23 10:00 |
| 240-195406-8 | MW-194_111023 | Water | 11/10/23 11:20 | 11/14/23 10:00 |
| 240-195406-9 | MW-194S_111023 | Water | 11/10/23 12:30 | 11/14/23 10:00 |
| 240-195406-10 | MW-09_111023 | Water | 11/10/23 13:58 | 11/14/23 10:00 |

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Client Sample ID: TRIP BLANK_79

Lab Sample ID: 240-195406-1

No Detections.

Client Sample ID: MW-66_110923

Lab Sample ID: 240-195406-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------------|--------|-----------|-----|------|------|---------|---|-----------|-----------|
| 1,4-Dioxane | 1.7 | J | 2.0 | 0.86 | ug/L | 1 | | 8260D SIM | Total/NA |
| Vinyl chloride | 1.8 | | 1.0 | 0.45 | ug/L | 1 | | 8260D | Total/NA |

Client Sample ID: MW-65_110923

Lab Sample ID: 240-195406-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 4.2 | | 1.0 | 0.46 | ug/L | 1 | | 8260D | Total/NA |
| Vinyl chloride | 7.8 | | 1.0 | 0.45 | ug/L | 1 | | 8260D | Total/NA |

Client Sample ID: MW-64_111023

Lab Sample ID: 240-195406-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 0.76 | J | 1.0 | 0.46 | ug/L | 1 | | 8260D | Total/NA |
| Vinyl chloride | 4.0 | | 1.0 | 0.45 | ug/L | 1 | | 8260D | Total/NA |

Client Sample ID: DUP_03

Lab Sample ID: 240-195406-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 4.5 | | 1.0 | 0.46 | ug/L | 1 | | 8260D | Total/NA |
| Vinyl chloride | 9.2 | | 1.0 | 0.45 | ug/L | 1 | | 8260D | Total/NA |

Client Sample ID: MW-23_110923

Lab Sample ID: 240-195406-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 11000 | | 500 | 230 | ug/L | 500 | | 8260D | Total/NA |
| trans-1,2-Dichloroethene | 420 | J | 500 | 260 | ug/L | 500 | | 8260D | Total/NA |
| Trichloroethene | 690 | | 500 | 220 | ug/L | 500 | | 8260D | Total/NA |
| Vinyl chloride | 630 | | 500 | 230 | ug/L | 500 | | 8260D | Total/NA |

Client Sample ID: DUP_05

Lab Sample ID: 240-195406-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 9900 | B | 200 | 92 | ug/L | 200 | | 8260D | Total/NA |
| trans-1,2-Dichloroethene | 400 | | 200 | 100 | ug/L | 200 | | 8260D | Total/NA |
| Trichloroethene | 550 | | 200 | 88 | ug/L | 200 | | 8260D | Total/NA |
| Vinyl chloride | 520 | | 200 | 90 | ug/L | 200 | | 8260D | Total/NA |

Client Sample ID: MW-194_111023

Lab Sample ID: 240-195406-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 0.50 | J B | 1.0 | 0.46 | ug/L | 1 | | 8260D | Total/NA |

Client Sample ID: MW-194S_111023

Lab Sample ID: 240-195406-9

No Detections.

Client Sample ID: MW-09_111023

Lab Sample ID: 240-195406-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------------|--------|-----------|-----|------|------|---------|---|-----------|-----------|
| 1,4-Dioxane | 4.2 | | 2.0 | 0.86 | ug/L | 1 | | 8260D SIM | Total/NA |
| Vinyl chloride | 0.93 | J | 1.0 | 0.45 | ug/L | 1 | | 8260D | Total/NA |

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: ARCADIS US Inc
 Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Client Sample ID: TRIP BLANK_79

Lab Sample ID: 240-195406-1

Date Collected: 11/09/23 00:00

Matrix: Water

Date Received: 11/14/23 10:00

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/19/23 20:01 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/19/23 20:01 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 20:01 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/19/23 20:01 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 20:01 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/19/23 20:01 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 62 - 137 | | 11/19/23 20:01 | 1 |
| 4-Bromofluorobenzene (Surr) | 84 | | 56 - 136 | | 11/19/23 20:01 | 1 |
| Toluene-d8 (Surr) | 105 | | 78 - 122 | | 11/19/23 20:01 | 1 |
| Dibromofluoromethane (Surr) | 94 | | 73 - 120 | | 11/19/23 20:01 | 1 |

Client Sample Results

Client: ARCADIS US Inc
 Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Client Sample ID: MW-66_110923

Lab Sample ID: 240-195406-2

Date Collected: 11/09/23 12:30

Matrix: Water

Date Received: 11/14/23 10:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 1.7 | J | 2.0 | 0.86 | ug/L | | | 11/22/23 22:39 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 66 - 120 | | | | | 11/22/23 22:39 | 1 |

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/19/23 00:17 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/19/23 00:17 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 00:17 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/19/23 00:17 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 00:17 | 1 |
| Vinyl chloride | 1.8 | | 1.0 | 0.45 | ug/L | | | 11/19/23 00:17 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 62 - 137 | | | | | 11/19/23 00:17 | 1 |
| 4-Bromofluorobenzene (Surr) | 74 | | 56 - 136 | | | | | 11/19/23 00:17 | 1 |
| Toluene-d8 (Surr) | 88 | | 78 - 122 | | | | | 11/19/23 00:17 | 1 |
| Dibromofluoromethane (Surr) | 90 | | 73 - 120 | | | | | 11/19/23 00:17 | 1 |

Client Sample Results

Client: ARCADIS US Inc
 Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Client Sample ID: MW-65_110923

Lab Sample ID: 240-195406-3

Date Collected: 11/10/23 14:03

Matrix: Water

Date Received: 11/14/23 10:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 11/24/23 19:30 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 66 - 120 | | | | | 11/24/23 19:30 | 1 |

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/19/23 00:42 | 1 |
| cis-1,2-Dichloroethene | 4.2 | | 1.0 | 0.46 | ug/L | | | 11/19/23 00:42 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 00:42 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/19/23 00:42 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 00:42 | 1 |
| Vinyl chloride | 7.8 | | 1.0 | 0.45 | ug/L | | | 11/19/23 00:42 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 62 - 137 | | | | | 11/19/23 00:42 | 1 |
| 4-Bromofluorobenzene (Surr) | 76 | | 56 - 136 | | | | | 11/19/23 00:42 | 1 |
| Toluene-d8 (Surr) | 89 | | 78 - 122 | | | | | 11/19/23 00:42 | 1 |
| Dibromofluoromethane (Surr) | 92 | | 73 - 120 | | | | | 11/19/23 00:42 | 1 |

Client Sample Results

Client: ARCADIS US Inc
 Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Client Sample ID: MW-64_111023

Lab Sample ID: 240-195406-4

Date Collected: 11/09/23 15:28

Matrix: Water

Date Received: 11/14/23 10:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 11/22/23 23:03 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 66 - 120 | | | | | 11/22/23 23:03 | 1 |

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/19/23 01:07 | 1 |
| cis-1,2-Dichloroethene | 0.76 | J | 1.0 | 0.46 | ug/L | | | 11/19/23 01:07 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 01:07 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/19/23 01:07 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 01:07 | 1 |
| Vinyl chloride | 4.0 | | 1.0 | 0.45 | ug/L | | | 11/19/23 01:07 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 62 - 137 | | | | | 11/19/23 01:07 | 1 |
| 4-Bromofluorobenzene (Surr) | 74 | | 56 - 136 | | | | | 11/19/23 01:07 | 1 |
| Toluene-d8 (Surr) | 90 | | 78 - 122 | | | | | 11/19/23 01:07 | 1 |
| Dibromofluoromethane (Surr) | 92 | | 73 - 120 | | | | | 11/19/23 01:07 | 1 |

Client Sample Results

Client: ARCADIS US Inc
 Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Client Sample ID: DUP_03

Lab Sample ID: 240-195406-5

Date Collected: 11/09/23 00:00

Matrix: Water

Date Received: 11/14/23 10:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 11/22/23 17:52 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 66 - 120 | | | | | 11/22/23 17:52 | 1 |

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/19/23 01:31 | 1 |
| cis-1,2-Dichloroethene | 4.5 | | 1.0 | 0.46 | ug/L | | | 11/19/23 01:31 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 01:31 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/19/23 01:31 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 01:31 | 1 |
| Vinyl chloride | 9.2 | | 1.0 | 0.45 | ug/L | | | 11/19/23 01:31 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 115 | | 62 - 137 | | | | | 11/19/23 01:31 | 1 |
| 4-Bromofluorobenzene (Surr) | 77 | | 56 - 136 | | | | | 11/19/23 01:31 | 1 |
| Toluene-d8 (Surr) | 92 | | 78 - 122 | | | | | 11/19/23 01:31 | 1 |
| Dibromofluoromethane (Surr) | 97 | | 73 - 120 | | | | | 11/19/23 01:31 | 1 |

Client Sample Results

Client: ARCADIS US Inc
 Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Client Sample ID: MW-23_110923

Lab Sample ID: 240-195406-6

Date Collected: 11/09/23 15:40

Matrix: Water

Date Received: 11/14/23 10:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 11/22/23 18:16 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 66 - 120 | | | | | 11/22/23 18:16 | 1 |

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|--------------|-----------|----------|-----|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 500 | U | 500 | 250 | ug/L | | | 11/19/23 01:56 | 500 |
| cis-1,2-Dichloroethene | 11000 | | 500 | 230 | ug/L | | | 11/19/23 01:56 | 500 |
| Tetrachloroethene | 500 | U | 500 | 220 | ug/L | | | 11/19/23 01:56 | 500 |
| trans-1,2-Dichloroethene | 420 | J | 500 | 260 | ug/L | | | 11/19/23 01:56 | 500 |
| Trichloroethene | 690 | | 500 | 220 | ug/L | | | 11/19/23 01:56 | 500 |
| Vinyl chloride | 630 | | 500 | 230 | ug/L | | | 11/19/23 01:56 | 500 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 62 - 137 | | | | | 11/19/23 01:56 | 500 |
| 4-Bromofluorobenzene (Surr) | 74 | | 56 - 136 | | | | | 11/19/23 01:56 | 500 |
| Toluene-d8 (Surr) | 90 | | 78 - 122 | | | | | 11/19/23 01:56 | 500 |
| Dibromofluoromethane (Surr) | 92 | | 73 - 120 | | | | | 11/19/23 01:56 | 500 |

Client Sample Results

Client: ARCADIS US Inc
 Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Client Sample ID: DUP_05

Lab Sample ID: 240-195406-7

Date Collected: 11/09/23 00:00

Matrix: Water

Date Received: 11/14/23 10:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 11/22/23 18:40 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 66 - 120 | | | | | 11/22/23 18:40 | 1 |

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|-------------|-----------|----------|-----|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 200 | U | 200 | 98 | ug/L | | | 11/19/23 18:51 | 200 |
| cis-1,2-Dichloroethene | 9900 | B | 200 | 92 | ug/L | | | 11/19/23 18:51 | 200 |
| Tetrachloroethene | 200 | U | 200 | 88 | ug/L | | | 11/19/23 18:51 | 200 |
| trans-1,2-Dichloroethene | 400 | | 200 | 100 | ug/L | | | 11/19/23 18:51 | 200 |
| Trichloroethene | 550 | | 200 | 88 | ug/L | | | 11/19/23 18:51 | 200 |
| Vinyl chloride | 520 | | 200 | 90 | ug/L | | | 11/19/23 18:51 | 200 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 62 - 137 | | | | | 11/19/23 18:51 | 200 |
| 4-Bromofluorobenzene (Surr) | 76 | | 56 - 136 | | | | | 11/19/23 18:51 | 200 |
| Toluene-d8 (Surr) | 91 | | 78 - 122 | | | | | 11/19/23 18:51 | 200 |
| Dibromofluoromethane (Surr) | 91 | | 73 - 120 | | | | | 11/19/23 18:51 | 200 |

Client Sample Results

Client: ARCADIS US Inc
 Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Client Sample ID: MW-194_111023

Lab Sample ID: 240-195406-8

Date Collected: 11/10/23 11:20

Matrix: Water

Date Received: 11/14/23 10:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 11/24/23 14:18 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 66 - 120 | | | | | 11/24/23 14:18 | 1 |

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|------------|----------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/19/23 19:16 | 1 |
| cis-1,2-Dichloroethene | 0.50 | J B | 1.0 | 0.46 | ug/L | | | 11/19/23 19:16 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 19:16 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/19/23 19:16 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 19:16 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/19/23 19:16 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 121 | | 62 - 137 | | | | | 11/19/23 19:16 | 1 |
| 4-Bromofluorobenzene (Surr) | 82 | | 56 - 136 | | | | | 11/19/23 19:16 | 1 |
| Toluene-d8 (Surr) | 102 | | 78 - 122 | | | | | 11/19/23 19:16 | 1 |
| Dibromofluoromethane (Surr) | 105 | | 73 - 120 | | | | | 11/19/23 19:16 | 1 |

Client Sample Results

Client: ARCADIS US Inc
 Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Client Sample ID: MW-194S_111023

Lab Sample ID: 240-195406-9

Date Collected: 11/10/23 12:30

Matrix: Water

Date Received: 11/14/23 10:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 11/24/23 14:42 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 66 - 120 | | | | | 11/24/23 14:42 | 1 |

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/19/23 19:40 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/19/23 19:40 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 19:40 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/19/23 19:40 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 19:40 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/19/23 19:40 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 62 - 137 | | | | | 11/19/23 19:40 | 1 |
| 4-Bromofluorobenzene (Surr) | 75 | | 56 - 136 | | | | | 11/19/23 19:40 | 1 |
| Toluene-d8 (Surr) | 90 | | 78 - 122 | | | | | 11/19/23 19:40 | 1 |
| Dibromofluoromethane (Surr) | 94 | | 73 - 120 | | | | | 11/19/23 19:40 | 1 |

Client Sample Results

Client: ARCADIS US Inc
 Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Client Sample ID: MW-09_111023

Lab Sample ID: 240-195406-10

Date Collected: 11/10/23 13:58

Matrix: Water

Date Received: 11/14/23 10:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 4.2 | | 2.0 | 0.86 | ug/L | | | 11/24/23 15:06 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 66 - 120 | | | | | 11/24/23 15:06 | 1 |

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/19/23 20:05 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/19/23 20:05 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 20:05 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/19/23 20:05 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 20:05 | 1 |
| Vinyl chloride | 0.93 | J | 1.0 | 0.45 | ug/L | | | 11/19/23 20:05 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 62 - 137 | | | | | 11/19/23 20:05 | 1 |
| 4-Bromofluorobenzene (Surr) | 72 | | 56 - 136 | | | | | 11/19/23 20:05 | 1 |
| Toluene-d8 (Surr) | 87 | | 78 - 122 | | | | | 11/19/23 20:05 | 1 |
| Dibromofluoromethane (Surr) | 87 | | 73 - 120 | | | | | 11/19/23 20:05 | 1 |

Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | | |
|--------------------|------------------------|--|-----------------|-----------------|------------------|
| | | DCA (62-137) | BFB (56-136) | TOL (78-122) | DBFM (73-120) |
| 240-195284-B-4 MS | Matrix Spike | 98 | 90 | 104 | 95 |
| 240-195284-B-4 MSD | Matrix Spike Duplicate | 100 | 90 | 106 | 96 |
| 240-195326-E-2 MS | Matrix Spike | 103 | 88 | 91 | 92 |
| 240-195326-I-2 MSD | Matrix Spike Duplicate | 99 | 84 | 89 | 90 |
| 240-195406-1 | TRIP BLANK_79 | 102 | 84 | 105 | 94 |
| 240-195406-2 | MW-66_110923 | 106 | 74 | 88 | 90 |
| 240-195406-3 | MW-65_110923 | 108 | 76 | 89 | 92 |
| 240-195406-4 | MW-64_111023 | 108 | 74 | 90 | 92 |
| 240-195406-5 | DUP_03 | 115 | 77 | 92 | 97 |
| 240-195406-6 | MW-23_110923 | 107 | 74 | 90 | 92 |
| 240-195406-7 | DUP_05 | 108 | 76 | 91 | 91 |
| 240-195406-8 | MW-194_111023 | 121 | 82 | 102 | 105 |
| 240-195406-9 | MW-194S_111023 | 108 | 75 | 90 | 94 |
| 240-195406-10 | MW-09_111023 | 104 | 72 | 87 | 87 |
| 240-195409-A-3 MS | Matrix Spike | 100 | 87 | 89 | 93 |
| 240-195409-F-3 MSD | Matrix Spike Duplicate | 97 | 84 | 89 | 89 |
| LCS 240-595138/5 | Lab Control Sample | 100 | 84 | 91 | 93 |
| LCS 240-595140/5 | Lab Control Sample | 102 | 89 | 107 | 98 |
| LCS 240-595154/5 | Lab Control Sample | 105 | 87 | 94 | 97 |
| MB 240-595138/8 | Method Blank | 105 | 78 | 91 | 90 |
| MB 240-595140/9 | Method Blank | 107 | 88 | 107 | 98 |
| MB 240-595154/8 | Method Blank | 110 | 75 | 90 | 95 |

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) |
|--------------------|------------------------|--|
| | | DCA (66-120) |
| 240-195177-C-7 MS | Matrix Spike | 98 |
| 240-195177-D-7 MSD | Matrix Spike Duplicate | 100 |
| 240-195207-G-2 MS | Matrix Spike | 99 |
| 240-195207-N-2 MSD | Matrix Spike Duplicate | 103 |
| 240-195406-2 | MW-66_110923 | 96 |
| 240-195406-3 | MW-65_110923 | 97 |
| 240-195406-4 | MW-64_111023 | 98 |
| 240-195406-5 | DUP_03 | 101 |
| 240-195406-6 | MW-23_110923 | 105 |
| 240-195406-7 | DUP_05 | 107 |
| 240-195406-8 | MW-194_111023 | 100 |
| 240-195406-9 | MW-194S_111023 | 100 |
| 240-195406-10 | MW-09_111023 | 101 |
| 240-195409-G-3 MS | Matrix Spike | 95 |
| 240-195409-M-3 MSD | Matrix Spike Duplicate | 96 |

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Surrogate Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | DCA (66-120) |
|------------------|--------------------|-----------------|
| LCS 240-595507/4 | Lab Control Sample | 99 |
| LCS 240-595638/4 | Lab Control Sample | 101 |
| LCS 240-595685/4 | Lab Control Sample | 99 |
| MB 240-595507/6 | Method Blank | 98 |
| MB 240-595638/5 | Method Blank | 101 |
| MB 240-595685/5 | Method Blank | 100 |

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 240-595138/8

Matrix: Water

Analysis Batch: 595138

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/18/23 23:04 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/18/23 23:04 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/18/23 23:04 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/18/23 23:04 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/18/23 23:04 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/18/23 23:04 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 62 - 137 | | 11/18/23 23:04 | 1 |
| 4-Bromofluorobenzene (Surr) | 78 | | 56 - 136 | | 11/18/23 23:04 | 1 |
| Toluene-d8 (Surr) | 91 | | 78 - 122 | | 11/18/23 23:04 | 1 |
| Dibromofluoromethane (Surr) | 90 | | 73 - 120 | | 11/18/23 23:04 | 1 |

Lab Sample ID: LCS 240-595138/5

Matrix: Water

Analysis Batch: 595138

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------|-------------|------------|---------------|------|---|------|-------------|
| | | | | | | | |
| cis-1,2-Dichloroethene | 25.0 | 22.1 | | ug/L | | 89 | 77 - 123 |
| Tetrachloroethene | 25.0 | 23.4 | | ug/L | | 94 | 76 - 123 |
| trans-1,2-Dichloroethene | 25.0 | 23.7 | | ug/L | | 95 | 75 - 124 |
| Trichloroethene | 25.0 | 22.8 | | ug/L | | 91 | 70 - 122 |
| Vinyl chloride | 12.5 | 11.7 | | ug/L | | 94 | 60 - 144 |

| Surrogate | LCS | LCS | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 84 | | 56 - 136 |
| Toluene-d8 (Surr) | 91 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 93 | | 73 - 120 |

Lab Sample ID: 240-195409-A-3 MS

Matrix: Water

Analysis Batch: 595138

Client Sample ID: Matrix Spike

Prep Type: Total/NA

| Analyte | Sample | Sample | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------|--------|-----------|-------------|-----------|--------------|------|---|------|-------------|
| | Result | Qualifier | | | | | | | |
| 1,1-Dichloroethene | 1.0 | U | 25.0 | 24.4 | | ug/L | | 98 | 56 - 135 |
| cis-1,2-Dichloroethene | 3.0 | | 25.0 | 30.4 | | ug/L | | 110 | 66 - 128 |
| Tetrachloroethene | 1.0 | U | 25.0 | 22.4 | | ug/L | | 90 | 62 - 131 |
| trans-1,2-Dichloroethene | 1.0 | U | 25.0 | 23.1 | | ug/L | | 92 | 56 - 136 |
| Trichloroethene | 57 | F1 | 25.0 | 64.6 | E F1 | ug/L | | 31 | 61 - 124 |
| Vinyl chloride | 1.0 | U | 12.5 | 12.0 | | ug/L | | 96 | 43 - 157 |

| Surrogate | MS | MS | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 87 | | 56 - 136 |
| Toluene-d8 (Surr) | 89 | | 78 - 122 |

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QC Sample Results

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 240-195409-A-3 MS
Matrix: Water
Analysis Batch: 595138

Client Sample ID: Matrix Spike
Prep Type: Total/NA

| Surrogate | MS MS | | Limits |
|-----------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| Dibromofluoromethane (Surr) | 93 | | 73 - 120 |

Lab Sample ID: 240-195409-F-3 MSD
Matrix: Water
Analysis Batch: 595138

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec | RPD | Limit |
|--------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | | |
| 1,1-Dichloroethene | 1.0 | U | 25.0 | 24.8 | | ug/L | | 99 | 56 - 135 | 1 | 26 |
| cis-1,2-Dichloroethene | 3.0 | | 25.0 | 26.5 | | ug/L | | 94 | 66 - 128 | 14 | 14 |
| Tetrachloroethene | 1.0 | U | 25.0 | 21.9 | | ug/L | | 88 | 62 - 131 | 2 | 20 |
| trans-1,2-Dichloroethene | 1.0 | U | 25.0 | 21.3 | | ug/L | | 85 | 56 - 136 | 8 | 15 |
| Trichloroethene | 57 | F1 | 25.0 | 69.9 | E F1 | ug/L | | 52 | 61 - 124 | 8 | 15 |
| Vinyl chloride | 1.0 | U | 12.5 | 12.8 | | ug/L | | 102 | 43 - 157 | 6 | 24 |

| Surrogate | MSD MSD | | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 84 | | 56 - 136 |
| Toluene-d8 (Surr) | 89 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 89 | | 73 - 120 |

Lab Sample ID: MB 240-595140/9
Matrix: Water
Analysis Batch: 595140

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/19/23 15:12 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/19/23 15:12 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 15:12 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/19/23 15:12 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 15:12 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/19/23 15:12 | 1 |

| Surrogate | MB MB | | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 62 - 137 | | 11/19/23 15:12 | 1 |
| 4-Bromofluorobenzene (Surr) | 88 | | 56 - 136 | | 11/19/23 15:12 | 1 |
| Toluene-d8 (Surr) | 107 | | 78 - 122 | | 11/19/23 15:12 | 1 |
| Dibromofluoromethane (Surr) | 98 | | 73 - 120 | | 11/19/23 15:12 | 1 |

Lab Sample ID: LCS 240-595140/5
Matrix: Water
Analysis Batch: 595140

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS | LCS | Unit | D | %Rec | %Rec |
|--------------------------|-------------|--------|-----------|------|---|------|----------|
| | | Result | Qualifier | | | | Limits |
| 1,1-Dichloroethene | 20.0 | 17.8 | | ug/L | | 89 | 63 - 134 |
| cis-1,2-Dichloroethene | 20.0 | 17.2 | | ug/L | | 86 | 77 - 123 |
| Tetrachloroethene | 20.0 | 19.7 | | ug/L | | 99 | 76 - 123 |
| trans-1,2-Dichloroethene | 20.0 | 17.0 | | ug/L | | 85 | 75 - 124 |
| Trichloroethene | 20.0 | 16.8 | | ug/L | | 84 | 70 - 122 |

Eurofins Cleveland

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 240-595140/5

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 595140

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|-------------|------------|---------------|------|---|------|-------------|
| Vinyl chloride | 20.0 | 19.9 | | ug/L | | 100 | 60 - 144 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 89 | | 56 - 136 |
| Toluene-d8 (Surr) | 107 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 98 | | 73 - 120 |

Lab Sample ID: 240-195284-B-4 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 595140

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| 1,1-Dichloroethene | 20 | U | 400 | 335 | | ug/L | | 84 | 56 - 135 |
| cis-1,2-Dichloroethene | 510 | | 400 | 853 | | ug/L | | 85 | 66 - 128 |
| Tetrachloroethene | 20 | U | 400 | 371 | | ug/L | | 93 | 62 - 131 |
| trans-1,2-Dichloroethene | 20 | U | 400 | 336 | | ug/L | | 84 | 56 - 136 |
| Trichloroethene | 20 | U | 400 | 324 | | ug/L | | 81 | 61 - 124 |
| Vinyl chloride | 380 | | 400 | 769 | | ug/L | | 96 | 43 - 157 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|------------------------------|--------------|--------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 90 | | 56 - 136 |
| Toluene-d8 (Surr) | 104 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 95 | | 73 - 120 |

Lab Sample ID: 240-195284-B-4 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 595140

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| 1,1-Dichloroethene | 20 | U | 400 | 355 | | ug/L | | 89 | 56 - 135 | 6 | 26 |
| cis-1,2-Dichloroethene | 510 | | 400 | 878 | | ug/L | | 91 | 66 - 128 | 3 | 14 |
| Tetrachloroethene | 20 | U | 400 | 398 | | ug/L | | 99 | 62 - 131 | 7 | 20 |
| trans-1,2-Dichloroethene | 20 | U | 400 | 363 | | ug/L | | 91 | 56 - 136 | 8 | 15 |
| Trichloroethene | 20 | U | 400 | 349 | | ug/L | | 87 | 61 - 124 | 7 | 15 |
| Vinyl chloride | 380 | | 400 | 760 | | ug/L | | 94 | 43 - 157 | 1 | 24 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 90 | | 56 - 136 |
| Toluene-d8 (Surr) | 106 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 96 | | 73 - 120 |

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 240-595154/8

Matrix: Water

Analysis Batch: 595154

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/19/23 17:12 | 1 |
| cis-1,2-Dichloroethene | 0.605 | J | 1.0 | 0.46 | ug/L | | | 11/19/23 17:12 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 17:12 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/19/23 17:12 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 17:12 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/19/23 17:12 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 62 - 137 | | 11/19/23 17:12 | 1 |
| 4-Bromofluorobenzene (Surr) | 75 | | 56 - 136 | | 11/19/23 17:12 | 1 |
| Toluene-d8 (Surr) | 90 | | 78 - 122 | | 11/19/23 17:12 | 1 |
| Dibromofluoromethane (Surr) | 95 | | 73 - 120 | | 11/19/23 17:12 | 1 |

Lab Sample ID: LCS 240-595154/5

Matrix: Water

Analysis Batch: 595154

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------|-------------|------------|---------------|------|---|------|-------------|
| | | | | | | | |
| cis-1,2-Dichloroethene | 25.0 | 23.2 | | ug/L | | 93 | 77 - 123 |
| Tetrachloroethene | 25.0 | 24.1 | | ug/L | | 96 | 76 - 123 |
| trans-1,2-Dichloroethene | 25.0 | 23.5 | | ug/L | | 94 | 75 - 124 |
| Trichloroethene | 25.0 | 22.6 | | ug/L | | 90 | 70 - 122 |
| Vinyl chloride | 12.5 | 12.3 | | ug/L | | 98 | 60 - 144 |

| Surrogate | LCS | LCS | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 87 | | 56 - 136 |
| Toluene-d8 (Surr) | 94 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 97 | | 73 - 120 |

Lab Sample ID: 240-195326-E-2 MS

Matrix: Water

Analysis Batch: 595154

Client Sample ID: Matrix Spike

Prep Type: Total/NA

| Analyte | Sample | Sample | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------|--------|-----------|-------------|-----------|--------------|------|---|------|-------------|
| | Result | Qualifier | | | | | | | |
| cis-1,2-Dichloroethene | 1.0 | U | 25.0 | 22.2 | | ug/L | | 89 | 66 - 128 |
| trans-1,2-Dichloroethene | 1.0 | U | 25.0 | 22.7 | | ug/L | | 91 | 56 - 136 |
| Trichloroethene | 1.0 | U | 25.0 | 22.6 | | ug/L | | 90 | 61 - 124 |
| Vinyl chloride | 1.0 | U | 12.5 | 11.2 | | ug/L | | 90 | 43 - 157 |

| Surrogate | MS | MS | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 88 | | 56 - 136 |
| Toluene-d8 (Surr) | 91 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 92 | | 73 - 120 |

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 240-195326-I-2 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 595154

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec | RPD | Limit |
|--------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits | | |
| cis-1,2-Dichloroethene | 1.0 | U | 25.0 | 21.5 | | ug/L | | 86 | 66 - 128 | 3 | 14 |
| trans-1,2-Dichloroethene | 1.0 | U | 25.0 | 22.6 | | ug/L | | 91 | 56 - 136 | 0 | 15 |
| Trichloroethene | 1.0 | U | 25.0 | 22.6 | | ug/L | | 90 | 61 - 124 | 0 | 15 |
| Vinyl chloride | 1.0 | U | 12.5 | 11.4 | | ug/L | | 91 | 43 - 157 | 2 | 24 |

| Surrogate | MSD | MSD | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 84 | | 56 - 136 |
| Toluene-d8 (Surr) | 89 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 90 | | 73 - 120 |

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-595507/6

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 595507

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 11/22/23 09:09 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 66 - 120 | | 11/22/23 09:09 | 1 |

Lab Sample ID: LCS 240-595507/4

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 595507

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | %Rec |
|-------------|-------|--------|-----------|------|---|------|----------|
| | | Result | Qualifier | | | | Limits |
| 1,4-Dioxane | 10.0 | 10.2 | | ug/L | | 102 | 80 - 122 |

| Surrogate | LCS | LCS | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 66 - 120 |

Lab Sample ID: 240-195207-G-2 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 595507

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec |
|-------------|--------|-----------|-------|--------|-----------|------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | Limits |
| 1,4-Dioxane | 2.0 | U | 10.0 | 10.2 | | ug/L | | 102 | 51 - 153 |

| Surrogate | MS | MS | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 66 - 120 |

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 240-195207-N-2 MSD
Matrix: Water
Analysis Batch: 595507

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------------------------|------------------|----------------------|---------------|------------|---------------|------|---|------|-------------|-----|-----------|
| 1,4-Dioxane | 2.0 | U | 10.0 | 10.3 | | ug/L | | 103 | 51 - 153 | 2 | 16 |
| Surrogate | %Recovery | MSD Qualifier | Limits | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 66 - 120 | | | | | | | | |

Lab Sample ID: MB 240-595638/5
Matrix: Water
Analysis Batch: 595638

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | |
|------------------------------|------------------|---------------------|---------------|-----------------|-----------------|----------------|----------|----------------|---------|--|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 11/22/23 15:25 | 1 | |
| Surrogate | %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 66 - 120 | | 11/22/23 15:25 | 1 | | | | |

Lab Sample ID: LCS 240-595638/4
Matrix: Water
Analysis Batch: 595638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------------|------------------|----------------------|---------------|------|---|------|-------------|
| 1,4-Dioxane | 10.0 | 9.96 | | ug/L | | 100 | 80 - 122 |
| Surrogate | %Recovery | LCS Qualifier | Limits | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 66 - 120 | | | | |

Lab Sample ID: 240-195177-C-7 MS
Matrix: Water
Analysis Batch: 595638

Client Sample ID: Matrix Spike
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------------|------------------|---------------------|---------------|-----------|--------------|------|---|------|-------------|
| 1,4-Dioxane | 280 | | 20.0 | 309 | 4 | ug/L | | 121 | 51 - 153 |
| Surrogate | %Recovery | MS Qualifier | Limits | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 66 - 120 | | | | | | |

Lab Sample ID: 240-195177-D-7 MSD
Matrix: Water
Analysis Batch: 595638

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------------------------|------------------|----------------------|---------------|------------|---------------|------|---|------|-------------|-----|-----------|
| 1,4-Dioxane | 280 | | 20.0 | 313 | 4 | ug/L | | 144 | 51 - 153 | 2 | 16 |
| Surrogate | %Recovery | MSD Qualifier | Limits | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 66 - 120 | | | | | | | | |

QC Sample Results

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-595685/5
Matrix: Water
Analysis Batch: 595685

Client Sample ID: Method Blank
Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 11/24/23 13:54 | 1 |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 66 - 120 | | | | | 11/24/23 13:54 | 1 |

Lab Sample ID: LCS 240-595685/4
Matrix: Water
Analysis Batch: 595685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------------|---------------|---------------|---------------|------|---|------|-------------|
| 1,4-Dioxane | 10.0 | 10.1 | | ug/L | | 101 | 80 - 122 |
| Surrogate | LCS %Recovery | LCS Qualifier | Limits | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 99 | | 66 - 120 | | | | |

Lab Sample ID: 240-195409-G-3 MS
Matrix: Water
Analysis Batch: 595685

Client Sample ID: Matrix Spike
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec Limits |
|------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| 1,4-Dioxane | 2.0 | U | 10.0 | 12.4 | | ug/L | | 124 | 51 - 153 |
| Surrogate | MS %Recovery | MS Qualifier | Limits | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 66 - 120 | | | | | | |

Lab Sample ID: 240-195409-M-3 MSD
Matrix: Water
Analysis Batch: 595685

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|------------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| 1,4-Dioxane | 2.0 | U | 10.0 | 11.3 | | ug/L | | 113 | 51 - 153 | 9 | 16 |
| Surrogate | MSD %Recovery | MSD Qualifier | Limits | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 66 - 120 | | | | | | | | |

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

GC/MS VOA

Analysis Batch: 595138

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 240-195406-2 | MW-66_110923 | Total/NA | Water | 8260D | |
| 240-195406-3 | MW-65_110923 | Total/NA | Water | 8260D | |
| 240-195406-4 | MW-64_111023 | Total/NA | Water | 8260D | |
| 240-195406-5 | DUP_03 | Total/NA | Water | 8260D | |
| 240-195406-6 | MW-23_110923 | Total/NA | Water | 8260D | |
| MB 240-595138/8 | Method Blank | Total/NA | Water | 8260D | |
| LCS 240-595138/5 | Lab Control Sample | Total/NA | Water | 8260D | |
| 240-195409-A-3 MS | Matrix Spike | Total/NA | Water | 8260D | |
| 240-195409-F-3 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D | |

Analysis Batch: 595140

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 240-195406-1 | TRIP BLANK_79 | Total/NA | Water | 8260D | |
| MB 240-595140/9 | Method Blank | Total/NA | Water | 8260D | |
| LCS 240-595140/5 | Lab Control Sample | Total/NA | Water | 8260D | |
| 240-195284-B-4 MS | Matrix Spike | Total/NA | Water | 8260D | |
| 240-195284-B-4 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D | |

Analysis Batch: 595154

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 240-195406-7 | DUP_05 | Total/NA | Water | 8260D | |
| 240-195406-8 | MW-194_111023 | Total/NA | Water | 8260D | |
| 240-195406-9 | MW-194S_111023 | Total/NA | Water | 8260D | |
| 240-195406-10 | MW-09_111023 | Total/NA | Water | 8260D | |
| MB 240-595154/8 | Method Blank | Total/NA | Water | 8260D | |
| LCS 240-595154/5 | Lab Control Sample | Total/NA | Water | 8260D | |
| 240-195326-E-2 MS | Matrix Spike | Total/NA | Water | 8260D | |
| 240-195326-I-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D | |

Analysis Batch: 595507

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 240-195406-5 | DUP_03 | Total/NA | Water | 8260D SIM | |
| 240-195406-6 | MW-23_110923 | Total/NA | Water | 8260D SIM | |
| 240-195406-7 | DUP_05 | Total/NA | Water | 8260D SIM | |
| MB 240-595507/6 | Method Blank | Total/NA | Water | 8260D SIM | |
| LCS 240-595507/4 | Lab Control Sample | Total/NA | Water | 8260D SIM | |
| 240-195207-G-2 MS | Matrix Spike | Total/NA | Water | 8260D SIM | |
| 240-195207-N-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D SIM | |

Analysis Batch: 595638

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 240-195406-2 | MW-66_110923 | Total/NA | Water | 8260D SIM | |
| 240-195406-4 | MW-64_111023 | Total/NA | Water | 8260D SIM | |
| MB 240-595638/5 | Method Blank | Total/NA | Water | 8260D SIM | |
| LCS 240-595638/4 | Lab Control Sample | Total/NA | Water | 8260D SIM | |
| 240-195177-C-7 MS | Matrix Spike | Total/NA | Water | 8260D SIM | |
| 240-195177-D-7 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D SIM | |

Analysis Batch: 595685

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-----------|------------|
| 240-195406-3 | MW-65_110923 | Total/NA | Water | 8260D SIM | |

Eurofins Cleveland

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

GC/MS VOA (Continued)

Analysis Batch: 595685 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 240-195406-8 | MW-194_111023 | Total/NA | Water | 8260D SIM | |
| 240-195406-9 | MW-194S_111023 | Total/NA | Water | 8260D SIM | |
| 240-195406-10 | MW-09_111023 | Total/NA | Water | 8260D SIM | |
| MB 240-595685/5 | Method Blank | Total/NA | Water | 8260D SIM | |
| LCS 240-595685/4 | Lab Control Sample | Total/NA | Water | 8260D SIM | |
| 240-195409-G-3 MS | Matrix Spike | Total/NA | Water | 8260D SIM | |
| 240-195409-M-3 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D SIM | |



Lab Chronicle

Client: ARCADIS US Inc
 Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Client Sample ID: TRIP BLANK_79

Lab Sample ID: 240-195406-1

Date Collected: 11/09/23 00:00

Matrix: Water

Date Received: 11/14/23 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 595140 | HMB | EET CLE | 11/19/23 20:01 |

Client Sample ID: MW-66_110923

Lab Sample ID: 240-195406-2

Date Collected: 11/09/23 12:30

Matrix: Water

Date Received: 11/14/23 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 595138 | CDG | EET CLE | 11/19/23 00:17 |
| Total/NA | Analysis | 8260D SIM | | 1 | 595638 | CS | EET CLE | 11/22/23 22:39 |

Client Sample ID: MW-65_110923

Lab Sample ID: 240-195406-3

Date Collected: 11/10/23 14:03

Matrix: Water

Date Received: 11/14/23 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 595138 | CDG | EET CLE | 11/19/23 00:42 |
| Total/NA | Analysis | 8260D SIM | | 1 | 595685 | CS | EET CLE | 11/24/23 19:30 |

Client Sample ID: MW-64_111023

Lab Sample ID: 240-195406-4

Date Collected: 11/09/23 15:28

Matrix: Water

Date Received: 11/14/23 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 595138 | CDG | EET CLE | 11/19/23 01:07 |
| Total/NA | Analysis | 8260D SIM | | 1 | 595638 | CS | EET CLE | 11/22/23 23:03 |

Client Sample ID: DUP_03

Lab Sample ID: 240-195406-5

Date Collected: 11/09/23 00:00

Matrix: Water

Date Received: 11/14/23 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 595138 | CDG | EET CLE | 11/19/23 01:31 |
| Total/NA | Analysis | 8260D SIM | | 1 | 595507 | CS | EET CLE | 11/22/23 17:52 |

Client Sample ID: MW-23_110923

Lab Sample ID: 240-195406-6

Date Collected: 11/09/23 15:40

Matrix: Water

Date Received: 11/14/23 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260D | | 500 | 595138 | CDG | EET CLE | 11/19/23 01:56 |
| Total/NA | Analysis | 8260D SIM | | 1 | 595507 | CS | EET CLE | 11/22/23 18:16 |

Lab Chronicle

Client: ARCADIS US Inc
 Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Client Sample ID: DUP_05

Lab Sample ID: 240-195406-7

Date Collected: 11/09/23 00:00

Matrix: Water

Date Received: 11/14/23 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260D | | 200 | 595154 | CDG | EET CLE | 11/19/23 18:51 |
| Total/NA | Analysis | 8260D SIM | | 1 | 595507 | CS | EET CLE | 11/22/23 18:40 |

Client Sample ID: MW-194_111023

Lab Sample ID: 240-195406-8

Date Collected: 11/10/23 11:20

Matrix: Water

Date Received: 11/14/23 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 595154 | CDG | EET CLE | 11/19/23 19:16 |
| Total/NA | Analysis | 8260D SIM | | 1 | 595685 | CS | EET CLE | 11/24/23 14:18 |

Client Sample ID: MW-194S_111023

Lab Sample ID: 240-195406-9

Date Collected: 11/10/23 12:30

Matrix: Water

Date Received: 11/14/23 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 595154 | CDG | EET CLE | 11/19/23 19:40 |
| Total/NA | Analysis | 8260D SIM | | 1 | 595685 | CS | EET CLE | 11/24/23 14:42 |

Client Sample ID: MW-09_111023

Lab Sample ID: 240-195406-10

Date Collected: 11/10/23 13:58

Matrix: Water

Date Received: 11/14/23 10:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 595154 | CDG | EET CLE | 11/19/23 20:05 |
| Total/NA | Analysis | 8260D SIM | | 1 | 595685 | CS | EET CLE | 11/24/23 15:06 |

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: ARCADIS US Inc
 Project/Site: Ford LTP - On Site

Job ID: 240-195406-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------------------|---------|-----------------------|-----------------|
| California | State | 2927 | 02-27-24 |
| Georgia | State | 4062 | 02-27-24 |
| Illinois | NELAP | 200004 | 07-31-24 |
| Iowa | State | 421 | 06-01-25 |
| Kentucky (UST) | State | 112225 | 02-28-24 |
| Kentucky (WW) | State | KY98016 | 12-31-23 |
| Michigan | State | 9135 | 02-27-24 |
| Minnesota | NELAP | 039-999-348 | 12-31-23 |
| Minnesota (Petrofund) | State | 3506 | 08-01-23 * |
| New Jersey | NELAP | OH001 | 07-01-24 |
| New York | NELAP | 10975 | 04-02-24 |
| Ohio | State | 8303 | 02-27-24 |
| Ohio VAP | State | ORELAP 4062 | 02-27-24 |
| Oregon | NELAP | 4062 | 02-27-24 |
| Pennsylvania | NELAP | 68-00340 | 08-31-24 |
| Texas | NELAP | T104704517-22-19 | 08-31-24 |
| Virginia | NELAP | 460175 | 09-14-24 |
| West Virginia DEP | State | 210 | 12-31-23 |

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Regulatory program: DW NPDES RCRA Other

Client Contact: Arcadis
Address: 28550 Cabot Drive, Suite 500
City/State/Zip: Novi, MI, 48377
Phone: 248-994-2240

Client Project Manager: Kris Hinskey
Telephone: 248-994-2240
Email: kristoffer.hinskey@arcadis.com

Site Contact: Christina Weaver
Telephone: 248-994-2240

Lab Contact: Mike DelMontico
Telephone: 330-497-9396

Project Name: Ford LTP On-Site
Project Number: 30167538-401.03
PO # 30167538-401.03

Sampler Name: Samekha Spaulder
Method of Shipment/Carrier:
Shipping/Tracking No:
Analysis Turnaround Time:
TAT if different from below:
10 day
 3 weeks
 2 weeks
 1 week
 2 days
 1 day

| Sample Identification | Sample Date | Sample Time | Matrix | | | | | Containers & Preservatives | | | | | | | | Filtered Sample (Y/N) | Composite C/Grab-G | Analyses | | | | | | | | | | Sample Specific Notes / Special Instructions: |
|-----------------------------------|-------------|-------------|----------|-------|---------|--------|-------|----------------------------|--------|---|-------|------|-----|-----------|--------|-----------------------|--------------------|----------|---------------|-------------------|---------------------|-----------|-----------|----------------------|-----------------------|--|---|---|
| | | | Air | | Aqueous | | Solid | | Other: | | H2SO4 | HNO3 | HCl | ZnAc/NaOH | Lupres | | | Other: | 1,1-DCE 8260B | cis-1,2-DCE 8260B | Trans-1,2-DCE 8260B | PCE 8260B | TCE 8260B | Vinyl Chloride 8260B | 1,4-Dioxane 8260B SIM | | | |
| | | | Scdiment | Solid | Other: | Other: | 1 | 6 | 6 | 6 | | | | | | | | | | | | | | | | 6 | 6 | |
| TRIP BLANK_79 | --- | --- | 1 | | | | | 1 | | | | | | | | | | | | | | | | | | 1 Trip Blank | | |
| MW-66-110923 | 11/9/23 | 1230 | 6 | | | | | 6 | | | | | | | | | | | | | | | | | | 3 VOAs for 8260B 3 VOAs for 8260B SIM | | |
| MW-65-110923 | 11/9/23 | 1403 | 6 | | | | | 6 | | | | | | | | | | | | | | | | | | | | |
| MW-64-111023 Dup-03 | 11/9/23 | 1528 | 6 | | | | | 6 | | | | | | | | | | | | | | | | | | | | |
| MW-23-110923 | 11/9/23 | 1540 | 6 | | | | | 6 | | | | | | | | | | | | | | | | | | | | |
| Dup-05 | 11/9/23 | --- | 6 | | | | | 6 | | | | | | | | | | | | | | | | | | | | |
| MW-194-111023 | 11/10/23 | 1120 | 6 | | | | | 6 | | | | | | | | | | | | | | | | | | | | |
| MW-194S-111023 | 11/10/23 | 1230 | 6 | | | | | 6 | | | | | | | | | | | | | | | | | | | | |
| MW-09-111023 | 11/10/23 | 1358 | 6 | | | | | 6 | | | | | | | | | | | | | | | | | | | | |

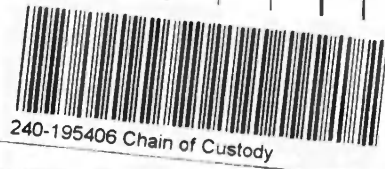
Possible Hazard Identification: Non-Hazard Flammable Irritant 500 Ppm B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return to Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements & Comments:
Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728
Level IV Reporting requested.

Relinquished by: *Samekha Spaulder* Company: Arcadis Date/Time: 11/10/23 1445
Relinquished by: *Samekha Spaulder* Company: Arcadis Date/Time: 11/13/23 0835
Relinquished by: *Samekha Spaulder* Company: Arcadis Date/Time: 11/13/23

Received by: *Aradis* Company: Arcadis Date/Time: 11/10/23 1445
Received by: *Aradis* Company: Arcadis Date/Time: 11/13/23
Received in Laboratory by: *Aradis* Company: Arcadis Date/Time: 11/14-23 1000



240-195406 Chain of Custody



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Eurofins - Cleveland Sample Receipt Form/Narrative
Barberton Facility

Login # : _____

Client Arcadis Site Name _____

Cooler unpacked by:
Alissa Atkinson

Cooler Received on 11-14-23 Opened on 11-14-23

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours: Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box _____ Client Cooler _____ Box _____ Other _____

Packing material used: Bubble Wrap Foam Plastic Bag None Other _____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN # _____ (CF _____ °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

- 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 ea Yes No Yes No NA
 - Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 - Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
 - Were tamper/custody seals intact and uncompromised? Yes No NA
- 3. Shippers' packing slip attached to the cooler(s)? Yes No
- 4. Did custody papers accompany the sample(s)? Yes No
- 5. Were the custody papers relinquished & signed in the appropriate place? Yes No
- 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
- 7. Did all bottles arrive in good condition (Unbroken)? Yes No
- 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
- 9. For each sample, does the COC specify preservatives Y/N, # of containers Y/N, and sample type of grab/comp Y/N?
- 10. Were correct bottle(s) used for the test(s) indicated? Yes No
- 11. Sufficient quantity received to perform indicated analyses? Yes No
- 12. Are these work share samples and all listed on the COC? Yes No

Tests that are not checked for pH by Receiving:

VOAs
 Oil and Grease
 TOC

- If yes, Questions 13-17 have been checked at the originating laboratory.
- 13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC316719
- 14. Were VOAs on the COC? Yes No
- 15. Were air bubbles >6 mm in any VOA vials? Yes No NA ● ← Larger than this.
- 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 62225 Yes No
- 17. Was a LL Hg or Me Hg trip blank present? Yes No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page

Samples processed by: _____

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Eurofins - Canton Sample Receipt Multiple Cooler Form

| Cooler Description (Circle) | | | | IR Gun # (Circle) | Observed Temp °C | Corrected Temp °C | Coolant (Circle) | | |
|--------------------------------|--------|-----|-------|----------------------|---------------------|----------------------|---------------------|----------|---------|
| EC | Client | Box | Other | IR GUN #: 21 | 3.2 | 3.9 | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | 3.0 | 3.2 | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |
| EC | Client | Box | Other | IR GUN #: | | | Wet Ice | Blue Ice | Dry Ice |
| | | | | | | | Water | None | |

See Temperature Excursion Form

DATA VERIFICATION REPORT



November 28, 2023

Kris Hinskey
Arcadis of Michigan
28550 Cabot Drive
Suite 500
Novi, MI US 48377

CADENA project ID: E203728

Project: Ford Livonia Transmission Plant - ON-SITE -Soil Gas, Ground water and Soil

Project number: 30167538.401.03- onsite groundwater

Event Specific Scope of Work References: Sample COC

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 195406-1

Sample date: 2023-11-09 2023-11-10

Report received by CADENA: 2023-11-27

Initial Data Verification completed by CADENA: 2023-11-28

Number of Samples:10

Sample Matrices:Water and trip blank

Test Categories:GCMS VOC

Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

The following minor QC exceptions or missing information were noted:

MBK - METHOD BLANKS had detections BELOW the Reporting Limit (RL) for these analytes. The listed client sample results had concentrations LESS than 5X the method blank levels so client sample results reported below the RL are considered non-detect at the RL and qualified with UB flags and results greater than the RL are non-detect at the sample concentration reported and qualified with B flags : GCMS VOC QC batch 595154 - CIS-1,2-DICHLOROETHYLENE - UB flag - sample -008.

HSP - GCMS VOC container was received with headspace according to the laboratory submittal case narrative and sample receipt documents. Client sample GCMS VOC results noted should be considered estimated and qualified with J flags if detected and UJ flags if non-detect. GCMS VOC sample -007 - J/UJ flags.

MS/MSD recovery outliers or sample duplicate RPD outliers were not determined using a client sample from this submittal for the test and QC batch noted so qualification was not required based on these sample-specific QC outliers: GCMS VOC QC batch 595138.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

Qualifiers added during verification have been added to the electronic data which is available for download from the CADENA CLMS. Refer to the attached table of analytical results that have been qualified during verification.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at <http://clms.cadenaco.com/index.cfm>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

| Valid Qualifiers | Description |
|------------------|--|
| < | Less than the reported concentration. |
| > | Greater than the reported concentration. |
| B | The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminants) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration. |
| E | The analyte / Compound reported exceeds the calibration range and is considered estimated. |
| EMPC | Estimated Minimum Potential Contamination - Dioxin/Furan analyses only. |
| J | Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies. |
| J- | The result is an estimated quantity, but the result may be biased low. |
| JB | NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED |
| JH | The sample result is considered estimated and is potentially biased high. |
| JL | The sample result is considered estimated and is potentially biased low. |
| JUB | NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED |
| NJ | Tentatively identified compound with approximated concentration. |
| R | Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.) |
| TNTC | Too Numerous to Count - Asbestos and Microbiological Results. |
| U | Indicates that the analyte / compound was analyzed for, but not detected. |
| UB | The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminants) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL. |
| UJ | The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample. |

Qualified Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 195406-1

| | | |
|-----------------------|------------|---------------|
| Sample Name: | DUP_05 | MW-194_111023 |
| Lab Sample ID: | 2401954067 | 2401954068 |
| Sample Date: | 11/9/2023 | 11/10/2023 |

| Analyte | Cas No. | Report | | Units | Valid | Report | | | Valid | |
|--------------------------|----------|--------|-------|-------|-----------|--------|-------|-------|-----------|--|
| | | Result | Limit | | Qualifier | Result | Limit | Units | Qualifier | |
| GC/MS VOC | | | | | | | | | | |
| <u>OSW-8260D</u> | | | | | | | | | | |
| 1,1-Dichloroethene | 75-35-4 | ND | 200 | ug/l | UJ | | | | | |
| cis-1,2-Dichloroethene | 156-59-2 | 9900 | 200 | ug/l | J | 0.50 | 1.0 | ug/l | UB | |
| Tetrachloroethene | 127-18-4 | ND | 200 | ug/l | UJ | | | | | |
| trans-1,2-Dichloroethene | 156-60-5 | 400 | 200 | ug/l | J | | | | | |
| Trichloroethene | 79-01-6 | 550 | 200 | ug/l | J | | | | | |
| Vinyl chloride | 75-01-4 | 520 | 200 | ug/l | J | | | | | |

