

ANALYTICAL REPORT

PREPARED FOR

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Generated 3/18/2024 7:28:01 AM

JOB DESCRIPTION

Ford LTP - On Site

JOB NUMBER

240-200650-1

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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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Table of Contents

| | |
|----------------------------------|----|
| Cover Page | 1 |
| Table of Contents | 3 |
| Definitions/Glossary | 4 |
| Case Narrative | 5 |
| Method Summary | 6 |
| Sample Summary | 7 |
| Detection Summary | 8 |
| Client Sample Results | 9 |
| Surrogate Summary | 15 |
| QC Sample Results | 16 |
| QC Association Summary | 19 |
| Lab Chronicle | 20 |
| Certification Summary | 21 |
| Chain of Custody | 22 |

Definitions/Glossary

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP - On Site

Job ID: 240-200650-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| 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. |
|----------------|---|
| α | 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 U.S., Inc.
Project: Ford LTP - On Site

Job ID: 240-200650-1

Job ID: 240-200650-1

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Job Narrative 240-200650-1

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 3/7/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.7°C, 2.0°C and 2.8°C.

GC/MS VOA

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

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Method Summary

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP - On Site

Job ID: 240-200650-1

| 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

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- 13
- 14

Sample Summary

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP - On Site

Job ID: 240-200650-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 240-200650-1 | TRIP BLANK_76 | Water | 03/05/24 00:00 | 03/07/24 08:00 |
| 240-200650-2 | MW-196_030524 | Water | 03/05/24 09:15 | 03/07/24 08:00 |
| 240-200650-3 | MW-196S_030524 | Water | 03/05/24 11:10 | 03/07/24 08:00 |
| 240-200650-4 | MW-218S_030524 | Water | 03/05/24 12:30 | 03/07/24 08:00 |
| 240-200650-5 | MW-39_030524 | Water | 03/05/24 13:30 | 03/07/24 08:00 |
| 240-200650-6 | DUP-05 | Water | 03/05/24 00:00 | 03/07/24 08:00 |

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- 13
- 14

Detection Summary

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP - On Site

Job ID: 240-200650-1

Client Sample ID: TRIP BLANK_76

Lab Sample ID: 240-200650-1

No Detections.

Client Sample ID: MW-196_030524

Lab Sample ID: 240-200650-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 240 | | 20 | 9.2 | ug/L | 20 | | 8260D | Total/NA |
| trans-1,2-Dichloroethene | 94 | | 20 | 10 | ug/L | 20 | | 8260D | Total/NA |
| Trichloroethene | 410 | | 20 | 8.8 | ug/L | 20 | | 8260D | Total/NA |

Client Sample ID: MW-196S_030524

Lab Sample ID: 240-200650-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 46 | | 2.0 | 0.92 | ug/L | 2 | | 8260D | Total/NA |
| trans-1,2-Dichloroethene | 2.1 | | 2.0 | 1.0 | ug/L | 2 | | 8260D | Total/NA |
| Trichloroethene | 57 | | 2.0 | 0.88 | ug/L | 2 | | 8260D | Total/NA |

Client Sample ID: MW-218S_030524

Lab Sample ID: 240-200650-4

No Detections.

Client Sample ID: MW-39_030524

Lab Sample ID: 240-200650-5

No Detections.

Client Sample ID: DUP-05

Lab Sample ID: 240-200650-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 270 | | 10 | 4.6 | ug/L | 10 | | 8260D | Total/NA |
| trans-1,2-Dichloroethene | 100 | | 10 | 5.1 | ug/L | 10 | | 8260D | Total/NA |
| Trichloroethene | 430 | | 10 | 4.4 | ug/L | 10 | | 8260D | Total/NA |

This Detection Summary does not include radiochemical test results.

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Client Sample Results

Client: Arcadis U.S., Inc.
 Project/Site: Ford LTP - On Site

Job ID: 240-200650-1

Client Sample ID: TRIP BLANK_76

Lab Sample ID: 240-200650-1

Date Collected: 03/05/24 00:00

Matrix: Water

Date Received: 03/07/24 08:00

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 | | | 03/14/24 18:47 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/14/24 18:47 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/24 18:47 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/14/24 18:47 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/24 18:47 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/14/24 18:47 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 109 | | 62 - 137 | | 03/14/24 18:47 | 1 |
| 4-Bromofluorobenzene (Surr) | 84 | | 56 - 136 | | 03/14/24 18:47 | 1 |
| Toluene-d8 (Surr) | 94 | | 78 - 122 | | 03/14/24 18:47 | 1 |
| Dibromofluoromethane (Surr) | 102 | | 73 - 120 | | 03/14/24 18:47 | 1 |

Client Sample Results

Client: Arcadis U.S., Inc.
 Project/Site: Ford LTP - On Site

Job ID: 240-200650-1

Client Sample ID: MW-196_030524

Lab Sample ID: 240-200650-2

Date Collected: 03/05/24 09:15

Matrix: Water

Date Received: 03/07/24 08:00

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 | | | 03/12/24 03:17 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 68 - 127 | | | | | 03/12/24 03:17 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|------------------|------------------|---------------|-----|------|---|-----------------|-----------------|----------------|
| 1,1-Dichloroethene | 20 | U | 20 | 9.8 | ug/L | | | 03/14/24 19:11 | 20 |
| cis-1,2-Dichloroethene | 240 | | 20 | 9.2 | ug/L | | | 03/14/24 19:11 | 20 |
| Tetrachloroethene | 20 | U | 20 | 8.8 | ug/L | | | 03/14/24 19:11 | 20 |
| trans-1,2-Dichloroethene | 94 | | 20 | 10 | ug/L | | | 03/14/24 19:11 | 20 |
| Trichloroethene | 410 | | 20 | 8.8 | ug/L | | | 03/14/24 19:11 | 20 |
| Vinyl chloride | 20 | U | 20 | 9.0 | ug/L | | | 03/14/24 19:11 | 20 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 62 - 137 | | | | | 03/14/24 19:11 | 20 |
| 4-Bromofluorobenzene (Surr) | 88 | | 56 - 136 | | | | | 03/14/24 19:11 | 20 |
| Toluene-d8 (Surr) | 94 | | 78 - 122 | | | | | 03/14/24 19:11 | 20 |
| Dibromofluoromethane (Surr) | 104 | | 73 - 120 | | | | | 03/14/24 19:11 | 20 |

Client Sample Results

Client: Arcadis U.S., Inc.
 Project/Site: Ford LTP - On Site

Job ID: 240-200650-1

Client Sample ID: MW-196S_030524

Lab Sample ID: 240-200650-3

Date Collected: 03/05/24 11:10

Matrix: Water

Date Received: 03/07/24 08:00

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 | | | 03/12/24 03:41 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 68 - 127 | | | | | 03/12/24 03:41 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|------------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 2.0 | U | 2.0 | 0.98 | ug/L | | | 03/14/24 19:35 | 2 |
| cis-1,2-Dichloroethene | 46 | | 2.0 | 0.92 | ug/L | | | 03/14/24 19:35 | 2 |
| Tetrachloroethene | 2.0 | U | 2.0 | 0.88 | ug/L | | | 03/14/24 19:35 | 2 |
| trans-1,2-Dichloroethene | 2.1 | | 2.0 | 1.0 | ug/L | | | 03/14/24 19:35 | 2 |
| Trichloroethene | 57 | | 2.0 | 0.88 | ug/L | | | 03/14/24 19:35 | 2 |
| Vinyl chloride | 2.0 | U | 2.0 | 0.90 | ug/L | | | 03/14/24 19:35 | 2 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 119 | | 62 - 137 | | | | | 03/14/24 19:35 | 2 |
| 4-Bromofluorobenzene (Surr) | 83 | | 56 - 136 | | | | | 03/14/24 19:35 | 2 |
| Toluene-d8 (Surr) | 91 | | 78 - 122 | | | | | 03/14/24 19:35 | 2 |
| Dibromofluoromethane (Surr) | 106 | | 73 - 120 | | | | | 03/14/24 19:35 | 2 |

Client Sample Results

Client: Arcadis U.S., Inc.
 Project/Site: Ford LTP - On Site

Job ID: 240-200650-1

Client Sample ID: MW-218S_030524

Lab Sample ID: 240-200650-4

Date Collected: 03/05/24 12:30

Matrix: Water

Date Received: 03/07/24 08:00

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 | | | 03/12/24 04:05 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 68 - 127 | | | | | 03/12/24 04:05 | 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 | | | 03/14/24 19:58 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/14/24 19:58 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/24 19:58 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/14/24 19:58 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/24 19:58 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/14/24 19:58 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 62 - 137 | | | | | 03/14/24 19:58 | 1 |
| 4-Bromofluorobenzene (Surr) | 83 | | 56 - 136 | | | | | 03/14/24 19:58 | 1 |
| Toluene-d8 (Surr) | 94 | | 78 - 122 | | | | | 03/14/24 19:58 | 1 |
| Dibromofluoromethane (Surr) | 100 | | 73 - 120 | | | | | 03/14/24 19:58 | 1 |

Client Sample Results

Client: Arcadis U.S., Inc.
 Project/Site: Ford LTP - On Site

Job ID: 240-200650-1

Client Sample ID: MW-39_030524

Lab Sample ID: 240-200650-5

Date Collected: 03/05/24 13:30

Matrix: Water

Date Received: 03/07/24 08:00

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 | | | 03/12/24 04:29 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 68 - 127 | | | | | 03/12/24 04:29 | 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 | | | 03/14/24 20:21 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/14/24 20:21 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/24 20:21 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/14/24 20:21 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/24 20:21 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/14/24 20:21 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 62 - 137 | | | | | 03/14/24 20:21 | 1 |
| 4-Bromofluorobenzene (Surr) | 87 | | 56 - 136 | | | | | 03/14/24 20:21 | 1 |
| Toluene-d8 (Surr) | 95 | | 78 - 122 | | | | | 03/14/24 20:21 | 1 |
| Dibromofluoromethane (Surr) | 102 | | 73 - 120 | | | | | 03/14/24 20:21 | 1 |

Client Sample Results

Client: Arcadis U.S., Inc.
 Project/Site: Ford LTP - On Site

Job ID: 240-200650-1

Client Sample ID: DUP-05

Lab Sample ID: 240-200650-6

Date Collected: 03/05/24 00:00

Matrix: Water

Date Received: 03/07/24 08:00

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 | | | 03/12/24 04:53 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 68 - 127 | | | | | 03/12/24 04:53 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|------------|-----------|----------|-----|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 10 | U | 10 | 4.9 | ug/L | | | 03/14/24 20:45 | 10 |
| cis-1,2-Dichloroethene | 270 | | 10 | 4.6 | ug/L | | | 03/14/24 20:45 | 10 |
| Tetrachloroethene | 10 | U | 10 | 4.4 | ug/L | | | 03/14/24 20:45 | 10 |
| trans-1,2-Dichloroethene | 100 | | 10 | 5.1 | ug/L | | | 03/14/24 20:45 | 10 |
| Trichloroethene | 430 | | 10 | 4.4 | ug/L | | | 03/14/24 20:45 | 10 |
| Vinyl chloride | 10 | U | 10 | 4.5 | ug/L | | | 03/14/24 20:45 | 10 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 62 - 137 | | | | | 03/14/24 20:45 | 10 |
| 4-Bromofluorobenzene (Surr) | 86 | | 56 - 136 | | | | | 03/14/24 20:45 | 10 |
| Toluene-d8 (Surr) | 98 | | 78 - 122 | | | | | 03/14/24 20:45 | 10 |
| Dibromofluoromethane (Surr) | 102 | | 73 - 120 | | | | | 03/14/24 20:45 | 10 |

Surrogate Summary

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP - On Site

Job ID: 240-200650-1

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) |
| 240-200568-A-14 MSD | Matrix Spike Duplicate | 102 | 93 | 97 | 98 |
| 240-200568-C-14 MS | Matrix Spike | 101 | 95 | 98 | 95 |
| 240-200650-1 | TRIP BLANK_76 | 109 | 84 | 94 | 102 |
| 240-200650-2 | MW-196_030524 | 110 | 88 | 94 | 104 |
| 240-200650-3 | MW-196S_030524 | 119 | 83 | 91 | 106 |
| 240-200650-4 | MW-218S_030524 | 114 | 83 | 94 | 100 |
| 240-200650-5 | MW-39_030524 | 113 | 87 | 95 | 102 |
| 240-200650-6 | DUP-05 | 110 | 86 | 98 | 102 |
| LCS 240-606050/4 | Lab Control Sample | 98 | 94 | 99 | 94 |
| MB 240-606050/7 | Method Blank | 105 | 84 | 96 | 99 |

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 (68-127) |
| 240-200648-C-3 MS | Matrix Spike | 106 |
| 240-200648-C-3 MSD | Matrix Spike Duplicate | 106 |
| 240-200650-2 | MW-196_030524 | 106 |
| 240-200650-3 | MW-196S_030524 | 107 |
| 240-200650-4 | MW-218S_030524 | 106 |
| 240-200650-5 | MW-39_030524 | 106 |
| 240-200650-6 | DUP-05 | 106 |
| LCS 240-605713/4 | Lab Control Sample | 105 |
| MB 240-605713/6 | Method Blank | 103 |

Surrogate Legend

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

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP - On Site

Job ID: 240-200650-1

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

Lab Sample ID: MB 240-606050/7

Matrix: Water

Analysis Batch: 606050

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 | | | 03/14/24 11:43 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/14/24 11:43 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/24 11:43 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/14/24 11:43 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/14/24 11:43 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/14/24 11:43 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 62 - 137 | | 03/14/24 11:43 | 1 |
| 4-Bromofluorobenzene (Surr) | 84 | | 56 - 136 | | 03/14/24 11:43 | 1 |
| Toluene-d8 (Surr) | 96 | | 78 - 122 | | 03/14/24 11:43 | 1 |
| Dibromofluoromethane (Surr) | 99 | | 73 - 120 | | 03/14/24 11:43 | 1 |

Lab Sample ID: LCS 240-606050/4

Matrix: Water

Analysis Batch: 606050

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS | LCS | Unit | D | %Rec | %Rec Limits |
|--------------------------|-------------|--------|-----------|------|---|------|-------------|
| | | Result | Qualifier | | | | |
| 1,1-Dichloroethene | 25.0 | 21.4 | | ug/L | | 86 | 63 - 134 |
| cis-1,2-Dichloroethene | 25.0 | 23.1 | | ug/L | | 92 | 77 - 123 |
| Tetrachloroethene | 25.0 | 25.9 | | ug/L | | 103 | 76 - 123 |
| trans-1,2-Dichloroethene | 25.0 | 22.9 | | ug/L | | 91 | 75 - 124 |
| Trichloroethene | 25.0 | 22.2 | | ug/L | | 89 | 70 - 122 |
| Vinyl chloride | 12.5 | 12.4 | | ug/L | | 99 | 60 - 144 |

| Surrogate | LCS | LCS | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 94 | | 56 - 136 |
| Toluene-d8 (Surr) | 99 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 94 | | 73 - 120 |

Lab Sample ID: 240-200568-A-14 MSD

Matrix: Water

Analysis Batch: 606050

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

| Analyte | Sample | Sample | Spike Added | MSD | MSD | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------|--------|-----------|-------------|--------|-----------|------|---|------|-------------|-----|-----------|
| | Result | Qualifier | | Result | Qualifier | | | | | | |
| 1,1-Dichloroethene | 1.0 | U | 25.0 | 22.5 | | ug/L | | 90 | 56 - 135 | 5 | 26 |
| cis-1,2-Dichloroethene | 1.0 | U | 25.0 | 23.4 | | ug/L | | 94 | 66 - 128 | 6 | 14 |
| Tetrachloroethene | 1.0 | U | 25.0 | 25.6 | | ug/L | | 102 | 62 - 131 | 2 | 20 |
| trans-1,2-Dichloroethene | 1.0 | U | 25.0 | 24.1 | | ug/L | | 96 | 56 - 136 | 4 | 15 |
| Trichloroethene | 5.4 | | 25.0 | 28.3 | | ug/L | | 92 | 61 - 124 | 1 | 15 |
| Vinyl chloride | 1.0 | U | 12.5 | 13.0 | | ug/L | | 104 | 43 - 157 | 10 | 24 |

| Surrogate | MSD | MSD | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 93 | | 56 - 136 |
| Toluene-d8 (Surr) | 97 | | 78 - 122 |

Eurofins Cleveland

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP - On Site

Job ID: 240-200650-1

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

Lab Sample ID: 240-200568-A-14 MSD
Matrix: Water
Analysis Batch: 606050

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

| | MSD | MSD | |
|-----------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| Dibromofluoromethane (Surr) | 98 | | 73 - 120 |

Lab Sample ID: 240-200568-C-14 MS
Matrix: Water
Analysis Batch: 606050

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

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec |
|--------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| 1,1-Dichloroethene | 1.0 | U | 25.0 | 21.5 | | ug/L | | 86 | 56 - 135 |
| cis-1,2-Dichloroethene | 1.0 | U | 25.0 | 22.1 | | ug/L | | 88 | 66 - 128 |
| Tetrachloroethene | 1.0 | U | 25.0 | 25.0 | | ug/L | | 100 | 62 - 131 |
| trans-1,2-Dichloroethene | 1.0 | U | 25.0 | 23.2 | | ug/L | | 93 | 56 - 136 |
| Trichloroethene | 5.4 | | 25.0 | 28.6 | | ug/L | | 93 | 61 - 124 |
| Vinyl chloride | 1.0 | U | 12.5 | 11.8 | | ug/L | | 94 | 43 - 157 |

| | MS | MS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 95 | | 56 - 136 |
| Toluene-d8 (Surr) | 98 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 95 | | 73 - 120 |

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

Lab Sample ID: MB 240-605713/6
Matrix: Water
Analysis Batch: 605713

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

| 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 | | | 03/11/24 20:29 | 1 |

| | MB | MB | | | | | | |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|--|--|
| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 68 - 127 | | 03/11/24 20:29 | 1 | | |

Lab Sample ID: LCS 240-605713/4
Matrix: Water
Analysis Batch: 605713

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

| Analyte | Spike | LCS | LCS | Unit | D | %Rec | %Rec |
|-------------|-------|--------|-----------|------|---|------|----------|
| | | Result | Qualifier | | | | |
| 1,4-Dioxane | 10.0 | 10.7 | | ug/L | | 107 | 75 - 121 |

| | LCS | LCS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 68 - 127 |

Lab Sample ID: 240-200648-C-3 MS
Matrix: Water
Analysis Batch: 605713

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

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec |
|-------------|--------|-----------|-------|--------|-----------|------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| 1,4-Dioxane | 2.0 | U | 10.0 | 10.7 | | ug/L | | 107 | 20 - 180 |

Eurofins Cleveland

QC Sample Results

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP - On Site

Job ID: 240-200650-1

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

| <i>Surrogate</i> | <i>%Recovery</i> | <i>MS MS Qualifier</i> | <i>Limits</i> |
|------------------------------|------------------|----------------------------|---------------|
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 68 - 127 |

Lab Sample ID: 240-200648-C-3 MSD
Matrix: Water
Analysis Batch: 605713

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

| <i>Analyte</i> | <i>Sample Result</i> | <i>Sample Qualifier</i> | <i>Spike Added</i> | <i>MSD Result</i> | <i>MSD Qualifier</i> | <i>Unit</i> | <i>D</i> | <i>%Rec</i> | <i>%Rec Limits</i> | <i>RPD</i> | <i>RPD Limit</i> |
|----------------|--------------------------|-----------------------------|------------------------|-----------------------|--------------------------|-------------|----------|-------------|------------------------|------------|----------------------|
| 1,4-Dioxane | 2.0 | U | 10.0 | 9.66 | | ug/L | | 97 | 20 - 180 | 11 | 20 |

| <i>Surrogate</i> | <i>%Recovery</i> | <i>MSD MSD Qualifier</i> | <i>Limits</i> |
|------------------------------|------------------|------------------------------|---------------|
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 68 - 127 |

QC Association Summary

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP - On Site

Job ID: 240-200650-1

GC/MS VOA

Analysis Batch: 605713

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 240-200650-2 | MW-196_030524 | Total/NA | Water | 8260D SIM | |
| 240-200650-3 | MW-196S_030524 | Total/NA | Water | 8260D SIM | |
| 240-200650-4 | MW-218S_030524 | Total/NA | Water | 8260D SIM | |
| 240-200650-5 | MW-39_030524 | Total/NA | Water | 8260D SIM | |
| 240-200650-6 | DUP-05 | Total/NA | Water | 8260D SIM | |
| MB 240-605713/6 | Method Blank | Total/NA | Water | 8260D SIM | |
| LCS 240-605713/4 | Lab Control Sample | Total/NA | Water | 8260D SIM | |
| 240-200648-C-3 MS | Matrix Spike | Total/NA | Water | 8260D SIM | |
| 240-200648-C-3 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D SIM | |

Analysis Batch: 606050

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 240-200650-1 | TRIP BLANK_76 | Total/NA | Water | 8260D | |
| 240-200650-2 | MW-196_030524 | Total/NA | Water | 8260D | |
| 240-200650-3 | MW-196S_030524 | Total/NA | Water | 8260D | |
| 240-200650-4 | MW-218S_030524 | Total/NA | Water | 8260D | |
| 240-200650-5 | MW-39_030524 | Total/NA | Water | 8260D | |
| 240-200650-6 | DUP-05 | Total/NA | Water | 8260D | |
| MB 240-606050/7 | Method Blank | Total/NA | Water | 8260D | |
| LCS 240-606050/4 | Lab Control Sample | Total/NA | Water | 8260D | |
| 240-200568-A-14 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D | |
| 240-200568-C-14 MS | Matrix Spike | Total/NA | Water | 8260D | |

Lab Chronicle

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP - On Site

Job ID: 240-200650-1

Client Sample ID: TRIP BLANK_76

Lab Sample ID: 240-200650-1

Date Collected: 03/05/24 00:00

Matrix: Water

Date Received: 03/07/24 08:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 606050 | LEE | EET CLE | 03/14/24 18:47 |

Client Sample ID: MW-196_030524

Lab Sample ID: 240-200650-2

Date Collected: 03/05/24 09:15

Matrix: Water

Date Received: 03/07/24 08:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260D | | 20 | 606050 | LEE | EET CLE | 03/14/24 19:11 |
| Total/NA | Analysis | 8260D SIM | | 1 | 605713 | MDH | EET CLE | 03/12/24 03:17 |

Client Sample ID: MW-196S_030524

Lab Sample ID: 240-200650-3

Date Collected: 03/05/24 11:10

Matrix: Water

Date Received: 03/07/24 08:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260D | | 2 | 606050 | LEE | EET CLE | 03/14/24 19:35 |
| Total/NA | Analysis | 8260D SIM | | 1 | 605713 | MDH | EET CLE | 03/12/24 03:41 |

Client Sample ID: MW-218S_030524

Lab Sample ID: 240-200650-4

Date Collected: 03/05/24 12:30

Matrix: Water

Date Received: 03/07/24 08:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 606050 | LEE | EET CLE | 03/14/24 19:58 |
| Total/NA | Analysis | 8260D SIM | | 1 | 605713 | MDH | EET CLE | 03/12/24 04:05 |

Client Sample ID: MW-39_030524

Lab Sample ID: 240-200650-5

Date Collected: 03/05/24 13:30

Matrix: Water

Date Received: 03/07/24 08:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260D | | 1 | 606050 | LEE | EET CLE | 03/14/24 20:21 |
| Total/NA | Analysis | 8260D SIM | | 1 | 605713 | MDH | EET CLE | 03/12/24 04:29 |

Client Sample ID: DUP-05

Lab Sample ID: 240-200650-6

Date Collected: 03/05/24 00:00

Matrix: Water

Date Received: 03/07/24 08:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA | Analysis | 8260D | | 10 | 606050 | LEE | EET CLE | 03/14/24 20:45 |
| Total/NA | Analysis | 8260D SIM | | 1 | 605713 | MDH | EET CLE | 03/12/24 04:53 |

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.
Project/Site: Ford LTP - On Site

Job ID: 240-200650-1

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 * |
| Illinois | NELAP | 200004 | 07-31-24 |
| Iowa | State | 421 | 06-01-25 |
| Kentucky (WW) | State | KY98016 | 12-30-24 |
| Minnesota | NELAP | 039-999-348 | 12-31-24 |
| New Jersey | NELAP | OH001 | 06-30-24 |
| New York | NELAP | 10975 | 04-01-24 |
| Oregon | NELAP | 4062 | 02-27-25 |
| Pennsylvania | NELAP | 68-00340 | 08-31-24 |
| Texas | NELAP | T104704517-22-19 | 08-31-24 |
| USDA | US Federal Programs | P330-18-00281 | 01-05-27 |
| Virginia | NELAP | 460175 | 09-14-24 |
| West Virginia DEP | State | 210 | 12-31-24 |

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

Eurofins - Cleveland Sample Receipt Form/Narrative Login # _____

Barberton Facility

Client ATCOAHS Site Name _____

Cooler Received on 08/07/24 Opened on 03/10/24

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

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

Eurofins Cooler # FC 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 # 22 (CF 1.0.0°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

-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 NA

4. Did custody papers accompany the sample(s)? Yes No NA

5 Were the custody papers relinquished & signed in the appropriate place? Yes No NA

6 Was/were the person(s) who collected the samples clearly identified on the COC? Yes No NA

7 Did all bottles arrive in good condition (Unbroken)? Yes No NA

8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No NA

9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comm (Y/N)? Yes No NA

10 Were correct bottle(s) used for the test(s) indicated? Yes No NA

11 Sufficient quantity received to perform indicated analyses? Yes No NA

12. Are these work share samples and all listed on the COC? Yes No NA

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# HCC316719

14 Were VOAs on the COC? Yes No NA

15 Were air bubbles >6 mm in any VOA vials? Yes No NA

16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # covered

17 Was a LL Hg or Me Hg trip blank present? Yes No NA

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 _____

Tests that are not checked for pH by Receiving.

VOAs
OH and Grease
TOC

DATA VERIFICATION REPORT



March 18, 2024

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
Event Specific Scope of Work References: Sample COC
Laboratory: Eurofins Environment Testing LLC - Cleveland
Laboratory submittal: 200650-1
Sample date: 2024-03-05
Report received by CADENA: 2024-03-18
Initial Data Verification completed by CADENA: 2024-03-18
Number of Samples:6
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.

There were no significant QC anomalies or exceptions to report.

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.

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. |

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 200650-1

| Analyte | Cas No. | Sample Name: TRIP BLANK_76 | | | | MW-196_030524 | | | | MW-196S_030524 | | | | MW-218S_030524 | | | | MW-39_030524 | | | | DUP-05 | | | |
|--------------------------|----------|----------------------------|-------|-------|-----------|---------------|-------|-------|-----------|----------------|-------|-------|-----------|----------------|-------|-------|-----------|--------------|-------|-------|-----------|--------|-------|-------|-----------|
| | | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier |
| GC/MS VOC | | | | | | | | | | | | | | | | | | | | | | | | | |
| <u>OSW-8260D</u> | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethene | 75-35-4 | ND | 1.0 | ug/l | --- | ND | 20 | ug/l | --- | ND | 2.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 10 | ug/l | --- |
| cis-1,2-Dichloroethene | 156-59-2 | ND | 1.0 | ug/l | --- | 240 | 20 | ug/l | --- | 46 | 2.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | 270 | 10 | ug/l | --- |
| Tetrachloroethene | 127-18-4 | ND | 1.0 | ug/l | --- | ND | 20 | ug/l | --- | ND | 2.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 10 | ug/l | --- |
| trans-1,2-Dichloroethene | 156-60-5 | ND | 1.0 | ug/l | --- | 94 | 20 | ug/l | --- | 2.1 | 2.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | 100 | 10 | ug/l | --- |
| Trichloroethene | 79-01-6 | ND | 1.0 | ug/l | --- | 410 | 20 | ug/l | --- | 57 | 2.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | 430 | 10 | ug/l | --- |
| Vinyl chloride | 75-01-4 | ND | 1.0 | ug/l | --- | ND | 20 | ug/l | --- | ND | 2.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 10 | ug/l | --- |
| <u>OSW-8260DSIM</u> | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,4-Dioxane | 123-91-1 | | | | | ND | 2.0 | ug/l | --- | ND | 2.0 | ug/l | --- | ND | 2.0 | ug/l | --- | ND | 2.0 | ug/l | --- | ND | 2.0 | ug/l | --- |