

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Ms. Megan Meckley  
Arcadis US Inc.  
28550 Cabot Drive  
Suite 500  
Novi, Michigan 48377

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## JOB DESCRIPTION

Ford LTP

## JOB NUMBER

240-237765-1

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## Job Notes

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## Authorization



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Authorized for release by  
Michael DelMonico, Project Manager I  
[Michael.DelMonico@et.eurofinsus.com](mailto:Michael.DelMonico@et.eurofinsus.com)  
(330)966-9783

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# Definitions/Glossary

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237765-1

## 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. |
| E         | Result exceeded calibration range.                                                                                                                        |
| F1        | MS and/or MSD recovery exceeds control limits.                                                                                                            |
| F2        | MS/MSD RPD 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: Ford LTP

Job ID: 240-237765-1

**Job ID: 240-237765-1**

**Eurofins Cleveland**

## **Job Narrative 240-237765-1**

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

### **Receipt**

The samples were received on 11/14/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C.

### **GC/MS VOA**

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-680950 was outside the method criteria for the following analyte(s): Tetrachloroethene. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 240-680950 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8260D: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: (240-237298-C-1), (240-237298-C-1 MS) and (240-237298-C-1 MSD).

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 US Inc.  
Project/Site: Ford LTP

Job ID: 240-237765-1

| 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

Job ID: 240-237765-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Sample Origin |
|---------------|------------------|--------|----------------|----------------|---------------|
| 240-237765-1  | TRIP BLANK_139   | Water  | 11/12/25 00:00 | 11/14/25 08:00 | Michigan      |
| 240-237765-2  | MW-123S_111225   | Water  | 11/12/25 09:05 | 11/14/25 08:00 | Michigan      |

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

Detection Summary

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237765-1

Client Sample ID: TRIP BLANK\_139

Lab Sample ID: 240-237765-1

No Detections.

Client Sample ID: MW-123S\_111225

Lab Sample ID: 240-237765-2

| Analyte        | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method    | Prep Type |
|----------------|--------|-----------|-----|------|------|---------|---|-----------|-----------|
| 1,4-Dioxane    | 1.8    | J         | 2.0 | 0.86 | ug/L | 1       |   | 8260D SIM | Total/NA  |
| Vinyl chloride | 1.6    |           | 1.0 | 0.45 | ug/L | 1       |   | 8260D     | Total/NA  |

# Client Sample Results

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237765-1

Client Sample ID: TRIP BLANK\_139

Lab Sample ID: 240-237765-1

Date Collected: 11/12/25 00:00

Matrix: Water

Date Received: 11/14/25 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 |   |          | 11/19/25 11:29 | 1       |
| cis-1,2-Dichloroethene   | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 11/19/25 11:29 | 1       |
| Tetrachloroethene        | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 11/19/25 11:29 | 1       |
| trans-1,2-Dichloroethene | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 11/19/25 11:29 | 1       |
| Trichloroethene          | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 11/19/25 11:29 | 1       |
| Vinyl chloride           | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 11/19/25 11:29 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 109       |           | 62 - 137 |          | 11/19/25 11:29 | 1       |
| 4-Bromofluorobenzene (Surr)  | 86        |           | 56 - 136 |          | 11/19/25 11:29 | 1       |
| Toluene-d8 (Surr)            | 95        |           | 78 - 122 |          | 11/19/25 11:29 | 1       |
| Dibromofluoromethane (Surr)  | 107       |           | 73 - 120 |          | 11/19/25 11:29 | 1       |

# Client Sample Results

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237765-1

Client Sample ID: MW-123S\_111225

Lab Sample ID: 240-237765-2

Date Collected: 11/12/25 09:05

Matrix: Water

Date Received: 11/14/25 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                  | 1.8       | J         | 2.0      | 0.86 | ug/L |   |          | 11/19/25 15:11 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 104       |           | 64 - 136 |      |      |   |          | 11/19/25 15:11 | 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 |   |          | 11/18/25 17:50 | 1       |
| cis-1,2-Dichloroethene       | 1.0       | U         | 1.0      | 0.46 | ug/L |   |          | 11/18/25 17:50 | 1       |
| Tetrachloroethene            | 1.0       | U         | 1.0      | 0.44 | ug/L |   |          | 11/18/25 17:50 | 1       |
| trans-1,2-Dichloroethene     | 1.0       | U         | 1.0      | 0.51 | ug/L |   |          | 11/18/25 17:50 | 1       |
| Trichloroethene              | 1.0       | U         | 1.0      | 0.44 | ug/L |   |          | 11/18/25 17:50 | 1       |
| Vinyl chloride               | 1.6       |           | 1.0      | 0.45 | ug/L |   |          | 11/18/25 17:50 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 111       |           | 62 - 137 |      |      |   |          | 11/18/25 17:50 | 1       |
| 4-Bromofluorobenzene (Surr)  | 91        |           | 56 - 136 |      |      |   |          | 11/18/25 17:50 | 1       |
| Toluene-d8 (Surr)            | 103       |           | 78 - 122 |      |      |   |          | 11/18/25 17:50 | 1       |
| Dibromofluoromethane (Surr)  | 107       |           | 73 - 120 |      |      |   |          | 11/18/25 17:50 | 1       |

# Surrogate Summary

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237765-1

## 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<br>(62-137)                                | BFB<br>(56-136) | TOL<br>(78-122) | DBFM<br>(73-120) |
| 240-237298-C-1 MS   | Matrix Spike           | 96                                             | 111             | 105             | 74               |
| 240-237298-C-1 MSD  | Matrix Spike Duplicate | 99                                             | 116             | 109             | 101              |
| 240-237551-B-12 MS  | Matrix Spike           | 110                                            | 105             | 103             | 107              |
| 240-237551-B-12 MSD | Matrix Spike Duplicate | 102                                            | 101             | 97              | 99               |
| 240-237765-1        | TRIP BLANK_139         | 109                                            | 86              | 95              | 107              |
| 240-237765-2        | MW-123S_111225         | 111                                            | 91              | 103             | 107              |
| LCS 240-680950/5    | Lab Control Sample     | 91                                             | 115             | 95              | 90               |
| LCS 240-681142/5    | Lab Control Sample     | 99                                             | 102             | 99              | 100              |
| MB 240-680950/33    | Method Blank           | 109                                            | 101             | 105             | 98               |
| MB 240-681142/9     | Method Blank           | 110                                            | 90              | 98              | 109              |

### 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<br>(64-136)                                |  |  |  |
| 240-237760-F-2 MS  | Matrix Spike           | 109                                            |  |  |  |
| 240-237760-F-2 MSD | Matrix Spike Duplicate | 112                                            |  |  |  |
| 240-237765-2       | MW-123S_111225         | 104                                            |  |  |  |
| LCS 240-681241/5   | Lab Control Sample     | 92                                             |  |  |  |
| MB 240-681241/7    | Method Blank           | 93                                             |  |  |  |

### Surrogate Legend

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

# QC Sample Results

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237765-1

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

Lab Sample ID: MB 240-680950/33

Matrix: Water

Analysis Batch: 680950

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                  | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene       | 1.0       | U            | 1.0 | 0.49 | ug/L |   |          | 11/18/25 12:23 | 1       |
| cis-1,2-Dichloroethene   | 1.0       | U            | 1.0 | 0.46 | ug/L |   |          | 11/18/25 12:23 | 1       |
| Tetrachloroethene        | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 11/18/25 12:23 | 1       |
| trans-1,2-Dichloroethene | 1.0       | U            | 1.0 | 0.51 | ug/L |   |          | 11/18/25 12:23 | 1       |
| Trichloroethene          | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 11/18/25 12:23 | 1       |
| Vinyl chloride           | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 11/18/25 12:23 | 1       |

| Surrogate                    | MB %Recovery | MB Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 109          |              | 62 - 137 |          | 11/18/25 12:23 | 1       |
| 4-Bromofluorobenzene (Surr)  | 101          |              | 56 - 136 |          | 11/18/25 12:23 | 1       |
| Toluene-d8 (Surr)            | 105          |              | 78 - 122 |          | 11/18/25 12:23 | 1       |
| Dibromofluoromethane (Surr)  | 98           |              | 73 - 120 |          | 11/18/25 12:23 | 1       |

Lab Sample ID: LCS 240-680950/5

Matrix: Water

Analysis Batch: 680950

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1,1-Dichloroethene       | 25.0        | 20.4       |               | ug/L |   | 82   | 63 - 134    |
| cis-1,2-Dichloroethene   | 25.0        | 22.2       |               | ug/L |   | 89   | 77 - 123    |
| Tetrachloroethene        | 25.0        | 22.7       |               | ug/L |   | 91   | 76 - 123    |
| trans-1,2-Dichloroethene | 25.0        | 20.2       |               | ug/L |   | 81   | 75 - 124    |
| Trichloroethene          | 25.0        | 20.5       |               | ug/L |   | 82   | 70 - 122    |
| Vinyl chloride           | 25.0        | 26.7       |               | ug/L |   | 107  | 60 - 144    |

| Surrogate                    | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 91            |               | 62 - 137 |
| 4-Bromofluorobenzene (Surr)  | 115           |               | 56 - 136 |
| Toluene-d8 (Surr)            | 95            |               | 78 - 122 |
| Dibromofluoromethane (Surr)  | 90            |               | 73 - 120 |

Lab Sample ID: 240-237298-C-1 MS

Matrix: Water

Analysis Batch: 680950

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 |
|--------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| 1,1-Dichloroethene       | 1.0           | U                | 25.0        | 17.4      |              | ug/L |   | 70   | 56 - 135    |
| cis-1,2-Dichloroethene   | 8.4           | F1 F2            | 25.0        | 23.4      | F1           | ug/L |   | 60   | 66 - 128    |
| Tetrachloroethene        | 1.0           | U                | 25.0        | 18.1      |              | ug/L |   | 72   | 62 - 131    |
| trans-1,2-Dichloroethene | 1.0           | U F2             | 25.0        | 16.7      |              | ug/L |   | 67   | 56 - 136    |
| Trichloroethene          | 0.76          | J                | 25.0        | 18.1      |              | ug/L |   | 70   | 61 - 124    |
| Vinyl chloride           | 1.0           | U                | 25.0        | 20.6      |              | ug/L |   | 83   | 43 - 157    |

| Surrogate                    | MS %Recovery | MS Qualifier | Limits   |
|------------------------------|--------------|--------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 96           |              | 62 - 137 |
| 4-Bromofluorobenzene (Surr)  | 111          |              | 56 - 136 |
| Toluene-d8 (Surr)            | 105          |              | 78 - 122 |

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# QC Sample Results

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237765-1

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

Lab Sample ID: 240-237298-C-1 MS

Matrix: Water

Analysis Batch: 680950

Client Sample ID: Matrix Spike

Prep Type: Total/NA

|                             | MS        | MS        |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| Dibromofluoromethane (Surr) | 74        |           | 73 - 120 |

Lab Sample ID: 240-237298-C-1 MSD

Matrix: Water

Analysis Batch: 680950

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 |
|--------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| 1,1-Dichloroethene       | 1.0           | U                | 25.0        | 21.6       |               | ug/L |   | 86   | 56 - 135    | 21  | 26        |
| cis-1,2-Dichloroethene   | 8.4           | F1 F2            | 25.0        | 31.8       | F2            | ug/L |   | 93   | 66 - 128    | 30  | 14        |
| Tetrachloroethene        | 1.0           | U                | 25.0        | 17.9       |               | ug/L |   | 72   | 62 - 131    | 1   | 20        |
| trans-1,2-Dichloroethene | 1.0           | U F2             | 25.0        | 21.9       | F2            | ug/L |   | 88   | 56 - 136    | 27  | 15        |
| Trichloroethene          | 0.76          | J                | 25.0        | 18.9       |               | ug/L |   | 72   | 61 - 124    | 4   | 15        |
| Vinyl chloride           | 1.0           | U                | 25.0        | 22.3       |               | ug/L |   | 89   | 43 - 157    | 8   | 24        |

|                              | MSD       | MSD       |          |
|------------------------------|-----------|-----------|----------|
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 1,2-Dichloroethane-d4 (Surr) | 99        |           | 62 - 137 |
| 4-Bromofluorobenzene (Surr)  | 116       |           | 56 - 136 |
| Toluene-d8 (Surr)            | 109       |           | 78 - 122 |
| Dibromofluoromethane (Surr)  | 101       |           | 73 - 120 |

Lab Sample ID: MB 240-681142/9

Matrix: Water

Analysis Batch: 681142

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                  | MB Result | MB Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene       | 1.0       | U            | 1.0 | 0.49 | ug/L |   |          | 11/19/25 11:05 | 1       |
| cis-1,2-Dichloroethene   | 1.0       | U            | 1.0 | 0.46 | ug/L |   |          | 11/19/25 11:05 | 1       |
| Tetrachloroethene        | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 11/19/25 11:05 | 1       |
| trans-1,2-Dichloroethene | 1.0       | U            | 1.0 | 0.51 | ug/L |   |          | 11/19/25 11:05 | 1       |
| Trichloroethene          | 1.0       | U            | 1.0 | 0.44 | ug/L |   |          | 11/19/25 11:05 | 1       |
| Vinyl chloride           | 1.0       | U            | 1.0 | 0.45 | ug/L |   |          | 11/19/25 11:05 | 1       |

|                              | MB        | MB        |          |          |                |         |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 110       |           | 62 - 137 |          | 11/19/25 11:05 | 1       |
| 4-Bromofluorobenzene (Surr)  | 90        |           | 56 - 136 |          | 11/19/25 11:05 | 1       |
| Toluene-d8 (Surr)            | 98        |           | 78 - 122 |          | 11/19/25 11:05 | 1       |
| Dibromofluoromethane (Surr)  | 109       |           | 73 - 120 |          | 11/19/25 11:05 | 1       |

Lab Sample ID: LCS 240-681142/5

Matrix: Water

Analysis Batch: 681142

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                  | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|--------------------------|-------------|------------|---------------|------|---|------|-------------|
| 1,1-Dichloroethene       | 25.0        | 24.1       |               | ug/L |   | 97   | 63 - 134    |
| cis-1,2-Dichloroethene   | 25.0        | 23.8       |               | ug/L |   | 95   | 77 - 123    |
| Tetrachloroethene        | 25.0        | 24.0       |               | ug/L |   | 96   | 76 - 123    |
| trans-1,2-Dichloroethene | 25.0        | 24.6       |               | ug/L |   | 99   | 75 - 124    |
| Trichloroethene          | 25.0        | 23.8       |               | ug/L |   | 95   | 70 - 122    |

Eurofins Cleveland

# QC Sample Results

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237765-1

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

Lab Sample ID: LCS 240-681142/5

Matrix: Water

Analysis Batch: 681142

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte        | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec Limits |
|----------------|-------------|------------|---------------|------|---|------|-------------|
| Vinyl chloride | 25.0        | 25.5       |               | ug/L |   | 102  | 60 - 144    |

|                              | LCS %Recovery | LCS Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| <b>Surrogate</b>             |               |               |          |
| 1,2-Dichloroethane-d4 (Surr) | 99            |               | 62 - 137 |
| 4-Bromofluorobenzene (Surr)  | 102           |               | 56 - 136 |
| Toluene-d8 (Surr)            | 99            |               | 78 - 122 |
| Dibromofluoromethane (Surr)  | 100           |               | 73 - 120 |

Lab Sample ID: 240-237551-B-12 MS

Matrix: Water

Analysis Batch: 681142

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 |
|--------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|-------------|
| 1,1-Dichloroethene       | 1.0           | U                | 25.0        | 24.5      |              | ug/L |   | 98   | 56 - 135    |
| cis-1,2-Dichloroethene   | 100           | E                | 25.0        | 128       | E 4          | ug/L |   | 109  | 66 - 128    |
| Tetrachloroethene        | 5.9           |                  | 25.0        | 27.3      |              | ug/L |   | 86   | 62 - 131    |
| trans-1,2-Dichloroethene | 0.61          | J                | 25.0        | 24.6      |              | ug/L |   | 96   | 56 - 136    |
| Trichloroethene          | 0.45          | J                | 25.0        | 24.8      |              | ug/L |   | 97   | 61 - 124    |
| Vinyl chloride           | 150           | E                | 25.0        | 173       | E 4          | ug/L |   | 86   | 43 - 157    |

|                              | MS %Recovery | MS Qualifier | Limits   |
|------------------------------|--------------|--------------|----------|
| <b>Surrogate</b>             |              |              |          |
| 1,2-Dichloroethane-d4 (Surr) | 110          |              | 62 - 137 |
| 4-Bromofluorobenzene (Surr)  | 105          |              | 56 - 136 |
| Toluene-d8 (Surr)            | 103          |              | 78 - 122 |
| Dibromofluoromethane (Surr)  | 107          |              | 73 - 120 |

Lab Sample ID: 240-237551-B-12 MSD

Matrix: Water

Analysis Batch: 681142

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 |
|--------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|-------------|-----|-----------|
| 1,1-Dichloroethene       | 1.0           | U                | 25.0        | 21.7       |               | ug/L |   | 87   | 56 - 135    | 12  | 26        |
| cis-1,2-Dichloroethene   | 100           | E                | 25.0        | 118        | E 4           | ug/L |   | 70   | 66 - 128    | 8   | 14        |
| Tetrachloroethene        | 5.9           |                  | 25.0        | 25.0       |               | ug/L |   | 76   | 62 - 131    | 9   | 20        |
| trans-1,2-Dichloroethene | 0.61          | J                | 25.0        | 22.1       |               | ug/L |   | 86   | 56 - 136    | 11  | 15        |
| Trichloroethene          | 0.45          | J                | 25.0        | 21.8       |               | ug/L |   | 85   | 61 - 124    | 13  | 15        |
| Vinyl chloride           | 150           | E                | 25.0        | 156        | E 4           | ug/L |   | 17   | 43 - 157    | 11  | 24        |

|                              | MSD %Recovery | MSD Qualifier | Limits   |
|------------------------------|---------------|---------------|----------|
| <b>Surrogate</b>             |               |               |          |
| 1,2-Dichloroethane-d4 (Surr) | 102           |               | 62 - 137 |
| 4-Bromofluorobenzene (Surr)  | 101           |               | 56 - 136 |
| Toluene-d8 (Surr)            | 97            |               | 78 - 122 |
| Dibromofluoromethane (Surr)  | 99            |               | 73 - 120 |

Eurofins Cleveland

# QC Sample Results

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237765-1

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

Lab Sample ID: MB 240-681241/7

Matrix: Water

Analysis Batch: 681241

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                      | MB<br>Result    | MB<br>Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------------|-----------------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane                  | 2.0             | U               | 2.0      | 0.86 | ug/L |   |          | 11/19/25 13:38 | 1       |
| Surrogate                    | MB<br>%Recovery | MB<br>Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 93              |                 | 64 - 136 |      |      |   |          | 11/19/25 13:38 | 1       |

Lab Sample ID: LCS 240-681241/5

Matrix: Water

Analysis Batch: 681241

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                      |                  | Spike<br>Added   | LCS<br>Result | LCS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |  |
|------------------------------|------------------|------------------|---------------|------------------|------|---|------|----------------|--|
| 1,4-Dioxane                  |                  | 10.0             | 8.13          |                  | ug/L |   | 81   | 68 - 120       |  |
| Surrogate                    | LCS<br>%Recovery | LCS<br>Qualifier | Limits        |                  |      |   |      |                |  |
| 1,2-Dichloroethane-d4 (Surr) | 92               |                  | 64 - 136      |                  |      |   |      |                |  |

Lab Sample ID: 240-237760-F-2 MS

Matrix: Water

Analysis Batch: 681241

Client Sample ID: Matrix Spike

Prep Type: Total/NA

| Analyte                      | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits |  |
|------------------------------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|----------------|--|
| 1,4-Dioxane                  | 2.0              |                     | 10.0           | 9.29         |                 | ug/L |   | 72   | 45 - 145       |  |
| Surrogate                    | MS<br>%Recovery  | MS<br>Qualifier     | Limits         |              |                 |      |   |      |                |  |
| 1,2-Dichloroethane-d4 (Surr) | 109              |                     | 64 - 136       |              |                 |      |   |      |                |  |

Lab Sample ID: 240-237760-F-2 MSD

Matrix: Water

Analysis Batch: 681241

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

| Analyte                      | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|------------------------------|------------------|---------------------|----------------|---------------|------------------|------|---|------|----------------|-----|--------------|
| 1,4-Dioxane                  | 2.0              |                     | 10.0           | 8.95          |                  | ug/L |   | 69   | 45 - 145       | 4   | 19           |
| Surrogate                    | MSD<br>%Recovery | MSD<br>Qualifier    | Limits         |               |                  |      |   |      |                |     |              |
| 1,2-Dichloroethane-d4 (Surr) | 112              |                     | 64 - 136       |               |                  |      |   |      |                |     |              |

## QC Association Summary

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237765-1

### GC/MS VOA

#### Analysis Batch: 680950

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 240-237765-2       | MW-123S_111225         | Total/NA  | Water  | 8260D  |            |
| MB 240-680950/33   | Method Blank           | Total/NA  | Water  | 8260D  |            |
| LCS 240-680950/5   | Lab Control Sample     | Total/NA  | Water  | 8260D  |            |
| 240-237298-C-1 MS  | Matrix Spike           | Total/NA  | Water  | 8260D  |            |
| 240-237298-C-1 MSD | Matrix Spike Duplicate | Total/NA  | Water  | 8260D  |            |

#### Analysis Batch: 681142

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 240-237765-1        | TRIP BLANK_139         | Total/NA  | Water  | 8260D  |            |
| MB 240-681142/9     | Method Blank           | Total/NA  | Water  | 8260D  |            |
| LCS 240-681142/5    | Lab Control Sample     | Total/NA  | Water  | 8260D  |            |
| 240-237551-B-12 MS  | Matrix Spike           | Total/NA  | Water  | 8260D  |            |
| 240-237551-B-12 MSD | Matrix Spike Duplicate | Total/NA  | Water  | 8260D  |            |

#### Analysis Batch: 681241

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method    | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 240-237765-2       | MW-123S_111225         | Total/NA  | Water  | 8260D SIM |            |
| MB 240-681241/7    | Method Blank           | Total/NA  | Water  | 8260D SIM |            |
| LCS 240-681241/5   | Lab Control Sample     | Total/NA  | Water  | 8260D SIM |            |
| 240-237760-F-2 MS  | Matrix Spike           | Total/NA  | Water  | 8260D SIM |            |
| 240-237760-F-2 MSD | Matrix Spike Duplicate | Total/NA  | Water  | 8260D SIM |            |

Lab Chronicle

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237765-1

Client Sample ID: TRIP BLANK\_139  
Date Collected: 11/12/25 00:00  
Date Received: 11/14/25 08:00

Lab Sample ID: 240-237765-1  
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 681142       | MS      | EET CLE | 11/19/25 11:29       |

Client Sample ID: MW-123S\_111225  
Date Collected: 11/12/25 09:05  
Date Received: 11/14/25 08:00

Lab Sample ID: 240-237765-2  
Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 680950       | MS      | EET CLE | 11/18/25 17:50       |
| Total/NA  | Analysis   | 8260D SIM    |     | 1               | 681241       | R5XG    | EET CLE | 11/19/25 15:11       |

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

Job ID: 240-237765-1

### 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 |
|--------------------|---------------------|-----------------------|-----------------|
| Connecticut        | State               | PH-0806               | 09-30-26        |
| Georgia            | State               | 4062                  | 02-27-26        |
| Illinois           | NELAP               | 200004                | 08-31-26        |
| Iowa               | State               | 421                   | 06-01-27        |
| Kansas             | NELAP               | E-10336               | 01-31-26        |
| Kentucky (UST)     | State               | 112225                | 02-28-26        |
| Kentucky (WW)      | State               | KY98016               | 12-31-25        |
| Minnesota          | NELAP               | 039-999-348           | 12-31-25        |
| New Hampshire      | NELAP               | 2250                  | 09-30-26        |
| New Jersey         | NELAP               | OH001                 | 06-30-26        |
| New York           | NELAP               | 10975                 | 04-01-26        |
| North Dakota       | State               | R-244                 | 02-27-26        |
| Ohio               | State               | 8303                  | 02-27-26        |
| Ohio VAP           | State               | ORELAP 4062           | 02-28-26        |
| Oregon             | NELAP               | 4062                  | 02-27-26        |
| Pennsylvania       | NELAP               | 68-00340              | 08-31-26        |
| Texas              | NELAP               | T104704517            | 08-31-26        |
| US Fish & Wildlife | US Federal Programs | A26406                | 02-28-26        |
| USDA               | US Federal Programs | P330-18-00281         | 01-05-27        |
| Virginia           | NELAP               | 460175                | 09-30-26        |
| West Virginia DEP  | State               | 210                   | 12-31-25        |
| Wisconsin          | State               | 399167560             | 08-31-26        |

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**Eurofins - Cleveland Sample Receipt Form/Narrative**  
**Barberton Facility**

Login # \_\_\_\_\_

Client Atcoda 15

Site Name \_\_\_\_\_

Cooler unpacked by: JM

Cooler Received on 11/14/25

Opened on 11/14/25

FedEx 1<sup>st</sup> Grd Exp UPS FAS Waypoint

Client Drop Off \_\_\_\_\_

Eurofins Courier \_\_\_\_\_

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 Mel Ice

Blue Ice \_\_\_\_\_

Dry Ice \_\_\_\_\_

Water \_\_\_\_\_

None \_\_\_\_\_

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 13

(CF 10.6 °C)

Observed Cooler Temp. 2.0 °C

Corrected Cooler Temp. 2.6 °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 (YAN), # of containers (YAN), and sample type of grab/comp (YAN)?

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# HC567196

14 Were VOAs on the COC?

Yes No NA

15 Were air bubbles >6 mm in any VOA vials? Yes Larger than this

Yes No NA

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

Yes No NA

17 Was a LL Hg or Me Hg trip blank present? Yes

Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other \_\_\_\_\_

Concerning \_\_\_\_\_

**18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES** ☐ additional next page

Labeled by: \_\_\_\_\_

Labels Verified 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  
 Oil and Grease  
 TOC

Temperature readings. \_\_\_\_\_

| Client Sample ID | Lab ID         | Container Type                    | Container | Preservation | Preservation |
|------------------|----------------|-----------------------------------|-----------|--------------|--------------|
|                  |                |                                   | pH        | Temp         | Added        |
| TRIP BLANK_139   | 240-237765-A-1 | Voa Vial 40ml - Hydrochloric Acid | _____     | _____        | _____        |
| MW-123S_111225   | 240-237765-A-2 | Voa Vial 40ml - Hydrochloric Acid | _____     | _____        | _____        |
| MW-123S_111225   | 240-237765-B-2 | Voa Vial 40ml - Hydrochloric Acid | _____     | _____        | _____        |
| MW-123S_111225   | 240-237765-C-2 | Voa Vial 40ml - Hydrochloric Acid | _____     | _____        | _____        |
| MW-123S_111225   | 240-237765-D-2 | Voa Vial 40ml - Hydrochloric Acid | _____     | _____        | _____        |
| MW-123S_111225   | 240-237765-E-2 | Voa Vial 40ml - Hydrochloric Acid | _____     | _____        | _____        |
| MW-123S_111225   | 240-237765-F-2 | Voa Vial 40ml - Hydrochloric Acid | _____     | _____        | _____        |

# DATA VERIFICATION REPORT



November 24, 2025

Megan Meckley  
Arcadis  
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: 30251157.401.04 LTP

Event Specific Scope of Work References: Sample COC

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 237765-1

Sample date: 2025-11-12

Report received by CADENA: 2025-11-24

Initial Data Verification completed by CADENA: 2025-11-24

Number of Samples:2

Sample Matrices:Water

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:

GCMS VOC QC batch MS/MSD recovery outliers were not determined using a client sample so qualification was not required based on these sample-specific QC outliers.

GCMS VOC QC batch CCV response outliers as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

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.

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:** 237765-1

**Sample Name:** TRIP BLANK\_139

MW-123S\_111225

**Lab Sample ID:** 2402377651

2402377652

**Sample Date:** 11/12/2025

11/12/2025

| Analyte | Cas No. | Report |       |       |           | Valid  |       |       |           |
|---------|---------|--------|-------|-------|-----------|--------|-------|-------|-----------|
|         |         | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier |

## GC/MS VOC

### OSW-8260D

|                          |          |    |     |      |     |     |     |      |     |
|--------------------------|----------|----|-----|------|-----|-----|-----|------|-----|
| 1,1-Dichloroethene       | 75-35-4  | ND | 1.0 | ug/l | --- | ND  | 1.0 | ug/l | --- |
| cis-1,2-Dichloroethene   | 156-59-2 | ND | 1.0 | ug/l | --- | ND  | 1.0 | ug/l | --- |
| Tetrachloroethene        | 127-18-4 | ND | 1.0 | ug/l | --- | ND  | 1.0 | ug/l | --- |
| trans-1,2-Dichloroethene | 156-60-5 | ND | 1.0 | ug/l | --- | ND  | 1.0 | ug/l | --- |
| Trichloroethene          | 79-01-6  | ND | 1.0 | ug/l | --- | ND  | 1.0 | ug/l | --- |
| Vinyl chloride           | 75-01-4  | ND | 1.0 | ug/l | --- | 1.6 | 1.0 | ug/l | --- |

### OSW-8260DSIM

|             |          |  |  |  |  |     |     |      |   |
|-------------|----------|--|--|--|--|-----|-----|------|---|
| 1,4-Dioxane | 123-91-1 |  |  |  |  | 1.8 | 2.0 | ug/l | J |
|-------------|----------|--|--|--|--|-----|-----|------|---|

# Ford Motor Company – Livonia Transmission Project

## Data Review

### Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-237765-1

CADENA Verification Report: 2025-11-24

Analyses Performed By:  
Eurofins Cleveland  
Barberton, Ohio

Report # 62479R  
Review Level: Tier III  
Project: 30309849.401.02

## DATA REVIEW

### SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-237765-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

| Sample ID      | Lab ID       | Matrix | Sample Collection Date | Parent Sample | Analysis |         |
|----------------|--------------|--------|------------------------|---------------|----------|---------|
|                |              |        |                        |               | VOC      | VOC SIM |
| TRIP BLANK_139 | 240-237765-1 | Water  | 11/12/2025             |               | X        |         |
| MW-123S_111225 | 240-237765-2 | Water  | 11/12/2025             |               | X        | X       |

## DATA REVIEW

### ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

| Items Reviewed                                                         | Reported |     | Performance Acceptable |     | Not Required |
|------------------------------------------------------------------------|----------|-----|------------------------|-----|--------------|
|                                                                        | No       | Yes | No                     | Yes |              |
| 1. Sample receipt condition                                            |          | X   |                        | X   |              |
| 2. Requested analyses and sample results                               |          | X   |                        | X   |              |
| 3. Master tracking list                                                |          | X   |                        | X   |              |
| 4. Methods of analysis                                                 |          | X   |                        | X   |              |
| 5. Reporting limits                                                    |          | X   |                        | X   |              |
| 6. Sample collection date                                              |          | X   |                        | X   |              |
| 7. Laboratory sample received date                                     |          | X   |                        | X   |              |
| 8. Sample preservation verification (as applicable)                    |          | X   |                        | X   |              |
| 9. Sample preparation/extraction/analysis dates                        |          | X   |                        | X   |              |
| 10. Fully executed Chain-of-Custody (COC) form                         |          | X   |                        | X   |              |
| 11. Narrative summary of Quality Assurance or sample problems provided |          | X   |                        | X   |              |
| 12. Data Package Completeness and Compliance                           |          | X   |                        | X   |              |

## DATA REVIEW

### ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8260D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U    The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
  - B    The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
  - E    The compound was quantitated above the calibration range.
  - D    Concentration is based on a diluted sample analysis.
- Validation Qualifiers
  - J    The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
  - UJ   The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
  - UB   Analyte considered non-detect at the listed value due to associated blank contamination.
  - R    The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

## DATA REVIEW

### VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

#### 1. Holding Times

The specified holding times for the following methods are presented in the following table.

| Method                 | Matrix | Holding Time                                                                            | Preservation                    |
|------------------------|--------|-----------------------------------------------------------------------------------------|---------------------------------|
| SW-846 8260D/8260D-SIM | Water  | 14 days from collection to analysis<br>7 days from collection to analysis (Unpreserved) | Cool to < 6 °C; pH < 2 with HCl |

All samples were analyzed within the specified holding time criteria.

#### 2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable, and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

#### 3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

##### 3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

##### 3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

| Sample ID      | Initial /Continuing                    | Compound          | CCV (%D) |
|----------------|----------------------------------------|-------------------|----------|
| MW-123S_111225 | Continuing Calibration Verification %D | Tetrachloroethene | -21.0%   |

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

| Initial/Continuing                 | Criteria                            | Sample Result | Qualification |
|------------------------------------|-------------------------------------|---------------|---------------|
| Initial and Continuing Calibration | RRF <0.05                           | Non-detect    | R             |
|                                    |                                     | Detect        | J             |
|                                    | RRF <0.01 <sup>1</sup>              | Non-detect    | R             |
|                                    |                                     | Detect        | J             |
|                                    | RRF >0.05 or RRF >0.01 <sup>1</sup> | Non-detect    | No Action     |

## DATA REVIEW

| Initial/Continuing     | Criteria                                      | Sample Result | Qualification |
|------------------------|-----------------------------------------------|---------------|---------------|
|                        |                                               | Detect        |               |
| Initial Calibration    | %RSD > 20% or a correlation coefficient <0.99 | Non-detect    | UJ            |
|                        |                                               | Detect        | J             |
|                        | %RSD > 90%                                    | Non-detect    | R             |
|                        |                                               | Detect        | J             |
| Continuing Calibration | %D >20% (increase in sensitivity)             | Non-detect    | UJ            |
|                        |                                               | Detect        | J             |
|                        | %D >20% (decrease in sensitivity)             | Non-detect    | UJ            |
|                        |                                               | Detect        | J             |
|                        | %D > 90% (increase/decrease in sensitivity)   | Non-detect    | R             |
|                        |                                               | Detect        | J             |

### 4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

### 5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

### 6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

### 7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

## DATA REVIEW

### DATA VALIDATION CHECKLIST FOR VOCs

| VOCs: 8260D/8260D-SIM                                       | Reported |     | Performance Acceptable |     | Not Required |
|-------------------------------------------------------------|----------|-----|------------------------|-----|--------------|
|                                                             | No       | Yes | No                     | Yes |              |
| GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)                |          |     |                        |     |              |
| Tier II Validation                                          |          |     |                        |     |              |
| Holding times/Preservation                                  |          | X   |                        | X   |              |
| Tier III Validation                                         |          |     |                        |     |              |
| System performance and column resolution                    |          | X   |                        | X   |              |
| Initial calibration %RSDs                                   |          | X   |                        | X   |              |
| Continuing calibration RRFs                                 |          | X   |                        | X   |              |
| Continuing calibration %Ds                                  |          | X   | X                      |     |              |
| Instrument tune and performance check                       |          | X   |                        | X   |              |
| Ion abundance criteria for each instrument used             |          | X   |                        | X   |              |
| Field Duplicate RPD                                         | X        |     |                        |     | X            |
| Internal standard                                           |          | X   |                        | X   |              |
| Compound identification and quantitation                    |          |     |                        |     |              |
| A. Reconstructed ion chromatograms                          |          | X   |                        | X   |              |
| B. Quantitation Reports                                     |          | X   |                        | X   |              |
| C. RT of sample compounds within the established RT windows |          | X   |                        | X   |              |
| D. Transcription/calculation errors present                 |          | X   |                        | X   |              |
| E. Reporting limits adjusted to reflect sample dilutions    |          | X   |                        | X   |              |

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

## DATA REVIEW

VALIDATION PERFORMED BY: Pooja Parab

SIGNATURE: 

DATE: January 5, 2026

PEER REVIEW: Andrew Korycinski

DATE: January 6, 2026

# CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



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## Definitions/Glossary

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237765-1

### 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. |
| E         | Result exceeded calibration range.                                                                                                                        |
| F1        | MS and/or MSD recovery exceeds control limits.                                                                                                            |
| F2        | MS/MSD RPD 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                                                                                        |
| SQL            | 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                                                                                       |

# Client Sample Results

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237765-1

Client Sample ID: TRIP BLANK\_139

Lab Sample ID: 240-237765-1

Date Collected: 11/12/25 00:00

Matrix: Water

Date Received: 11/14/25 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 |   |          | 11/19/25 11:29 | 1       |
| cis-1,2-Dichloroethene   | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 11/19/25 11:29 | 1       |
| Tetrachloroethene        | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 11/19/25 11:29 | 1       |
| trans-1,2-Dichloroethene | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 11/19/25 11:29 | 1       |
| Trichloroethene          | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 11/19/25 11:29 | 1       |
| Vinyl chloride           | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 11/19/25 11:29 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 109       |           | 62 - 137 |          | 11/19/25 11:29 | 1       |
| 4-Bromofluorobenzene (Surr)  | 86        |           | 56 - 136 |          | 11/19/25 11:29 | 1       |
| Toluene-d8 (Surr)            | 95        |           | 78 - 122 |          | 11/19/25 11:29 | 1       |
| Dibromofluoromethane (Surr)  | 107       |           | 73 - 120 |          | 11/19/25 11:29 | 1       |

# Client Sample Results

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237765-1

Client Sample ID: MW-123S\_111225

Lab Sample ID: 240-237765-2

Date Collected: 11/12/25 09:05

Matrix: Water

Date Received: 11/14/25 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                  | 1.8       | J         | 2.0      | 0.86 | ug/L |   |          | 11/19/25 15:11 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 104       |           | 64 - 136 |      |      |   |          | 11/19/25 15:11 | 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 |   |          | 11/18/25 17:50 | 1       |
| cis-1,2-Dichloroethene       | 1.0       | U         | 1.0      | 0.46 | ug/L |   |          | 11/18/25 17:50 | 1       |
| Tetrachloroethene            | 1.0       | U         | 1.0      | 0.44 | ug/L |   |          | 11/18/25 17:50 | 1       |
| trans-1,2-Dichloroethene     | 1.0       | U         | 1.0      | 0.51 | ug/L |   |          | 11/18/25 17:50 | 1       |
| Trichloroethene              | 1.0       | U         | 1.0      | 0.44 | ug/L |   |          | 11/18/25 17:50 | 1       |
| Vinyl chloride               | 1.6       |           | 1.0      | 0.45 | ug/L |   |          | 11/18/25 17:50 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 111       |           | 62 - 137 |      |      |   |          | 11/18/25 17:50 | 1       |
| 4-Bromofluorobenzene (Surr)  | 91        |           | 56 - 136 |      |      |   |          | 11/18/25 17:50 | 1       |
| Toluene-d8 (Surr)            | 103       |           | 78 - 122 |      |      |   |          | 11/18/25 17:50 | 1       |
| Dibromofluoromethane (Surr)  | 107       |           | 73 - 120 |      |      |   |          | 11/18/25 17:50 | 1       |