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# **ANALYTICAL REPORT**

# PREPARED FOR

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

Generated 8/20/2025 12:12:45 PM

# **JOB DESCRIPTION**

Ford LTP

# **JOB NUMBER**

240-230955-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



# **Eurofins Cleveland**

# **Job Notes**

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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# **Definitions/Glossary**

Client: Arcadis US Inc. Job ID: 240-230955-1 Project/Site: Ford LTP

**Qualifiers** 

**GC/MS VOA** 

Qualifier **Qualifier Description** 

F2 MS/MSD RPD exceeds control limits

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** 

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCI MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

**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) Toxicity Equivalent Quotient (Dioxin) **TEQ** 

**TNTC** Too Numerous To Count

# **Case Narrative**

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-230955-1 Eurofins Cleveland

Job Narrative 240-230955-1

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 8/15/2025 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 4.4°C.

### GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-668268 was outside the method criteria for the following analyte(s): Vinyl chloride. 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.

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

**Eurofins Cleveland** 

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Job ID: 240-230955-1

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# **Method Summary**

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-230955-1

| 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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# **Sample Summary**

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

Lab Sample ID Client Sample ID Sample Origin Matrix Collected Received TRIP BLANK\_108 240-230955-1 Water 08/13/25 00:00 08/15/25 08:00 Michigan MW-90S\_081325 240-230955-2 Water 08/13/25 14:05 08/15/25 08:00 Michigan

1

Job ID: 240-230955-1

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# **Detection Summary**

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-230955-1

Client Sample ID: TRIP BLANK\_108 Lab Sample ID: 240-230955-1

No Detections.

No Detections.

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# **Client Sample Results**

Client: Arcadis US Inc. Job ID: 240-230955-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK\_108

Lab Sample ID: 240-230955-1 Date Collected: 08/13/25 00:00

Matrix: Water

Date Received: 08/15/25 08:00

| Analyte                      | Result    | Qualifier | RL                  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|---------------------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene           | 1.0       | U         | 1.0                 | 0.49 | ug/L |   |          | 08/19/25 15:42 | 1       |
| cis-1,2-Dichloroethene       | 1.0       | U         | 1.0                 | 0.46 | ug/L |   |          | 08/19/25 15:42 | 1       |
| Tetrachloroethene            | 1.0       | U         | 1.0                 | 0.44 | ug/L |   |          | 08/19/25 15:42 | 1       |
| trans-1,2-Dichloroethene     | 1.0       | U         | 1.0                 | 0.51 | ug/L |   |          | 08/19/25 15:42 | 1       |
| Trichloroethene              | 1.0       | U         | 1.0                 | 0.44 | ug/L |   |          | 08/19/25 15:42 | 1       |
| Vinyl chloride               | 1.0       | U         | 1.0                 | 0.45 | ug/L |   |          | 08/19/25 15:42 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits              |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) |           |           | 62 - 137            |      |      | _ |          | 08/19/25 15:42 | 1       |
| 4-Bromofluorobenzene (Surr)  | 94        |           | 56 <sub>-</sub> 136 |      |      |   |          | 08/19/25 15:42 | 1       |
| Toluene-d8 (Surr)            | 94        |           | 78 - 122            |      |      |   |          | 08/19/25 15:42 | 1       |
| Dibromofluoromethane (Surr)  | 110       |           | 73 - 120            |      |      |   |          | 08/19/25 15:42 | 1       |

**Eurofins Cleveland** 

# **Client Sample Results**

Client: Arcadis US Inc. Job ID: 240-230955-1

Project/Site: Ford LTP

Client Sample ID: MW-90S\_081325

Date Collected: 08/13/25 14:05 Date Received: 08/15/25 08:00 Lab Sample ID: 240-230955-2

Matrix: Water

| Analyte                      | Result          | Qualifier  | RL                  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------------|------------|---------------------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane                  | 2.0             | U          | 2.0                 | 0.86 | ug/L |   |          | 08/18/25 14:32 | 1       |
| Surrogate                    | %Recovery       | Qualifier  | Limits              |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 102             |            | 68 - 127            |      |      | - |          | 08/18/25 14:32 | 1       |
| Method: SW846 8260D - Volati | le Organic Comp | ounds by G | ic/MS               |      |      |   |          |                |         |
| Analyte                      | •               | Qualifier  | RL                  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
| 1,1-Dichloroethene           | 1.0             | U          | 1.0                 | 0.49 | ug/L |   |          | 08/19/25 16:05 | 1       |
| cis-1,2-Dichloroethene       | 1.0             | U          | 1.0                 | 0.46 | ug/L |   |          | 08/19/25 16:05 | 1       |
| Tetrachloroethene            | 1.0             | U          | 1.0                 | 0.44 | ug/L |   |          | 08/19/25 16:05 | 1       |
| trans-1,2-Dichloroethene     | 1.0             | U          | 1.0                 | 0.51 | ug/L |   |          | 08/19/25 16:05 | 1       |
| Trichloroethene              | 1.0             | U          | 1.0                 | 0.44 | ug/L |   |          | 08/19/25 16:05 | 1       |
| Vinyl chloride               | 1.0             | U          | 1.0                 | 0.45 | ug/L |   |          | 08/19/25 16:05 | 1       |
| Surrogate                    | %Recovery       | Qualifier  | Limits              |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) |                 |            | 62 - 137            |      |      | - |          | 08/19/25 16:05 | 1       |
| 4-Bromofluorobenzene (Surr)  | 89              |            | 56 <sub>-</sub> 136 |      |      |   |          | 08/19/25 16:05 | 1       |
| Toluene-d8 (Surr)            | 91              |            | 78 - 122            |      |      |   |          | 08/19/25 16:05 | 1       |
| Dibromofluoromethane (Surr)  | 112             |            | 73 - 120            |      |      |   |          | 08/19/25 16:05 | 1       |

# **Surrogate Summary**

Client: Arcadis US Inc.

Job ID: 240-230955-1

Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

|                   |                        |          |          | Percent Su | rogate Reco |
|-------------------|------------------------|----------|----------|------------|-------------|
|                   |                        | DCA      | BFB      | TOL        | DBFM        |
| Lab Sample ID     | Client Sample ID       | (62-137) | (56-136) | (78-122)   | (73-120)    |
| 190-37709-A-4 MS  | Matrix Spike           | 100      | 105      | 96         | 99          |
| 190-37709-A-4 MSD | Matrix Spike Duplicate | 98       | 102      | 94         | 93          |
| 240-230955-1      | TRIP BLANK_108         | 111      | 94       | 94         | 110         |
| 240-230955-2      | MW-90S_081325          | 114      | 89       | 91         | 112         |
| LCS 240-668268/4  | Lab Control Sample     | 106      | 105      | 102        | 100         |
| MB 240-668268/7   | Method Blank           | 116      | 98       | 97         | 110         |

# 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

|                    |                        |          | Percent Surrogate Recovery (Acceptance Limits) |
|--------------------|------------------------|----------|--|
|                    |                        | DCA      |  |
| Lab Sample ID      | Client Sample ID       | (68-127) |  |
| 240-230851-B-4 MS  | Matrix Spike           | 102      |  |
| 240-230851-D-4 MSD | Matrix Spike Duplicate | 105      |  |
| 240-230955-2       | MW-90S_081325          | 102      |  |
| LCS 240-668022/5   | Lab Control Sample     | 99       |  |
| MB 240-668022/7    | Method Blank           | 99       |  |

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

**Eurofins Cleveland** 

Client: Arcadis US Inc. Job ID: 240-230955-1

Project/Site: Ford LTP Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 240-668268/7

**Matrix: Water** 

Analysis Batch: 668268

| Client Sample ID: Method Blank |  |
|--------------------------------|--|
| Prop Type: Total/NA            |  |

Prep Type: Total/NA

|                          | MB     | MB        |     |      |      |   |          |                |         |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Analyte                  | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
| 1,1-Dichloroethene       | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 08/19/25 13:01 | 1       |
| cis-1,2-Dichloroethene   | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 08/19/25 13:01 | 1       |
| Tetrachloroethene        | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 08/19/25 13:01 | 1       |
| trans-1,2-Dichloroethene | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 08/19/25 13:01 | 1       |
| Trichloroethene          | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 08/19/25 13:01 | 1       |
| Vinyl chloride           | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 08/19/25 13:01 | 1       |
|                          |        |           |     |      |      |   |          |                |         |

| MB MB               |                               |   |   |  |
|---------------------|-------------------------------|---|---|--|
| %Recovery Qualifier | Limits                        | Prepared  | Analyzed  | Dil Fac  |
| 116                 | 62 - 137                      |   | 08/19/25 13:01  | 1  |
| 98                  | 56 - 136                      |   | 08/19/25 13:01  | 1  |
| 97                  | 78 - 122                      |   | 08/19/25 13:01  | 1  |
| 110                 | 73 - 120                      |   | 08/19/25 13:01  | 1  |
|                     | %Recovery Qualifier 116 98 97 | %Recovery         Qualifier         Limits           116         62 - 137           98         56 - 136           97         78 - 122 | %Recovery         Qualifier         Limits         Prepared           116         62 - 137         98         56 - 136           97         78 - 122         78 - 122 | %Recovery         Qualifier         Limits         Prepared         Analyzed           116         62 - 137         08/19/25 13:01           98         56 - 136         08/19/25 13:01           97         78 - 122         08/19/25 13:01 |

Lab Sample ID: LCS 240-668268/4

**Matrix: Water** 

1,1-Dichloroethene

Tetrachloroethene

Trichloroethene

Vinyl chloride

cis-1,2-Dichloroethene

trans-1,2-Dichloroethene

Analyte

Analysis Batch: 668268

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

Spike LCS LCS %Rec Added Result Qualifier Unit %Rec Limits 25.0 28.8 115 63 - 134 ug/L 25.0 27.4 77 - 123 ug/L 110 25.0 26.4 106 76 - 123 ug/L 25.0 27.1 ug/L 108 75 - 124 25.0 26.6 ug/L 106 70 - 122 ug/L 12.5 14.4 115 60 - 144

|                              | LCS       | LCS       |          |
|------------------------------|-----------|-----------|----------|
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 1,2-Dichloroethane-d4 (Surr) | 106       |           | 62 _ 137 |
| 4-Bromofluorobenzene (Surr)  | 105       |           | 56 - 136 |
| Toluene-d8 (Surr)            | 102       |           | 78 - 122 |
| Dibromofluoromethane (Surr)  | 100       |           | 73 - 120 |

Lab Sample ID: 190-37709-A-4 MS

Analysis Batch: 668268

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

|                |             | Sample | Sample    | Spike | MS     | MS        |      |   |      | %Rec     |  |
|----------------|-------------|--------|-----------|-------|--------|-----------|------|---|------|----------|--|
| Analyte        |             | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits   |  |
| 1,1-Dichloroe  | thene       | 6.7    | U         | 167   | 134    |           | ug/L |   | 81   | 56 - 135 |  |
| cis-1,2-Dichlo | proethene   | 6.7    | U         | 167   | 153    |           | ug/L |   | 92   | 66 - 128 |  |
| Tetrachloroet  | hene        | 6.7    | U F2      | 167   | 115    |           | ug/L |   | 69   | 62 - 131 |  |
| trans-1,2-Dicl | nloroethene | 6.7    | U         | 167   | 138    |           | ug/L |   | 83   | 56 - 136 |  |
| Trichloroethe  | ne          | 6.7    | U         | 167   | 134    |           | ug/L |   | 80   | 61 - 124 |  |
| Vinyl chloride |             | 6.7    | U         | 83.4  | 73.1   |           | ug/L |   | 88   | 43 - 157 |  |
|                |             |        |           |       |        |           |      |   |      |          |  |

|                              | MS        | MS        |          |
|------------------------------|-----------|-----------|----------|
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 1,2-Dichloroethane-d4 (Surr) | 100       |           | 62 - 137 |
| 4-Bromofluorobenzene (Surr)  | 105       |           | 56 - 136 |
| Toluene-d8 (Surr)            | 96        |           | 78 - 122 |

**Eurofins Cleveland** 

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Client: Arcadis US Inc. Job ID: 240-230955-1 Project/Site: Ford LTP

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

MS MS

**Matrix: Water** 

Analysis Batch: 668268

Lab Sample ID: 190-37709-A-4 MS

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

Surrogate

%Recovery Qualifier Limits Dibromofluoromethane (Surr) 99 73 - 120

Lab Sample ID: 190-37709-A-4 MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 668268

| Sampl                       | e Sample    | Spike | MSD    | MSD       |      |   |      | %Rec     |     | RPD   |
|-----------------------------|-------------|-------|--------|-----------|------|---|------|----------|-----|-------|
| Analyte Resu                | t Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits   | RPD | Limit |
| 1,1-Dichloroethene 6.       | 7 U         | 167   | 165    |           | ug/L |   | 99   | 56 - 135 | 21  | 26    |
| cis-1,2-Dichloroethene 6.   | 7 U         | 167   | 169    |           | ug/L |   | 101  | 66 - 128 | 10  | 14    |
| Tetrachloroethene 6.        | 7 U F2      | 167   | 150    | F2        | ug/L |   | 90   | 62 - 131 | 26  | 20    |
| trans-1,2-Dichloroethene 6. | 7 U         | 167   | 158    |           | ug/L |   | 95   | 56 - 136 | 13  | 15    |
| Trichloroethene 6.          | 7 U         | 167   | 154    |           | ug/L |   | 92   | 61 - 124 | 14  | 15    |
| Vinyl chloride 6.           | 7 U         | 83.4  | 87.2   |           | ug/L |   | 105  | 43 - 157 | 18  | 24    |

MSD MSD Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 98 62 - 137 102 4-Bromofluorobenzene (Surr) 56 - 136 Toluene-d8 (Surr) 94 78 - 122 Dibromofluoromethane (Surr) 93 73 - 120

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

MR MR

**Matrix: Water** 

Analysis Batch: 668022

Lab Sample ID: MB 240-668022/7

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

Dil Fac Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 08/18/25 12:58 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 99 68 - 127 08/18/25 12:58

Lab Sample ID: LCS 240-668022/5

**Matrix: Water** 

**Analysis Batch: 668022** 

|             | Spike | LCS LCS     |             |   |      | %Rec   |  |
|-------------|-------|-------------|-------------|---|------|--------|--|
| Analyte     | Added | Result Qual | lifier Unit | D | %Rec | Limits |  |
| 1.4-Dioyana |       | 7 84        | ua/l        |   | 78   | 75 121 |  |

LCS LCS %Recovery Qualifier Surrogate Limits 68 - 127 1,2-Dichloroethane-d4 (Surr) 99

Lab Sample ID: 240-230851-B-4 MS Client Sample ID: Matrix Spike

**Matrix: Water** 

Analysis Batch: 668022

| _           | Sample | Sample    | Spike | MS     | MS        |      |   |      | %Rec     |  |
|-------------|--------|-----------|-------|--------|-----------|------|---|------|----------|--|
| Analyte     | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits   |  |
| 1,4-Dioxane | 2.0    | U         | 10.0  | 8.58   |           | ug/L |   | 86   | 20 - 180 |  |

**Eurofins Cleveland** 

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

# **QC Sample Results**

Client: Arcadis US Inc. Job ID: 240-230955-1

Project/Site: Ford LTP

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

%Recovery Qualifier

105

Surrogate

1,2-Dichloroethane-d4 (Surr)

|                              | MS        | MS        |          |         |                     |                |       |
|------------------------------|-----------|-----------|----------|---------|---------------------|----------------|-------|
| Surrogate                    | %Recovery | Qualifier | Limits   |         |                     |                |       |
| 1,2-Dichloroethane-d4 (Surr) | 102       |           | 68 - 127 |         |                     |                |       |
| Lab Sample ID: 240-230851    | -D-4 MSD  |           |          |         | Client Sample ID: I | Matrix Spike Γ | uplic |
| Matrix: Water                |           |           |          |         |                     | Prep Type:     | Total |
| Analysis Batch: 668022       |           |           |          |         |                     |                |       |
|                              | Sample    | Sample    | Spike    | MSD MSD |                     | %Rec           |       |

|             | Sample | Sample    | Spike | MSD    | MSD       |      |   |      | %Rec     |     | RPD   |
|-------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| Analyte     | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits   | RPD | Limit |
| 1,4-Dioxane | 2.0    | U         | 10.0  | 8.66   |           | ug/L |   | 87   | 20 - 180 | 1   | 20    |
|             | MSD    | MSD       |       |        |           |      |   |      |          |     |       |

Limits

68 - 127

# **QC Association Summary**

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-230955-1

# **GC/MS VOA**

# Analysis Batch: 668022

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method    | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 240-230955-2       | MW-90S_081325          | Total/NA  | Water  | 8260D SIM |            |
| MB 240-668022/7    | Method Blank           | Total/NA  | Water  | 8260D SIM |            |
| LCS 240-668022/5   | Lab Control Sample     | Total/NA  | Water  | 8260D SIM |            |
| 240-230851-B-4 MS  | Matrix Spike           | Total/NA  | Water  | 8260D SIM |            |
| 240-230851-D-4 MSD | Matrix Spike Duplicate | Total/NA  | Water  | 8260D SIM |            |

# Analysis Batch: 668268

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 240-230955-1      | TRIP BLANK_108         | Total/NA  | Water  | 8260D  | <u> </u>   |
| 240-230955-2      | MW-90S_081325          | Total/NA  | Water  | 8260D  |            |
| MB 240-668268/7   | Method Blank           | Total/NA  | Water  | 8260D  |            |
| LCS 240-668268/4  | Lab Control Sample     | Total/NA  | Water  | 8260D  |            |
| 190-37709-A-4 MS  | Matrix Spike           | Total/NA  | Water  | 8260D  |            |
| 190-37709-A-4 MSD | Matrix Spike Duplicate | Total/NA  | Water  | 8260D  |            |

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# **Lab Chronicle**

Client: Arcadis US Inc. Job ID: 240-230955-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK\_108

Lab Sample ID: 240-230955-1 Date Collected: 08/13/25 00:00

Matrix: Water

Dilution Batch Batch Batch Prepared Method Prep Type Туре Run Factor **Number Analyst** Lab or Analyzed Total/NA 8260D 668268 LEE EET CLE 08/19/25 15:42 Analysis

Client Sample ID: MW-90S\_081325

Lab Sample ID: 240-230955-2 Date Collected: 08/13/25 14:05

**Matrix: Water** 

Date Received: 08/15/25 08:00

Date Received: 08/15/25 08:00

|           | Batch    | Batch     |     | Dilution | Batch  |         |         | Prepared       |
|-----------|----------|-----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре     | Method    | Run | Factor   | Number | Analyst | Lab     | or Analyzed    |
| Total/NA  | Analysis | 8260D     |     | 1        | 668268 | LEE     | EET CLE | 08/19/25 16:05 |
| Total/NA  | Analysis | 8260D SIM |     | 1        | 668022 | R5XG    | EET CLE | 08/18/25 14:32 |

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: 240-230955-1

# **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               | 12-31-26        |
| Georgia            | State               | 4062                  | 02-27-26        |
| Illinois           | NELAP               | 200004                | 08-31-26        |
| lowa               | 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               | 225024                | 09-30-25        |
| 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                  | 11-04-25        |
| Ohio VAP           | State               | ORELAP 4062           | 02-28-26        |
| Oregon             | NELAP               | 4062                  | 02-27-26        |
| Pennsylvania       | NELAP               | 68-00340              | 08-31-26        |
| Texas              | NELAP               | T104704517-22-19      | 08-31-25        |
| US Fish & Wildlife | US Federal Programs | A26406                | 02-28-26        |
| USDA               | US Federal Programs | P330-18-00281         | 01-05-27        |
| Virginia           | NELAP               | 460175                | 09-15-25        |
| West Virginia DEP  | State               | 210                   | 12-31-25        |
| Wisconsin          | State               | 399167560             | 08-31-25        |

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# **Chain of Custody Record**

| TestAmeric                       | C |   |
|----------------------------------|---|---|
| THE CHAPPED IN CONTROL OF STREET |   | - |

| Client Contact   | Regulat          | ory program:     |           | -        | DW              | 7     | NP       | DES      | ſ              | RC             | RA      | T (                     | Other              |                                    |                     |           |           |                      | -                     |               |          |                          |                |       |
|--|------------------|------------------|-----------|----------|-----------------|-------|----------|----------|----------------|----------------|---------|-------------------------|--------------------|------------------------------------|---------------------|-----------|-----------|----------------------|-----------------------|---------------|----------|--------------------------|----------------|-------|
| Company Name: Arcadis  | Client Project   | Managara Maga    | n Maal    | ılanı    |                 | leta. | -        | -4       | e              | 4 - 6          |         |                         |                    | lv s                               |                     |           |           |                      |                       |               |          | tAmerica L               | aboratories    | , Inc |
| Address: 28550 Cabot Drive, Suite 500  | Cheat Froject    | Manager: Mega    | III WIECK | uey      |                 | Site  | Col      | ntact;   | Samai          | itha 52        | paichle | r                       |                    | Lac                                | Cont                | act: M    | ike Del   | Monie                | :0                    |               | Co       | C No:                    |                |       |
| P. JOAN ON NO. 1 NOT ADDRESS   | Telephone: 248   | -994-2240        |           |          | -               | Tel   | epho     | ne: 2    | 48-994         | -2240          |         |                         |                    | Tele                               | phon                | : 330-    | 497-93    | 96                   |                       |               |          |                          |                |       |
| ity/State/Zip: Novi, MI, 48377   | Email: megan.    | meckley@arcad    | lis com   |          |                 |       | Anı      | lysis    | Turnar         | ound.          | ime     |                         |                    |                                    |                     |           | A         | naly                 | ses                   |               | For      | 1 of 1                   | COCs           |       |
| hone: 248-994-2240   | ~~~~             | active) Sin circ | LISTCOLL  |          |                 |       | 1        |          |                |                |         | 1                       |                    |                                    | Т                   |           | T         |                      |                       | $\overline{}$ | For      | neo usc only             |                |       |
| roject Name: Ford LTP  | Sampler Name     | 1 -              |           | A        |                 | TA    | l ifd    | ifferent | from belo      |                |         |                         |                    |                                    |                     |           |           |                      |                       |               | Wal      | lk-in client             | 111            |       |
| ofect Name. For a Life   |                  | Hrumy            |           | /V/Y     | 25              |       | 10 d     | av       |                | weeks<br>weeks |         |                         |                    |                                    |                     |           |           |                      |                       |               | T.al-    | sampling                 | AT VIEW        |       |
| roject Number: 30251157.401.04   | Method of Ship   | ment/Carrier: (  |           | - 6      |                 |       |          | ,        |                | week           |         |                         | ا ي                |                                    | 10                  |           |           |                      | 2                     |               | 200      | -maping                  |                |       |
| O# US3460025888  | Shipping/Track   | ring No:         |           |          |                 |       |          |          | 2              | days<br>day    |         | اچًا                    | 츁                  | ءِ ا                               | 1 28                |           |           |                      | 8                     |               | Tak      | CDC N.                   |                |       |
| O # 030400023000   | Suppring Track   | ung 140.         |           |          |                 |       |          |          |                |                |         | Filtered Sample (Y / N) | Composite=C/Grab=G | 1,1-DCE 8260D<br>cis-1,2-DCE 8260D | Trans-1,2-DCE 8260D |           |           | Vinyl Chloride 8260D | 1,4-Dioxane 8260D SIM |               | 100/     | /SDG No:                 |                |       |
|  |                  |                  |           | Mat      | rix             |       | Co       | ntaine   | rs & Pr        | reservat       | ives    | Ī                       | I                  | 8260D<br>CE 826                    | 1 9                 | 8         | 8         | şğ                   | er l                  |               |          |                          |                |       |
|  | İ                |                  |           | i i      | ,,              | 4     | _        |          |                | ٠,             |         | ğ                       | Dost               | S G                                | 1 5                 | 979       | 926       | 충                    | loxa                  |               |          | Sample Su                | ecific Notes / | ,     |
| Sample Identification  | Sample Date      | Sample Time      | Air       | edim     | Solid<br>Other: | H2S04 | NO.      | HCI      | NaOH           | 를 를            | Other:  | iğ İ                    | 8                  | 1,1-DCE                            | lane                | PCE 8260D | TCE 8260D | Ę.                   | 0.4                   |               |          |                          | astructions:   |       |
|  |                  |                  |           |          | <i>37</i>   0   | Ť     | F        | +=       | 2 2            | 4-             |         |                         | _                  |                                    | +                   |           | -         | 1                    |                       | _             | -        |                          |                |       |
| TRIP BLANK_ 108  |                  |                  | 1         |          |                 |       |          | 1        |                |                |         | N                       | G                  | $X \mid X$                         | X                   | X         | X         | X                    |                       |               |          | 1 Trip Bla               | ınk            |       |
| MW-905,056 1325  | 68/13/25         | 14:05            |           | Q        |                 |       | -        | 6        |                |                |         | NI                      | b :                | <b>x</b> }                         | 7                   | X         | $\times$  | X                    | X                     |               |          | 3 VOAs for<br>3 VOAs for |                | М     |
|  |                  |                  |           |          |                 |       |          | 1        | П              |                |         |                         | T                  |                                    |                     |           |           |                      |                       |               |          |                          |                |       |
|  | A Property Ball  |                  | -         | _        |                 |       | ┢        | +        |                | =              |         | +                       |                    |                                    | -                   |           | ↓         | _                    |                       |               | $\vdash$ |                          |                | _     |
|  |                  | 1                |           |          |                 |       |          |          |                |                |         |                         |                    | _                                  | +                   |           |           |                      |                       |               |          |                          |                |       |
|  | + /              |                  |           | +        | -               | 7/1   | -        | +        |                |                | -       | + +                     | +                  |                                    | +                   |           | _         | -                    |                       | _             | -        |                          |                |       |
|  | 1                |                  |           |          | $  /   \rangle$ | 111   | Ì        | 1        | K \$           |                | 12      |                         | $\neg$             | 4                                  |                     |           | 1         |                      |                       |               |          |                          |                |       |
|  |                  |                  |           |          | LY              | *   ( | T        | 1        | <del>) (</del> | )              |         | 1 //                    | 71                 | -) -                               |                     | 1         |           | )                    |                       |               |          |                          |                |       |
|  |                  |                  |           |          |                 |       | -        | _        |                | ι              | 1.0     |                         |                    |                                    |                     |           |           | 1                    | 1                     |               |          |                          |                |       |
|  |                  |                  |           | _        |                 |       | $\vdash$ | -        |                |                | -       |                         | -+-                |                                    | T                   |           |           |                      | 1                     |               |          |                          |                |       |
|  |                  |                  |           |          |                 |       |          |          |                | _              |         |                         | $\Rightarrow$      |                                    |                     | $\perp$   |           | 1                    | 1                     |               |          |                          |                | _     |
|  |                  |                  |           |          |                 |       |          |          |                |                |         |                         | - 1                |                                    |                     | +         | 1         |                      |                       | 200           |          |                          |                |       |
|  |                  |                  | -         | -        | -               |       |          | -        |                | +              | -       | +                       | +                  | -                                  | +                   | -         |           | - 2                  | 40-230955             |               |          | MH                       | THE            | 7     |
|  |                  |                  |           |          |                 |       |          |          |                |                |         |                         |                    |                                    |                     |           |           |                      | 1 1                   |               |          | TATTA                    | 100            | ~     |
|  |                  |                  |           |          |                 |       | +        | +-       |                | +              | 1       | $\vdash$                | +                  |                                    | +                   | +         | +         | _                    | +++                   | -             | $\vdash$ |                          | 17             | _     |
|  |                  |                  |           |          |                 |       |          |          |                |                |         |                         |                    |                                    |                     |           |           |                      |                       |               |          |                          |                |       |
| Possible Hazard Identification Non-Hazard Tammable Cin Irrit   |                  | - D              | - 1-1     |          |                 | :     | Sam      |          |                |                | may be  |                         |                    |                                    |                     |           |           | han 1                |                       |               |          | _                        |                |       |
| posial Instructions/OC Despisements & Community  | 4                |                  | Jnkno     | Wn       |                 |       |          | Retu     | ım to C        | lient          | -       | Disposa                 | I By I             | ab                                 |                     | Archiv    | e For     |                      | Months                |               |          |                          | $\overline{}$  | _     |
| 37   | 380 (2Pt         | 16)              |           |          |                 |       |          |          |                |                |         |                         |                    |                                    |                     |           |           |                      |                       |               |          |                          |                | \     |
| ubmit all results through Cadena at Itomalia@cadenace<br>evel IV Reporting requested.  | o.com. Cadena #E | E203728          |           |          |                 |       |          |          |                |                |         |                         |                    |                                    |                     |           |           |                      |                       |               |          |                          |                |       |
| elinquished by:  | Company:         | Co. I.           |           | ate/Tim  |                 |       | . 7      |          | Recei          | ved by:        | ^ .     | - , /                   | . ,                | . /                                |                     |           | Com       | pany:                |                       |               |          | e/Time:                  | 1~             | 70    |
| The state of the s |                  | readiz           |           | 081      | 13/2            | 5     | 12       | :15      |                | 100            | . (     | -vid                    | 4                  | rtorn                              | 1                   |           |           | A                    | crdis                 |               | 0        | 8/13/2                   | <u>5- 15</u>   | 11    |
| Relinquished by: Omnus   | Company:         | adis             | D         | 8/1      | 1e: 4/25        | - 1   | 2        | 10       | Receiv         | ved by:        |         | 7                       | N                  | e O                                | le                  |           | Com       | pany:                | 29A<br>uno            |               | Dat      | Ic/Time:                 | T12:           | O     |
| Relinquished by:   | Company:         |                  | D         | atc Tirr | ne:             | 512   |          |          | Recei          | ved in         | Laborat | ory by:                 |                    |                                    |                     |           | Com       | рапу:                |                       |               | Dat      | 8/15/2                   | -              |       |
| everto   |                  | 70               |           | Oli      | 4/25            | (12   | 70       | >        |                |                | 1       | YO C                    | 20                 | スピ                                 | U                   |           |           | رح                   | MA                    |               | ,        | 6/15/7                   | 5 80           | 人     |

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| Barberton Facility (  | dataset   |
|---|---|
| Site Name   | Cooler unpacked by:   |
| booler Received on 8 15-25 Opened on 8 15-25                            | 7   |
| edEx: 1st Grd Exp UPS FAS (Waypoint) Client Drop Off Eurofins Courier O | )ther   |
| Receipt After-hours Drop-off Date/Time                                  |   |
| Burofins Cooler # C Foam Box Client Cooler Box Other                    | Make the state of |
| Packing material used. Bubble War Foam Plastic Bag None Other           | A DESCRIPTION OF THE PROPERTY |
| COOLANT (Wet Ice Blue Ice Dry Ice Water None                            |   |
| 1 Cooler temperature upon receipt of                                    | m   |
| ことがいうには、このでは、このでは、このでは、このでは、このでは、このでは、このでは、こので                          |   |

IR GUN# (CF U Ĝ Observed Cooler Temp Corrected Cooler Temp

'n -Were tamper/custody seals intact and uncompromised? Shippers' packing slip attached to the cooler(s)? Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were the seals on the outside of the cooler(s) signed & dated? Z X Tests that are not checked for pH by VOAs Oil and Grease TOC Receiving,

76543

Did custody papers accompany the sample(s)?

Were the custody papers relinquished & signed in the appropriate place?

Was/were the person(s) who collected the samples clearly identified on the COC?

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Did all bottles arrive in good condition (Unbroken)?

9 8 For each sample, does the COC specify preservatives (YN), # of containers (YN) Could all bottle labels (ID/Date/Time) be reconciled with the COC? sample type of grab/comp(YN); Z

Sufficient quantity received to perform indicated analyses? Were correct bottle(s) used for the test(s) indicated?

12 Are these work share samples and all listed on the COC?

(Z)Z

pH Strip Lo# HC463162

Page 19 of 20

If yes, Questions 13-17 have been checked at the originating laboratory

Were all preserved sample(s) at the correct pH upon receipt?

13 14 Were VOAs on the COC?

15 16 17 Were air bubbles >6 mm in any VOA vials?

Was a VOA trip blank present in the cooler(s)? Trip Blank Lot# Larger than th

Contacted PM Was a LL Hg or Me Hg trip blank present? Date হ () | | | | | |

Concerning

via Verbal Voice Mail Other

<u>7</u>8 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page

Labeled by: Labels Venfied by CAT CAT

19 SAMPLE CONDITION

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

SAMPLE PRESERVATION

Sample(s)\_\_\_\_\_\_ Time preserved. VOA Sample Preservation -Date/Time VOAs Frozen Preservative(s) added/Lot number(s) were further preserved in the laboratory

# 8/15/2025

# **Login Container Summary Report**

240-230955

Temperature readings

| MW-90S 081325                     | MW-90S 081325                   | MW-90S_081325                     | MW-90S 081325                   | MW-90S 081325                     | MW-90S_081325                     | TRIPBLANK 108                   | Client Sample ID   |
|-----------------------------------|---------------------------------|-----------------------------------|---------------------------------|-----------------------------------|-----------------------------------|---------------------------------|--|
| 240 230955 F-2                    | 240 230955-E-2                  | 240-230955-D-2                    | 240-230955-C-2                  | 240-230955-B 2                    | 240-230955-A-2                    | 240-230955-A-1                  | <u>Lab ID</u>  |
| Voa Vial 40ml - Hydrochloric Acid | Voa Vial 40ml Hydrochloric Acid | Voa Vıal 40ml - Hydrochloric Acid | Voa Vial 40ml Hydrochloric Acid | Voa Vial 40ml - Hydrochloric Acid | Voa Vial 40ml - Hydrochloric Acid | Voa Vial 40ml Hydrochloric Acid | Container Type   |
|                                   |                                 |                                   |                                 |                                   |                                   |                                 | <u>Container Preservation Preservation</u> <u>pH Temp Added Lot Number</u> |

Page 20 of 20

Page 1 of 1

# DATA VERIFICATION REPORT



August 20, 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: 230955-1 Sample date: 2025-08-13

Report received by CADENA: 2025-08-20

Initial Data Verification completed by CADENA: 2025-08-20

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.

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<br>Qualifiers | Description  |
|---------------------|--|
| <                   | Less than the reported concentration.  |
| >                   | Greater than the reported concentration.   |
| В                   | 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 contaminates) 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. |
| Е                   | 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 contaminates) 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: 230955-1

|           |                          | Sample Name:   | TRIP BL | ANK_10 | 8     |           |         |        |       |           |  |
|-----------|--------------------------|----------------|---------|--------|-------|-----------|---------|--------|-------|-----------|--|
|           |                          | Lab Sample ID: | 240230  | 9551   |       |           | 240230  |        |       |           |  |
|           |                          | Sample Date:   | 8/13/20 | 25     |       |           | 8/13/20 | 25     | 25    |           |  |
|           |                          |                |         | Report |       | Valid     |         | Report |       |           |  |
|           | Analyte                  | Cas No.        | Result  | Limit  | Units | Qualifier | Result  | Limit  | Units | Qualifier |  |
| GC/MS VOC |                          |                |         |        |       |           |         |        |       |           |  |
| OSW-826   | <u>0D</u>                |                |         |        |       |           |         |        |       |           |  |
|           | 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  |           | ND      | 1.0    | ug/l  |           |  |
| OSW-826   | <u>ODSIM</u>             |                |         |        |       |           |         |        |       |           |  |
|           | 1,4-Dioxane              | 123-91-1       |         |        |       |           | ND      | 2.0    | ug/l  |           |  |



# Ford Motor Company – Livonia Transmission Project

# **Data Review**

# Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-230955-1

CADENA Verification Report: 2025-08-20

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 60961R Review Level: Tier III Project: 30251157.401.02

# **SUMMARY**

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-230955-1 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      | ID Lab ID Matrix Sample |        | Parent Sample   | Analysis       |     |         |  |  |
|----------------|-------------------------|--------|-----------------|----------------|-----|---------|--|--|
| Sample ID      | Labib                   | Watita | Collection Date | ratetit Sample | voc | VOC SIM |  |  |
| TRIP BLANK_108 | 240-230955-1            | Water  | 08/13/2025      |                | Х   |         |  |  |
| MW-90S_081325  | 240-230955-2            | Water  | 08/13/2025      |                | X   | X       |  |  |

# **ANALYTICAL DATA PACKAGE DOCUMENTATION**

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

| Items Reviewed   | Rep | orted | Perfor<br>Accep | mance<br>otable | Not      |  |
|--|-----|-------|-----------------|-----------------|----------|--|
|  | No  | Yes   | No              | Yes             | Required |  |
| Sample receipt condition   |     | X     |                 | X               |          |  |
| 2. Requested analyses and sample results                           |     | Х     |                 | Х               |          |  |
| Master tracking list   |     | Х     |                 | Х               |          |  |
| 4. Methods of analysis   |     | Х     |                 | Х               |          |  |
| 5. Reporting limits  |     | Х     |                 | Х               |          |  |
| 6. Sample collection date  |     | Х     |                 | Х               |          |  |
| 7. Laboratory sample received date                                 |     | Х     |                 | Х               |          |  |
| 8. Sample preservation verification (as applicable)                |     | Х     |                 | Х               |          |  |
| Sample preparation/extraction/analysis dates                       |     | Х     |                 | Х               |          |  |
| 10. Fully executed Chain-of-Custody (COC) form                     |     | Х     |                 | Х               |          |  |
| Narrative summary of Quality Assurance or sample problems provided |     | Х     |                 | Х               |          |  |
| 12. Data Package Completeness and Compliance                       |     | Х     |                 | Х               |          |  |

### 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.

# **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 | 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) |
|----------------|--|----------------|----------|
| TRIP BLANK_108 | Continuing Calibration Verification %D | Vinyl chloride | +21.4%   |
| MW-90S_081325  | Continuing Calibration Verification %D | Vinyl chloride | +21.4%   |

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 |
|------------------------------------|-------------------------------------|---------------|---------------|
| 1                                  | RRF <0.05                           | Non-detect    | R             |
|                                    | RRF <0.05                           | Detect        | J             |
| Initial and Continuing Calibration | DDE 40 041                          | Non-detect    | R             |
| Calibration                        | RRF <0.01 <sup>1</sup>              | Detect        | J             |
|                                    | RRF >0.05 or RRF >0.01 <sup>1</sup> | Non-detect    | No Action     |

| Initial/Continuing     | Criteria                                      | Sample Result | Qualification |
|------------------------|---|---------------|---------------|
|                        |   | Detect        |               |
|                        | %RSD > 20% or a correlation coefficient <0.99 | Non-detect    | UJ            |
| Initial Calibration    | %RSD > 20% of a correlation coefficient <0.99 | Detect        | J             |
| Initial Calibration    | 0/ DCD > 000/                                 | Non-detect    | R             |
|                        | %RSD > 90%                                    | Detect        | J             |
|                        | 0/ D > 200/ (in an ana in an aiti it )        | Non-detect    | UJ            |
|                        | %D >20% (increase in sensitivity)             | Detect        | J             |
| Continuina Calibration | 0/ D > 200/ (daaraaaa in aanaiti ita)         | Non-detect    | UJ            |
| Continuing Calibration | %D >20% (decrease in sensitivity)             | Detect        | J             |
|                        | 0/ D > 000/ (in an and identity)              | Non-detect    | R             |
|                        | %D > 90% (increase/decrease in sensitivity)   | 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.

No compounds were detected in the samples within this SDG.

# 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 VALIDATION CHECKLIST FOR VOCs**

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

# Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Pooja Parab

SIGNATURE:

DATE: September 15, 2025

PEER REVIEW: Andrew Korycinski

DATE: September 15, 2025

# CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

# **Chain of Custody Record**

<u>TestAmerica</u>

TestAmerica Laboratory location: Farmington Hills — 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331

| Client Contact   | Regulat                     | огу program   |                | DW     | 7        | NPDE                    | s         | R                          | CRA          | Γ.                           | Other              |                         |                     |                    |           |                      |                       |             |  |
|--|-----------------------------|---|----------------|--------|----------|-------------------------|-----------|----------------------------|--------------|------------------------------|--------------------|-------------------------|---------------------|--------------------|-----------|----------------------|-----------------------|-------------|--|
| Company Name: Arcadis  | Client Project              | Client Project Manager: Megan Meckley Site Contact: Samantha Szpaichler Lab Contact; Mike DelMonico |                |        |          |                         |           |                            |              | TestAmerica Laboratories, In |                    |                         |                     |                    |           |                      |                       |             |  |
| Address: 28550 Cabot Drive, Suite 500  |                             |   |                |        |          |                         |           |                            |              |                              |                    |                         |                     |                    |           |                      |                       |             | COC NO.  |
| City/State/Zip: Novi, MI, 48377  | Telephone: 248              | Telephone: 248-994-2240 T   |                |        | Te       | Telephone: 248-994-2240 |           |                            |              |                              | Tele               | Telephone: 330-497-9396 |                     |                    |           |                      |                       | 1 of 1 COCs |  |
|  | Email: megan.               | meckley@arca  | dis.com        |        |          | Analysi                 | s Turi    | iaround                    | Time         |                              | L                  |                         | Analyses            |                    |           |                      |                       |             | For lab use only                                 |
| Phone: 248-994-2240  | Sampler Name                |   |                |        | TA       | T if differe            | et from l | nelow/                     | -7, -0       |                              |                    |                         |                     |                    |           |                      |                       |             | Walk-in client                                   |
| Project Name: Ford LTP   | Sampler Name                | Herem   | ٨٨ ،           | Yes    | - 1      |                         | -         | 3 week                     |              |                              |                    |                         |                     |                    |           |                      |                       |             | waik-in client                                   |
| Project Number: 30251157.401.04  | Method of Ship              | ment/Carrier:   | 1 .            | TOO.   | $\dashv$ | 10 day                  |           | 2 week<br>1 week<br>2 days |              | Ê                            | မှ                 |                         | ٥                   |                    |           |                      | <b>S</b>              |             | Lab sampling                                     |
| PO # US3460025888  | Shipping/Track              | cing No:  |                |        |          |                         |           | 1 day                      |              | (Y) a                        | Grad               | 280D                    | 8260                |                    |           | 8260                 | 260D \$               |             | Job/SDG No:                                      |
|  |                             |   | N              | latrix |          | Contai                  | iners &   | Preserv                    | atives       | 1                            | Con Control        | ΣΕ 8<br>Ε 8             | Ö                   | ۾ ا                | ا ۾       | ride                 | 98                    |             |  |
| Sample Identification  | Sample Date                 | Sample Time   | Air<br>Aqueous | Solid  | H2SO4    | HNO3                    | NAOH      | ZaAc/<br>NaOH              | Other:       | Filtered Sample (Y / N)      | Composite=C/Grab=G | cis-1,2-DCE 8260D       | Trans-1,2-DCE 8260D | PCE 8260D          | TCE 8260D | Vinyl Chloride 8260D | 1,4-Dioxane 8260D SIM |             | Sample Specific Notes /<br>Special Instructions: |
| TRIP BLANK_ 408  |                             |   | 1              |        |          | 1                       |           |                            |              | N                            |                    |                         | Х                   | Х                  | Х         | Х                    |                       |             | 1 Trip Blank                                     |
| MW-905_081325  | 68/13/25                    | 14:05   | 6              |        |          |                         | 0         | П                          |              | N                            | y >                | 1 7                     | Y                   | X                  | ×         | X                    | X                     |             | 3 VOAs for 8260D<br>3 VOAs for 8260D SIM         |
| ^  |                             |   |                |        |          |                         |           |                            |              |                              | Ì                  |                         |                     |                    |           |                      |                       |             |  |
|  | 1                           |   |                |        |          |                         |           |                            |              |                              | +                  | -                       |                     |                    |           |                      |                       |             |  |
|  |                             |   |                |        | M        |                         |           |                            | 1/2          | l                            | 7                  | _                       |                     |                    | 1         |                      |                       |             |  |
|  |                             |   |                | +      |          |                         | Ψ         | 0                          |              | 1                            | 4                  |                         |                     |                    |           | N.                   | 24156                 |             |  |
|  |                             |   |                | ++     |          |                         |           |                            |              |                              | ŧ                  |                         | _                   |                    |           | 1                    | <b>34</b>             |             |  |
|  |                             |   |                |        |          |                         |           |                            |              | $\Box$                       |                    |                         |                     |                    |           |                      | 0-230955 COC          |             |  |
|  |                             |   |                |        |          |                         |           |                            | 1            |                              | T                  |                         |                     |                    |           | 24                   | 0-230950              |             | MICHIG   |
|  |                             |   |                |        |          |                         |           |                            |              |                              |                    |                         |                     |                    |           |                      |                       |             | 170  |
| Possible Hazard Identification Non-Hazard lammable cin Irri                          | ant Pois                    | on B  | Jnknown        |        |          |                         |           | al (A fo                   | e may be     | assesse<br>Disposa           |                    |                         |                     | ined lo<br>Archive |           | ban 1 r              | month)<br>Months      |             |  |
| Special Instructions/QC Requirements & Comments: 34                                  | 3 cm 1 n:                   |   |                |        |          |                         |           |                            |              | - top too                    | -,-                |                         |                     |                    |           |                      | 177044110             |             |  |
| Submit all results through Cadena at jtomalia@cadenact Level IV Reporting requested. | 380 Caft<br>co.com. Cadena# |   |                |        |          |                         |           |                            |              |                              |                    |                         |                     |                    |           |                      |                       |             |  |
| Relinquished by:   | Company:                    | readis  | Date/          | Time:  | 25       | 15:19                   | Rec       | No.                        | y: ,<br>γ, ( | Cold                         | Ş                  | torns                   | 1                   |                    | Comp      |                      | rdis                  |             | Date/Time: 08/13/25 15:1                         |
| Relinquished by: Ommuly  | Company:                    | adis  | Date/          | ime:   |          | 1210                    | Rec       | cived b                    | y:           | n                            | R                  | 0                       | e                   |                    | Comp      | any:                 | 234                   |             | Date/Time: 81(412512:0                           |
| Relinquished by:   | Company:                    | 70  | Date           | Time:  | 510      | 2:05                    | Rec       |                            | Laborat      |                              |                    | sk                      | ٥                   |                    | Comp      | نگ                   | no                    |             | Date Time: 8/15/25 8C4                           |

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# **Definitions/Glossary**

Client: Arcadis US Inc.

Job ID: 240-230955-1

Project/Site: Ford LTP

# **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.                |
|--------------|--|
| ₩            | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R           | Percent Recovery   |

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

# **Client Sample Results**

Client: Arcadis US Inc.

Job ID: 240-230955-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK\_108

Date Collected: 08/13/25 00:00 Matrix: Water

Date Received: 08/15/25 08:00

| Analyte                      | Result    | Qualifier | RL                  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|---------------------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene           | 1.0       | U         | 1.0                 | 0.49 | ug/L |   |          | 08/19/25 15:42 | 1       |
| cis-1,2-Dichloroethene       | 1.0       | U         | 1.0                 | 0.46 | ug/L |   |          | 08/19/25 15:42 | 1       |
| Tetrachloroethene            | 1.0       | U         | 1.0                 | 0.44 | ug/L |   |          | 08/19/25 15:42 | 1       |
| trans-1,2-Dichloroethene     | 1.0       | U         | 1.0                 | 0.51 | ug/L |   |          | 08/19/25 15:42 | 1       |
| Trichloroethene              | 1.0       | U         | 1.0                 | 0.44 | ug/L |   |          | 08/19/25 15:42 | 1       |
| Vinyl chloride               | 1.0       | UJ        | 1.0                 | 0.45 | ug/L |   |          | 08/19/25 15:42 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits              |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 111       |           | 62 - 137            |      |      | - |          | 08/19/25 15:42 | 1       |
| 4-Bromofluorobenzene (Surr)  | 94        |           | 56 <sub>-</sub> 136 |      |      |   |          | 08/19/25 15:42 | 1       |
| Toluene-d8 (Surr)            | 94        |           | 78 - 122            |      |      |   |          | 08/19/25 15:42 | 1       |
| Dibromofluoromethane (Surr)  | 110       |           | 73 - 120            |      |      |   |          | 08/19/25 15:42 | 1       |

Client Sample ID: MW-90S\_081325

Date Collected: 08/13/25 14:05

Date Received: 08/15/25 08:00

| Method: SW846 8260D SIM - \  | /olatile Organic C | ompounds  | (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 |   |          | 08/18/25 14:32 | 1       |
| Surrogate                    | %Recovery          | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 102                |           | 68 - 127 |      |      | _ |          | 08/18/25 14:32 | 1       |

| 1,2-Dichloroethane-d4 (Surr)     | 102              |            | 68 - 127            |      |      |   |          | 08/18/25 14:32 | 1       |
|----------------------------------|------------------|------------|---------------------|------|------|---|----------|----------------|---------|
| –<br>Method: SW846 8260D - Volat | ile Organic Comp | ounds by G | 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 |   |          | 08/19/25 16:05 | 1       |
| cis-1,2-Dichloroethene           | 1.0              | U          | 1.0                 | 0.46 | ug/L |   |          | 08/19/25 16:05 | 1       |
| Tetrachloroethene                | 1.0              | U          | 1.0                 | 0.44 | ug/L |   |          | 08/19/25 16:05 | 1       |
| trans-1,2-Dichloroethene         | 1.0              | U          | 1.0                 | 0.51 | ug/L |   |          | 08/19/25 16:05 | 1       |
| Trichloroethene                  | 1.0              | U          | 1.0                 | 0.44 | ug/L |   |          | 08/19/25 16:05 | 1       |
| Vinyl chloride                   | 1.0              | JY UJ      | 1.0                 | 0.45 | ug/L |   |          | 08/19/25 16:05 | 1       |
| Surrogate                        | %Recovery        | Qualifier  | Limits              |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr)     | 114              |            | 62 - 137            |      |      | _ |          | 08/19/25 16:05 | 1       |
| 4-Bromofluorobenzene (Surr)      | 89               |            | 56 <sub>-</sub> 136 |      |      |   |          | 08/19/25 16:05 | 1       |

| Surrogate                    | 70Necovery | Qualifier | Liiiits  |   | rrepareu | Allalyzeu      | DII Fac |  |
|------------------------------|------------|-----------|----------|---|----------|----------------|---------|--|
| 1,2-Dichloroethane-d4 (Surr) | 114        |           | 62 - 137 | - |          | 08/19/25 16:05 | 1       |  |
| 4-Bromofluorobenzene (Surr)  | 89         |           | 56 - 136 |   |          | 08/19/25 16:05 | 1       |  |
| Toluene-d8 (Surr)            | 91         |           | 78 - 122 |   |          | 08/19/25 16:05 | 1       |  |
| Dibromofluoromethane (Surr)  | 112        |           | 73 - 120 |   |          | 08/19/25 16:05 | 1       |  |

Lab Sample ID: 240-230955-1

Lab Sample ID: 240-230955-2

**Matrix: Water**