# PREPARED FOR

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

Generated 5/20/2025 7:08:55 AM

# **JOB DESCRIPTION**

Ford LTP

# **JOB NUMBER**

240-224390-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

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### **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.

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# **Authorization**

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Authorized for release by Michael DelMonico, Project Manager I Michael.DelMonico@et.eurofinsus.com (330)966-9783 Client: Arcadis US Inc. Project/Site: Ford LTP

Laboratory Job ID: 240-224390-1

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### **Definitions/Glossary**

Client: Arcadis US Inc. Job ID: 240-224390-1

Project/Site: Ford LTP

**Qualifiers** 

GC/MS VOA
Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U Indicates the analyte was analyzed for but not detected.

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery

CFL Contains Free Liquid

CFU Colony Forming Unit

CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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#### **Case Narrative**

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-224390-1

**Eurofins Cleveland** 

Job ID: 240-224390-1

Job Narrative 240-224390-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

#### Receipt

The samples were received on 5/14/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.9°C and 3.1°C.

#### GC/MS VOA

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

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### **Method Summary**

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-224390-1

| 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

Job ID: 240-224390-1

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 240-224390-1  | TRIP BLANK_98    | Water  | 05/09/25 00:00 | 05/14/25 08:00 |
| 240-224390-2  | MW-40_050925     | Water  | 05/09/25 10:05 | 05/14/25 08:00 |
| 240-224390-3  | MW-41_050925     | Water  | 05/09/25 11:05 | 05/14/25 08:00 |
| 240-224390-4  | MW-42 050925     | Water  | 05/09/25 12:55 | 05/14/25 08:00 |

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### **Detection Summary**

Client: Arcadis US Inc.

Job ID: 240-224390-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK\_98 Lab Sample ID: 240-224390-1

No Detections.

Client Sample ID: MW-40\_050925 Lab Sample ID: 240-224390-2

| Analyte                | Result | Qualifier | RL  | MDL  | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 1.9    |           | 1.0 | 0.46 | ug/L | 1       |   | 8260D  | Total/NA  |
| Vinyl chloride         | 1.1    |           | 1.0 | 0.45 | ug/L | 1       |   | 8260D  | Total/NA  |

Client Sample ID: MW-41\_050925 Lab Sample ID: 240-224390-3

| Analyte        | Result Qua | lifier RL | MDL  | Unit | Dil Fac | D | Method    | Prep Type |
|----------------|------------|-----------|------|------|---------|---|-----------|-----------|
| 1,4-Dioxane    | 13         | 2.0       | 0.86 | ug/L | 1       | _ | 8260D SIM | Total/NA  |
| Vinyl chloride | 1.0        | 1.0       | 0.45 | ug/L | 1       |   | 8260D     | Total/NA  |

Client Sample ID: MW-42\_050925 Lab Sample ID: 240-224390-4

| Analyte        | Result | Qualifier | RL  | MDL Unit  | Dil Fac D | Method    | Prep Type |
|----------------|--------|-----------|-----|-----------|-----------|-----------|-----------|
| 1,4-Dioxane    | 1.7    | J         | 2.0 | 0.86 ug/L |           | 8260D SIM | Total/NA  |
| Vinyl chloride | 0.76   | .1        | 1.0 | 0.45 ug/l | 1         | 8260D     | Total/NA  |

This Detection Summary does not include radiochemical test results.

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Client: Arcadis US Inc. Job ID: 240-224390-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK\_98

Date Received: 05/14/25 08:00

Lab Sample ID: 240-224390-1 Date Collected: 05/09/25 00:00

**Matrix: Water** 

| Analyte                      | Result    | Qualifier | RL                  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|---------------------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene           | 1.0       | U         | 1.0                 | 0.49 | ug/L |   |          | 05/18/25 19:14 | 1       |
| cis-1,2-Dichloroethene       | 1.0       | U         | 1.0                 | 0.46 | ug/L |   |          | 05/18/25 19:14 | 1       |
| Tetrachloroethene            | 1.0       | U         | 1.0                 | 0.44 | ug/L |   |          | 05/18/25 19:14 | 1       |
| trans-1,2-Dichloroethene     | 1.0       | U         | 1.0                 | 0.51 | ug/L |   |          | 05/18/25 19:14 | 1       |
| Trichloroethene              | 1.0       | U         | 1.0                 | 0.44 | ug/L |   |          | 05/18/25 19:14 | 1       |
| Vinyl chloride               | 1.0       | U         | 1.0                 | 0.45 | ug/L |   |          | 05/18/25 19:14 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits              |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 100       |           | 62 - 137            |      |      | - |          | 05/18/25 19:14 | 1       |
| 4-Bromofluorobenzene (Surr)  | 90        |           | 56 <sub>-</sub> 136 |      |      |   |          | 05/18/25 19:14 | 1       |
| Toluene-d8 (Surr)            | 93        |           | 78 - 122            |      |      |   |          | 05/18/25 19:14 | 1       |
| Dibromofluoromethane (Surr)  | 97        |           | 73 - 120            |      |      |   |          | 05/18/25 19:14 | 1       |

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Client: Arcadis US Inc. Job ID: 240-224390-1

Project/Site: Ford LTP

Client Sample ID: MW-40\_050925

Date Collected: 05/09/25 10:05 Date Received: 05/14/25 08:00

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Lab Sample ID: 240-224390-2

05/18/25 19:32

05/18/25 19:32 05/18/25 19:32

05/18/25 19:32

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         |   |          | 05/17/25 13:12                   | 1           |
| Surrogate   | %Recovery  | Qualifier      | Limits     |      |              |   | Prepared | Analyzed                         | Dil Fac     |
| 1,2-Dichloroethane-d4 (Surr)                            | 78         |                | 68 - 127   |      |              | - |          | 05/17/25 13:12                   | 1           |
| Analyte 1,1-Dichloroethene                              | 1.0        | Qualifier<br>U | RL         |      | Unit<br>ug/L | D | Prepared | Analyzed<br>05/18/25 19:32       | Dil Fac     |
| Method: SW846 8260D - Vola                              |            | •              |            |      |              |   |          |                                  |             |
| cis-1,2-Dichloroethene                                  | 1.9        | Ü              | 1.0        |      | ug/L         |   |          | 05/18/25 19:32                   | . 1         |
| Tetrachloroethene                                       | 1.0        | U              | 1.0        |      | ug/L         |   |          | 05/18/25 19:32                   | 1           |
|   |            |                |            |      |              |   |          |                                  |             |
| trans-1,2-Dichloroethene                                | 1.0        | U              | 1.0        | 0.51 | ug/L         |   |          | 05/18/25 19:32                   | 1           |
| ,   | 1.0<br>1.0 |                | 1.0<br>1.0 |      | ug/L<br>ug/L |   |          | 05/18/25 19:32<br>05/18/25 19:32 | 1           |
| trans-1,2-Dichloroethene Trichloroethene Vinyl chloride |            |                |            | 0.44 | •            |   |          |                                  | 1<br>1<br>1 |

62 - 137

56 - 136

78 - 122

73 - 120

105

94

100

Client: Arcadis US Inc. Job ID: 240-224390-1

Project/Site: Ford LTP

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: MW-41\_050925

Date Collected: 05/09/25 11:05 Date Received: 05/14/25 08:00 Lab Sample ID: 240-224390-3

05/18/25 19:50

05/18/25 19:50

Matrix: Water

| Method: SW846 8260D SIM - V       | olatile Organic C | ompounds   | (GC/MS)             |      |      |   |          |                |         |
|-----------------------------------|-------------------|------------|---------------------|------|------|---|----------|----------------|---------|
| Analyte                           | Result            | Qualifier  | RL                  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
| 1,4-Dioxane                       | 13                |            | 2.0                 | 0.86 | ug/L |   |          | 05/17/25 13:35 | 1       |
| Surrogate                         | %Recovery         | Qualifier  | Limits              |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr)      | 77                |            | 68 - 127            |      |      | - |          | 05/17/25 13:35 | 1       |
| -<br>Method: SW846 8260D - Volati | le Organic Comp   | ounds by G | C/MS                |      |      |   |          |                |         |
| Analyte                           | Result            | Qualifier  | RL                  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
| 1,1-Dichloroethene                | 1.0               | U          | 1.0                 | 0.49 | ug/L |   |          | 05/18/25 19:50 | 1       |
| cis-1,2-Dichloroethene            | 1.0               | U          | 1.0                 | 0.46 | ug/L |   |          | 05/18/25 19:50 | 1       |
| Tetrachloroethene                 | 1.0               | U          | 1.0                 | 0.44 | ug/L |   |          | 05/18/25 19:50 | 1       |
| trans-1,2-Dichloroethene          | 1.0               | U          | 1.0                 | 0.51 | ug/L |   |          | 05/18/25 19:50 | 1       |
| Trichloroethene                   | 1.0               | U          | 1.0                 | 0.44 | ug/L |   |          | 05/18/25 19:50 | 1       |
| Vinyl chloride                    | 1.0               |            | 1.0                 | 0.45 | ug/L |   |          | 05/18/25 19:50 | 1       |
| Surrogate                         | %Recovery         | Qualifier  | Limits              |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr)      | 98                |            | 62 - 137            |      |      | - |          | 05/18/25 19:50 | 1       |
| 4-Bromofluorobenzene (Surr)       | 87                |            | 56 <sub>-</sub> 136 |      |      |   |          | 05/18/25 19:50 | 1       |

78 - 122

73 - 120

92

Client: Arcadis US Inc.

Job ID: 240-224390-1

Project/Site: Ford LTP

Client Sample ID: MW-42\_050925

Date Collected: 05/09/25 12:55

Lab Sample ID: 240-224390-4 Matrix: Water

Date Received: 05/14/25 08:00

| Analyte                      | Result    | Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane                  | 1.7       | J         | 2.0      | 0.86 | ug/L |   |          | 05/17/25 13:59 | 1       |
| Surrogate                    | %Recovery | Qualifier | Limits   |      |      |   | Prepared | Analyzed       | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) |           |           | 68 - 127 |      |      |   |          | 05/17/25 13:59 | 1       |

| Method: SW846 8260D - Vola | atile Organic Comp | ounds by G | C/MS   |      |      |   |          |                |         |
|----------------------------|--------------------|------------|--------|------|------|---|----------|----------------|---------|
| Analyte                    | Result             | Qualifier  | RL     | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
| 1,1-Dichloroethene         | 1.0                | U          | 1.0    | 0.49 | ug/L |   |          | 05/18/25 20:08 | 1       |
| cis-1,2-Dichloroethene     | 1.0                | U          | 1.0    | 0.46 | ug/L |   |          | 05/18/25 20:08 | 1       |
| Tetrachloroethene          | 1.0                | U          | 1.0    | 0.44 | ug/L |   |          | 05/18/25 20:08 | 1       |
| trans-1,2-Dichloroethene   | 1.0                | U          | 1.0    | 0.51 | ug/L |   |          | 05/18/25 20:08 | 1       |
| Trichloroethene            | 1.0                | U          | 1.0    | 0.44 | ug/L |   |          | 05/18/25 20:08 | 1       |
| Vinyl chloride             | 0.76               | J          | 1.0    | 0.45 | ug/L |   |          | 05/18/25 20:08 | 1       |
| Surrogate                  | %Recovery          | Qualifier  | Limits |      |      |   | Prepared | Analyzed       | Dil Fac |

| Surrogate                    | %Recovery | Qualifier | Limits   |   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|---|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 107       |           | 62 - 137 | - |          | 05/18/25 20:08 | 1       |
| 4-Bromofluorobenzene (Surr)  | 92        |           | 56 - 136 |   |          | 05/18/25 20:08 | 1       |
| Toluene-d8 (Surr)            | 98        |           | 78 - 122 |   |          | 05/18/25 20:08 | 1       |
| Dibromofluoromethane (Surr)  | 102       |           | 73 - 120 |   |          | 05/18/25 20:08 | 1       |

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### **Surrogate Summary**

Client: Arcadis US Inc.

Job ID: 240-224390-1

Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

|                    |                        |          |          | Percent Sur | rrogate Rec |
|--------------------|------------------------|----------|----------|-------------|-------------|
|                    |                        | DCA      | BFB      | TOL         | DBFM        |
| Lab Sample ID      | Client Sample ID       | (62-137) | (56-136) | (78-122)    | (73-120)    |
| 240-224390-1       | TRIP BLANK_98          | 100      | 90       | 93          | 97          |
| 240-224390-2       | MW-40_050925           | 105      | 94       | 100         | 102         |
| 240-224390-3       | MW-41_050925           | 98       | 87       | 92          | 96          |
| 240-224390-4       | MW-42_050925           | 107      | 92       | 98          | 102         |
| 240-224395-A-5 MS  | Matrix Spike           | 101      | 101      | 100         | 98          |
| 240-224395-B-5 MSD | Matrix Spike Duplicate | 99       | 95       | 95          | 99          |
| LCS 240-656451/4   | Lab Control Sample     | 97       | 100      | 99          | 97          |
| MB 240-656451/7    | Method Blank           | 100      | 90       | 94          | 95          |

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

|                    |                        |          | Percent Surrogate Recovery (Acceptance Limits) |
|--------------------|------------------------|----------|--|
|                    |                        | DCA      |  |
| Lab Sample ID      | Client Sample ID       | (68-127) |  |
| 240-224390-2       | MW-40_050925           | 78       |  |
| 240-224390-3       | MW-41_050925           | 77       |  |
| 240-224390-4       | MW-42_050925           | 77       |  |
| 240-224503-E-3 MS  | Matrix Spike           | 81       |  |
| 240-224503-E-3 MSD | Matrix Spike Duplicate | 81       |  |
| LCS 240-656415/5   | Lab Control Sample     | 80       |  |
| MB 240-656415/7    | Method Blank           | 79       |  |

Surrogate Legend

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

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Client: Arcadis US Inc. Job ID: 240-224390-1

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

Lab Sample ID: MB 240-656451/7

**Matrix: Water** 

Project/Site: Ford LTP

Analysis Batch: 656451

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB Dil Fac Analyte Result Qualifier RLMDL Unit Prepared Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 05/18/25 18:56 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 05/18/25 18:56 1.0 U 1.0 0.44 ug/L Tetrachloroethene 05/18/25 18:56 trans-1,2-Dichloroethene 1.0 U 05/18/25 18:56 1.0 0.51 ug/L Trichloroethene 1.0 U 1.0 0.44 ug/L 05/18/25 18:56 Vinyl chloride 1.0 U 1.0 0.45 ug/L 05/18/25 18:56

MB MB

| Surrogate                    | %Recovery | Qualifier | Limits              |   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|---------------------|---|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 100       |           | 62 - 137            | _ |          | 05/18/25 18:56 | 1       |
| 4-Bromofluorobenzene (Surr)  | 90        |           | 56 <sub>-</sub> 136 |   |          | 05/18/25 18:56 | 1       |
| Toluene-d8 (Surr)            | 94        |           | 78 - 122            |   |          | 05/18/25 18:56 | 1       |
| Dibromofluoromethane (Surr)  | 95        |           | 73 - 120            |   |          | 05/18/25 18:56 | 1       |

Lab Sample ID: LCS 240-656451/4

**Matrix: Water** 

Analysis Batch: 656451

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

|                          | Spike | LCS    | LCS            |     |      | %Rec     |  |
|--------------------------|-------|--------|----------------|-----|------|----------|--|
| Analyte                  | Added | Result | Qualifier Unit | t D | %Rec | Limits   |  |
| 1,1-Dichloroethene       | 25.0  | 25.1   | ug/L           |     | 100  | 63 - 134 |  |
| cis-1,2-Dichloroethene   | 25.0  | 24.4   | ug/L           | -   | 98   | 77 - 123 |  |
| Tetrachloroethene        | 25.0  | 24.1   | ug/L           | -   | 96   | 76 - 123 |  |
| trans-1,2-Dichloroethene | 25.0  | 24.2   | ug/L           | -   | 97   | 75 - 124 |  |
| Trichloroethene          | 25.0  | 24.4   | ug/L           | -   | 97   | 70 - 122 |  |
| Vinyl chloride           | 12.5  | 10.8   | ug/L           | -   | 86   | 60 - 144 |  |
|                          |       |        |                |     |      |          |  |

LCS LCS

| Surrogate                    | %Recovery | Qualifier | Limits   |
|------------------------------|-----------|-----------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 97        |           | 62 - 137 |
| 4-Bromofluorobenzene (Surr)  | 100       |           | 56 - 136 |
| Toluene-d8 (Surr)            | 99        |           | 78 - 122 |
| Dibromofluoromethane (Surr)  | 97        |           | 73 - 120 |

Lab Sample ID: 240-224395-A-5 MS

**Matrix: Water** 

Analysis Batch: 656451

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

|                          | Sample | Sample    | Spike | MS     | MS        |      |   |      | %Rec     |  |
|--------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|--|
| Analyte                  | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits   |  |
| 1,1-Dichloroethene       | 1.0    | U         | 25.0  | 24.1   |           | ug/L |   | 96   | 56 - 135 |  |
| cis-1,2-Dichloroethene   | 1.0    | U         | 25.0  | 24.5   |           | ug/L |   | 98   | 66 - 128 |  |
| Tetrachloroethene        | 1.0    | U         | 25.0  | 21.8   |           | ug/L |   | 87   | 62 _ 131 |  |
| trans-1,2-Dichloroethene | 1.0    | U         | 25.0  | 23.9   |           | ug/L |   | 96   | 56 - 136 |  |
| Trichloroethene          | 1.0    | U         | 25.0  | 23.0   |           | ug/L |   | 92   | 61 - 124 |  |
| Vinyl chloride           | 1.0    | U         | 12.5  | 10.1   |           | ug/L |   | 81   | 43 - 157 |  |
|                          |        |           |       |        |           |      |   |      |          |  |

MS MS

| Surrogate                    | %Recovery Qualifier | Limits   |
|------------------------------|---------------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 101                 | 62 - 137 |
| 4-Bromofluorobenzene (Surr)  | 101                 | 56 - 136 |
| Toluene-d8 (Surr)            | 100                 | 78 - 122 |

**Eurofins Cleveland** 

Page 14 of 23

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

Job ID: 240-224390-1

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

Lab Sample ID: 240-224395-A-5 MS

Lab Sample ID: 240-224395-B-5 MSD

**Matrix: Water** 

Analysis Batch: 656451

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS Surrogate %Recovery Qualifier

Limits Dibromofluoromethane (Surr) 98 73 - 120

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

**Matrix: Water** 

Analysis Batch: 656451

|                          | Sample | Sample    | Spike | MSD    | MSD       |      |   |      | %Rec     |     | RPD   |
|--------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| Analyte                  | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits   | RPD | Limit |
| 1,1-Dichloroethene       | 1.0    | U         | 25.0  | 25.2   |           | ug/L |   | 101  | 56 - 135 | 5   | 26    |
| cis-1,2-Dichloroethene   | 1.0    | U         | 25.0  | 24.3   |           | ug/L |   | 97   | 66 - 128 | 1   | 14    |
| Tetrachloroethene        | 1.0    | U         | 25.0  | 23.8   |           | ug/L |   | 95   | 62 - 131 | 9   | 20    |
| trans-1,2-Dichloroethene | 1.0    | U         | 25.0  | 24.5   |           | ug/L |   | 98   | 56 - 136 | 2   | 15    |
| Trichloroethene          | 1.0    | U         | 25.0  | 24.3   |           | ug/L |   | 97   | 61 - 124 | 5   | 15    |
| Vinyl chloride           | 1.0    | U         | 12.5  | 9.99   |           | ug/L |   | 80   | 43 - 157 | 1   | 24    |
|                          |        |           |       |        |           |      |   |      |          |     |       |

MSD MSD Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 99 62 - 137 4-Bromofluorobenzene (Surr) 95 56 - 136 Toluene-d8 (Surr) 95 78 - 122 Dibromofluoromethane (Surr) 99 73 - 120

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

MR MR

Lab Sample ID: MB 240-656415/7

**Matrix: Water** 

Analysis Batch: 656415

| Client Samı | ole ID: | Method   | Blank   |
|-------------|---------|----------|---------|
|             | Duan    | Times Te | 4-1/NIA |

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Type: Total/NA

| Analyte     | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|-------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0    | U         | 2.0 | 0.86 | ug/L |   |          | 05/17/25 10:51 | 1       |
|             | МВ     | МВ        |     |      |      |   |          |                |         |

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 79 68 - 127 05/17/25 10:51

Lab Sample ID: LCS 240-656415/5

**Matrix: Water** 

Analysis Batch: 656415

| •           | Spike | LCS    | LCS       |      |   |      | %Rec   |
|-------------|-------|--------|-----------|------|---|------|--------|
| Analyte     | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| 1.4-Dioyane | 10.0  | 8 33   | -         | ua/l |   | 83   | 75 121 |

LCS LCS %Recovery Qualifier Surrogate Limits 68 - 127 1,2-Dichloroethane-d4 (Surr) 80

Lab Sample ID: 240-224503-E-3 MS

**Matrix: Water** 

| Analysis Batch: 656415 |        |           |       |        |           |      |   |      |          |  |  |
|------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|--|--|
|                        | Sample | Sample    | Spike | MS     | MS        |      |   |      | %Rec     |  |  |
| Analyte                | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits   |  |  |
| 1,4-Dioxane            | 2.0    | U         | 10.0  | 9.51   |           | ug/L | _ | 95   | 20 - 180 |  |  |

**Eurofins Cleveland** 

5/20/2025

Prep Type: Total/NA

### **QC Sample Results**

Client: Arcadis US Inc. Job ID: 240-224390-1

> MSD MSD Result Qualifier

> > 9.78

Project/Site: Ford LTP Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

|                              | MS        | MS        |          |
|------------------------------|-----------|-----------|----------|
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 1,2-Dichloroethane-d4 (Surr) | 81        |           | 68 - 127 |

| <del>-</del><br>-      |             |
|------------------------|-------------|
| Lab Sample ID: 240-224 | 503-E-3 MSD |

**Matrix: Water** 

Analysis Batch: 656415

|                              | Sample    | Sample    | Spike    |
|------------------------------|-----------|-----------|----------|
| Analyte                      | Result    | Qualifier | Added    |
| 1,4-Dioxane                  | 2.0       | U         | 10.0     |
|                              | MSD       | MSD       |          |
| Surrogate                    | %Recovery | Qualifier | Limits   |
| 1,2-Dichloroethane-d4 (Surr) | 81        |           | 68 - 127 |

**Client Sample ID: Matrix Spike Duplicate** 

**Prep Type: Total/NA** 

RPD D Limits RPD Limit %Rec

Unit 20 - 180 3 ug/L

# **QC Association Summary**

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-224390-1

### **GC/MS VOA**

#### Analysis Batch: 656415

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method    | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 240-224390-2       | MW-40_050925           | Total/NA  | Water  | 8260D SIM |            |
| 240-224390-3       | MW-41_050925           | Total/NA  | Water  | 8260D SIM |            |
| 240-224390-4       | MW-42_050925           | Total/NA  | Water  | 8260D SIM |            |
| MB 240-656415/7    | Method Blank           | Total/NA  | Water  | 8260D SIM |            |
| LCS 240-656415/5   | Lab Control Sample     | Total/NA  | Water  | 8260D SIM |            |
| 240-224503-E-3 MS  | Matrix Spike           | Total/NA  | Water  | 8260D SIM |            |
| 240-224503-E-3 MSD | Matrix Spike Duplicate | Total/NA  | Water  | 8260D SIM |            |

### Analysis Batch: 656451

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 240-224390-1       | TRIP BLANK_98          | Total/NA  | Water  | 8260D  |            |
| 240-224390-2       | MW-40_050925           | Total/NA  | Water  | 8260D  |            |
| 240-224390-3       | MW-41_050925           | Total/NA  | Water  | 8260D  |            |
| 240-224390-4       | MW-42_050925           | Total/NA  | Water  | 8260D  |            |
| MB 240-656451/7    | Method Blank           | Total/NA  | Water  | 8260D  |            |
| LCS 240-656451/4   | Lab Control Sample     | Total/NA  | Water  | 8260D  |            |
| 240-224395-A-5 MS  | Matrix Spike           | Total/NA  | Water  | 8260D  |            |
| 240-224395-B-5 MSD | Matrix Spike Duplicate | Total/NA  | Water  | 8260D  |            |

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#### Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-224390-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK\_98

Lab Sample ID: 240-224390-1 Date Collected: 05/09/25 00:00

**Matrix: Water** 

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** Lab or Analyzed 8260D 05/18/25 19:14 Total/NA Analysis 656451 LEE EET CLE

Client Sample ID: MW-40\_050925 Lab Sample ID: 240-224390-2

Date Collected: 05/09/25 10:05 **Matrix: Water** 

Date Received: 05/14/25 08:00

Date Received: 05/14/25 08:00

Batch Batch Dilution Batch Prepared Prep Type Method Factor Number Analyst or Analyzed Type Run Lab Total/NA 8260D LEE EET CLE 05/18/25 19:32 Analysis 656451 Total/NA 8260D SIM 656415 R5XG **EET CLE** 05/17/25 13:12 Analysis 1

Client Sample ID: MW-41\_050925 Lab Sample ID: 240-224390-3

Date Collected: 05/09/25 11:05 **Matrix: Water** 

Date Received: 05/14/25 08:00

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** or Analyzed Lab 05/18/25 19:50 Total/NA 8260D Analysis 656451 LEE EET CLE 05/17/25 13:35 Total/NA Analysis 8260D SIM 656415 R5XG **EET CLE** 1

Client Sample ID: MW-42\_050925 Lab Sample ID: 240-224390-4

Date Collected: 05/09/25 12:55 **Matrix: Water** 

Date Received: 05/14/25 08:00

|           | Batch    | Batch     |     | Dilution | Batch  |         |         | Prepared       |
|-----------|----------|-----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре     | Method    | Run | Factor   | Number | Analyst | Lab     | or Analyzed    |
| Total/NA  | Analysis | 8260D     |     |          | 656451 | LEE     | EET CLE | 05/18/25 20:08 |
| Total/NA  | Analysis | 8260D SIM |     | 1        | 656415 | R5XG    | EET CLE | 05/17/25 13:59 |

**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. Job ID: 240-224390-1 Project/Site: Ford LTP

#### **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                | 08-31-25        |
| lowa               | State               | 421                   | 06-01-25        |
| 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                 | 07-03-25        |
| 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              | 08-31-25        |
| 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                | 09-14-25        |
| West Virginia DEP  | State               | 210                   | 12-31-25        |
| Wisconsin          | State               | 399167560             | 08-31-25        |



#### **Chain of Custody Record**

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| Test      | Ame          | erica         |
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TestAmerica Laboratory location: Farmington Hills — 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331 Client Contact - NPDES RCRA Regulatory program: □ DW C Other Company Name: Arcadis TestAmerica Laboratories, Inc. Lab Contact: Mike DelMonico COC No: Client Project Manager: Megan Meckley Site Contact: Samantha Szpaichler Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 City/State/Zip: Novi, MI, 48377 1 of 1 Analysis Turnaround Time Analyses Email: megan.meckley@arcadis.com Phone: 248-994-2240 TAT if different from below Walk-in client Sampler Name 3 weeks Project Name: Ford LTP 2 weeks 10 day Lab san pling Project Number: 30251157.401.04 Method of Shipment/Carrier: 1 week 1,4-Dioxane 8260D SIM Composite=C/Grab=G 2 days PO # US3460023914 1 day Job/SDG No: Shipping/Tracking No: /inyl Chloride Matrix Containers & Preservatives Sample Specific Notes / 12504 INO3 Solid Special Instructions: 5 Sample Identification Sample Date | Sample Time TRIP BLANK NG Х |X|XX X 1 Trip Blank 3 VOAs for 8260D 3 VOAs for 8260D SIM (3) 9 100/dal/ 240-224390 COC Possible Hazard Identification Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) sin Irritant Poison B Disposal By Lab Special Instructions/QC Requirements & Comments: onsite Submit all results through Cadena at jtomalia@cadenaco.com, Cadena #E203728 Level IV Reporting requested. Simle 15 He 109 stialas 1645

| VOA Sample Preservation - Date/Time VOAs Frozen.  | ŏ                |
|---|------------------|
| Sample(s)were further preserved in the laboratory Time preservedPreservative(s) added/Lot number(s)were further preserved in the laboratory   | Sar              |
| 20. SAMPLE PRESERVATION   | 20.              |
| 19 SAMPLE CONDITION  were received after the recommended holding time had expired.  Sample(s) were received after the recommended holding time had expired.  were received in a broken container  were received with bubble >6 mm in diameter (Notify PM) | 19<br>San<br>San |
|   |                  |
| 18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES [ ] additional next page   Labeled by   Labels Venfied by   | 18.              |
| Concerning  | ₿                |
| Contacted PM Date by via Verbal Voice Mail Other  | ξ                |
| Were air bubbles >6 mm in any VOA vials?  | 15<br>16<br>17   |
| Were all preserved sample(s) at the correct pH upon receipt?  Were VOAs on the COC?  Were VOAs on the COC?  | 14               |
|   | 12               |
| Could all bottle labels (ID/Date/Time) be reconciled with the COC?  For each sample, does the COC specify preservatives (Y/M), # of containers (Y/M), and san Were correct bottle(s) used for the test(s) indicated?                                      | %<br>9           |
| Was/were the person(s) who collected the samples clearly identified on the COC? Xes No  Did all bottles arrive in good condition (Unbroken)?  | 7 6 0            |
| <b>16</b> 2   | ωΑ, λ            |
| NA NA   |                  |
| s Quantity. X (Yes) No  | 2,               |
| Cooler temperature upon receipt  IR GUN # (CF / O. S°C) Observed Cooler Temp °C Corrected Cooler Temp. °C   | _                |
| rıal used. <u>Bubble Wrap</u> Foam Plastic Bag<br>NT <u>Wet Ice</u> Blue Ice <u>Dry</u> Ice Water   | i<br>i           |
| Receipt After-hours Drop-off Date/Time Storage Location  Eurofins Cooler # Foam Box Chent Cooler Box Other-   |                  |
| RedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other  | ed               |
| 113 -14-20  | le               |
| Barberton Facility  | 321              |

Page 21 of 23

| □ See Tem  | - 2                  | 0                | J. 10   |           | - |           |           | R GUN #:  | R GUN #:  | R GUN #:  | IR GUN #:       | R GUN #:        | IR GUN #        | IR GUN #       | R GUN #:        | R GUN #:        | IR GUN #:       | IR GUN #:     | IR GUN #:       | IR GUN #:       | IR GUN #:       | R GUN #         | IR GUN #:       | IR GUN #:      | IR GUN #:    | IR GUN #: | IR GUN #:          | IR GUN #: | IR GUN #: | IR GUN #:         | IR GUN #  | IR GUN ≹· | IR GUN #: | R GUN ≢:      | IR GUN #: |          |
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| Wet Ice Blue Ice Dry Ice | Wet ice was well ice | Wet ice Blue ice | Wellice | Wet Ice I |   | Wet ice 1 | Wellice I | Wei ice i | Wel ice i | Wet Ice 1 | Wel Ice<br>Wate | Wei Ice<br>Wate | Wet Ice<br>Wate | Wellce<br>Wate | Wet Ice<br>Wate | Wet Ice<br>Wate | Wet Ice<br>Wate | Wel Ice Water | Wel Ice<br>Wate | Wel Ice<br>Wate | Wet Ice<br>Wate | Wel Ice<br>Wate | Wel Ice<br>Wale | Wellce<br>Wele | Wet ice Wate | Wellce (  | Wellice  <br>Water | Wet Ice I | Wet Ice 1 | Wet ice   Wet ice | Wet Ice 1 | Wet ice t | Wet ice I | Wet Ice Water |           | See Temp |

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| Temperature readings |                |                                   | 20/2025  | 2012023      |
|----------------------|----------------|-----------------------------------|--|--------------|
| Client Sample ID     | <u>Lab ID</u>  | Container Type                    | Container Preservation Preservation  pH Temp Added Lot Number  | 3/           |
| TRIP BLANK_98        | 240-224390-A-1 | Voa Vial 40ml - Hydrochloric Acid |  | 775          |
| MW-40_050925         | 240-224390-A-2 | Voa Vial 40ml - Hydrochloric Acid | Sundayimahaya Sandaya sayaya Mahahaya ahaadada ahaadada ahaa   |              |
| MW-40_050925         | 240-224390-B-2 | Voa Vial 40ml - Hydrochloric Acid |  |              |
| MW-40_050925         | 240-224390-C-2 | Voa Vial 40ml - Hydrochloric Acid |  |              |
| MW-40_050925         | 240-224390-D-2 | Voa Vial 40ml - Hydrochloric Acid |  |              |
| MW-40_050925         | 240-224390-E-2 | Voa Vial 40ml - Hydrochloric Acid | Communications of the control of the |              |
| MW-40_050925         | 240-224390-F-2 | Voa Vial 40ml - Hydrochloric Acıd | American de la companya del la companya de la compa |              |
| MW-41_050925         | 240-224390-A-3 | Voa Vial 40ml - Hydrochloric Acid | Transition  |              |
| MW-41_050925         | 240-224390-B-3 | Voa Vial 40ml - Hydrochloric Acıd |  |              |
| MW-41_050925         | 240-224390-C-3 | Voa Vial 40ml - Hydrochloric Acid |  |              |
| MW-41_050925         | 240-224390-D-3 | Voa Vial 40ml - Hydrochloric Acid |  |              |
| MW-41_050925         | 240-224390-E-3 | Voa Vial 40ml - Hydrochloric Acid | The second secon |              |
| MW-41_050925         | 240-224390-F-3 | Voa Vial 40ml - Hydrochloric Acid |  |              |
| MW-42_050925         | 240-224390-A-4 | Voa Vial 40ml - Hydrochloric Acid | Control of the Contro |              |
| MW-42_050925         | 240-224390-B-4 | Voa Vial 40ml - Hydrochloric Acid |  | ,            |
| MW-42_050925         | 240-224390-C-4 | Voa Vial 40ml - Hydrochloric Acıd | of 23  | )I Z         |
| MW-42_050925         | 240-224390-D-4 | Voa Vial 40ml - Hydrochloric Acid | 23 0   | <b>2</b> 0 ( |
| MW-42_050925         | 240-224390-E-4 | Voa Vial 40ml - Hydrochloric Acid | age  | aye          |
| MW-42_050925         | 240-224390-F-4 | Voa Vial 40ml - Hydrochloric Acid | P  | Γ.           |

### DATA VERIFICATION REPORT



May 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 (vapor 301.04) Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 224390-1 Sample date: 2025-05-09

Report received by CADENA: 2025-05-20

Initial Data Verification completed by CADENA: 2025-05-20

Number of Samples:4 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.

There were no significant QC anomalies or exceptions to report.

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

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

**Project Scientist** 

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI  $48108\ 517\text{-}819\text{-}0356$ 

# **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: 224390-1

|           |                          | Sample Name:   | TRIP BLANK_98<br>: 2402243901 |        |       |           | MW-40_050925 |        |       |           | MW-41_050925<br>2402243903 |        |       |           | MW-42_050925 |        |       |           |
|-----------|--------------------------|----------------|-------------------------------|--------|-------|-----------|--------------|--------|-------|-----------|----------------------------|--------|-------|-----------|--------------|--------|-------|-----------|
|           |                          | Lab Sample ID: |                               |        |       |           | 2402243902   |        |       | 240224    |                            |        |       |           |              |        |       |           |
|           |                          | Sample Date:   | 5/9/2025                      |        |       | 5/9/2025  |              |        |       | 5/9/2025  |                            |        |       |           | 5/9/202      | 25     |       |           |
|           |                          |                |                               | Report |       | Valid     |              | Report |       | Valid     |                            | Report |       | Valid     |              | Report |       | Valid     |
|           | Analyte                  | Cas No.        | Result                        | Limit  | Units | Qualifier | Result       | Limit  | Units | Qualifier | Result                     | Limit  | Units | Qualifier | Result       | Limit  | Units | Qualifier |
| GC/MS VOC |                          |                |                               |        |       |           |              |        |       |           |                            |        |       |           |              |        |       |           |
| OSW-82    | 260D                     |                |                               |        |       |           |              |        |       |           |                            |        |       |           |              |        |       |           |
|           | 1,1-Dichloroethene       | 75-35-4        | ND                            | 1.0    | ug/l  |           | ND           | 1.0    | ug/l  |           | ND                         | 1.0    | ug/l  |           | ND           | 1.0    | ug/l  |           |
|           | cis-1,2-Dichloroethene   | 156-59-2       | ND                            | 1.0    | ug/l  |           | 1.9          | 1.0    | ug/l  |           | ND                         | 1.0    | ug/l  |           | ND           | 1.0    | ug/l  |           |
|           | Tetrachloroethene        | 127-18-4       | ND                            | 1.0    | ug/l  |           | ND           | 1.0    | ug/l  |           | 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  |           | ND                         | 1.0    | ug/l  |           | ND           | 1.0    | ug/l  |           |
|           | Trichloroethene          | 79-01-6        | ND                            | 1.0    | ug/l  |           | ND           | 1.0    | ug/l  |           | ND                         | 1.0    | ug/l  |           | ND           | 1.0    | ug/l  |           |
|           | Vinyl chloride           | 75-01-4        | ND                            | 1.0    | ug/l  |           | 1.1          | 1.0    | ug/l  |           | 1.0                        | 1.0    | ug/l  |           | 0.76         | 1.0    | ug/l  | J         |
| OSW-82    | 260DSIM                  |                |                               |        |       |           |              |        |       |           |                            |        |       |           |              |        |       |           |
|           | 1,4-Dioxane              | 123-91-1       |                               |        |       |           | ND           | 2.0    | ug/l  |           | 13                         | 2.0    | ug/l  |           | 1.7          | 2.0    | ug/l  | J         |