



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Kristoffer Hinskey  
ARCADIS US Inc  
28550 Cabot Drive  
Suite 500  
Novi, Michigan 48377

Generated 5/21/2023 11:08:38 PM

## JOB DESCRIPTION

Ford LTP - Off Site

## JOB NUMBER

240-185141-1

# Eurofins Cleveland

## Job Notes

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

## Authorization



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# Table of Contents

|                                  |    |
|----------------------------------|----|
| Cover Page . . . . .             | 1  |
| Table of Contents . . . . .      | 3  |
| Definitions/Glossary . . . . .   | 4  |
| Case Narrative . . . . .         | 5  |
| Method Summary . . . . .         | 6  |
| Sample Summary . . . . .         | 7  |
| Detection Summary . . . . .      | 8  |
| Client Sample Results . . . . .  | 9  |
| Surrogate Summary . . . . .      | 11 |
| QC Sample Results . . . . .      | 12 |
| QC Association Summary . . . . . | 14 |
| Lab Chronicle . . . . .          | 15 |
| Certification Summary . . . . .  | 16 |
| Chain of Custody . . . . .       | 17 |
| Receipt Checklists . . . . .     | 21 |

# Definitions/Glossary

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

Job ID: 240-185141-1

## Qualifiers

### GC/MS VOA

| Qualifier | Qualifier Description                                    |
|-----------|--|
| U         | Indicates the analyte was analyzed for but not detected. |

## Glossary

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

# Case Narrative

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

Job ID: 240-185141-1

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**Job ID: 240-185141-1**

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**Laboratory: Eurofins Cleveland**

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**Narrative**

**Job Narrative**  
**240-185141-1**

**Receipt**

The samples were received on 5/11/2023 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 1.0°C and 1.2°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 - Off Site

Job ID: 240-185141-1

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

**Protocol References:**

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

**Laboratory References:**

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

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# Sample Summary

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

Job ID: 240-185141-1

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| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       |
|---------------|------------------|--------|----------------|----------------|
| 240-185141-1  | TRIP BLANK_59    | Water  | 05/09/23 00:00 | 05/11/23 08:00 |
| 240-185141-2  | MW-167S_050923   | Water  | 05/09/23 13:41 | 05/11/23 08:00 |

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# Detection Summary

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

Job ID: 240-185141-1

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**Client Sample ID: TRIP BLANK\_59**

**Lab Sample ID: 240-185141-1**

No Detections.

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**Client Sample ID: MW-167S\_050923**

**Lab Sample ID: 240-185141-2**

No Detections.

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This Detection Summary does not include radiochemical test results.

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# Client Sample Results

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

Job ID: 240-185141-1

**Client Sample ID: TRIP BLANK\_59**

**Lab Sample ID: 240-185141-1**

Date Collected: 05/09/23 00:00

Matrix: Water

Date Received: 05/11/23 08:00

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

| Analyte                  | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene       | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 05/19/23 13:57 | 1       |
| cis-1,2-Dichloroethene   | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 05/19/23 13:57 | 1       |
| Tetrachloroethene        | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/19/23 13:57 | 1       |
| trans-1,2-Dichloroethene | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 05/19/23 13:57 | 1       |
| Trichloroethene          | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/19/23 13:57 | 1       |
| Vinyl chloride           | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 05/19/23 13:57 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 110       |           | 70 - 128 |          | 05/19/23 13:57 | 1       |
| Dibromofluoromethane (Surr)  | 120       |           | 77 - 124 |          | 05/19/23 13:57 | 1       |
| Toluene-d8 (Surr)            | 101       |           | 80 - 120 |          | 05/19/23 13:57 | 1       |
| 4-Bromofluorobenzene         | 99        |           | 76 - 120 |          | 05/19/23 13:57 | 1       |

# Client Sample Results

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

Job ID: 240-185141-1

**Client Sample ID: MW-167S\_050923**

**Lab Sample ID: 240-185141-2**

Date Collected: 05/09/23 13:41

Matrix: Water

Date Received: 05/11/23 08:00

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

| Analyte              | Result           | Qualifier        | RL            | MDL  | Unit | D | Prepared        | Analyzed        | Dil Fac        |
|----------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| 1,4-Dioxane          | 2.0              | U                | 2.0           | 0.86 | ug/L |   |                 | 05/18/23 16:16  | 1              |
| <b>Surrogate</b>     | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |      |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 4-Bromofluorobenzene | 96               |                  | 75 - 133      |      |      |   |                 | 05/18/23 16:16  | 1              |

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

| Analyte                      | Result           | Qualifier        | RL            | MDL  | Unit | D | Prepared        | Analyzed        | Dil Fac        |
|------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| 1,1-Dichloroethene           | 1.0              | U                | 1.0           | 0.49 | ug/L |   |                 | 05/19/23 16:03  | 1              |
| cis-1,2-Dichloroethene       | 1.0              | U                | 1.0           | 0.46 | ug/L |   |                 | 05/19/23 16:03  | 1              |
| Tetrachloroethene            | 1.0              | U                | 1.0           | 0.44 | ug/L |   |                 | 05/19/23 16:03  | 1              |
| trans-1,2-Dichloroethene     | 1.0              | U                | 1.0           | 0.51 | ug/L |   |                 | 05/19/23 16:03  | 1              |
| Trichloroethene              | 1.0              | U                | 1.0           | 0.44 | ug/L |   |                 | 05/19/23 16:03  | 1              |
| Vinyl chloride               | 1.0              | U                | 1.0           | 0.45 | ug/L |   |                 | 05/19/23 16:03  | 1              |
| <b>Surrogate</b>             | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |      |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1,2-Dichloroethane-d4 (Surr) | 119              |                  | 70 - 128      |      |      |   |                 | 05/19/23 16:03  | 1              |
| Dibromofluoromethane (Surr)  | 124              |                  | 77 - 124      |      |      |   |                 | 05/19/23 16:03  | 1              |
| Toluene-d8 (Surr)            | 106              |                  | 80 - 120      |      |      |   |                 | 05/19/23 16:03  | 1              |
| 4-Bromofluorobenzene         | 105              |                  | 76 - 120      |      |      |   |                 | 05/19/23 16:03  | 1              |

# Surrogate Summary

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

Job ID: 240-185141-1

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID     | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |                  |                 |                 |
|-------------------|------------------------|--|------------------|-----------------|-----------------|
|                   |                        | DCA<br>(70-128)                                | DBFM<br>(77-124) | TOL<br>(80-120) | BFB<br>(76-120) |
| 240-185141-1      | TRIP BLANK_59          | 110  | 120              | 101             | 99              |
| 240-185141-2      | MW-167S_050923         | 119  | 124              | 106             | 105             |
| LCS 460-910178/4  | Lab Control Sample     | 93   | 102              | 100             | 92              |
| LCSD 460-910178/5 | Lab Control Sample Dup | 93   | 97               | 103             | 95              |
| MB 460-910178/9   | Method Blank           | 95   | 102              | 94              | 87              |

### Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID      | Client Sample ID       | Percent Surrogate Recovery (Acceptance Limits) |
|--------------------|------------------------|--|
|                    |                        | BFB<br>(75-133)                                |
| 240-185141-2       | MW-167S_050923         | 96   |
| LCS 460-909931/4   | Lab Control Sample     | 94   |
| LCSD 460-909931/12 | Lab Control Sample Dup | 96   |
| MB 460-909931/7    | Method Blank           | 96   |

### Surrogate Legend

BFB = 4-Bromofluorobenzene

# QC Sample Results

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

Job ID: 240-185141-1

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

Lab Sample ID: MB 460-910178/9

Matrix: Water

Analysis Batch: 910178

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte                  | MB     | MB        | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
|                          | Result | Qualifier |     |      |      |   |          |                |         |
| 1,1-Dichloroethene       | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 05/19/23 10:07 | 1       |
| cis-1,2-Dichloroethene   | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 05/19/23 10:07 | 1       |
| Tetrachloroethene        | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/19/23 10:07 | 1       |
| trans-1,2-Dichloroethene | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 05/19/23 10:07 | 1       |
| Trichloroethene          | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/19/23 10:07 | 1       |
| Vinyl chloride           | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 05/19/23 10:07 | 1       |

| Surrogate                    | MB        | MB        | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
|                              | %Recovery | Qualifier |          |          |                |         |
| 1,2-Dichloroethane-d4 (Surr) | 95        |           | 70 - 128 |          | 05/19/23 10:07 | 1       |
| Dibromofluoromethane (Surr)  | 102       |           | 77 - 124 |          | 05/19/23 10:07 | 1       |
| Toluene-d8 (Surr)            | 94        |           | 80 - 120 |          | 05/19/23 10:07 | 1       |
| 4-Bromofluorobenzene         | 87        |           | 76 - 120 |          | 05/19/23 10:07 | 1       |

Lab Sample ID: LCS 460-910178/4

Matrix: Water

Analysis Batch: 910178

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte                  | Spike Added | LCS    | LCS       | Unit | D | %Rec | %Rec Limits |
|--------------------------|-------------|--------|-----------|------|---|------|-------------|
|                          |             | Result | Qualifier |      |   |      |             |
| 1,1-Dichloroethene       | 20.0        | 16.0   |           | ug/L |   | 80   | 68 - 133    |
| cis-1,2-Dichloroethene   | 20.0        | 15.9   |           | ug/L |   | 79   | 78 - 121    |
| Tetrachloroethene        | 20.0        | 18.7   |           | ug/L |   | 94   | 70 - 127    |
| trans-1,2-Dichloroethene | 20.0        | 16.3   |           | ug/L |   | 81   | 74 - 126    |
| Trichloroethene          | 20.0        | 16.6   |           | ug/L |   | 83   | 71 - 121    |
| Vinyl chloride           | 20.0        | 15.6   |           | ug/L |   | 78   | 55 - 144    |

| Surrogate                    | LCS       | LCS       | Limits   |
|------------------------------|-----------|-----------|----------|
|                              | %Recovery | Qualifier |          |
| 1,2-Dichloroethane-d4 (Surr) | 93        |           | 70 - 128 |
| Dibromofluoromethane (Surr)  | 102       |           | 77 - 124 |
| Toluene-d8 (Surr)            | 100       |           | 80 - 120 |
| 4-Bromofluorobenzene         | 92        |           | 76 - 120 |

Lab Sample ID: LCSD 460-910178/5

Matrix: Water

Analysis Batch: 910178

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

| Analyte                  | Spike Added | LCSD   | LCSD      | Unit | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------|-------------|--------|-----------|------|---|------|-------------|-----|-----------|
|                          |             | Result | Qualifier |      |   |      |             |     |           |
| 1,1-Dichloroethene       | 20.0        | 15.9   |           | ug/L |   | 79   | 68 - 133    | 1   | 30        |
| cis-1,2-Dichloroethene   | 20.0        | 16.4   |           | ug/L |   | 82   | 78 - 121    | 3   | 30        |
| Tetrachloroethene        | 20.0        | 19.7   |           | ug/L |   | 99   | 70 - 127    | 5   | 30        |
| trans-1,2-Dichloroethene | 20.0        | 16.8   |           | ug/L |   | 84   | 74 - 126    | 3   | 30        |
| Trichloroethene          | 20.0        | 16.9   |           | ug/L |   | 84   | 71 - 121    | 1   | 30        |
| Vinyl chloride           | 20.0        | 15.0   |           | ug/L |   | 75   | 55 - 144    | 4   | 30        |

| Surrogate                    | LCSD      | LCSD      | Limits   |
|------------------------------|-----------|-----------|----------|
|                              | %Recovery | Qualifier |          |
| 1,2-Dichloroethane-d4 (Surr) | 93        |           | 70 - 128 |
| Dibromofluoromethane (Surr)  | 97        |           | 77 - 124 |
| Toluene-d8 (Surr)            | 103       |           | 80 - 120 |

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# QC Sample Results

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

Job ID: 240-185141-1

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

Lab Sample ID: LCSD 460-910178/5  
Matrix: Water  
Analysis Batch: 910178

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

|                      | LCSD      | LCSD      |          |
|----------------------|-----------|-----------|----------|
| Surrogate            | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene | 95        |           | 76 - 120 |

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

Lab Sample ID: MB 460-909931/7  
Matrix: Water  
Analysis Batch: 909931

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

| Analyte              | MB     | MB        |          |      |      |   |          |                |         |
|----------------------|--------|-----------|----------|------|------|---|----------|----------------|---------|
|                      | Result | Qualifier | RL       | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
| 1,4-Dioxane          | 2.0    | U         | 2.0      | 0.86 | ug/L |   |          | 05/18/23 08:26 | 1       |
| Surrogate            | MB     | MB        |          |      |      |   | Prepared | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene | 96     |           | 75 - 133 |      |      |   |          | 05/18/23 08:26 | 1       |

Lab Sample ID: LCS 460-909931/4  
Matrix: Water  
Analysis Batch: 909931

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

| Analyte              |     | Spike |          | LCS       | LCS  |   |      |          | %Rec |
|----------------------|-----|-------|----------|-----------|------|---|------|----------|------|
|                      |     | Added | Result   | Qualifier | Unit | D | %Rec | Limits   |      |
| 1,4-Dioxane          |     | 5.00  | 4.90     |           | ug/L |   | 98   | 57 - 124 |      |
| Surrogate            | LCS | LCS   |          |           |      |   |      |          |      |
| 4-Bromofluorobenzene | 94  |       | 75 - 133 |           |      |   |      |          |      |

Lab Sample ID: LCSD 460-909931/12  
Matrix: Water  
Analysis Batch: 909931

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

| Analyte              |      | Spike |          | LCSD      | LCSD |   |      |          | %Rec |       | RPD |
|----------------------|------|-------|----------|-----------|------|---|------|----------|------|-------|-----|
|                      |      | Added | Result   | Qualifier | Unit | D | %Rec | Limits   | RPD  | Limit |     |
| 1,4-Dioxane          |      | 5.00  | 4.91     |           | ug/L |   | 98   | 57 - 124 | 0    | 30    |     |
| Surrogate            | LCSD | LCSD  |          |           |      |   |      |          |      |       |     |
| 4-Bromofluorobenzene | 96   |       | 75 - 133 |           |      |   |      |          |      |       |     |

# QC Association Summary

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

Job ID: 240-185141-1

## GC/MS VOA

### Analysis Batch: 909931

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method    | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 240-185141-2       | MW-167S_050923         | Total/NA  | Water  | 8260D SIM |            |
| MB 460-909931/7    | Method Blank           | Total/NA  | Water  | 8260D SIM |            |
| LCS 460-909931/4   | Lab Control Sample     | Total/NA  | Water  | 8260D SIM |            |
| LCSD 460-909931/12 | Lab Control Sample Dup | Total/NA  | Water  | 8260D SIM |            |

### Analysis Batch: 910178

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 240-185141-1      | TRIP BLANK_59          | Total/NA  | Water  | 8260D  |            |
| 240-185141-2      | MW-167S_050923         | Total/NA  | Water  | 8260D  |            |
| MB 460-910178/9   | Method Blank           | Total/NA  | Water  | 8260D  |            |
| LCS 460-910178/4  | Lab Control Sample     | Total/NA  | Water  | 8260D  |            |
| LCSD 460-910178/5 | Lab Control Sample Dup | Total/NA  | Water  | 8260D  |            |



# Lab Chronicle

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

Job ID: 240-185141-1

## Client Sample ID: TRIP BLANK\_59

Lab Sample ID: 240-185141-1

Date Collected: 05/09/23 00:00

Matrix: Water

Date Received: 05/11/23 08:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 910178       | MZS     | EET EDI | 05/19/23 13:57       |

## Client Sample ID: MW-167S\_050923

Lab Sample ID: 240-185141-2

Date Collected: 05/09/23 13:41

Matrix: Water

Date Received: 05/11/23 08:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Analysis   | 8260D        |     | 1               | 910178       | MZS     | EET EDI | 05/19/23 16:03       |
| Total/NA  | Analysis   | 8260D SIM    |     | 1               | 909931       | SZD     | EET EDI | 05/18/23 16:16       |

### Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

# Accreditation/Certification Summary

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

Job ID: 240-185141-1

## Laboratory: Eurofins Edison

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-0818               | 01-30-24        |
| DE Haz. Subst. Cleanup Act (HSCA) | State               | N/A                   | 01-01-24        |
| Georgia                           | State               | 12028 (NJ)            | 06-30-23        |
| Massachusetts                     | State               | M-NJ312               | 06-30-23        |
| New Jersey                        | NELAP               | 12028                 | 06-30-23        |
| New York                          | NELAP               | 11452                 | 04-01-24        |
| Pennsylvania                      | NELAP               | 68-00522              | 03-01-24        |
| Rhode Island                      | State               | LAO00376              | 12-30-23        |
| USDA                              | US Federal Programs | P330-20-00244         | 11-03-23        |



**Chain of Custody Record**

TestAmerica Laboratory location: Brighton --- 10448 Citilion Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

|  |  |   |  |
|--|--|---|--|
| <b>Company Name:</b> Arcadis<br><b>Address:</b> 28550 Cabot Drive, Suite 500<br><b>City/State/Zip:</b> Novi, MI, 48377<br><b>Phone:</b> 248-994-2240<br><b>Project Name:</b> Ford LTP Off-Site<br><b>Project Number:</b> 30167538.402.04<br><b>PO #</b> 30167538.402.04                          |  | <b>Regulatory program:</b> <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other      |  |
| <b>Client Contact</b><br><b>Company Name:</b> Arcadis<br><b>Address:</b> 28550 Cabot Drive, Suite 500<br><b>City/State/Zip:</b> Novi, MI, 48377<br><b>Phone:</b> 248-994-2240<br><b>Project Name:</b> Ford LTP Off-Site<br><b>Project Number:</b> 30167538.402.04<br><b>PO #</b> 30167538.402.04 |  | <b>Client Project Manager:</b> Kris Hinskey<br><b>Telephone:</b> 248-994-2240<br><b>Email:</b> kristoffer.hinskey@arcadis.com                           |  |
| <b>Sample Identification</b><br>TRIP BLANK_59<br>MW-1675-050923  |  | <b>Lab Contact:</b> Mike DeMonico<br><b>Telephone:</b> 330-497-9396   |  |
| <b>Supplier Name:</b><br><i>Verica Ferencik</i><br><b>Method of Shipment/Carrier:</b><br><b>Shipping/Tracking No:</b>  |  | <b>Analyses</b><br>1,1-DCE 8260B<br>Cis-1,2-DCE 8260B<br>Trans-1,2-DCE 8260B<br>PCE 8260B<br>TCE 8260B<br>Vinyl Chloride 8260B<br>1,4-Dioxane 8260B SIM |  |
| <b>Sample Date</b> 05/09/23<br><b>Sample Time</b> ---  |  | <b>Containers &amp; Preservatives</b><br>H2SO4<br>HNO3<br>HCl<br>NaOH<br>ZnAc<br>NaOH<br>Lcpres<br>Other:   |  |
| <b>Matrix</b><br>Air<br>Aqueous<br>Sediment<br>Solid<br>Other:   |  | <b>Filtered Sample (Y/N)</b><br>Composite C / Grab G<br>NG X X X X X X<br>PG X X X X X X  |  |
| <b>Analysis Turnaround Time</b><br>TAT is different from below<br><input type="checkbox"/> 3 weeks<br><input checked="" type="checkbox"/> 2 weeks<br><input type="checkbox"/> 1 week<br><input type="checkbox"/> 2 days<br><input type="checkbox"/> 1 day  |  | <b>COCs</b><br>1 of 1 COCs<br>Walk-in client<br>Lab sampling<br>Job/SDG No:   |  |
| <b>Sample Specific Notes / Special Instructions:</b><br>1 Trip Blank<br>3 VOAs for 8260B<br>3 VOAs for 8260B SIM   |  |   |  |



|  |  |                                  |                                  |
|--|--|----------------------------------|----------------------------------|
| <b>Relinquished by:</b><br><i>Verica Ferencik</i><br><b>Company:</b> Arcadis | <b>Received by:</b><br><i>Pauli Gold Spage</i><br><b>Company:</b> EENA               | <b>Date/Time:</b> 05/09/23 16:30 | <b>Date/Time:</b> 05/10/23 16:30 |
| <b>Relinquished by:</b><br><i>Christina Weaver</i><br><b>Company:</b> EENA   | <b>Received by:</b><br><i>Judy Mc</i><br><b>Company:</b> EENA                        | <b>Date/Time:</b> 5/10/23 1550   | <b>Date/Time:</b> 5/10/23 1550   |
| <b>Relinquished by:</b><br><i>Judy Mc</i><br><b>Company:</b> EENA            | <b>Received in Laboratory by:</b><br><i>Jessica Ferencik</i><br><b>Company:</b> EENA | <b>Date/Time:</b> 5/10/23        | <b>Date/Time:</b> 5-11-23 900    |

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  
**Special Instructions/QC Requirements & Comments:**  
 Sample Address: 120 of Stark Rd  
 Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631  
 Level IV Reporting requested.



Barberton Facility  
 Client Arcadis Site Name \_\_\_\_\_ Cooler unpacked by Dany Roga  
 Cooler Received on 5-11-23 Opened on 5-11-23  
 FedEx: 1<sup>st</sup> Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other

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

Eurofins Cooler # EC Foam Box Client Cooler Box Other \_\_\_\_\_  
 Packing material used: Bubble Wrap Foam Plastic Bag None Other \_\_\_\_\_  
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt  See Multiple Cooler Form  
 IR GUN # 22 (CF 10.0 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Leach  Yes  No  
 -Were the seals on the outside of the cooler(s) signed & dated?  Yes  No  NA  
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?  Yes  No  NA  
 -Were tamper/custody seals intact and uncompromised?  Yes  No  NA
3. Shippers' packing slip attached to the cooler(s)?  Yes  No
4. Did custody papers accompany the sample(s)?  Yes  No
5. Were the custody papers relinquished & signed in the appropriate place?  Yes  No
6. Was/were the person(s) who collected the samples clearly identified on the COC?  Yes  No
7. Did all bottles arrive in good condition (Unbroken)?  Yes  No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?  Yes  No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?  Yes  No
10. Were correct bottle(s) used for the test(s) indicated?  Yes  No
11. Sufficient quantity received to perform indicated analyses?  Yes  No
12. Are these work share samples and all listed on the COC?  Yes  No  
 If yes, Questions 13-17 have been checked at the originating laboratory.
13. Were all preserved sample(s) at the correct pH upon receipt?  Yes  No  NA pH Strip Lot# HC208070
14. Were VOAs on the COC?  Yes  No  NA
15. Were air bubbles >6 mm in any VOA vials?  Yes  No  NA ● ← Larger than this
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Covered  Yes  No  NA
17. Was a LL Hg or Me Hg trip blank present?  Yes  No  NA

Tests that are not checked for pH by Receiving:  
 VOAs  
 Oil and Grease  
 TOC

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

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES  additional next page Samples processed by: \_\_\_\_\_

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

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

**Eurofins - Canton Sample Receipt Multiple Cooler Form**

| Cooler Description (Circle) |        |     |       | IR Gun # (Circle)   | Observed Temp °C | Corrected Temp °C | Coolant (Circle)               |          |         |
|-----------------------------|--------|-----|-------|---------------------|------------------|-------------------|--------------------------------|----------|---------|
| <u>EC</u>                   | Client | Box | Other | IR GUN #: <u>22</u> | <u>1.0</u>       | <u>1.0</u>        | <u>Wet Ice</u>                 | Blue Ice | Dry Ice |
| <u>EC</u>                   | Client | Box | Other | IR GUN #: <u>22</u> | <u>1.2</u>       | <u>1.2</u>        | <u>Wet Ice</u>                 | Blue Ice | Dry Ice |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Wet Ice                        | Blue Ice | Dry Ice |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Water                          | None     |         |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Wet Ice                        | Blue Ice | Dry Ice |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Water                          | None     |         |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Wet Ice                        | Blue Ice | Dry Ice |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Water                          | None     |         |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Wet Ice                        | Blue Ice | Dry Ice |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Water                          | None     |         |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Wet Ice                        | Blue Ice | Dry Ice |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Water                          | None     |         |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Wet Ice                        | Blue Ice | Dry Ice |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Water                          | None     |         |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Wet Ice                        | Blue Ice | Dry Ice |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Water                          | None     |         |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Wet Ice                        | Blue Ice | Dry Ice |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Water                          | None     |         |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Wet Ice                        | Blue Ice | Dry Ice |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Water                          | None     |         |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Wet Ice                        | Blue Ice | Dry Ice |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Water                          | None     |         |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Wet Ice                        | Blue Ice | Dry Ice |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Water                          | None     |         |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Wet Ice                        | Blue Ice | Dry Ice |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Water                          | None     |         |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Wet Ice                        | Blue Ice | Dry Ice |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Water                          | None     |         |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Wet Ice                        | Blue Ice | Dry Ice |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Water                          | None     |         |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Wet Ice                        | Blue Ice | Dry Ice |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Water                          | None     |         |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Wet Ice                        | Blue Ice | Dry Ice |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Water                          | None     |         |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Wet Ice                        | Blue Ice | Dry Ice |
| EC                          | Client | Box | Other | IR GUN #:           |                  |                   | Water                          | None     |         |
| <input type="checkbox"/>    |        |     |       |                     |                  |                   | See Temperature Excursion Form |          |         |





**Client Information (Sub Contract Lab)**

Client Contact: **Shipping/Receiving**

Company: **Eurofins Environment Testing Northeast,**

Address: **777 New Durham Road,**

City: **Edison**

State, Zip: **NJ, 08817**

Phone: **732-549-3900(Tel) 732-549-3679(Fax)**

Email:

Project Name: **Ford LTP - Off Site**

Site:

Lab PM: **DelMonico, Michael**

E-Mail: **Michael.DelMonico@et.eurofins.com**

Accreditations Required (See note):

**Due Date Requested:** 5/24/2023

**TAT Requested (days):**

**PO #:**

**WO #:**

**Project #:** 24015353

**SSOW#:**

Sampler: **DelMonico, Michael**

Phone:

**Camtr Tracking No(s):** 240-167972.1

State of Origin: **Michigan**

Page 1 of 1

Job #: 240-185141-1

**Analysis Requested**

|                                     |                 |                    |  |                    |                              |             |             |             |             |             |             |             |             |             |             |             |
|-------------------------------------|-----------------|--------------------|--|--------------------|------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                     |                 |                    |  |                    |                              |             |             |             |             |             |             |             |             |             |             |             |
| 8260D_5030C (MOD) VOCs (Short List) | 8260D_SIM/5030C | Sample (Yes or No) | Matrix (Water, Solid, Overstool, BT, Tissue, A-AL) | Preservation Code: | Sample Type (C=Comp, G=grab) | Sample Time | Sample Date | Sample Time | Sample Date | Sample Time | Sample Date | Sample Time | Sample Date | Sample Time | Sample Date | Sample Time |
|                                     |                 |                    |  |                    |                              |             |             |             |             |             |             |             |             |             |             |             |
|                                     |                 |                    |  |                    |                              |             |             |             |             |             |             |             |             |             |             |             |
|                                     |                 |                    |  |                    |                              |             |             |             |             |             |             |             |             |             |             |             |

**Special Instructions/Note:**

Total Number of Containers

|   |
|---|
| X |
| 1 |
| 6 |

**Preservation Codes:**  
M - Hexane  
N - None  
O - AsNaO2  
P - Na2O4S  
Q - Na2SO3  
R - Na2SO3  
S - H2SO4  
T - TSP Dodecahydrate  
U - Acetone  
V - MCAA  
W - pH 4-5  
X - Trizma  
Y - EDTA  
Z - other (specify)

**Other:**

**Sample Identification - Client ID (Lab ID)**

|                               |        |               |       |  |  |  |  |  |  |
|-------------------------------|--------|---------------|-------|--|--|--|--|--|--|
| TRIP BLANK_59 (240-185141-1)  | 5/9/23 | Eastern       | Water |  |  |  |  |  |  |
| MW-167S_050923 (240-185141-2) | 5/9/23 | 13:41 Eastern | Water |  |  |  |  |  |  |

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/testis/mainx being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

**Possible Hazard Identification**  
 Return To Client    Disposal By Lab    Archive For \_\_\_\_\_ Months

**Special Instructions/QC Requirements:**

**Unconfirmed**

Deliverable Requested: I, II, III, IV, Other (specify) \_\_\_\_\_

Primary Deliverable Rank: 2

**Empty Kit Relinquished by:**

**Relinquished by:** *[Signature]*   Date: 5/23/23

**Relinquished by:** *[Signature]*   Date: 5/23/23

**Relinquished by:** *[Signature]*   Date: 5/23/23

**Relinquished by:** *[Signature]*   Date: 5/23/23

**Custody Seals Intact:**  Yes    No    No

Cooler Temperature(s) °C and Other Remarks: *IR 91K-115C*

## Login Sample Receipt Checklist

Client: ARCADIS US Inc

Job Number: 240-185141-1

**Login Number: 185141**

**List Number: 2**

**Creator: Armbruster, Chris**

**List Source: Eurofins Edison**

**List Creation: 05/12/23 03:15 PM**

| Question   | Answer | Comment |
|--|--------|---------|
| Radioactivity wasn't checked or is <=/ background as measured by a survey meter. | N/A    |         |
| The cooler's custody seal, if present, is intact.                                | N/A    |         |
| Sample custody seals, if present, are intact.                                    | N/A    |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.  | True   |         |
| Cooler Temperature is acceptable.  | True   |         |
| Cooler Temperature is recorded.  | True   |         |
| COC is present.  | True   |         |
| COC is filled out in ink and legible.  | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.   | True   |         |
| Containers are not broken or leaking.  | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.  | True   |         |
| Sample bottles are completely filled.  | True   |         |
| Sample Preservation Verified.  | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | True   |         |
| Multiphasic samples are not present.   | True   |         |
| Samples do not require splitting or compositing.                                 | True   |         |
| Residual Chlorine Checked.   | N/A    |         |



# DATA VERIFICATION REPORT



May 25, 2023

Kris Hinskey  
Arcadis Inc  
10559 Citation Ave  
Suite 100  
Brighton, MI 48116

CADENA project ID: E203631  
Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater  
Project number: 30167538.402.04 off-site  
Event Specific Scope of Work References: Sample COC  
Laboratory: Eurofins Environment Testing LLC - Cleveland  
Laboratory submittal: 185141-1  
Sample date: 2023-05-09  
Report received by CADENA: 2023-05-25  
Initial Data Verification completed by CADENA: 2023-05-25  
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.**

There were no significant QC anomalies or exceptions to report.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, LCS/LCD RPD, 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 Valid Qualifiers

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

# Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 185141-1

Sample Name: TRIP BLANK\_59 MW-167S\_050923  
 Lab Sample ID: 2401851411 2401851412  
 Sample Date: 5/9/2023 5/9/2023

| Analyte                  | Cas No.  | Report |       | Units | Valid<br>Qualifier | Report |       | Units | Valid<br>Qualifier |
|--------------------------|----------|--------|-------|-------|--------------------|--------|-------|-------|--------------------|
|                          |          | Result | Limit |       |                    | Result | Limit |       |                    |
| <b>GC/MS VOC</b>         |          |        |       |       |                    |        |       |       |                    |
| <u>OSW-8260D</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  | ---                |
| <u>OSW-8260DSIM</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 # 240-185141-1

CADENA Verification Report: 2023-05-25

Analyses Performed By:

Eurofins

North Canton, Ohio

Report # 49928R

Review Level: Tier III

Project: 30167538.402.02

## DATA REVIEW

### SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-185141-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

| Sample ID      | Lab ID       | Matrix | Sample Collection Date | Parent Sample | Analysis |         |
|----------------|--------------|--------|------------------------|---------------|----------|---------|
|                |              |        |                        |               | VOC      | VOC SIM |
| TRIP BLANK_59  | 240-185141-1 | Water  | 05/09/23               |               | X        |         |
| MW-167S_050923 | 240-185141-2 | Water  | 05/09/23               |               | X        | X       |

## DATA REVIEW

### ANALYTICAL DATA PACKAGE DOCUMENTATION

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

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

## DATA REVIEW

### ORGANIC ANALYSIS INTRODUCTION

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

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

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

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

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

## DATA REVIEW

### VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

#### 1. Holding Times

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

| Method                 | Matrix | Holding Time                        | Preservation                    |
|------------------------|--------|-------------------------------------|---------------------------------|
| SW-846 8260D/8260D-SIM | Water  | 14 days from collection to analysis | 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.

#### 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.

## **DATA REVIEW**

### **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 REVIEW

### DATA VALIDATION CHECKLIST FOR VOCs

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

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

## DATA REVIEW

VALIDATION PERFORMED BY: Dilip Kumar

SIGNATURE: 

DATE: June 16, 2023

PEER REVIEW: Andrew Korycinski

DATE: June 19, 2023



# **NO CORRECTIONS/QUALIFIERS ADDED TO SAMPLE ANALYSIS DATA SHEETS**



**CHAIN OF CUSTODY  
CORRECTED SAMPLE ANALYSIS DATA  
SHEETS**

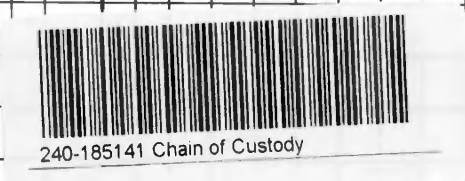


# Chain of Custody Record

TestAmerica Laboratory location: Brighton --- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

|                                       |                      |  |                   |  |           |   |   |                       |                      |                       |                   |                     |           |           |                      |                       |  |  |   |   |   |   |   |   |   |
|---------------------------------------|----------------------|--|-------------------|--|-----------|---|---|-----------------------|----------------------|-----------------------|-------------------|---------------------|-----------|-----------|----------------------|-----------------------|--|--|---|---|---|---|---|---|---|
| <b>Client Contact</b>                 |                      | <b>Regulatory program:</b> <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other |                   |  |           | TestAmerica Laboratories, Inc.  |   |                       |                      |                       |                   |                     |           |           |                      |                       |  |  |   |   |   |   |   |   |   |
| Company Name: Arcadis                 |                      | Client Project Manager: Kris Hinskey   |                   | Site Contact: Christina Weaver   |           | Lab Contact: Mike DelMonico   |   |                       |                      |                       |                   |                     |           |           |                      |                       |  |  |   |   |   |   |   |   |   |
| Address: 28550 Cabot Drive, Suite 500 |                      | Telephone: 248-994-2240  |                   | Telephone: 248-994-2240  |           | Telephone: 330-497-9396   |   |                       |                      |                       |                   |                     |           |           |                      |                       |  |  |   |   |   |   |   |   |   |
| City/State/Zip: Novi, MI, 48377       |                      | Email: kristoffer.hinskey@arcadis.com  |                   | <b>Analysis Turnaround Time</b>  |           | <b>Analyses</b>   |   |                       |                      |                       |                   |                     |           |           |                      |                       |  |  |   |   |   |   |   |   |   |
| Phone: 248-994-2240                   |                      | Sampler Name: <i>Lehcia Ferreira</i>   |                   | TAT if different from below:<br>10 day <input checked="" type="checkbox"/> 3 weeks<br><input type="checkbox"/> 2 weeks<br><input type="checkbox"/> 1 week<br><input type="checkbox"/> 2 days<br><input type="checkbox"/> 1 day |           | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Filtered Sample (Y/N)</td> <td>Composite=C / Grab=G</td> <td>1,1-DCE 8260B</td> <td>cis-1,2-DCE 8260B</td> <td>Trans-1,2-DCE 8260B</td> <td>PCE 8260B</td> <td>TCE 8260B</td> <td>Vinyl Chloride 8260B</td> <td>1,4-Dioxane 8260B SIM</td> </tr> <tr> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>Y</td> </tr> </table> |   | Filtered Sample (Y/N) | Composite=C / Grab=G | 1,1-DCE 8260B         | cis-1,2-DCE 8260B | Trans-1,2-DCE 8260B | PCE 8260B | TCE 8260B | Vinyl Chloride 8260B | 1,4-Dioxane 8260B SIM |  |  | X | X | X | X | X | X | Y |
| Filtered Sample (Y/N)                 | Composite=C / Grab=G | 1,1-DCE 8260B  | cis-1,2-DCE 8260B | Trans-1,2-DCE 8260B  | PCE 8260B |   |   | TCE 8260B             | Vinyl Chloride 8260B | 1,4-Dioxane 8260B SIM |                   |                     |           |           |                      |                       |  |  |   |   |   |   |   |   |   |
|                                       |                      | X  | X                 | X  | X         | X   | X | Y                     |                      |                       |                   |                     |           |           |                      |                       |  |  |   |   |   |   |   |   |   |
| Project Name: Ford LTP Off-Site       |                      | Method of Shipment/Carrier:  |                   | Shipping/Tracking No:  |           | COC No:   |   |                       |                      |                       |                   |                     |           |           |                      |                       |  |  |   |   |   |   |   |   |   |
| Project Number: 30167538.402.04       |                      |  |                   |  |           | 1 of 1 COCs   |   |                       |                      |                       |                   |                     |           |           |                      |                       |  |  |   |   |   |   |   |   |   |
| PO # 30167538.402.04                  |                      |  |                   |  |           | For lab use only  |   |                       |                      |                       |                   |                     |           |           |                      |                       |  |  |   |   |   |   |   |   |   |

| Sample Identification | Sample Date | Sample Time | Matrix |         |          |       |        | Containers & Preservatives |      |     |      |            |        |        | Filtered Sample (Y/N) | Composite=C / Grab=G | 1,1-DCE 8260B | cis-1,2-DCE 8260B | Trans-1,2-DCE 8260B | PCE 8260B | TCE 8260B | Vinyl Chloride 8260B | 1,4-Dioxane 8260B SIM | Sample Specific Notes / Special Instructions: |  |  |  |  |
|-----------------------|-------------|-------------|--------|---------|----------|-------|--------|----------------------------|------|-----|------|------------|--------|--------|-----------------------|----------------------|---------------|-------------------|---------------------|-----------|-----------|----------------------|-----------------------|---|--|--|--|--|
|                       |             |             | Air    | Aqueous | Sediment | Solid | Other: | H2SO4                      | HNO3 | HCl | NaOH | Zn Ac/NaOH | Unpres | Other: |                       |                      |               |                   |                     |           |           |                      |                       |   |  |  |  |  |
| TRIP BLANK_59         | 05/09/23    | ---         | 1      |         |          |       |        |                            |      |     |      |            |        |        | NG                    | X                    | X             | X                 | X                   | X         | X         |                      |                       |   |  |  | 1 Trip Blank                             |  |
| MW-1675_050923        | 05/09/23    | 1341        | 6      |         |          |       |        |                            |      |     |      |            |        |        | PG                    | X                    | X             | X                 | X                   | X         | X         | Y                    |                       |   |  |  | 3 VOAs for 8260B<br>3 VOAs for 8260B SIM |  |
|                       |             |             |        |         |          |       |        |                            |      |     |      |            |        |        |                       |                      |               |                   |                     |           |           |                      |                       |   |  |  |  |  |
|                       |             |             |        |         |          |       |        |                            |      |     |      |            |        |        |                       |                      |               |                   |                     |           |           |                      |                       |   |  |  |  |  |
|                       |             |             |        |         |          |       |        |                            |      |     |      |            |        |        |                       |                      |               |                   |                     |           |           |                      |                       |   |  |  |  |  |
|                       |             |             |        |         |          |       |        |                            |      |     |      |            |        |        |                       |                      |               |                   |                     |           |           |                      |                       |   |  |  |  |  |
|                       |             |             |        |         |          |       |        |                            |      |     |      |            |        |        |                       |                      |               |                   |                     |           |           |                      |                       |   |  |  |  |  |
|                       |             |             |        |         |          |       |        |                            |      |     |      |            |        |        |                       |                      |               |                   |                     |           |           |                      |                       |   |  |  |  |  |
|                       |             |             |        |         |          |       |        |                            |      |     |      |            |        |        |                       |                      |               |                   |                     |           |           |                      |                       |   |  |  |  |  |



|  |  |  |  |   |  |  |  |
|--|--|--|--|---|--|--|--|
| <b>Possible Hazard Identification</b><br><input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown |  |  |  | <b>Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)</b><br><input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months |  |  |  |
|--|--|--|--|---|--|--|--|

**Special Instructions/QC Requirements & Comments:**  
 Sample Address: 120 01 Stark Rd  
 Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631  
 Level IV Reporting requested.

|   |                  |                           |   |                  |                           |
|---|------------------|---------------------------|---|------------------|---------------------------|
| Relinquished by: <i>Lehcia Ferreira</i> | Company: Arcadis | Date/Time: 05/09/23 16:30 | Received by: <i>Novi Gold Storage</i>         | Company: Arcadis | Date/Time: 05/09/23 16:30 |
| Relinquished by: <i>[Signature]</i>     | Company: Arcadis | Date/Time: 5/10/23 / 1550 | Received by: <i>[Signature]</i>               | Company: EENA    | Date/Time: 5/10/23 / 1550 |
| Relinquished by: <i>[Signature]</i>     | Company: EENA    | Date/Time: 5/10/23        | Received in Laboratory by: <i>[Signature]</i> | Company: EETPC   | Date/Time: 5-11-23 800    |

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### Chain of Custody Record



| <b>Client Information (Sub Contract Lab)</b>        |   |             |               |                                 | Sampler:   |                    | Lab PM:<br>DelMonico, Michael  |  | Carrier Tracking No(s):      |  | COC No:<br>240-167972.1 |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|---|---|-------------|---------------|---------------------------------|--|--------------------|--|--|------------------------------|--|-------------------------|----------------------------|---|---|---|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|
| Client Contact:<br>Shipping/Receiving               |   |             |               |                                 | Phone:   |                    | E-Mail:<br>Michael.DelMonico@et.eurofinsus.com   |  | State of Origin:<br>Michigan |  | Page:<br>Page 1 of 1    |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| Company:<br>Eurofins Environment Testing Northeast, |   |             |               |                                 | Accreditations Required (See note):                          |                    |  |  |                              |  | Job #:<br>240-185141-1  |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| Address:<br>777 New Durham Road,                    |   |             |               |                                 | Due Date Requested:<br>5/24/2023                             |                    | <b>Analysis Requested</b><br><table border="1" style="width:100%; height:100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 20px;">A</th><th style="width: 20px;">B</th><th style="width: 20px;">C</th><th style="width: 20px;">D</th><th style="width: 20px;">E</th><th style="width: 20px;">F</th><th style="width: 20px;">G</th><th style="width: 20px;">H</th><th style="width: 20px;">I</th><th style="width: 20px;">J</th><th style="width: 20px;">K</th><th style="width: 20px;">L</th> </tr> </thead> <tbody> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table> |  |                              |  |                         |                            | A | B | C | D | E | F | G | H | I | J | K | L |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | Preservation Codes:<br>A - HCL                      M - Hexane<br>B - NaOH                    N - None<br>C - Zn Acetate            O - AsNaO2<br>D - Nitric Acid            P - Na2O4S<br>E - NaHSO4                Q - Na2SO3<br>F - MeOH                    R - Na2S2O3<br>G - Amchlor                S - H2SO4<br>H - Ascorbic Acid        T - TSP Dodecahydrate<br>I - Ice                            U - Acetone<br>J - DI Water                V - MCAA<br>K - EDTA                     W - pH 4-5<br>L - EDA                        Y - Trizma<br>Z - other (specify)<br>Other: |  |
| A   | B | C           | D             | E                               | F  | G                  |  |  |                              |  |                         |                            | H | I | J | K | L |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
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|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| City:<br>Edison                                     |   |             |               |                                 | TAT Requested (days):  |                    | Total Number of containers<br>(Yes or No)<br>8260D/5030C (MOD) VOCs (Short List)<br>8260D_SIM/5030C  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| State, Zip:<br>NJ, 08817                            |   |             |               |                                 | PO #:  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| Phone:<br>732-549-3900(Tel) 732-549-3679(Fax)       |   |             |               |                                 | WO #:  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| Email:  |   |             |               |                                 | Project #:<br>24015353                                       |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| Project Name:<br>Ford LTP - Off Site                |   |             |               |                                 | SSOW#:   |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| Site:   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| <b>Sample Identification - Client ID (Lab ID)</b>   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   | Sample Date | Sample Time   | Sample Type<br>(C=Comp, G=grab) | MATRIX<br>(W=water, S=solid, O=waste/soil, BT=Tissue, A=Air) | Preservation Code: |  |  |                              |  |                         | Special Instructions/Note: |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 | Water  |                    |  |  |                              |  |                         | 1                          |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| TRIP BLANK_59 (240-185141-1)                        |   | 5/9/23      | Eastern       |                                 | Water  |                    |  |  |                              |  |                         | 1                          |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
| MW-167S_050923 (240-185141-2)                       |   | 5/9/23      | 13:41 Eastern |                                 | Water  | X X                |  |  |                              |  |                         | 6                          |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |
|   |   |             |               |                                 |  |                    |  |  |                              |  |                         |                            |   |   |   |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

|  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|
| <b>Possible Hazard Identification</b>                  |  |  |  |  | <b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>   |  |  |  |  |  |  |
| Unconfirmed  |  |  |  |  | <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months |  |  |  |  |  |  |
| Deliverable Requested: I, II, III, IV, Other (specify) |  |  |  |  | Primary Deliverable Rank: 2  |  |  |  |  |  |  |
| Special Instructions/QC Requirements:                  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |                             |  |   |  |                              |  |                                  |  |          |  |
|--|--|-----------------------------|--|---|--|------------------------------|--|----------------------------------|--|----------|--|
| Empty Kit Relinquished by:   |  |                             |  | Date:   |  | Time:                        |  | Method of Shipment: <u>Fedex</u> |  |          |  |
| Relinquished by:   |  | Date/Time: <u>5/23 1710</u> |  | Company: <u>ETNL</u>  |  | Received by: <u>Bhenuish</u> |  | Date/Time: <u>5/23 10:30</u>     |  | Company: |  |
| Relinquished by:   |  | Date/Time:                  |  | Company:  |  | Received by:                 |  | Date/Time:                       |  | Company: |  |
| Relinquished by:   |  | Date/Time:                  |  | Company:  |  | Received by:                 |  | Date/Time:                       |  | Company: |  |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No |  | Custody Seal No.:           |  | Cooler Temperature(s) °C and Other Remarks: <u>IR 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1</u> |  |                              |  |                                  |  |          |  |

Page 20 of 21

5/21/2023



# Client Sample Results

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

Job ID: 240-185141-1

**Client Sample ID: TRIP BLANK\_59**

**Lab Sample ID: 240-185141-1**

Date Collected: 05/09/23 00:00

Matrix: Water

Date Received: 05/11/23 08:00

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

| Analyte                  | Result | Qualifier | RL  | MDL  | Unit | D | Prepared | Analyzed       | Dil Fac |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene       | 1.0    | U         | 1.0 | 0.49 | ug/L |   |          | 05/19/23 13:57 | 1       |
| cis-1,2-Dichloroethene   | 1.0    | U         | 1.0 | 0.46 | ug/L |   |          | 05/19/23 13:57 | 1       |
| Tetrachloroethene        | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/19/23 13:57 | 1       |
| trans-1,2-Dichloroethene | 1.0    | U         | 1.0 | 0.51 | ug/L |   |          | 05/19/23 13:57 | 1       |
| Trichloroethene          | 1.0    | U         | 1.0 | 0.44 | ug/L |   |          | 05/19/23 13:57 | 1       |
| Vinyl chloride           | 1.0    | U         | 1.0 | 0.45 | ug/L |   |          | 05/19/23 13:57 | 1       |

| Surrogate                    | %Recovery | Qualifier | Limits   | Prepared | Analyzed       | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 110       |           | 70 - 128 |          | 05/19/23 13:57 | 1       |
| Dibromofluoromethane (Surr)  | 120       |           | 77 - 124 |          | 05/19/23 13:57 | 1       |
| Toluene-d8 (Surr)            | 101       |           | 80 - 120 |          | 05/19/23 13:57 | 1       |
| 4-Bromofluorobenzene         | 99        |           | 76 - 120 |          | 05/19/23 13:57 | 1       |

# Client Sample Results

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

Job ID: 240-185141-1

**Client Sample ID: MW-167S\_050923**

**Lab Sample ID: 240-185141-2**

Date Collected: 05/09/23 13:41

Matrix: Water

Date Received: 05/11/23 08:00

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

| Analyte              | Result           | Qualifier        | RL            | MDL  | Unit | D | Prepared        | Analyzed        | Dil Fac        |
|----------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| 1,4-Dioxane          | 2.0              | U                | 2.0           | 0.86 | ug/L |   |                 | 05/18/23 16:16  | 1              |
| <b>Surrogate</b>     | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |      |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 4-Bromofluorobenzene | 96               |                  | 75 - 133      |      |      |   |                 | 05/18/23 16:16  | 1              |

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

| Analyte                      | Result           | Qualifier        | RL            | MDL  | Unit | D | Prepared        | Analyzed        | Dil Fac        |
|------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| 1,1-Dichloroethene           | 1.0              | U                | 1.0           | 0.49 | ug/L |   |                 | 05/19/23 16:03  | 1              |
| cis-1,2-Dichloroethene       | 1.0              | U                | 1.0           | 0.46 | ug/L |   |                 | 05/19/23 16:03  | 1              |
| Tetrachloroethene            | 1.0              | U                | 1.0           | 0.44 | ug/L |   |                 | 05/19/23 16:03  | 1              |
| trans-1,2-Dichloroethene     | 1.0              | U                | 1.0           | 0.51 | ug/L |   |                 | 05/19/23 16:03  | 1              |
| Trichloroethene              | 1.0              | U                | 1.0           | 0.44 | ug/L |   |                 | 05/19/23 16:03  | 1              |
| Vinyl chloride               | 1.0              | U                | 1.0           | 0.45 | ug/L |   |                 | 05/19/23 16:03  | 1              |
| <b>Surrogate</b>             | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |      |      |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 1,2-Dichloroethane-d4 (Surr) | 119              |                  | 70 - 128      |      |      |   |                 | 05/19/23 16:03  | 1              |
| Dibromofluoromethane (Surr)  | 124              |                  | 77 - 124      |      |      |   |                 | 05/19/23 16:03  | 1              |
| Toluene-d8 (Surr)            | 106              |                  | 80 - 120      |      |      |   |                 | 05/19/23 16:03  | 1              |
| 4-Bromofluorobenzene         | 105              |                  | 76 - 120      |      |      |   |                 | 05/19/23 16:03  | 1              |