

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
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North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-149874-1
Client Project/Site: Ford LTP Off-Site

For:
ARCADIS U.S., Inc.
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Attn: Kristoffer Hinskey



Authorized for release by:
6/7/2021 2:38:49 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.



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Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Off-Site

Job ID: 240-149874-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| U | Indicates the analyte was analyzed for but not detected. |

Glossary

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

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Off-Site

Job ID: 240-149874-1

Job ID: 240-149874-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative 240-149874-1

Comments

No additional comments.

Receipt

The samples were received on 5/21/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.1° C.

GC/MS VOA

Method 8260B: The continuing calibration verification (CCV) associated with batch 488142 recovered above the upper control limit for Vinyl Chloride. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The associated samples are impacted: MW-96S_051921 (240-149874-3), MW-77_051921 (240-149874-4) and MW-77S_051921 (240-149874-5).

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

VOA Prep

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

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Off-Site

Job ID: 240-149874-1

| Method | Method Description | Protocol | Laboratory |
|-----------|------------------------------------|----------|------------|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL CAN |
| 8260B SIM | Volatile Organic Compounds (GC/MS) | SW846 | TAL CAN |
| 5030B | Purge and Trap | SW846 | TAL CAN |

Protocol References:

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

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396



Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Off-Site

Job ID: 240-149874-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | Asset ID |
|---------------|------------------|--------|----------------|----------------|----------|
| 240-149874-1 | TRIP BLANK_114 | Water | 05/19/21 00:00 | 05/21/21 08:00 | |
| 240-149874-2 | MW-97S_051921 | Water | 05/19/21 12:06 | 05/21/21 08:00 | |
| 240-149874-3 | MW-96S_051921 | Water | 05/19/21 13:46 | 05/21/21 08:00 | |
| 240-149874-4 | MW-77_051921 | Water | 05/19/21 15:21 | 05/21/21 08:00 | |
| 240-149874-5 | MW-77S_051921 | Water | 05/19/21 16:21 | 05/21/21 08:00 | |

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

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Off-Site

Job ID: 240-149874-1

Client Sample ID: TRIP BLANK_114

Lab Sample ID: 240-149874-1

No Detections.

Client Sample ID: MW-97S_051921

Lab Sample ID: 240-149874-2

No Detections.

Client Sample ID: MW-96S_051921

Lab Sample ID: 240-149874-3

No Detections.

Client Sample ID: MW-77_051921

Lab Sample ID: 240-149874-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 0.48 | J | 1.0 | 0.16 | ug/L | 1 | | 8260B | Total/NA |

Client Sample ID: MW-77S_051921

Lab Sample ID: 240-149874-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Off-Site

Job ID: 240-149874-1

Client Sample ID: TRIP BLANK_114

Lab Sample ID: 240-149874-1

Date Collected: 05/19/21 00:00

Matrix: Water

Date Received: 05/21/21 08:00

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 05/29/21 17:48 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.16 | ug/L | | | 05/29/21 17:48 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.15 | ug/L | | | 05/29/21 17:48 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 05/29/21 17:48 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.10 | ug/L | | | 05/29/21 17:48 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.20 | ug/L | | | 05/29/21 17:48 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 75 - 130 | | 05/29/21 17:48 | 1 |
| 4-Bromofluorobenzene (Surr) | 99 | | 47 - 134 | | 05/29/21 17:48 | 1 |
| Toluene-d8 (Surr) | 104 | | 69 - 122 | | 05/29/21 17:48 | 1 |
| Dibromofluoromethane (Surr) | 112 | | 78 - 129 | | 05/29/21 17:48 | 1 |

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Off-Site

Job ID: 240-149874-1

Client Sample ID: MW-97S_051921

Lab Sample ID: 240-149874-2

Date Collected: 05/19/21 12:06

Matrix: Water

Date Received: 05/21/21 08:00

Method: 8260B 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 | | | 05/28/21 17:22 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 80 | | 70 - 133 | | | | | 05/28/21 17:22 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 05/29/21 18:34 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.16 | ug/L | | | 05/29/21 18:34 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.15 | ug/L | | | 05/29/21 18:34 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 05/29/21 18:34 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.10 | ug/L | | | 05/29/21 18:34 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.20 | ug/L | | | 05/29/21 18:34 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 75 - 130 | | | | | 05/29/21 18:34 | 1 |
| 4-Bromofluorobenzene (Surr) | 97 | | 47 - 134 | | | | | 05/29/21 18:34 | 1 |
| Toluene-d8 (Surr) | 105 | | 69 - 122 | | | | | 05/29/21 18:34 | 1 |
| Dibromofluoromethane (Surr) | 113 | | 78 - 129 | | | | | 05/29/21 18:34 | 1 |

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Off-Site

Job ID: 240-149874-1

Client Sample ID: MW-96S_051921

Lab Sample ID: 240-149874-3

Date Collected: 05/19/21 13:46

Matrix: Water

Date Received: 05/21/21 08:00

Method: 8260B 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 | | | 05/28/21 16:08 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 80 | | 70 - 133 | | 05/28/21 16:08 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 05/29/21 09:05 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.16 | ug/L | | | 05/29/21 09:05 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.15 | ug/L | | | 05/29/21 09:05 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 05/29/21 09:05 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.10 | ug/L | | | 05/29/21 09:05 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.20 | ug/L | | | 05/29/21 09:05 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 75 - 130 | | 05/29/21 09:05 | 1 |
| 4-Bromofluorobenzene (Surr) | 85 | | 47 - 134 | | 05/29/21 09:05 | 1 |
| Toluene-d8 (Surr) | 101 | | 69 - 122 | | 05/29/21 09:05 | 1 |
| Dibromofluoromethane (Surr) | 88 | | 78 - 129 | | 05/29/21 09:05 | 1 |

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Off-Site

Job ID: 240-149874-1

Client Sample ID: MW-77_051921

Lab Sample ID: 240-149874-4

Date Collected: 05/19/21 15:21

Matrix: Water

Date Received: 05/21/21 08:00

Method: 8260B 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 | | | 05/28/21 16:33 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 81 | | 70 - 133 | | | | | 05/28/21 16:33 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 05/29/21 09:27 | 1 |
| cis-1,2-Dichloroethene | 0.48 | J | 1.0 | 0.16 | ug/L | | | 05/29/21 09:27 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.15 | ug/L | | | 05/29/21 09:27 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 05/29/21 09:27 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.10 | ug/L | | | 05/29/21 09:27 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.20 | ug/L | | | 05/29/21 09:27 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 92 | | 75 - 130 | | | | | 05/29/21 09:27 | 1 |
| 4-Bromofluorobenzene (Surr) | 83 | | 47 - 134 | | | | | 05/29/21 09:27 | 1 |
| Toluene-d8 (Surr) | 96 | | 69 - 122 | | | | | 05/29/21 09:27 | 1 |
| Dibromofluoromethane (Surr) | 87 | | 78 - 129 | | | | | 05/29/21 09:27 | 1 |

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Off-Site

Job ID: 240-149874-1

Client Sample ID: MW-77S_051921

Lab Sample ID: 240-149874-5

Date Collected: 05/19/21 16:21

Matrix: Water

Date Received: 05/21/21 08:00

Method: 8260B 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 | | | 05/28/21 16:57 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 79 | | 70 - 133 | | | | | 05/28/21 16:57 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 05/29/21 09:50 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.16 | ug/L | | | 05/29/21 09:50 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.15 | ug/L | | | 05/29/21 09:50 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 05/29/21 09:50 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.10 | ug/L | | | 05/29/21 09:50 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.20 | ug/L | | | 05/29/21 09:50 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 92 | | 75 - 130 | | | | | 05/29/21 09:50 | 1 |
| 4-Bromofluorobenzene (Surr) | 82 | | 47 - 134 | | | | | 05/29/21 09:50 | 1 |
| Toluene-d8 (Surr) | 98 | | 69 - 122 | | | | | 05/29/21 09:50 | 1 |
| Dibromofluoromethane (Surr) | 85 | | 78 - 129 | | | | | 05/29/21 09:50 | 1 |

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Off-Site

Job ID: 240-149874-1

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | | |
|--------------------|------------------------|--|-----------------|-----------------|------------------|
| | | DCA (75-130) | BFB (47-134) | TOL (69-122) | DBFM (78-129) |
| 240-149852-C-2 MSD | Matrix Spike Duplicate | 89 | 84 | 95 | 87 |
| 240-149852-E-2 MS | Matrix Spike | 89 | 89 | 98 | 87 |
| 240-149874-1 | TRIP BLANK_114 | 104 | 99 | 104 | 112 |
| 240-149874-2 | MW-97S_051921 | 106 | 97 | 105 | 113 |
| 240-149874-2 MS | MW-97S-MS_051921 | 98 | 102 | 104 | 103 |
| 240-149874-2 MSD | MW-97S-MSD_051921 | 94 | 102 | 105 | 103 |
| 240-149874-3 | MW-96S_051921 | 95 | 85 | 101 | 88 |
| 240-149874-4 | MW-77_051921 | 92 | 83 | 96 | 87 |
| 240-149874-5 | MW-77S_051921 | 92 | 82 | 98 | 85 |
| LCS 240-488142/4 | Lab Control Sample | 88 | 89 | 99 | 88 |
| LCS 240-488191/5 | Lab Control Sample | 106 | 111 | 110 | 113 |
| MB 240-488142/6 | Method Blank | 91 | 82 | 97 | 89 |
| MB 240-488191/7 | Method Blank | 108 | 104 | 107 | 112 |

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) |
|------------------|--------------------|--|
| | | DCA (70-133) |
| 240-149874-2 | MW-97S_051921 | 80 |
| 240-149874-2 MS | MW-97S-MS_051921 | 83 |
| 240-149874-2 MSD | MW-97S-MSD_051921 | 84 |
| 240-149874-3 | MW-96S_051921 | 80 |
| 240-149874-4 | MW-77_051921 | 81 |
| 240-149874-5 | MW-77S_051921 | 79 |
| LCS 240-488100/4 | Lab Control Sample | 81 |
| MB 240-488100/5 | Method Blank | 83 |

Surrogate Legend

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

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Off-Site

Job ID: 240-149874-1

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

Lab Sample ID: MB 240-488142/6
Matrix: Water
Analysis Batch: 488142

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 | 0.19 | ug/L | | | 05/29/21 01:13 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.16 | ug/L | | | 05/29/21 01:13 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.15 | ug/L | | | 05/29/21 01:13 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 05/29/21 01:13 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.10 | ug/L | | | 05/29/21 01:13 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.20 | ug/L | | | 05/29/21 01:13 | 1 |

| Surrogate | MB MB | | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 91 | | 75 - 130 | | 05/29/21 01:13 | 1 |
| 4-Bromofluorobenzene (Surr) | 82 | | 47 - 134 | | 05/29/21 01:13 | 1 |
| Toluene-d8 (Surr) | 97 | | 69 - 122 | | 05/29/21 01:13 | 1 |
| Dibromofluoromethane (Surr) | 89 | | 78 - 129 | | 05/29/21 01:13 | 1 |

Lab Sample ID: LCS 240-488142/4
Matrix: Water
Analysis Batch: 488142

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 | 10.0 | 8.35 | | ug/L | | 84 | 73 - 129 |
| cis-1,2-Dichloroethene | 10.0 | 9.32 | | ug/L | | 93 | 75 - 124 |
| Tetrachloroethene | 10.0 | 8.34 | | ug/L | | 83 | 70 - 125 |
| trans-1,2-Dichloroethene | 10.0 | 8.87 | | ug/L | | 89 | 74 - 130 |
| Trichloroethene | 10.0 | 8.42 | | ug/L | | 84 | 71 - 121 |
| Vinyl chloride | 10.0 | 11.5 | | ug/L | | 115 | 61 - 134 |

| Surrogate | LCS LCS | | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 88 | | 75 - 130 |
| 4-Bromofluorobenzene (Surr) | 89 | | 47 - 134 |
| Toluene-d8 (Surr) | 99 | | 69 - 122 |
| Dibromofluoromethane (Surr) | 88 | | 78 - 129 |

Lab Sample ID: 240-149852-C-2 MSD
Matrix: Water
Analysis Batch: 488142

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

| Analyte | Sample Sample | | Spike Added | MSD MSD | | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------|---------------|-----------|-------------|---------|-----------|------|---|------|--------------|-----|-----------|
| | Result | Qualifier | | Result | Qualifier | | | | | | |
| 1,1-Dichloroethene | 1.0 | U | 10.0 | 8.30 | | ug/L | | 83 | 64 - 132 | 0 | 35 |
| cis-1,2-Dichloroethene | 1.0 | U | 10.0 | 9.01 | | ug/L | | 90 | 68 - 121 | 2 | 35 |
| Tetrachloroethene | 1.0 | U | 10.0 | 7.78 | | ug/L | | 78 | 52 - 129 | 3 | 35 |
| trans-1,2-Dichloroethene | 1.0 | U | 10.0 | 8.66 | | ug/L | | 87 | 69 - 126 | 3 | 35 |
| Trichloroethene | 1.0 | U | 10.0 | 7.55 | | ug/L | | 76 | 56 - 124 | 2 | 35 |
| Vinyl chloride | 1.0 | U | 10.0 | 10.5 | | ug/L | | 105 | 49 - 136 | 2 | 35 |

| Surrogate | MSD MSD | | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 89 | | 75 - 130 |
| 4-Bromofluorobenzene (Surr) | 84 | | 47 - 134 |
| Toluene-d8 (Surr) | 95 | | 69 - 122 |

Eurofins TestAmerica, Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Off-Site

Job ID: 240-149874-1

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

Lab Sample ID: 240-149852-C-2 MSD
Matrix: Water
Analysis Batch: 488142

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

| <i>Surrogate</i> | <i>%Recovery</i> | <i>MSD Qualifier</i> | <i>MSD Limits</i> |
|------------------------------------|------------------|--------------------------|-----------------------|
| <i>Dibromofluoromethane (Surr)</i> | 87 | | 78 - 129 |

Lab Sample ID: 240-149852-E-2 MS
Matrix: Water
Analysis Batch: 488142

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

| <i>Analyte</i> | <i>Sample Result</i> | <i>Sample Qualifier</i> | <i>Spike Added</i> | <i>MS Result</i> | <i>MS Qualifier</i> | <i>Unit</i> | <i>D</i> | <i>%Rec</i> | <i>%Rec. Limits</i> |
|--------------------------|--------------------------|-----------------------------|------------------------|----------------------|-------------------------|-------------|----------|-------------|-------------------------|
| 1,1-Dichloroethene | 1.0 | U | 10.0 | 8.30 | | ug/L | | 83 | 64 - 132 |
| cis-1,2-Dichloroethene | 1.0 | U | 10.0 | 8.79 | | ug/L | | 88 | 68 - 121 |
| Tetrachloroethene | 1.0 | U | 10.0 | 7.57 | | ug/L | | 76 | 52 - 129 |
| trans-1,2-Dichloroethene | 1.0 | U | 10.0 | 8.38 | | ug/L | | 84 | 69 - 126 |
| Trichloroethene | 1.0 | U | 10.0 | 7.73 | | ug/L | | 77 | 56 - 124 |
| Vinyl chloride | 1.0 | U | 10.0 | 10.3 | | ug/L | | 103 | 49 - 136 |

| <i>Surrogate</i> | <i>%Recovery</i> | <i>MS Qualifier</i> | <i>MS Limits</i> |
|-------------------------------------|------------------|-------------------------|----------------------|
| <i>1,2-Dichloroethane-d4 (Surr)</i> | 89 | | 75 - 130 |
| <i>4-Bromofluorobenzene (Surr)</i> | 89 | | 47 - 134 |
| <i>Toluene-d8 (Surr)</i> | 98 | | 69 - 122 |
| <i>Dibromofluoromethane (Surr)</i> | 87 | | 78 - 129 |

Lab Sample ID: MB 240-488191/7
Matrix: Water
Analysis Batch: 488191

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

| <i>Analyte</i> | <i>MB Result</i> | <i>MB Qualifier</i> | <i>RL</i> | <i>MDL</i> | <i>Unit</i> | <i>D</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|--------------------------|----------------------|-------------------------|-----------|------------|-------------|----------|-----------------|-----------------|----------------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 05/29/21 13:33 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.16 | ug/L | | | 05/29/21 13:33 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.15 | ug/L | | | 05/29/21 13:33 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 05/29/21 13:33 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.10 | ug/L | | | 05/29/21 13:33 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.20 | ug/L | | | 05/29/21 13:33 | 1 |

| <i>Surrogate</i> | <i>%Recovery</i> | <i>MB Qualifier</i> | <i>MB Limits</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|-------------------------------------|------------------|-------------------------|----------------------|-----------------|-----------------|----------------|
| <i>1,2-Dichloroethane-d4 (Surr)</i> | 108 | | 75 - 130 | | 05/29/21 13:33 | 1 |
| <i>4-Bromofluorobenzene (Surr)</i> | 104 | | 47 - 134 | | 05/29/21 13:33 | 1 |
| <i>Toluene-d8 (Surr)</i> | 107 | | 69 - 122 | | 05/29/21 13:33 | 1 |
| <i>Dibromofluoromethane (Surr)</i> | 112 | | 78 - 129 | | 05/29/21 13:33 | 1 |

Lab Sample ID: LCS 240-488191/5
Matrix: Water
Analysis Batch: 488191

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

| <i>Analyte</i> | <i>Spike Added</i> | <i>LCS Result</i> | <i>LCS Qualifier</i> | <i>Unit</i> | <i>D</i> | <i>%Rec</i> | <i>%Rec. Limits</i> |
|--------------------------|------------------------|-----------------------|--------------------------|-------------|----------|-------------|-------------------------|
| 1,1-Dichloroethene | 25.0 | 24.3 | | ug/L | | 97 | 73 - 129 |
| cis-1,2-Dichloroethene | 25.0 | 26.8 | | ug/L | | 107 | 75 - 124 |
| Tetrachloroethene | 25.0 | 28.2 | | ug/L | | 113 | 70 - 125 |
| trans-1,2-Dichloroethene | 25.0 | 26.7 | | ug/L | | 107 | 74 - 130 |
| Trichloroethene | 25.0 | 27.7 | | ug/L | | 111 | 71 - 121 |

Eurofins TestAmerica, Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Off-Site

Job ID: 240-149874-1

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

Lab Sample ID: LCS 240-488191/5
Matrix: Water
Analysis Batch: 488191

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------------|------------------|----------------------|---------------|------|---|------|--------------|
| Vinyl chloride | 25.0 | 29.4 | | ug/L | | 117 | 61 - 134 |
| Surrogate | | | | | | | |
| | %Recovery | LCS Qualifier | Limits | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 75 - 130 | | | | |
| 4-Bromofluorobenzene (Surr) | 111 | | 47 - 134 | | | | |
| Toluene-d8 (Surr) | 110 | | 69 - 122 | | | | |
| Dibromofluoromethane (Surr) | 113 | | 78 - 129 | | | | |

Lab Sample ID: 240-149874-2 MS
Matrix: Water
Analysis Batch: 488191

Client Sample ID: MW-97S-MS_051921
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------------|------------------|---------------------|---------------|-----------|--------------|------|---|------|--------------|
| 1,1-Dichloroethene | 1.0 | U | 25.0 | 20.9 | | ug/L | | 83 | 64 - 132 |
| cis-1,2-Dichloroethene | 1.0 | U | 25.0 | 23.3 | | ug/L | | 93 | 68 - 121 |
| Tetrachloroethene | 1.0 | U | 25.0 | 24.8 | | ug/L | | 99 | 52 - 129 |
| trans-1,2-Dichloroethene | 1.0 | U | 25.0 | 22.5 | | ug/L | | 90 | 69 - 126 |
| Trichloroethene | 1.0 | U | 25.0 | 23.7 | | ug/L | | 95 | 56 - 124 |
| Vinyl chloride | 1.0 | U | 25.0 | 25.2 | | ug/L | | 101 | 49 - 136 |
| Surrogate | | | | | | | | | |
| | %Recovery | MS Qualifier | Limits | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 75 - 130 | | | | | | |
| 4-Bromofluorobenzene (Surr) | 102 | | 47 - 134 | | | | | | |
| Toluene-d8 (Surr) | 104 | | 69 - 122 | | | | | | |
| Dibromofluoromethane (Surr) | 103 | | 78 - 129 | | | | | | |

Lab Sample ID: 240-149874-2 MSD
Matrix: Water
Analysis Batch: 488191

Client Sample ID: MW-97S-MSD_051921
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|------------------------------|------------------|----------------------|---------------|------------|---------------|------|---|------|--------------|-----|-----------|
| 1,1-Dichloroethene | 1.0 | U | 25.0 | 22.1 | | ug/L | | 89 | 64 - 132 | 6 | 35 |
| cis-1,2-Dichloroethene | 1.0 | U | 25.0 | 24.3 | | ug/L | | 97 | 68 - 121 | 4 | 35 |
| Tetrachloroethene | 1.0 | U | 25.0 | 26.4 | | ug/L | | 106 | 52 - 129 | 6 | 35 |
| trans-1,2-Dichloroethene | 1.0 | U | 25.0 | 23.6 | | ug/L | | 95 | 69 - 126 | 5 | 35 |
| Trichloroethene | 1.0 | U | 25.0 | 25.0 | | ug/L | | 100 | 56 - 124 | 5 | 35 |
| Vinyl chloride | 1.0 | U | 25.0 | 27.7 | | ug/L | | 111 | 49 - 136 | 10 | 35 |
| Surrogate | | | | | | | | | | | |
| | %Recovery | MSD Qualifier | Limits | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 75 - 130 | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 102 | | 47 - 134 | | | | | | | | |
| Toluene-d8 (Surr) | 105 | | 69 - 122 | | | | | | | | |
| Dibromofluoromethane (Surr) | 103 | | 78 - 129 | | | | | | | | |

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Off-Site

Job ID: 240-149874-1

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

Lab Sample ID: MB 240-488100/5
Matrix: Water
Analysis Batch: 488100

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 05/28/21 13:14 | 1 |
| Surrogate | MB %Recovery | MB Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 83 | | 70 - 133 | | | | | 05/28/21 13:14 | 1 |

Lab Sample ID: LCS 240-488100/4
Matrix: Water
Analysis Batch: 488100

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------------|---------------|---------------|---------------|------|---|------|--------------|
| 1,4-Dioxane | 10.0 | 9.05 | | ug/L | | 90 | 80 - 135 |
| Surrogate | LCS %Recovery | LCS Qualifier | Limits | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 81 | | 70 - 133 | | | | |

Lab Sample ID: 240-149874-2 MS
Matrix: Water
Analysis Batch: 488100

Client Sample ID: MW-97S-MS_051921
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| 1,4-Dioxane | 2.0 | U | 10.0 | 10.8 | | ug/L | | 108 | 46 - 170 |
| Surrogate | MS %Recovery | MS Qualifier | Limits | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 83 | | 70 - 133 | | | | | | |

Lab Sample ID: 240-149874-2 MSD
Matrix: Water
Analysis Batch: 488100

Client Sample ID: MW-97S-MSD_051921
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | Limit |
|------------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-------|
| 1,4-Dioxane | 2.0 | U | 10.0 | 10.8 | | ug/L | | 108 | 46 - 170 | 0 | 26 |
| Surrogate | MSD %Recovery | MSD Qualifier | Limits | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 84 | | 70 - 133 | | | | | | | | |

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Off-Site

Job ID: 240-149874-1

GC/MS VOA

Analysis Batch: 488100

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|-----------|------------|
| 240-149874-2 | MW-97S_051921 | Total/NA | Water | 8260B SIM | |
| 240-149874-3 | MW-96S_051921 | Total/NA | Water | 8260B SIM | |
| 240-149874-4 | MW-77_051921 | Total/NA | Water | 8260B SIM | |
| 240-149874-5 | MW-77S_051921 | Total/NA | Water | 8260B SIM | |
| MB 240-488100/5 | Method Blank | Total/NA | Water | 8260B SIM | |
| LCS 240-488100/4 | Lab Control Sample | Total/NA | Water | 8260B SIM | |
| 240-149874-2 MS | MW-97S-MS_051921 | Total/NA | Water | 8260B SIM | |
| 240-149874-2 MSD | MW-97S-MSD_051921 | Total/NA | Water | 8260B SIM | |

Analysis Batch: 488142

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 240-149874-3 | MW-96S_051921 | Total/NA | Water | 8260B | |
| 240-149874-4 | MW-77_051921 | Total/NA | Water | 8260B | |
| 240-149874-5 | MW-77S_051921 | Total/NA | Water | 8260B | |
| MB 240-488142/6 | Method Blank | Total/NA | Water | 8260B | |
| LCS 240-488142/4 | Lab Control Sample | Total/NA | Water | 8260B | |
| 240-149852-C-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260B | |
| 240-149852-E-2 MS | Matrix Spike | Total/NA | Water | 8260B | |

Analysis Batch: 488191

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 240-149874-1 | TRIP BLANK_114 | Total/NA | Water | 8260B | |
| 240-149874-2 | MW-97S_051921 | Total/NA | Water | 8260B | |
| MB 240-488191/7 | Method Blank | Total/NA | Water | 8260B | |
| LCS 240-488191/5 | Lab Control Sample | Total/NA | Water | 8260B | |
| 240-149874-2 MS | MW-97S-MS_051921 | Total/NA | Water | 8260B | |
| 240-149874-2 MSD | MW-97S-MSD_051921 | Total/NA | Water | 8260B | |

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Off-Site

Job ID: 240-149874-1

Client Sample ID: TRIP BLANK_114

Lab Sample ID: 240-149874-1

Date Collected: 05/19/21 00:00

Matrix: Water

Date Received: 05/21/21 08:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B | | 1 | 488191 | 05/29/21 17:48 | SAM | TAL CAN |

Client Sample ID: MW-97S_051921

Lab Sample ID: 240-149874-2

Date Collected: 05/19/21 12:06

Matrix: Water

Date Received: 05/21/21 08:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B | | 1 | 488191 | 05/29/21 18:34 | SAM | TAL CAN |
| Total/NA | Analysis | 8260B SIM | | 1 | 488100 | 05/28/21 17:22 | CS | TAL CAN |

Client Sample ID: MW-96S_051921

Lab Sample ID: 240-149874-3

Date Collected: 05/19/21 13:46

Matrix: Water

Date Received: 05/21/21 08:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B | | 1 | 488142 | 05/29/21 09:05 | LEE | TAL CAN |
| Total/NA | Analysis | 8260B SIM | | 1 | 488100 | 05/28/21 16:08 | CS | TAL CAN |

Client Sample ID: MW-77_051921

Lab Sample ID: 240-149874-4

Date Collected: 05/19/21 15:21

Matrix: Water

Date Received: 05/21/21 08:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B | | 1 | 488142 | 05/29/21 09:27 | LEE | TAL CAN |
| Total/NA | Analysis | 8260B SIM | | 1 | 488100 | 05/28/21 16:33 | CS | TAL CAN |

Client Sample ID: MW-77S_051921

Lab Sample ID: 240-149874-5

Date Collected: 05/19/21 16:21

Matrix: Water

Date Received: 05/21/21 08:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B | | 1 | 488142 | 05/29/21 09:50 | LEE | TAL CAN |
| Total/NA | Analysis | 8260B SIM | | 1 | 488100 | 05/28/21 16:57 | CS | TAL CAN |

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Off-Site

Job ID: 240-149874-1

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

| Authority | Program | Identification Number | Expiration Date |
|-----------------------|---------------------|-----------------------|-----------------|
| California | State | 2927 | 02-23-22 |
| Connecticut | State | PH-0590 | 12-31-21 |
| Florida | NELAP | E87225 | 06-30-21 |
| Georgia | State | 4062 | 02-23-22 |
| Illinois | NELAP | 200004 | 07-31-21 |
| Iowa | State | 421 | 06-01-21 |
| Kansas | NELAP | E-10336 | 04-30-21 * |
| Kentucky (UST) | State | 112225 | 02-23-22 |
| Kentucky (WW) | State | KY98016 | 12-31-21 |
| Minnesota | NELAP | OH00048 | 12-31-21 |
| Minnesota (Petrofund) | State | 3506 | 08-01-21 |
| New Jersey | NELAP | OH001 | 06-30-21 |
| New York | NELAP | 10975 | 03-31-22 |
| Ohio VAP | State | CL0024 | 12-21-23 |
| Oregon | NELAP | 4062 | 02-23-22 |
| Pennsylvania | NELAP | 68-00340 | 08-31-21 |
| Texas | NELAP | T104704517-18-10 | 08-31-21 |
| USDA | US Federal Programs | P330-18-00281 | 09-17-21 |
| Virginia | NELAP | 010101 | 09-14-21 |
| Washington | State | C971 | 01-12-22 |
| West Virginia DEP | State | 210 | 12-31-21 |

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



| | | | | | | | |
|---|--|--|--|---|--|---|--|
| Client Contact Company Name: Arcadis Address: 28550 Cabot Drive, Suite 500 City/State/Zip: Nov4, MI, 48377 Phone: 248-994-2240 Project Name: Ford LTP OTE-Site Project Number: 30080642-402.04 PO # 30080642-402.04 | | Client Project Manager: Kris Hinskey Telephone: 248-994-2240 Email: kristoff.hinskey@arcadis.com Sampler Name: Gary Schaber Method of Shipment/Carrier: Shipping/Tracking No: | | Site Contact: Julia McClafferty Telephone: 734-644-5131 Lab Contact: Mike DelMonico Telephone: 330-497-9396 | | TestAmerica Laboratories, Inc. COC No: 1 of 1 COCs For lab use only Walk-in client Lab sampling Job/SDG No: | |
| Sample Identification Sample Date Sample Time Trip Blank - 114 MW-975-051921 MW-975-MS-051921 MW-975-MSD-051921 MW-965-051921 MW-77-051921 MW-775-051921 | | Matrix Air Aqueous Sediment Solid Other: H2SO4 HNO3 HCl NaOH ZnO Unpres Other: Containers & Preservatives TAT if different from below: 10 day <input type="checkbox"/> 3 weeks <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day | | Analyses 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: 1 Trip Blank 3 VOAs for 8260B 3 VOAs for 8260B SIM RJA MS RJA MSD | |
| Sample Disposal (A fee may be assessed if samples are retained) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Arch | | Sample Disposal (A fee may be assessed if samples are retained) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Arch | | 240-149874 Chain of Custody | | Barcode | |
| Relinquished by: Gary Schaber Relinquished by: [Signature] Relinquished by: [Signature] | | Company: Arcadis Date/Time: 5/19/21 14:08 Company: Arcadis Date/Time: 5/20/21 8:47 Company: Arcadis Date/Time: 5/20/21 9:56 Company: ETA Date/Time: 5-21-21 8:00 | | Received by: [Signature] Date/Time: 5/20/21 8:47 Received by: [Signature] Date/Time: 5/20/21 9:56 Received in Laboratory by: [Signature] | | Company: Arcadis Date/Time: 5/20/21 8:47 Company: Arcadis Date/Time: 5/20/21 9:56 Company: ETA Date/Time: 5-21-21 8:00 | |



| | | |
|--|--|----------------------------------|
| Eurofins TestAmerica Canton Sample Receipt Form/Narrative | | Login # : <u>149874</u> |
| Canton Facility | | |
| Client <u>Arcaadis</u> | Site Name _____ | Cooler unpacked by: <u>COLMG</u> |
| Cooler Received on <u>5-21-21</u> | Opened on <u>5-21-21</u> | |
| FedEx: 1 st Grd Exp <u>UPS FAS Clipper</u> | Client Drop Off <u>TestAmerica Courier</u> | Other _____ |
| Receipt After-hours: Drop-off Date/Time | | Storage Location |
| TestAmerica Cooler # <u>7A</u> | Foam Box _____ | Client Cooler _____ |
| Packing material used: <u>Bubble Wrap</u> | Foam _____ | Plastic Bag _____ |
| COOLANT: <u>Wet Ice</u> | Blue Ice _____ | Dry Ice _____ |
| Water _____ | None _____ | Other _____ |
| 1. Cooler temperature upon receipt <input type="checkbox"/> See Multiple Cooler Form IR GUN# IR-11 (CF +0.1 °C) Observed Cooler Temp. <u>1.0</u> °C Corrected Cooler Temp. <u>1.1</u> °C IR GUN #IR-12 (CF +0.2°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C | | |
| 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes <input checked="" type="radio"/> No <input checked="" type="radio"/> -Were the seals on the outside of the cooler(s) signed & dated? Yes <input checked="" type="radio"/> No <input checked="" type="radio"/> NA <input checked="" type="radio"/> -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes <input checked="" type="radio"/> No <input checked="" type="radio"/> -Were tamper/custody seals intact and uncompromised? Yes <input checked="" type="radio"/> No <input checked="" type="radio"/> NA <input checked="" type="radio"/> | | |
| 3. Shippers' packing slip attached to the cooler(s)? Yes <input checked="" type="radio"/> No <input checked="" type="radio"/> 4. Did custody papers accompany the sample(s)? Yes <input checked="" type="radio"/> No <input checked="" type="radio"/> 5. Were the custody papers relinquished & signed in the appropriate place? Yes <input checked="" type="radio"/> No <input checked="" type="radio"/> 6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes <input checked="" type="radio"/> No <input checked="" type="radio"/> 7. Did all bottles arrive in good condition (Unbroken)? Yes <input checked="" type="radio"/> No <input checked="" type="radio"/> 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes <input checked="" type="radio"/> No <input checked="" type="radio"/> 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes <input checked="" type="radio"/> No <input checked="" type="radio"/> 10. Were correct bottle(s) used for the test(s) indicated? Yes <input checked="" type="radio"/> No <input checked="" type="radio"/> 11. Sufficient quantity received to perform indicated analyses? Yes <input checked="" type="radio"/> No <input checked="" type="radio"/> 12. Are these work share samples and all listed on the COC? Yes <input checked="" type="radio"/> No <input checked="" type="radio"/> 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 <input checked="" type="radio"/> No <input checked="" type="radio"/> NA <input checked="" type="radio"/> pH Strip Lot# <u>HC022887</u> 14. Were VOAs on the COC? Yes <input checked="" type="radio"/> No <input checked="" type="radio"/> 15. Were air bubbles >6 mm in any VOA vials? <input checked="" type="radio"/> Larger than this. Yes <input checked="" type="radio"/> No <input checked="" type="radio"/> NA <input checked="" type="radio"/> 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # <u>NA</u> Yes <input checked="" type="radio"/> No <input checked="" type="radio"/> 17. Was a LL Hg or Me Hg trip blank present? Yes <input checked="" type="radio"/> No <input checked="" type="radio"/> | | |
| Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____ Concerning _____ | | |

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

| | |
|--|-----------------------------|
| 18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES <input type="checkbox"/> additional next page | Samples processed by: _____ |
| _____ _____ _____ | |

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

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