🔅 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Canton 180 S. Van Buren Avenue Barberton, OH 44203 Tel: (330)497-9396

Laboratory Job ID: 240-166479-1

Client Project/Site: Ford LTP - Off Site

For:

..... Links

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EOL

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Ask-The Expert ARCADIS U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Attn: Kristoffer Hinskey

Mole Del your

signature.

Authorized for release by: 5/26/2022 10:52:13 AM

Michael DelMonico, Project Manager I (330)497-9396 Michael.DelMonico@et.eurofinsus.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten

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

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Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Qualifiers

TEQ

TNTC

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

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Job ID: 240-166479-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-166479-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 5/12/2022 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 4.0° C and 4.0° C.

GC/MS VOA

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

VOA Prep

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

Job ID: 240-166479-1

Method Summary

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

| Method | Method Description | Protocol | Laboratory |
|-----------|-------------------------------------|----------|------------|
| 8260D | Volatile Organic Compounds by GC/MS | SW846 | TAL CAN |
| 8260D SIM | Volatile Organic Compounds (GC/MS) | SW846 | TAL CAN |
| 5030C | 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 Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 240-166479-1 | TRIP BLANK_98 | Water | 05/10/22 00:00 | 05/12/22 08:00 |
| 240-166479-2 | MW-90S_051022 | Water | 05/10/22 14:20 | 05/12/22 08:00 |

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| Detection Sur | nmary |
|----------------------|-------|
|----------------------|-------|

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

Client Sample ID: TRIP BLANK_98

No Detections.

Client Sample ID: MW-90S_051022

No Detections.

Lab Sample ID: 240-166479-1

Lab Sample ID: 240-166479-2

This Detection Summary does not include radiochemical test results.

Eurofins Canton

Client Sample ID: TRIP BLANK_98 Date Collected: 05/10/22 00:00 Date Received: 05/12/22 08:00

| .lob | ıח | 240-1 | 66479-1 |
|------|-----|-------|---------|
| 000 | ıD. | 270-1 | 00-10-1 |

Lab Sample ID: 240-166479-1

Matrix: Water

5 6

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 05/20/22 12:48 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 05/20/22 12:48 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/20/22 12:48 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 05/20/22 12:48 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/20/22 12:48 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 05/20/22 12:48 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 62 - 137 | | | - | | 05/20/22 12:48 | 1 |
| 4-Bromofluorobenzene (Surr) | 104 | | 56 - 136 | | | | | 05/20/22 12:48 | 1 |
| Toluene-d8 (Surr) | 105 | | 78 - 122 | | | | | 05/20/22 12:48 | 1 |
| Dibromofluoromethane (Surr) | 110 | | 73 - 120 | | | | | 05/20/22 12:48 | 1 |

66 - 120

1,2-Dichloroethane-d4 (Surr)

Client Sample ID: MW-90S_051022 Date Collected: 05/10/22 14:20 Date Received: 05/12/22 08:00

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | | |
|-------------|-----------|-----------|--------|------|------|---|----------|----------------|--|--|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 05/17/22 02:26 | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | | |

Mathad: 8260D Valatila Organia Compounds by CC/MS

104

| Method: 8260D - Volatile Or | gaine eenpe | | 0/11/0 | | | | | | | |
|------------------------------|-------------|-----------|----------|------|------|---|----------|----------------|---------|---|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | 8 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 05/20/22 15:10 | 1 | |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 05/20/22 15:10 | 1 | 9 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/20/22 15:10 | 1 | |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 05/20/22 15:10 | 1 | |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/20/22 15:10 | 1 | |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 05/20/22 15:10 | 1 | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac | |
| 1,2-Dichloroethane-d4 (Surr) | | | 62 - 137 | | | - | | 05/20/22 15:10 | 1 | |
| 4-Bromofluorobenzene (Surr) | 109 | | 56 - 136 | | | | | 05/20/22 15:10 | 1 | |
| Toluene-d8 (Surr) | 108 | | 78 - 122 | | | | | 05/20/22 15:10 | 1 | |
| Dibromofluoromethane (Surr) | 112 | | 73 - 120 | | | | | 05/20/22 15:10 | 1 | |

Lab Sample ID: 240-166479-2 Matrix: Water

05/17/22 02:26

Dil Fac

Dil Fac

1

1

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Surrogate Summary

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

Percent Surrogate Recovery (Acceptance Limits) DCA BFB DBFM TOL (62-137) (73-120) Lab Sample ID **Client Sample ID** (56-136) (78-122) 240-166395-F-18 MS Matrix Spike 100 96 106 108 240-166395-I-18 MSD Matrix Spike Duplicate 95 98 101 105 240-166479-1 TRIP BLANK 98 105 104 105 110 240-166479-2 MW-90S 051022 110 109 108 112 LCS 240-527288/5 Lab Control Sample 94 106 110 103 MB 240-527288/7 Method Blank 107 108 108 113 Surrogate Legend DCA = 1,2-Dichloroethane-d4 (Surr) BFB = 4-Bromofluorobenzene (Surr) TOL = Toluene-d8 (Surr) DBFM = Dibromofluoromethane (Surr) Method: 8260D SIM - Volatile Organic Compounds (GC/MS) Matrix: Water Prep Type: Total/NA

| | | | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|------------------------|----------|--|--|
| | | DCA | | |
| Lab Sample ID | Client Sample ID | (66-120) | | |
| 240-166472-H-2 MS | Matrix Spike | 104 | | |
| 240-166472-N-2 MSD | Matrix Spike Duplicate | 105 | | |
| 240-166479-2 | MW-90S_051022 | 104 | | |
| LCS 240-526643/3 | Lab Control Sample | 103 | | |
| MB 240-526643/4 | Method Blank | 101 | | |
| Surrogate Legend | | | | |

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

9

Prep Type: Total/NA

Client Sample ID: Method Blank

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

Lab Sample ID: MB 240-527288/7 Matrix: Water

Analysis Batch: 527288

| ME | MB | | | | | | | |
|------------------------------|-----------|-----|------|------|---|----------|----------------|---------|
| Analyte Resul | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene1.0 | 0 U | 1.0 | 0.49 | ug/L | | | 05/20/22 11:36 | 1 |
| cis-1,2-Dichloroethene 1.0 | U | 1.0 | 0.46 | ug/L | | | 05/20/22 11:36 | 1 |
| Tetrachloroethene 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/20/22 11:36 | 1 |
| trans-1,2-Dichloroethene 1.0 |) U | 1.0 | 0.51 | ug/L | | | 05/20/22 11:36 | 1 |
| Trichloroethene 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/20/22 11:36 | 1 |
| Vinyl chloride 1.0 |) U | 1.0 | 0.45 | ug/L | | | 05/20/22 11:36 | 1 |

| | MB | МВ | | | | |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 62 - 137 | | 05/20/22 11:36 | 1 |
| 4-Bromofluorobenzene (Surr) | 108 | | 56 - 136 | | 05/20/22 11:36 | 1 |
| Toluene-d8 (Surr) | 108 | | 78 - 122 | | 05/20/22 11:36 | 1 |
| Dibromofluoromethane (Surr) | 113 | | 73 - 120 | | 05/20/22 11:36 | 1 |

Lab Sample ID: LCS 240-527288/5 Matrix: Water Analysis Batch: 527288

| | Spike | LCS | LCS | | | | %Rec | |
|--------------------------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,1-Dichloroethene | 25.0 | 26.0 | | ug/L | | 104 | 63 - 134 | |
| cis-1,2-Dichloroethene | 25.0 | 24.8 | | ug/L | | 99 | 77 - 123 | |
| Tetrachloroethene | 25.0 | 26.9 | | ug/L | | 107 | 76 - 123 | |
| trans-1,2-Dichloroethene | 25.0 | 25.1 | | ug/L | | 101 | 75 - 124 | |
| Trichloroethene | 25.0 | 25.6 | | ug/L | | 102 | 70 - 122 | |
| Vinyl chloride | 25.0 | 24.6 | | ug/L | | 98 | 60 - 144 | |

| | LCS LCS | | | | | | | | | |
|------------------------------|-----------|-----------|----------|--|--|--|--|--|--|--|
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 62 - 137 | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 106 | | 56 - 136 | | | | | | | |
| Toluene-d8 (Surr) | 110 | | 78 - 122 | | | | | | | |
| Dibromofluoromethane (Surr) | 103 | | 73 - 120 | | | | | | | |

Lab Sample ID: 240-166395-F-18 MS Matrix: Water Analysis Batch: 527288

| | Sample | Sample | Spike | MS | MS | | | | %Rec |
|------------------------------|-----------|-----------|----------|--------|-----------|------|---|------|----------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| 1,1-Dichloroethene | 6.1 | | 25.0 | 28.4 | | ug/L | | 89 | 56 - 135 |
| cis-1,2-Dichloroethene | 1.4 | | 25.0 | 23.6 | | ug/L | | 89 | 66 - 128 |
| Tetrachloroethene | 4.8 | | 25.0 | 28.4 | | ug/L | | 94 | 62 - 131 |
| trans-1,2-Dichloroethene | 0.91 | J | 25.0 | 23.3 | | ug/L | | 90 | 56 - 136 |
| Trichloroethene | 1.3 | | 25.0 | 24.6 | | ug/L | | 93 | 61 - 124 |
| Vinyl chloride | 3.0 | | 25.0 | 25.9 | | ug/L | | 91 | 43 - 157 |
| | MS | MS | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 62 - 137 | | | | | | |

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 96 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 106 | | 56 - 136 |
| Toluene-d8 (Surr) | 108 | | 78 - 122 |

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

Client Sample ID: Matrix Spike

Prep Type: Total/NA

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QC Sample Results

Job ID: 240-166479-1

5 6

10

12 13

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

| Lab Sample ID: 240-16639 Matrix: Water | | | | | | | | | | 01 | Sin Oa | mple ID: Prep Ty | | |
|---|---|--|---|---|--|-----------------------------|--------------|--------------|----------|----------------------|---|--|--|---|
| Analysis Batch: 527288 | | | | | | | | | | | | | - | |
| | MS | MS | | | | | | | | | | | | |
| Surrogate | %Recovery | Qua | lifier | Limits | | | | | | | | | | |
| Dibromofluoromethane (Surr) | 100 | | | 73 - 120 | | | | | | | | | | |
| Lab Sample ID: 240-1663 Matrix: Water | 95-I-18 MSD | | | | | | | Clien | t Sa | mpl | le ID: N | latrix Spi Prep Ty | | |
| Analysis Batch: 527288 | | | | | | | | | | | | | | |
| | Sample | | • | Spike | |) MSI | | | | | | %Rec | | RP |
| Analyte | Result | Qua | lifier | Added | Resul | | alifier | Unit | | D | %Rec | Limits | RPD | Lim |
| 1,1-Dichloroethene | 6.1 | | | 25.0 | 27.5 | | | ug/L | | | 86 | 56 - 135 | 3 | 2 |
| cis-1,2-Dichloroethene | 1.4 | | | 25.0 | 23.3 | | | ug/L | | | 88 | 66 - 128 | 1 | 1 |
| Tetrachloroethene | 4.8 | | | 25.0 | 26.6 | 3 | | ug/L | | | 87 | 62 - 131 | 6 | |
| rans-1,2-Dichloroethene | 0.91 | J | | 25.0 | 22.7 | 7 | | ug/L | | | 87 | 56 - 136 | 3 | 1 |
| Frichloroethene | 1.3 | | | 25.0 | 24.1 | | | ug/L | | | 91 | 61 - 124 | 2 | 1 |
| /inyl chloride | 3.0 | | | 25.0 | 25.1 | I | | ug/L | | | 88 | 43 - 157 | 3 | 2 |
| | MSD | MSL | 2 | | | | | | | | | | | |
| Surrogate | %Recovery | | | Limits | | | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 95 | | | 62 - 137 | | | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 101 | | | 56 - 136 | | | | | | | | | | |
| Toluene-d8 (Surr) | 105 | | | 78 - 122 | | | | | | | | | | |
| | 98 | | | 73 - 120 | | | | | | | | | | |
| Dibromofluoromethane (Surr) lethod: 8260D SIM - V Lab Sample ID: MB 240-5 Matrix: Water | | yan | ic Corr | pound | s (GC/M | S) | | | (| Clie | nt Sam | iple ID: M Prep Tv | | |
| lethod: 8260D SIM - V | | | | pound | s (GC/M | S) | | | (| Clie | nt Sam | iple ID: M Prep Ty | | |
| lethod: 8260D SIM - V Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 526643 | 26643/4 | мв | МВ | pound | | | Unit | | | | | Prep Ty | pe: To | tal/N |
| lethod: 8260D SIM - V Lab Sample ID: MB 240-5 Matrix: Water | 26643/4 | MB sult | MB Qualifier | ipound: | RL 2.0 | MDL | Unit ug/L | | D | | nt Sam | - | pe: To | tal/N Dil Fa |
| lethod: 8260D SIM - V Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 526643 Analyte | 26643/4 | MB sult 2.0 | MB Qualifier U | ipound: | RL | MDL | Unit ug/L | | | | | Prep Ty Analy | pe: To | tal/N Dil Fa |
| lethod: 8260D SIM - V Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 526643 Analyte 1,4-Dioxane | 26643/4 | MB sult 2.0 MB | MB Qualifier U MB | | RL | MDL | | | | Pr | epared | Prep Ty | zed 20:12 | tal/N Dil Fa |
| lethod: 8260D SIM - V Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 526643 Analyte 1,4-Dioxane Surrogate | 26643/4 Re | MB sult 2.0 MB very | MB Qualifier U | | RL 2.0 | MDL | | | | Pr | | Prep Ty <u>Analy</u> 05/16/22 <u>Analy</u> | zed 20:12 zed | tal/N Dil Fa |
| lethod: 8260D SIM - V Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 526643 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) | 26643/4 Re % <i>R</i> ecov | MB sult 2.0 MB | MB Qualifier U MB | | RL 2.0 | MDL | | | <u>D</u> | Pr Pr | repared repared | Prep Ty | zed 20:12 zed 20:12 | tal/N Dil Fa Dil Fa |
| lethod: 8260D SIM - V Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 526643 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-4 Matrix: Water | 26643/4 Re % <i>R</i> ecov | MB sult 2.0 MB very | MB Qualifier U MB | | RL 2.0 | MDL | | Cli | <u>D</u> | Pr Pr | repared repared | Prep Ty <u>Analy</u> 05/16/22 <u>Analy</u> | zed 20:12 zed 20:12 | tal/N Dil Fa Dil Fa |
| lethod: 8260D SIM - V Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 526643 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-4 | 26643/4 Re % <i>R</i> ecov | MB sult 2.0 MB very | MB Qualifier U MB | | RL | MDL | ug/L | Cli | <u>D</u> | Pr Pr | repared repared | Prep Ty | zed 20:12 zed 20:12 | tal/N Dil Fa Dil Fa ampl |
| lethod: 8260D SIM - V Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 526643 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-4 Matrix: Water | 26643/4 Re % <i>R</i> ecov | MB sult 2.0 MB very | MB Qualifier U MB | | RL | MDL 0.86 | ug/L | Cli | <u>D</u> | Pr Pr | repared repared | Prep Ty | zed 20:12 zed 20:12 | tal/N Dil Fa Dil Fa ampl |
| lethod: 8260D SIM - V Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 526643 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-4 Matrix: Water Analysis Batch: 526643 | 26643/4 Re % <i>R</i> ecov | MB sult 2.0 MB very | MB Qualifier U MB | | RL 2.0 20 | MDL 0.86 | ug/L | | <u>D</u> | Pr Pr San | epared repared nple ID | Prep Ty | zed 20:12 zed 20:12 | tal/N/ Dil Fa Dil Fa |
| lethod: 8260D SIM - V Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 526643 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-4 Matrix: Water Analysis Batch: 526643 Analyte | 26643/4 Re % <i>R</i> ecov | MB sult 2.0 MB very 101 | MB Qualifier U MB Qualifier | | RL 2.0 20 LCS Result | MDL 0.86 | ug/L | Unit | <u>D</u> | Pr Pr San | repared repared nple ID %Rec | Prep Ty Analy: 05/16/22 Analy: 05/16/22 Lab Cor Prep Ty %Rec Limits | zed 20:12 zed 20:12 | tal/N/ Dil Fa Dil Fa |
| lethod: 8260D SIM - V Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 526643 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-4 Matrix: Water Analysis Batch: 526643 Analyte | 26643/4 | MB sult 2.0 MB rery 101 | MB Qualifier U MB Qualifier | | RL 2.0 20 LCS Result | MDL 0.86 | ug/L | Unit | <u>D</u> | Pr Pr San | repared repared nple ID %Rec | Prep Ty Analy: 05/16/22 Analy: 05/16/22 Lab Cor Prep Ty %Rec Limits | zed 20:12 zed 20:12 | tal/N/ Dil Fa Dil Fa |
| lethod: 8260D SIM - V Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 526643 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-4 Matrix: Water Analysis Batch: 526643 Analyte 1,4-Dioxane | 26643/4 | MB sult 2.0 MB rery 101 | MB Qualifier U MB Qualifier | | RL 2.0 20 LCS Result | MDL 0.86 | ug/L | Unit | <u>D</u> | Pr Pr San | repared repared nple ID %Rec | Prep Ty Analy: 05/16/22 Analy: 05/16/22 Lab Cor Prep Ty %Rec Limits | zed 20:12 zed 20:12 | tal/N/ Dil Fa Dil Fa |
| lethod: 8260D SIM - V Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 526643 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-4 Matrix: Water Analysis Batch: 526643 Analyte 1,4-Dioxane Surrogate | 26643/4 Re %Recov 526643/3 LCS %Recovery | MB sult 2.0 MB rery 101 | MB Qualifier U MB Qualifier | Limit Spike Added 10.0 Limits | RL 2.0 20 LCS Result | MDL 0.86 | ug/L | Unit | <u>D</u> | Pr Pr San | repared nple ID <u>%Rec</u> 94 | Prep Ty Analy: 05/16/22 Analy: 05/16/22 Lab Cor Prep Ty %Rec Limits | pe: To zed 20:12 20:12 htrol S pe: To Matrix | tal/N/ Dil Fa Dil Fa ampl tal/N/ |
| lethod: 8260D SIM - V Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 526643 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-4 Matrix: Water Analysis Batch: 526643 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-1664 | 26643/4 | MB sult 2.0 MB very 101 | MB Qualifier U MB Qualifier | | RL 2.0 ts 20 LCS Result 9.43 | MDL 0.86 | ug/L | Unit | <u>D</u> | Pr Pr San | repared nple ID <u>%Rec</u> 94 | Prep Ty Analy: 05/16/22 Analy: 05/16/22 Lab Cor Prep Ty %Rec Limits 80 - 122 mple ID: Prep Ty | pe: To zed 20:12 20:12 htrol S pe: To Matrix | tal/N/ Dil Fa Dil Fa ampletal/N/ |
| lethod: 8260D SIM - V Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 526643 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-4 Matrix: Water Analysis Batch: 526643 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-1664 Matrix: Water Analysis Batch: 526643 | 26643/4 | MB sult 2.0 MB /ery 101 LCS Qua | MB Qualifier U MB Qualifier | | RL 2.0 ts 20 LCS Result 9.43 | MDL 0.86 LCS t Qua | alifier | Unit ug/L | <u>D</u> | Pr Pr San D | repared nple ID <u>%Rec</u> 94 | Prep Ty Analy: 05/16/22 Analy: 05/16/22 Lab Cor Prep Ty %Rec Limits 80 - 122 mple ID: Prep Ty %Rec | pe: To zed 20:12 20:12 htrol S pe: To Matrix | tal/N/ Dil Fa Dil Fa ampletal/N/ |
| ethod: 8260D SIM - V Lab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 526643 Analyte 1,4-Dioxane Surrogate 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: LCS 240-4 Matrix: Water Analysis Batch: 526643 Analyte 1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-1664 Matrix: Water Analysis Batch: 526643 Matrix: Water Analysis Batch: 526643 Analyte | 26643/4 | MB sult 2.0 MB very 101 LCS Qua Sam Qua | MB Qualifier U MB Qualifier | | RL 2.0 ts 20 LCS Result 9.43 MS Result | MDL 0.86 LCS t Qua | alifier | Unit ug/L | <u>D</u> | Pr Pr San D | repared nple ID %Rec 94 | Prep Ty Analy: 05/16/22 Analy: 05/16/22 Lab Cor Prep Ty %Rec Limits 80 - 122 mple ID: Prep Ty %Rec Limits | pe: To zed 20:12 20:12 htrol S pe: To Matrix | tal/N/ Dil Fa Dil Fa ample tal/N/ |
| ethod: 8260D SIM - V ab Sample ID: MB 240-5 Matrix: Water Analysis Batch: 526643 analyte A-Dioxane <i>Surrogate</i> <i>2-Dichloroethane-d4 (Surr)</i> ab Sample ID: LCS 240-4 Matrix: Water Analysis Batch: 526643 analyte <i>A</i> -Dioxane <i>Surrogate</i> <i>2-Dichloroethane-d4 (Surr)</i> ab Sample ID: 240-16643 Matrix: Water Analysis Batch: 526643 | 26643/4 | MB sult 2.0 MB very 101 LCS Qua Sam Qua | MB Qualifier U MB Qualifier | | RL 2.0 ts 20 LCS Result 9.43 | MDL 0.86 LCS t Qua | alifier | Unit ug/L | <u>D</u> | Pr Pr San D | repared nple ID <u>%Rec</u> 94 | Prep Ty Analy: 05/16/22 Analy: 05/16/22 Lab Cor Prep Ty %Rec Limits 80 - 122 mple ID: Prep Ty %Rec | pe: To zed 20:12 20:12 htrol S pe: To Matrix | tal/N/ Dil Fa Dil Fa ample tal/N/ |

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

| | MS | MS | | | | | | | | | | |
|------------------------------|------------|-----------|----------|--------|-----------|--------|------|------|------------|--------|--------|---|
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 66 - 120 | | | | | | | | | |
| Lab Sample ID: 240-1664 | 72-N-2 MSD | | | | | Client | Samn | | latrix Spi | ke Dun | licate | |
| Matrix: Water | | | | | | Unorth | oump | | Prep Ty | | | |
| Analysis Batch: 526643 | | | | | | | | | | | | |
| - | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD | |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit | - |
| 1,4-Dioxane | 2.0 | U | 10.0 | 10.0 | | ug/L | | 100 | 51 - 153 | 5 | 16 | |
| | MSD | MSD | | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 66 - 120 | | | | | | | | | |

QC Association Summary

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

GC/MS VOA

Analysis Batch: 526643

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 240-166479-2 | MW-90S_051022 | Total/NA | Water | 8260D SIM | |
| MB 240-526643/4 | Method Blank | Total/NA | Water | 8260D SIM | |
| LCS 240-526643/3 | Lab Control Sample | Total/NA | Water | 8260D SIM | |
| 240-166472-H-2 MS | Matrix Spike | Total/NA | Water | 8260D SIM | |
| 240-166472-N-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D SIM | |

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 240-166479-1 | TRIP BLANK_98 | Total/NA | Water | 8260D | |
| 240-166479-2 | MW-90S_051022 | Total/NA | Water | 8260D | |
| MB 240-527288/7 | Method Blank | Total/NA | Water | 8260D | |
| LCS 240-527288/5 | Lab Control Sample | Total/NA | Water | 8260D | |
| 240-166395-F-18 MS | Matrix Spike | Total/NA | Water | 8260D | |
| 240-166395-I-18 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D | |

Job ID: 240-166479-1

Matrix: Water

Lab Sample ID: 240-166479-1

Client Sample ID: TRIP BLANK_98 Date Collected: 05/10/22 00:00 Date Received: 05/12/22 08:00

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|---------------|---------------|-------------|-----|----------|--------|----------------|---------|-----------------------|
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8260D | | 1 | 527288 | 05/20/22 12:48 | SAM | TAL CAN |
| Client Sam | ple ID: MW | -90S_051022 | 2 | | | | Lab Sa | mple ID: 240-166479-2 |
| Date Collecte | d: 05/10/22 1 | 4:20 | | | | | | Matrix: Wate |
| Date Receive | d: 05/12/22 0 | 8:00 | | | | | | |

| | Batch | Batch | | Dilution | Batch | Prepared | | |
|-----------|----------|-----------|-----|----------|--------|----------------|---------|---------|
| Prep Type | Туре | Method | Run | Factor | Number | or Analyzed | Analyst | Lab |
| Total/NA | Analysis | 8260D | | 1 | 527288 | 05/20/22 15:10 | SAM | TAL CAN |
| Total/NA | Analysis | 8260D SIM | | 1 | 526643 | 05/17/22 02:26 | CS | TAL CAN |

Laboratory References:

TAL CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

12 13

Eurofins Canton

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

Laboratory: Eurofins Canton

| | y this laboratory are listed. Not all ac | ccreditations/certifications are applicable t | o this report. | |
|-----------------------|--|---|-----------------|---|
| Authority | Program | Identification Number | Expiration Date | |
| California | State | 2927 | 02-27-23 | ī |
| Connecticut | State | PH-0590 | 12-31-23 | |
| Florida | NELAP | E87225 | 06-30-22 | |
| Georgia | State | 4062 | 02-23-22 * | |
| Illinois | NELAP | 200004 | 07-31-22 | |
| lowa | State | 421 | 06-01-23 | |
| Kentucky (UST) | State | 112225 | 02-27-23 | |
| Kentucky (WW) | State | KY98016 | 12-31-22 | |
| Minnesota | NELAP | 039-999-348 | 12-31-22 | |
| Minnesota (Petrofund) | State | 3506 | 08-01-23 | |
| New Jersey | NELAP | OH001 | 06-30-22 | |
| New York | NELAP | 10975 | 04-01-23 | |
| Ohio | State | 8303 | 02-23-23 | |
| Ohio VAP | State | CL0024 | 05-24-22 | |
| Oregon | NELAP | 4062 | 05-24-22 | |
| Pennsylvania | NELAP | 68-00340 | 08-31-22 | |
| Texas | NELAP | T104704517-22-16 | 08-31-22 | |
| Virginia | NELAP | 11570 | 09-14-22 | |
| Washington | State | C971 | 01-12-23 | |
| West Virginia DEP | State | 210 | 12-31-22 | |

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

| | | TestAmerica Laboratories, Inc. ICOC No: | | | 5 For lab use only | Walk-in client | WIS | Job/SDG No: | | 1 Trip Blank | 3 VOAs for 8260D 3 VOAs for 8260D | × × | | | Month) | summe | COUNTRY Date Time. SUID 22 17:40 Date Time. SUID 014 | TNC 5-21-2-0800 |
|--|---------------------------------|--|--|---|---------------------------------------|--|---|---------------------------------|---|---------------|--------------------------------------|----------------|--|-----------------------------|---|---|---|--|
| 116 / 810-229-2763 | C Other | Lab Contact: Mike DelMonico | 1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1. | Letephone: 330-906-9783 | Analyses | |))))))))))))))))))) | F 8560 E 8560 S560D DD | Iteréd Samposite=C mposite=C 1-DCE 8266 2: 1-1,2-DCE 8 2: 8260D 3: | | | マナメナメナリマ | | ody | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Berlinning (Jion Disposed of Samples are retained longer than 1 month) | rsposa by Lao | struge | and her let |
| Chain of Custody Record 10448 Citation Drive. Suite 200 / Brighton, MI 48116 / 810-229-2763 | DW T NPDES T RCRA | Site Contact: Christina Weaver | T-1-40 001 110 | 1 eleptione: 240-994-2529 Análveis Turnaround Timo | Aunalysis and nar output a mine | TAT if different from below 3 weeks 10 day 2 weeks | L.L | | IX Containers & Preservatives 00H 60H 60H 00H 60H 60H 101 10H 60H 25004 00H 10H | n | | .9 | | 240-166479 Chain of Custody | Sample Disposal (A fee may be a Beium of Clione | 1 | 12 17:40 Received by LOV | 401 |
| TestAmerica Laboratory location: Brighton — 102 | 1. | Client Project Manager: Kris Hinskey | Telenhone: 769-817-7479 | | Email: Kristoner.Hinskey(@arcadis.com | Sampler Name: Sourvourthe Hindle | | Shipping/Tracking No: | reous incous | v 🗡 | 12/01/2/1tS | 5110/U 14:20 X | | | ant Poison B Interven | | Company: Company: Company: Company: Commany: Com | |
| IVILCHIGAN 190 Tet | Client Contact | c ompany Name: Arcadis | Address: 28550 Cabot Drive, Suite 500 | City/State/Zip: Novi, MI, 48377 | Phone: 248-994-2240 | Project Name: Ford LTP Off-Site | Project Number: 30080642.402.04 | PO# 30080642.402.04 | | TRIP BLANK_ Q | Mild GU | 22.0150-506-MW | | | Possible Hazard Identification | nents & Commen 1 3 80 dena at jtomalia(| Relinquisticution fundly Relinquistication of the Relinquistication of the Relinquistication of the Relinquistication of the Relinquistication of the Article of the Articl | 5000 Testémetra i Bonda teste la |

^o Page 17 of 19

| | | | 11,19 |
|---|---------------------------|--|---------------------------------|
| Eurofins TestAmerica Canton Sample Re | ceipt Form/Narrative | Login # | : 166971 |
| Canton Facility | E L I | +O Coolers | inpacked by: |
| Client Arcadis | Site Name Ford - [| | |
| Cooler Received on 5-12.22 | Opened on 5-12-2 | | <u>e</u> |
| FedEx: 1 st Grd Exp UPS FAS Clippe | | and the second | |
| Receipt After-hours: Drop-off Date/Time | | e Location | |
| TestAmerica Cooler # Foam H | | Other | |
| Packing material used: Bubble Wrap COOLANT: Wet Ice Blue Ice | | Other | |
| COOLANT: Wet Ice Blue Ice 1. Cooler temperature upon receipt | | tiple Cooler Form | |
| IR GUN# IR-13 (CF 0.0 °C) Observed | Cooler Temp °C Correct | ed Cooler Temp. | °C |
| IR GUN #IR-15 (CF -0.7°C) Observed | d Cooler Temp. °C Correct | | - °C |
| 2. Were tamper/custody seals on the outside of | | | |
| -Were the seals on the outside of the cool | | Yes No NA | Tests that are not |
| -Were tamper/custody seals on the bottle | | Yes No | checked for pH by Receiving: |
| -Were tamper/custody seals intact and un | | Yes No NA | Accessing. |
| 3. Shippers' packing slip attached to the coole | r(s)? | Yes No | VOAs |
| 4. Did custody papers accompany the sample(| s)? | Yes No | Oil and Grease TOC |
| 5. Were the custody papers relinquished & sig | | No No | TOC |
| 6. Was/were the person(s) who collected the s | | | |
| 7. Did all bottles arrive in good condition (Un | | Ve No | |
| 8. Could all bottle labels (ID/Date/Time) be re | | Yes No | and the second |
| 9. For each sample, does the COC specify pre | <u> </u> | Y/N), and sample type of Yes No | grab/comp(Y/N)? |
| Were correct bottle(s) used for the test(s) in Sufficient quantity received to perform indi | | Yes No | |
| 12. Are these work share samples and all listed | | Yes No | |
| If yes, Questions 13-17 have been checked | | Tes tro | |
| 13. Were all preserved sample(s) at the correct | | Yes No NA | pH Strip Lot# HC157842 |
| 14. Were VOAs on the COC? | | (Yes No | |
| 15. Were air bubbles >6 mm in any VOA vials | ? 🛑 🍋 Larger than this. | Yes No NA | |
| Were air bubbles >6 mm in any VOA viais Was a VOA trip blank present in the cooler Was a LL Was as Ma Wa trip blank present? | r(s)? Trip Blank Lot # | eu ver No | |
| 17. Was a LL Hg or Me Hg trip blank present? | | Yes No | |
| Contacted PM Date | hu v | ia Verbal Voice Mail O | ther |
| | Uy V | | LICI |
| Concerning | | | |
| | | | |
| | | | 11 |
| 18. CHAIN OF CUSTODY & SAMPLE DIS | CREPANCIES U additional a | next page Samples pr | ocessed by: |
| | | ······ | |
| | | | |
| | | | |
| | ····· | | |
| | | | |
| 19. SAMPLE CONDITION | | | |
| Sample(s) | | | |
| Sample(s) | | ere received in a broken o | |
| Sample(s) | were received with bubl | ble >6 mm in diameter. (? | Notify PM) |
| 0. SAMPLE PRESERVATION | | | <u> </u> |
| Semple(c) | | man futher | d in the läboratory |
| Sample(s) Preservative(s) | added/Lot number(s). | were further preserved | In the laboratory. |
| | | | |
| VOA Sample Preservation - Date/Time VOAs | Frozen: | | |
| - | | | |

nG Login t

| # | : | 66 | 4 | Y | |
|---|---|----|---|---|--|
| | | | | | |

14

| | | | n Sample Receipt M | | · · · · · · · · · · · · · · · · · · · |
|-----------|-------------|--------------------------------|------------------------------|-----------------------------------|---|
| | Description | IR Gun # | Observed | Corrected | Coolant |
| ~ | ircle) | (Circle) | Temp °C | Temp °C | (Circle) |
| TA Client | Box Other | (IR-13) IR-15 (IR-13) IR-15 | 4.0 | 4.0 | Water None Wet Ice Blue Ice Dry Ice |
| TA Client | Box Other | | 4.0 | 40 | Water None |
| TA Client | Box Other | IR-13 IR-15 | | | Wet ice Blue ice Dry ice Water None |
| TA Client | Box Other | IR-13 IR-15 | | | Wet ice Blue ice Dry ice Water None |
| TA Client | Box Other | IR-13 IR-15 | | | Wet ice Blue ice Dry ice Water None |
| TA Client | Box Other | IR-13 IR-15 | | | Wet ice Blue ice Dry ice |
| TA Client | Box Other | IR-13 IR-15 | | | Water None Wetice Blue ice Dry ice |
| TA Client | Box Other | IR-13 IR-15 | | | Water None Wet Ice Blue Ice Dry Ice |
| | | IR-13 IR-15 | | | Water None Wet Ice Blue Ice Dry Ice |
| TA Client | Box Other | IR-13 IR-15 | | | Water None |
| TA Client | Box Other | | | | Water None |
| TA Client | Box Other | IR-13 IR-15 | | | Wet ice Blue ice Dry ice Water None |
| TA Client | Box Other | IR-13 IR-15 | | | Wet ice Blue ice Dry ice Water None |
| TA Client | Box Other | IR-13 IR-15 | | | Wet Ice Blue Ice Dry Ice Water None |
| TA Client | Box Other | IR-13 IR-15 | | | Wetice Blue ice Dry ice Water None |
| TA Client | Box Other | IR-13 IR-15 | | | Wellice Bluelice Dry Ice |
| TA Client | Box Other | IR-13 IR-15 | | | Water None Wet Ice Blue Ice Dry Ice |
| | | IR-13 IR-15 | | | Water None Wet Ice Blue Ice Dry Ice |
| | Box Other | IR-13 IR-15 | | | Water None Wet Ice Blue Ice Dry Ice |
| TA Client | Box Other | IR-13 IR-15 | | | Water None Wet ice Blue ice Dry ice |
| TA Client | Box Other | | | | Water None |
| TA Client | Box Other | ik-13 ik-15 | | | Wet ice Blue ice Dry ice Water None |
| TA Client | Box Other | IR-13 IR-15 | | | Wet ice Blue ice Dry ice Water None |
| TA Client | Box Other | IR-13 IR-15 | | | Wet Ice Blue Ice Dry Ice Water None |
| TA Client | Box Other | IR-13 IR-15 | | · · · · · · · · · · · · · · · · · | Wet ice Blue ice Dry ice Water None |
| TA Client | Box Other | IR-13 IR-15 | | | Wet Ice Blue Ice Dry Ice |
| TA Client | Box Other | iR-13 iR-15 | | | Water None Wet ice Blue ice Dry ice |
| | | IR-13 IR-15 | | | Water None Wet ice Blue ice Dry ice |
| TA Client | Box Other | IR-13 IR-15 | and the second second second | | Water None Wetice Blue Ice Dry Ice |
| TA Client | Box Other | IR-13 IR-15 | | | Water None Wet ice Blue ice Dry ice |
| TA Client | Box Other | | | | Water None |
| TA Client | Box Other | IR-13 IR-15 | | | Wet ice Blue ice Dry ice Water None |
| TA Client | Box Other | IR-13 IR-15 | | | Wet ice Blue ice Dry ice Water None |
| TA Client | Box Other | IR-13 IR-15 | | | Wellice Bluelice Drylice Water None |
| TA Client | Box Other | IR-13 IR-15 | | | Wet Ice Blue Ice Dry Ice |
| TA Client | Box Other | IR-13 IR-15 | | | Water None Wet Ice Blue Ice Dry Ice |
| | | IR-13 IR-15 | | | Water None Wet Ice Blue Ice Dry Ice |
| TA Client | Box Other | | | See Ten | Water None nperature Excursion Form |

WI-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

DATA VERIFICATION REPORT



May 26, 2022

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: 30080642.402.04 Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Barberton Laboratory submittal: 166479-1 Sample date: 2022-05-10 Report received by CADENA: 2022-05-26 Initial Data Verification completed by CADENA: 2022-05-26 Number of Samples:2 Sample Matrices: Water and trip blank Test Categories: GCMS VOC Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

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

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Barberton Laboratory Submittal: 166479-1

| | | Sample Name: Lab Sample ID: Sample Date: | TRIP BLA 2401664 5/10/20 | 4791 | | | | | | |
|----------------|--------------------------|--|--------------------------------|--------|-------|-----------|--------|--------|-------|-----------|
| | | | | Report | | Valid | | Report | | Valid |
| | Analyte | Cas No. | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier |
| GC/MS VOC | | | | | | | | | | |
| <u>OSW-826</u> | <u>0D</u> | | | | | | | | | |
| | 1,1-Dichloroethene | 75-35-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | cis-1,2-Dichloroethene | 156-59-2 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | Tetrachloroethene | 127-18-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | trans-1,2-Dichloroethene | 156-60-5 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | Trichloroethene | 79-01-6 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | Vinyl chloride | 75-01-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| <u>OSW-826</u> | <u>ODSIM</u> | | | | | | | | | |
| | 1,4-Dioxane | 123-91-1 | | | | | ND | 2.0 | ug/l | |



Ford Motor Company – Livonia Transmission Project

DATA REVIEW

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-166479-1 CADENA Verification Report: 2022-05-26

Analyses Performed By: TestAmerica North Canton, Ohio

Report # 45717R Review Level: Tier III Project: 30080642.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-166479-1 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 Collection | | Ana | lysis |
|---------------|--------------|-------------|-------------------|---------------|-----|---------|
| Sample ID | Lab ID | Matrix Date | | Parent Sample | voc | VOC SIM |
| TRIP BLANK_98 | 240-166479-1 | Water | 05/10/22 | | Х | |
| MW-90S_051022 | 240-166479-2 | Water | 05/10/22 | | Х | Х |

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

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

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.

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 HCI |

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

%RSD Relative standard deviation

%R Percent recovery

- RPD Relative percent difference
- %D Percent difference

| VALIDATION PERFORMED BY: | Hrishikesh Upadhyaya |
|--------------------------|----------------------|
| | |

SIGNATURE:

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DATE: June 09, 2022

PEER REVIEW: Andrew Korycinski

DATE: June 12, 2022

NO CORRECTIONS/QUALIFERS 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



THE LEADER IN ENVIRONMENTAL TESTING

| Client Contact | Regulate | ory program: | : | DW | | PDES | ſ | RCRA | | Ōt | her [| | | | | | | | | | | | |
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| Company Name: Arcadis | Client Project N | lanager: Kris | Hinske | y | Site Co | ntact: | Christi | na Weave | er | | - | Lab | Conta | t: Mil | ke Del | Monio | 20 | TestAmerica Laboratorio COC No: | | | | | atories, li |
| Address: 28550 Cabot Drive, Suite 500 | Telephone: 269 | -832-7478 | _ | | Teleph | Telephone: 248-994-2329 T | | | | | | Telephone: 330-966-9783 | | | | | \rightarrow | | | | | | |
| City/State/Zip: Novi, MI, 48377 | | | | | | | | | | | Tele | phone | . 3304 | | | | | | F | 1 0 | r 1 | COCs | |
| Phone: 248-994-2240 | Email: Kristoff | er.Hinskey@a | rcadis. | com | An | alysis | ysis Turnaround Time | | | | | Analyses | | | | | | F | for lab use | only | | | |
| | Sampler Name: | | | | TAT if | lifferent | from belo | | | | | | | | | | | | | v | Walk-in cli | ent | |
| Project Name: Ford LTP Off-Site | Salva | ntha | Hi | ndle | 10 0 | lav | - 2. | weeks weeks | | | | | | | | | | | | ab sampli | ng | | |
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| PO # 30080642.402.04 | Shipping/Tracki | ng No: | | | -1 | | | days day | | ite=C / Grab=C | 8 | 8260D | E 8260D | | | e 8260D | 8260D S | | | J | ob/SDG N | o: | |
| | | | | Aqueous Sediment Solid Other: | | | NaOH NaOH | VaOH Unpres Other: | 1 | Filtered Sam Composite=C | 1,1-DCE 8260D | cis-1,2-DCE | Trans-1,2-DCE | PCE 8260D | TCE 8260D | Vinyl Chloride 8260D | 1,4-Dioxane 8260D SIM | | | ſ | | ple Specific cial Instru | |
| Sample Identification | Sample Date | Sample Time | 1 | <u> </u> | | Ξ | Z N | 2 5 0 | | - 0 | - | ö. | | ă | ΪĔ | Š | - | | ┿┯┿ | = | | | |
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| Possible Hazard Identification | | | | | Sam | | | A fee may | | | | | | | | than 1 | | | | | | | |
| Non-Hazard Flammable Skii Special Instructions/QC Requirements & Comments: Sample Address: 34 3 80 (A Submit all results through Cadena at itomalia@cad Level IV Reporting requested. | n Irritant Poiso P I D St enaco.com. Cadena # | | Unkn | own | | Retu | m to Cl | ient . | Disj | posal E | 3y Lab | | | Archive | e For 1 | | Mo | nths | | | | | |
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| Relinquished by: | Company: | | | Date/Time: 5/1/22 | 101 |) | Receiv | ed in Lab | | | ч | L | 5 | د | Com | Pany: | ETA | SC | | Ľ |)ate/Time 5-1 | 2.20 | 2.080 |
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Client Sample ID: TRIP BLANK_98 Date Collected: 05/10/22 00:00

Date Received: 05/12/22 08:00

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

| Method: 8260D - Volatile O | rganic Compo | unds by G | C/MS | | | | | | |
|------------------------------|--------------|-----------|----------|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 05/20/22 12:48 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 05/20/22 12:48 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/20/22 12:48 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 05/20/22 12:48 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/20/22 12:48 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 05/20/22 12:48 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 62 - 137 | | | - | | 05/20/22 12:48 | 1 |
| 4-Bromofluorobenzene (Surr) | 104 | | 56 - 136 | | | | | 05/20/22 12:48 | 1 |

78 - 122

73 - 120

Client Sample ID: MW-90S_051022 Date Collected: 05/10/22 14:20 Date Received: 05/12/22 08:00

105

110

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-----------------------------|------------------------------------|-------------------------|----------------------|------------------------------|----------|----------|--|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 05/17/22 02:26 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 66 - 120 | | | | | 05/17/22 02:26 | 1 |
| Method: 8260D - Volatile C Analyte | • | unds by G Qualifier | C/MS RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Method: 8260D - Volatile C | • | - | C/MS | | | | | | |
| | • | Qualifier | | | | D | Prepared | Analyzed | Dil Fac |
| Analyte | Result | Qualifier | RL | 0.49 | ug/L | <u> </u> | Prepared | | Dil Fac |
| Analyte 1,1-Dichloroethene | Result 1.0 | Qualifier U U | RL | | ug/L ug/L | <u> </u> | Prepared | 05/20/22 15:10 | 1 |
| Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene | Result 1.0 1.0 | Qualifier U U U | RL 1.0 1.0 | 0.49 0.46 | ug/L ug/L ug/L | <u> </u> | Prepared | 05/20/22 15:10 05/20/22 15:10 | 1 |
| Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene | Result 1.0 1.0 1.0 | Qualifier U U U U U | RL 1.0 1.0 1.0 | 0.49 0.46 0.44 | ug/L ug/L ug/L ug/L | <u> </u> | Prepared | 05/20/22 15:10 05/20/22 15:10 05/20/22 15:10 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|---------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 62 - 137 | | 5/20/22 15:10 | 1 |
| 4-Bromofluorobenzene (Surr) | 109 | | 56 - 136 | 03 | 5/20/22 15:10 | 1 |
| Toluene-d8 (Surr) | 108 | | 78 - 122 | 03 | 5/20/22 15:10 | 1 |
| Dibromofluoromethane (Surr) | 112 | | 73 - 120 | 0 | 5/20/22 15:10 | 1 |

Lab Sample ID: 240-166479-1 Matrix: Water

| Lab | Sample | ID: | 240-1 | 66479-2 |
|-----|--------|-----|-------|---------|

05/20/22 12:48

05/20/22 12:48

Matrix: Water

1

1