PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

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JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-181473-1

Eurofins Canton 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Canton

Job Notes

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Authorization

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Authorized for release by Michael DelMonico, Project Manager I Michael.DelMonico@et.eurofinsus.com (330)497-9396 12

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Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-181473-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 240-181473-1

Project/Site: Ford LTP - Off Site

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

Qualifiers

GC/MS VOA

U Indicates the analyte was analyzed for but not detected.

Glossary

DL, RA, RE, IN

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|--------------|--|
| n | 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) |

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

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Case Narrative

Client: ARCADIS U.S., Inc.

Job ID: 240-181473-1

Project/Site: Ford LTP - Off Site

Job ID: 240-181473-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-181473-1

Receipt

The samples were received on 3/7/2023 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.9°C

GC/MS VOA

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

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Method Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-181473-1

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-181473-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 240-181473-1 | TRIP BLANK_35 | Water | 03/03/23 00:00 | 03/07/23 10:00 |
| 240-181473-2 | MW-108S_030323 | Water | 03/03/23 08:40 | 03/07/23 10:00 |
| 240-181473-3 | MW-142S_030323 | Water | 03/03/23 09:40 | 03/07/23 10:00 |
| 240-181473-4 | MW-85_030323 | Water | 03/03/23 10:45 | 03/07/23 10:00 |
| 240-181473-5 | DUP-08_030323 | Water | 03/03/23 00:00 | 03/07/23 10:00 |

Detection Summary

Project/Site: Ford LTP - Off Site Client Sample ID: TRIP BLANK_35 Lab Sample ID: 240-181473-1 No Detections. Client Sample ID: MW-108S_030323 Lab Sample ID: 240-181473-2 No Detections. Client Sample ID: MW-142S_030323 Lab Sample ID: 240-181473-3 No Detections. Client Sample ID: MW-85_030323 Lab Sample ID: 240-181473-4 Analyte Result Qualifier RL MDL Unit Dil Fac D Method Prep Type

| L | Vinyl chloride | 4.6 | 1.0 | 0.45 ug/L | 1 | 8260D | Total/NA |
|---|--------------------------------|-----|-----|-----------|-----|-----------|----------------|
| (| Client Sample ID: DUP-08_03032 | 23 | | | Lab | Sample ID | : 240-181473-5 |

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Vinyl chloride | 4.5 | | 1.0 | 0.45 | ug/L | 1 | | 8260D | Total/NA |

This Detection Summary does not include radiochemical test results.

Client: ARCADIS U.S., Inc.

Eurofins Canton

Job ID: 240-181473-1

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Client: ARCADIS U.S., Inc. Job ID: 240-181473-1

Project/Site: Ford LTP - Off Site

Date Received: 03/07/23 10:00

Client Sample ID: TRIP BLANK_35

Lab Sample ID: 240-181473-1 Date Collected: 03/03/23 00:00

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|---------------------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/11/23 15:54 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/11/23 15:54 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/11/23 15:54 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/11/23 15:54 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/11/23 15:54 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/11/23 15:54 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 92 | | 62 - 137 | | | - | | 03/11/23 15:54 | 1 |
| 4-Bromofluorobenzene (Surr) | 113 | | 56 ₋ 136 | | | | | 03/11/23 15:54 | 1 |
| Toluene-d8 (Surr) | 99 | | 78 - 122 | | | | | 03/11/23 15:54 | 1 |
| Dibromofluoromethane (Surr) | 91 | | 73 - 120 | | | | | 03/11/23 15:54 | 1 |

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Client: ARCADIS U.S., Inc. Job ID: 240-181473-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-108S_030323

Date Collected: 03/03/23 08:40 Date Received: 03/07/23 10:00

Dibromofluoromethane (Surr)

Lab Sample ID: 240-181473-2

03/11/23 16:17

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/16/23 15:23 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 84 | | 66 - 120 | | | - | | 03/16/23 15:23 | 1 |
| Method: SW846 8260D - Volati | ile Organic Comp | ounds by G | C/MS | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/11/23 16:17 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/11/23 16:17 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/11/23 16:17 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/11/23 16:17 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/11/23 16:17 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/11/23 16:17 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 93 | | 62 - 137 | | | _ | | 03/11/23 16:17 | 1 |
| 4-Bromofluorobenzene (Surr) | 114 | | 56 - 136 | | | | | 03/11/23 16:17 | 1 |
| Toluene-d8 (Surr) | 97 | | 78 - 122 | | | | | 03/11/23 16:17 | 1 |

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Client: ARCADIS U.S., Inc. Job ID: 240-181473-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-142S_030323

Lab Sample ID: 240-181473-3 Date Collected: 03/03/23 09:40

Matrix: Water

03/11/23 16:40

03/11/23 16:40

03/11/23 16:40

Date Received: 03/07/23 10:00

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

| Method: SW846 8260D SIM - \ | Volatile Organic C | ompounds | (GC/MS) | | | | | | |
|----------------------------------|--------------------|------------|----------|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/16/23 15:47 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 80 | | 66 - 120 | | | - | | 03/16/23 15:47 | 1 |
| - Method: SW846 8260D - Volat | tile Organic Comp | ounds by G | C/MS | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/11/23 16:40 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/11/23 16:40 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/11/23 16:40 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/11/23 16:40 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/11/23 16:40 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/11/23 16:40 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 92 | | 62 - 137 | | | _ | | 03/11/23 16:40 | 1 |

56 - 136

78 - 122

73 - 120

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Client: ARCADIS U.S., Inc. Job ID: 240-181473-1

Project/Site: Ford LTP - Off Site

Date Received: 03/07/23 10:00

Dibromofluoromethane (Surr)

Client Sample ID: MW-85_030323

Lab Sample ID: 240-181473-4 Date Collected: 03/03/23 10:45

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------------|------------|---------------------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/16/23 16:11 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 85 | | 66 - 120 | | | - | | 03/16/23 16:11 | 1 |
| Method: SW846 8260D - Volati | le Organic Comp | ounds by G | C/MS | | | | | | |
| Analyte | • | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/11/23 17:03 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/11/23 17:03 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/11/23 17:03 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/11/23 17:03 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/11/23 17:03 | 1 |
| Vinyl chloride | 4.6 | | 1.0 | 0.45 | ug/L | | | 03/11/23 17:03 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 62 - 137 | | | - | | 03/11/23 17:03 | 1 |
| 4-Bromofluorobenzene (Surr) | 114 | | 56 ₋ 136 | | | | | 03/11/23 17:03 | 1 |
| Toluene-d8 (Surr) | 99 | | 78 ₋ 122 | | | | | 03/11/23 17:03 | 1 |

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03/11/23 17:03

Client: ARCADIS U.S., Inc. Job ID: 240-181473-1

Project/Site: Ford LTP - Off Site

Client Sample ID: DUP-08_030323

Lab Sample ID: 240-181473-5 Date Collected: 03/03/23 00:00

Matrix: Water

03/11/23 17:27

Date Received: 03/07/23 10:00

Dibromofluoromethane (Surr)

| Method: SW846 8260D SIM - \ | Volatile Organic C | ompounds | (GC/MS) | | | | | | |
|----------------------------------|--------------------|-----------|----------|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/16/23 16:36 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 76 | | 66 - 120 | | | | | 03/16/23 16:36 | 1 |
| _ Method: SW846 8260D - Volat | | • | GC/MS | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/11/23 17:27 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/11/23 17:27 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/11/23 17:27 | |

| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.51 ug/L | | 03/11/23 17:27 | 1 |
|------------------------------|---------------------|---------------------|-----------|----------|----------------|---------|
| Trichloroethene | 1.0 U | 1.0 | 0.44 ug/L | | 03/11/23 17:27 | 1 |
| Vinyl chloride | 4.5 | 1.0 | 0.45 ug/L | | 03/11/23 17:27 | 1 |
| Surrogate | %Recovery Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 94 | 62 - 137 | | | 03/11/23 17:27 | 1 |
| 4-Bromofluorobenzene (Surr) | 114 | 56 ₋ 136 | | | 03/11/23 17:27 | 1 |
| Toluene-d8 (Surr) | 99 | 78 122 | | | 03/11/23 17:27 | 1 |

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Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-181473-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

| | | | rogate Rec | | |
|--------------------|------------------------|----------|------------|----------|----------|
| | | DCA | BFB | TOL | DBFM |
| Lab Sample ID | Client Sample ID | (62-137) | (56-136) | (78-122) | (73-120) |
| 240-181473-1 | TRIP BLANK_35 | 92 | 113 | 99 | 91 |
| 240-181473-2 | MW-108S_030323 | 93 | 114 | 97 | 92 |
| 240-181473-3 | MW-142S_030323 | 92 | 112 | 98 | 90 |
| 240-181473-4 | MW-85_030323 | 95 | 114 | 99 | 94 |
| 240-181473-5 | DUP-08_030323 | 94 | 114 | 99 | 91 |
| 240-181587-E-2 MS | Matrix Spike | 91 | 115 | 99 | 91 |
| 240-181587-F-2 MSD | Matrix Spike Duplicate | 94 | 118 | 100 | 95 |
| LCS 240-565042/5 | Lab Control Sample | 92 | 116 | 99 | 94 |
| MB 240-565042/8 | Method Blank | 93 | 113 | 97 | 92 |

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) | |
| 240-181473-2 | MW-108S_030323 | 84 | |
| 240-181473-3 | MW-142S_030323 | 80 | |
| 240-181473-4 | MW-85_030323 | 85 | |
| 240-181473-5 | DUP-08_030323 | 76 | |
| 240-181596-F-5 MSD | Matrix Spike Duplicate | 94 | |
| 240-181596-I-5 MS | Matrix Spike | 95 | |
| LCS 240-565607/4 | Lab Control Sample | 85 | |
| MB 240-565607/6 | Method Blank | 83 | |
| Surrogate Legend | | | |

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

Job ID: 240-181473-1

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

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

Lab Sample ID: MB 240-565042/8 **Matrix: Water**

Analysis Batch: 565042

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

| | МВ | MB | | | | | | | |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/11/23 12:57 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/11/23 12:57 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/11/23 12:57 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/11/23 12:57 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/11/23 12:57 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/11/23 12:57 | 1 |
| | | | | | | | | | |

MB MB

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|---------------------|---------------------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 93 | 62 - 137 | | 03/11/23 12:57 | 1 |
| 4-Bromofluorobenzene (Surr) | 113 | 56 ₋ 136 | | 03/11/23 12:57 | 1 |
| Toluene-d8 (Surr) | 97 | 78 - 122 | | 03/11/23 12:57 | 1 |
| Dibromofluoromethane (Surr) | 92 | 73 - 120 | | 03/11/23 12:57 | 1 |

Lab Sample ID: LCS 240-565042/5

Matrix: Water

Analysis Batch: 565042

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| | Spike | LCS | LCS | | | | %Rec | |
|--------------------------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,1-Dichloroethene | 20.0 | 20.7 | | ug/L | | 104 | 63 - 134 | |
| cis-1,2-Dichloroethene | 20.0 | 20.9 | | ug/L | | 105 | 77 - 123 | |
| Tetrachloroethene | 20.0 | 18.7 | | ug/L | | 94 | 76 - 123 | |
| trans-1,2-Dichloroethene | 20.0 | 20.5 | | ug/L | | 102 | 75 - 124 | |
| Trichloroethene | 20.0 | 17.9 | | ug/L | | 89 | 70 - 122 | |
| Vinyl chloride | 20.0 | 18.7 | | ug/L | | 93 | 60 - 144 | |
| | | | | | | | | |

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 92 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 116 | | 56 - 136 |
| Toluene-d8 (Surr) | 99 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 94 | | 73 - 120 |

Lab Sample ID: 240-181587-E-2 MS

Matrix: Water

Analysis Batch: 565042

Client Sample ID: Matrix Spike

Prep Type: Total/NA

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|--------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,1-Dichloroethene | 1.0 | U | 20.0 | 18.1 | | ug/L | | 91 | 56 - 135 | |
| cis-1,2-Dichloroethene | 1.0 | U | 20.0 | 18.7 | | ug/L | | 94 | 66 - 128 | |
| Tetrachloroethene | 1.0 | U | 20.0 | 16.4 | | ug/L | | 82 | 62 - 131 | |
| trans-1,2-Dichloroethene | 1.0 | U | 20.0 | 18.1 | | ug/L | | 91 | 56 - 136 | |
| Trichloroethene | 1.0 | U | 20.0 | 15.6 | | ug/L | | 78 | 61 - 124 | |
| Vinyl chloride | 1.0 | U | 20.0 | 17.7 | | ug/L | | 89 | 43 - 157 | |

| Surrogate | %Recovery Qualifie | er Limits |
|------------------------------|--------------------|-----------|
| 1,2-Dichloroethane-d4 (Surr) | 91 | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 115 | 56 - 136 |
| Toluene-d8 (Surr) | 99 | 78 - 122 |

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Client: ARCADIS U.S., Inc.

Job ID: 240-181473-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: 240-181587-E-2 MS

Lab Sample ID: 240-181587-F-2 MSD

Matrix: Water

Analysis Batch: 565042

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 91 73 - 120

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 565042

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|--------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| 1,1-Dichloroethene | 1.0 | U | 20.0 | 18.1 | | ug/L | | 91 | 56 - 135 | 0 | 26 |
| cis-1,2-Dichloroethene | 1.0 | U | 20.0 | 19.0 | | ug/L | | 95 | 66 - 128 | 2 | 14 |
| Tetrachloroethene | 1.0 | U | 20.0 | 16.2 | | ug/L | | 81 | 62 - 131 | 1 | 20 |
| trans-1,2-Dichloroethene | 1.0 | U | 20.0 | 18.3 | | ug/L | | 91 | 56 - 136 | 1 | 15 |
| Trichloroethene | 1.0 | U | 20.0 | 15.4 | | ug/L | | 77 | 61 - 124 | 1 | 15 |
| Vinyl chloride | 1.0 | U | 20.0 | 18.0 | | ug/L | | 90 | 43 - 157 | 1 | 24 |

MSD MSD

мв мв

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 118 | | 56 - 136 |
| Toluene-d8 (Surr) | 100 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 95 | | 73 - 120 |

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

Lab Sample ID: MB 240-565607/6

Matrix: Water

Analysis Batch: 565607

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike Duplicate

51 - 153

116

Prep Type: Total/NA

Prep Type: Total/NA

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/16/23 12:09 | 1 |
| | MB | MB | | | | | | | |

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 83 66 - 120 03/16/23 12:09

Lab Sample ID: LCS 240-565607/4

Matrix: Water

Analysis Batch: 565607

| | Spike | LCS | LCS | | | | %Rec | |
|-------------|-------|--------|-----------|------|---|------|--------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1.4-Dioyane | 10.0 | 10.5 | - | ua/l | | 105 | 80 122 | |

LCS LCS

2.0 U

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 85

Lab Sample ID: 240-181596-F-5 MSD

Matrix: Water

1,4-Dioxane

| Analysis Batch: 565607 | | | | | | | | | | | |
|------------------------|--------|-----------|-------|--------|-----------|------|---|------|--------|-----|-------|
| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |

11.6

ug/L

Eurofins Canton

Prep Type: Total/NA

10.0

QC Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 240-181473-1

Project/Site: Ford LTP - Off Site

Surrogate

1,2-Dichloroethane-d4 (Surr)

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

MS MS

%Recovery Qualifier

95

| | MSD | MSD | | | | | | | | | |
|--|-----------|-----------|----------|--------|-----------|------|---|--------|----------|---------------------------|---|
| Surrogate | %Recovery | Qualifier | Limits | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 66 - 120 | | | | | | | | |
| Lab Sample ID: 240-181596-I-5 M Matrix: Water Analysis Batch: 565607 | S | | | | | | | Client | |): Matrix S Type: Tota | • |
| | Sample | Sample | Spike | MS | MS | | | | %Rec | | |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | | |
| 1,4-Dioxane | 2.0 | U | 10.0 | 12.4 | | ug/L | | 124 | 51 - 153 | | |

Limits

66 - 120

10

12

QC Association Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-181473-1

GC/MS VOA

Analysis Batch: 565042

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 240-181473-1 | TRIP BLANK_35 | Total/NA | Water | 8260D | |
| 240-181473-2 | MW-108S_030323 | Total/NA | Water | 8260D | |
| 240-181473-3 | MW-142S_030323 | Total/NA | Water | 8260D | |
| 240-181473-4 | MW-85_030323 | Total/NA | Water | 8260D | |
| 240-181473-5 | DUP-08_030323 | Total/NA | Water | 8260D | |
| MB 240-565042/8 | Method Blank | Total/NA | Water | 8260D | |
| LCS 240-565042/5 | Lab Control Sample | Total/NA | Water | 8260D | |
| 240-181587-E-2 MS | Matrix Spike | Total/NA | Water | 8260D | |
| 240-181587-F-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D | |

Analysis Batch: 565607

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 240-181473-2 | MW-108S_030323 | Total/NA | Water | 8260D SIM | |
| 240-181473-3 | MW-142S_030323 | Total/NA | Water | 8260D SIM | |
| 240-181473-4 | MW-85_030323 | Total/NA | Water | 8260D SIM | |
| 240-181473-5 | DUP-08_030323 | Total/NA | Water | 8260D SIM | |
| MB 240-565607/6 | Method Blank | Total/NA | Water | 8260D SIM | |
| LCS 240-565607/4 | Lab Control Sample | Total/NA | Water | 8260D SIM | |
| 240-181596-F-5 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D SIM | |
| 240-181596-I-5 MS | Matrix Spike | Total/NA | Water | 8260D SIM | |

3

6

R

9

10

11

Job ID: 240-181473-1

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_35

Date Collected: 03/03/23 00:00 Date Received: 03/07/23 10:00 Lab Sample ID: 240-181473-1

Matrix: Water

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|--------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 565042 | AJS | EET CAN | 03/11/23 15:54 |

Lab Sample ID: 240-181473-2 Client Sample ID: MW-108S_030323

Matrix: Water

Date Collected: 03/03/23 08:40 Date Received: 03/07/23 10:00

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 565042 | AJS | EET CAN | 03/11/23 16:17 |
| Total/NA | Analysis | 8260D SIM | | 1 | 565607 | BAJ | EET CAN | 03/16/23 15:23 |

Client Sample ID: MW-142S_030323 Lab Sample ID: 240-181473-3

Date Collected: 03/03/23 09:40 Matrix: Water

Date Received: 03/07/23 10:00

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Type | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 565042 | AJS | EET CAN | 03/11/23 16:40 |
| Total/NA | Analysis | 8260D SIM | | 1 | 565607 | BAJ | EET CAN | 03/16/23 15:47 |

Lab Sample ID: 240-181473-4 Client Sample ID: MW-85_030323

Date Collected: 03/03/23 10:45 **Matrix: Water**

Date Received: 03/07/23 10:00

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 565042 | AJS | EET CAN | 03/11/23 17:03 |
| Total/NA | Analysis | 8260D SIM | | 1 | 565607 | BAJ | EET CAN | 03/16/23 16:11 |

Client Sample ID: DUP-08_030323 Lab Sample ID: 240-181473-5

Date Collected: 03/03/23 00:00 **Matrix: Water**

Date Received: 03/07/23 10:00

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | | 565042 | AJS | EET CAN | 03/11/23 17:27 |
| Total/NA | Analysis | 8260D SIM | | 1 | 565607 | BAJ | EET CAN | 03/16/23 16:36 |

Laboratory References:

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

Eurofins Canton

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 240-181473-1 Project/Site: Ford LTP - Off Site

Laboratory: Eurofins 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 | 02-27-23 * |
| Connecticut | State | PH-0590 | 12-31-23 |
| Florida | NELAP | E87225 | 06-30-23 |
| Georgia | State | 4062 | 02-27-23 * |
| Illinois | NELAP | 200004 | 07-31-23 |
| lowa | State | 421 | 06-01-23 |
| Kentucky (UST) | State | 112225 | 02-27-23 * |
| Kentucky (WW) | State | KY98016 | 12-31-23 |
| Michigan | State | 9135 | 02-27-23 * |
| Minnesota | NELAP | 039-999-348 | 12-31-23 |
| Minnesota (Petrofund) | State | 3506 | 08-01-23 |
| New Jersey | NELAP | OH001 | 06-30-23 |
| New York | NELAP | 10975 | 04-01-23 |
| Ohio | State | 8303 | 02-27-23 * |
| Ohio VAP | State | CL0024 | 02-27-23 * |
| Oregon | NELAP | 4062 | 02-28-24 |
| Pennsylvania | NELAP | 68-00340 | 08-31-23 |
| Texas | NELAP | T104704517-22-17 | 08-31-23 |
| Virginia | NELAP | 460175 | 09-14-23 |
| West Virginia DEP | State | 210 | 12-31-23 |

 $^{^{\}star}\,\text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

4

| 115 | Brighton | ody R | MICHIGAN 190 | TestAmerica |
|---|---|--|--|--|
| | Regulatory program: DW | □ NPDES □ RCRA □ Other | | |
| | Client Project Manager: Kris Hinskey | Site Contact: Christina Weaver | Lab Contact: Mike DelMonico | TestAmerica Laboratories, Inc. |
| | Telephone: 248-994-2240 | Telephone: 248-994-2240 | Telephone: 330-497-9396 | |
| | Francis Leiter of an hindred and | Analysis henorening time | A P. D. S. LEAST | 1 of 1 COCs |
| | E-Mail: ATISIOHET-MINSKEY (# BICAGIS, COM | | SUSANIE | For lab use only |
| | Sampler Name: | TAT it different from below 3 weeks | | Walk-in client |
| | Method of Shipment/Carrier: | 1 week | | Lab sampling |
| | Shipping/Tracking No: | / 人) əfd | 9 8 S E 0 B B B B B B B B B B B B B B B B B B | Job/SDG No: |
| - | Name Same Same Same Same Same Same Same S | Composite Compos | 7-DCE 82608 7-2-DCE 82608 7-2-B2608 7-2-B2608 7-2-B2608 7-2-B2608 7-2-B2608 7-2-B2608 | Sample Specific Notes / Special Instructions: |
| | | Z | X X X X X X X X X X X X X X X X X X X | 1 Trip Blank |
| MM-1085-030323 | Borns 0840 6 | 9 | * * * * * * * * * * * * * * * * * * * | 3 VOAs for 8260B 3 VOAs for 8260B SIM |
| MW-1425 DBOTES | 07/02/03 0940 6 | 9 | × × × × × | |
| MW-85_030723 | 03/04/2/045 6 | ٥ | メメメメメ | |
| | 03/03/3 - 6 | 77 | X | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | 240-181473 Chain of Custody | |
| ⊢Skin | Skin Irritant Poison B Unknown | Sample Disposal (A fee may be assessed). Return to Client (Disposal By Lah | Lab Archive For Months | |
| Second Second | 0W Sedena #E203631 | | | |
| 1 | Company: Date/Time: 05/02/23 | 1266 Received by Cold | Shoop Company | 12/ 12/ 120v |
| h | Company, ARCADIS 3/6/23/ | Regard by | Confession | Date/Time: / 0433 |
| | Company Date Time: 3/6/75 | 1000 (Received in Laboratory by | Vancle PETOL | 3973 1000 |
| 0000 Testkrenca I aboratorea. Pr.: All rights reserved. Leskhanca & Libergi " are tendermata, of leskhanca Latoratorea, frc. | | | | |

| | Date/I ime VOAs Frozen: | VOA Sample Preservation - |
|---|--|--|
| | | |
| Control on in the passage land | Preservative(s) added/Lot number(s): | Sample(s) Time preserved: |
| her preserved in the laboratory. | hid araw | (3) alume 2 |
| | NOILY | 70. SAMPLE PRESERVA |
| (| | (c)ardyrna |
| in a broken container. diameter. (Notify PM) | were received with bubble >6 mm in | Sample(s) |
| | were received after the recommended holding | Sample(s) |
| | | 19. SAMPLE CONDITIO |
| | | |
| | | |
| | | |
| | | |
| | | |
| Samples processed by: | Y & SAMPLE DISCREPANCIES | 18. CHAIN OF CUSTOD |
| | | |
| | | Concerning |
| ice Mail Other | Date by via Verbal Vo | Contacted PM |
| radtO lieM agi | old ledge V ein vid etell | Md betestac? |
| (N) | | 17. Was a LL Hg or Me Hg |
| ON | present in the cooler(s)? Trip Blank Lot # | |
| AN ON | | 14. Were VOAs on the CO15. Were air bubbles >6 m |
| No (NA pH Strip Lot# HC293086 | ple(s) at the correct pH upon receipt? Yes | |
| your and the real of the real | have been checked at the originating laboratory. | |
| (oN) | mples and all listed on the COC? | |
| ON | ved to perform indicated analyses? | |
| No | he COC specify preservatives (VN) , # of containers (YN) , and say sed for the test(s) indicated? | |
| on | (Yes (D/Date/Time) be reconciled with the COC? | |
| 0 | good condition (Unbroken)? | 7. Did all bottles arrive in |
| °N. | who collected the samples clearly identified on the COC? | |
| OV 0/V | Straight of State of the State of the State of S | |
| Oll and Grease | | Shippers' packing slip at Did custody papers acco |
| AN ON ON | y seals intact and uncompromised? | |
| No Receiving: | y seals on the bottle(s) or bottle kits (LLHg/MeHg)? | -Were tamper/custody |
| No No Checked for pH by | contraide of the cooler(s) signed & dated? | |
| oN (| eals on the outside of the cooler(s)? If Yes Quantity | |
| | | IK GUN # IK-17 (CF |
| | | IR GUN # IR-13 (CF |
| | Tocceipt See Multiple Cooler Form | l. Cooler temperature upo |
| | Vet Ice Blue Ice Dry Ice Water None | , |
| | | Packing material used: |
| | -off Date/Time Storage Location Foam Box Other | Receipt After-hours: Drop Eurofins Cooler # |
| ., | PS FAS Clipper Client Drop Off Eurofins Courier Other | |
| MAChelle HALLEL | Opened on S | Cooler Received on |
| Cooler unpacked by: | Site Name | Clien4/CQQQ15 |
| d Ladiananalian | | Barberton Facility |
| | le Receipt Form/Narrative Login # : | Eurofins - Canton Sampl |

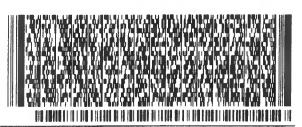
A8505

SHIP DATE: OGMAR23 CAD: 0183192/CAFE3616

BIFF RECIPIENT

sniforus 😲

BARBERTON OH 44203



PRIORITY OVERNIGHT TUE - 07 MAR 10:30

OSOI 0180 1341 8202

OH-NE CFE 44203

P4 CAKA



DATA VERIFICATION REPORT



March 20, 2023

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

CADENA project ID: E203631

Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater

Project number: 30167538.402.04 off-site

Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Barberton

Laboratory submittal: 181473-1 Sample date: 2023-03-03

Report received by CADENA: 2023-03-20

Initial Data Verification completed by CADENA: 2023-03-20

Number of Samples:5 Sample Matrices:Water Test Categories:GCMS VOC

Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Valid Qualifiers

| Valid Qualifiers | Description |
|---------------------|--|
| < | Less than the reported concentration. |
| > | Greater than the reported concentration. |
| 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: 181473-1

| | | Sample Name: Lab Sample ID: | | 4731 | | | 2401814 | | 23 | | MW-142 2401814 | - 1733 | 23 | | 240181 | | | | DUP-08_ 2401814 | - 1735 | | |
|-----------------------|--------------------------|--------------------------------|---------|--------|-------|-----------|---------|--------|-------|-----------|-------------------|-----------|-------|-----------|---------|--------|-------|-----------|--------------------|-----------|-------|-----------|
| | | Sample Date: | 3/3/202 | | | | 3/3/202 | | | | 3/3/202 | | | | 3/3/202 | | | | 3/3/202 | | | |
| | | | | Report | | Valid | | Report | | Valid | | Report | | Valid | | Report | | Valid | | Report | | Valid |
| | Analyte | Cas No. | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier |
| GC/MS VOC OSW-8260 | חמ | | | | | | | | | | | | | | | | | | | | | |
| <u>0544 0200</u> | 1.1-Dichloroethene | 75-35-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | cis-1,2-Dichloroethene | 156-59-2 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | Tetrachloroethene | 127-18-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | trans-1,2-Dichloroethene | 156-60-5 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | Trichloroethene | 79-01-6 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | Vinyl chloride | 75-01-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | 4.6 | 1.0 | ug/l | | 4.5 | 1.0 | ug/l | |
| OSW-8260 | <u>DDSIM</u> | | | | | | | | | | | | | | | | | | | | | |
| | 1,4-Dioxane | 123-91-1 | | | | | ND | 2.0 | ug/l | | ND | 2.0 | ug/l | | ND | 2.0 | ug/l | | ND | 2.0 | ug/l | |



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-181473-1

CADENA Verification Report: 2023-03-20

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49101R Review Level: Tier III Project: 30167538.601.01

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-181473-1 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 | ılysis |
|----------------|--------------|--------|-------------------|---------------|-----|---------|
| Sample ID | Lab ID | Matrix | Date | Parent Sample | VOC | VOC SIM |
| TRIP BLANK_35 | 240-181473-1 | Water | 03/03/2023 | | Х | |
| MW-108S_030323 | 240-181473-2 | Water | 03/03/2023 | | Х | Х |
| MW-142S_030323 | 240-181473-3 | Water | 03/03/2023 | | Х | Х |
| MW-85_030323 | 240-181473-4 | Water | 03/03/2023 | | Х | Х |
| DUP-08_030323 | 240-181473-5 | Water | 03/03/2023 | MW-85_030323 | Х | Х |

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 |
| Sample receipt condition | | Х | | Х | |
| 2. Requested analyses and sample results | | X | | X | |
| Master tracking list | | Х | | Х | |
| 4. Methods of analysis | | Х | | Х | |
| 5. Reporting limits | | Х | | Х | |
| 6. Sample collection date | | Х | | Х | |
| 7. Laboratory sample received date | | Х | | Х | |
| 8. Sample preservation verification (as applicable) | | Х | | Х | |
| Sample preparation/extraction/analysis dates | | Х | | Х | |
| 10. Fully executed Chain-of-Custody (COC) form | | Х | | Х | |
| Narrative summary of Quality Assurance or sample problems provided | | Х | | Х | |
| 12. Data Package Completeness and Compliance | | Х | | Х | |

ORGANIC ANALYSIS INTRODUCTION

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

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

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

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

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

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

| Method | Matrix | Holding Time | Preservation |
|------------------------|--------|-------------------------------------|---------------------------------|
| SW-846 8260D/8260D-SIM | Water | 14 days from collection to analysis | Cool to < 6 °C; pH < 2 with HCl |

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing 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.

Results for duplicate samples are summarized in the following table.

| Sample ID/Duplicate ID | Compound | Sample Result | Duplicate Result | RPD |
|------------------------------|----------------|------------------|---------------------|-----|
| MW-85_030323 / DUP-08_030323 | Vinyl chloride | 4.6 | 4.5 | AC |

Notes:

AC = Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

| VOCs: 8260D/8260D-SIM | Rep | orted | | rmance eptable | Not |
|---|-------|-------|----|-------------------|----------|
| | No | Yes | No | Yes | Required |
| GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G | C/MS) | | | | |
| Tier II Validation | | | | | |
| Holding times/Preservation | | Х | | Х | |
| Tier III Validation | | | | | |
| System performance and column resolution | | Х | | Х | |
| 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 | | X | |
| E. Reporting limits adjusted to reflect sample dilutions | | Х | | Х | |

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Prashanth K

SIGNATURE:

DATE: March 28, 2023

PEER REVIEW: Andrew Korycinski

DATE: March 28, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record

MICHIGAN 190

| | estAmerica Labora | atory location: | Brig | hton - | 104 | 48 Citation | on Dri | ve, Su | iite 2 | 00 / | Brigh | ton, | MI 48 | 116 | / 810 | -229- | 2763 | | | | - | | _ | | THE LEADER IN ENVI | RONNIENTAL TEST |
|---|-------------------|-----------------|--------|---------|----------|-------------|--------|------------|----------|--------|--------|--------|--------|------------|----------|----------|-------------------|---------------|-----------|-----------|----------------|-------------|--------|----|---------------------|------------------------|
| Client Contact | Regula | tory program: | | | _ D | W | | NPDE | ES | | ┌ R | CR/ | | Г | Oth | er | | | | | | | | | | |
| Company Name: Arcadis | Client Project | Manager: Kris | Hinek | (ev | | | Site | Conta | ct. C | hele | tine l | Van | /AT | | | _ | Lab | Comto | os. Mi | lea Dal | Monic | | | | TestAmerica I | aboratories, |
| Address: 28550 Cabot Drive, Suite 500 | | | | | | | | | | | | | · ei | | | | | | | | | | | | COC No: | |
| City/State/Zip: Novi, MI, 48377 | Telephone: 248 | 1-994-2240 | | | | | Tele | phone | : 248 | R-994 | 1-2240 |) | | | | | Tele | phone | 330- | 197-93 | 96 | | | | 1 of 1 | COCs |
| | Email: kristoff | er.hinskey@ar | cadis. | .com | | | | Analy | sis T | urna | round | Tin | ne | | | | | | | Α | naly | ses | | | For lab use only | COCS |
| Phone: 248-994-2240 | Sampler Name | | | _ | | | TAT | if differ | tunt for | om hal | onv | | | | | | | | | | | | | TT | Walk-in client | |
| Project Name: Ford LTP Off-Site | | C 1 | 4 | ~)'a | , | | | 0 day | | 3 | week | | | | | | | | | | | | | | Lab sampling | 1)-000 |
| Project Number: 30167538.402.04 | Method of Ship | ment/Carrier: | | | | | 1 | o day | | F 1 | week | | | î | ပူ | | | | | | | SIM | | | rao sampung | |
| PO # 30167538.402.04 | Shipping/Track | ding No: | | | | | 1 | | | 1 | | | | de (Y / N) | C/Grab=G | <u>_</u> | 260B | E 8260B | | | 82608 | 8260B | | | Job/SDG No: | |
| | | | | | Matri | | | Conta | luers | & Pr | reserv | ative | | a mb | 4 | 8260B | SE 8 | Ş | 8 | m | oride | ne 8 | | | | |
| Sample Identification | Sample Date | Sample Time | Air | Aqueous | Sediment | Other: | H2SOH | HN03 | HCI | NaOH | NaOH | Capres | | Filtered ! | Composit | 1,1-DCE | cis-1,2-DCE 8260B | Trans-1,2-DCE | PCE 8260B | TCE 8260B | Vinyl Chloride | 1,4-Dioxane | | | | netructions: |
| TRIP BLANK_35 | 3/3/23 | | | 1 | Ī | | | | 1 | | | | | N | G | Х | Х | Х | X | X | X | | Т | | 1 Trip Bla | ank |
| WM-1081-030353 | 0303123 | 0840 | | 6 | | | | 1 | 6 | | | | | 1 | | X | X | X | x | X | 火 | X | | | 3 VOAs for | r 8260B r 8260B SIM |
| MW-1425-030353 | 03/03/13 | 0940 | | 6 | | | | | S | | | T | | | N | X | X | λ | X | X | X | 4 | Г | | | |
| MW-85_030723 | 03/03/23 | 1045 | | 6 | | | | 6 | | | | T | | ļ | | Y. | χ | X | X | X | X | X | Т | | | |
| N4P-08 | 03/07/3 | - | | 6 | | | | | 6 | | | | | | | X | X | X | X | X | X | X | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | 24 | 10-18 | 3147 | 3 Ch | ain c | f Cu | stod | y | - | | |
| Possible Hazard Identification Non-Hazard Flammable Skin I | rritant Poisc | on B | Unk | BOU'D. | | | S | ample R | | | | | y be a | | | 1.4 | | | rchive | ć. I | | | lonths | | | |
| Special Instructions/QC Requirements & Comments Sample Address: Submit all results through Cadena at itomalia@caden | Λ | | Clik | ilowii | | | | 1 1 | cturi | rioc | nem | | | ispos | al Dy | Lati | | | Jeniye | ror | | M | ondis | | | |
| Level IV Reporting requested, Relinquished by: | Company: | _ | | Dato/ | Time | | | | In | | and he | | | | | | | | | i 0 | | | | | | |
| Relinquished by: | Company | dis | | | Time: | 125/ | 12 | 26 | | A | 666 | 15 | | fol | 1 | 5 | Lu | ra | 90 | Comp | K. | <u> ح</u> م | la l | ŕ | OS/ OS/rd | 1200 |
| (and the | AR | CADIS | | Date/ | 61 | 13/ | _ | | ľ | 16 | | U | | | | 1 | | • | | Com | 511 | 1 | | | Date/Time: 3/6/73 / | Day |
| Relinquished by: | Company | 1 | | Date/ | Fime: | 35 | 100 | 00 (| 1 | Recej | Ved A | Lal | Ce | 18 | | V | u | 20 | E | Соп | Pany: | 3 | 八 | 50 | 3723 | 1000 |
| 62008 TestAmerica Laboratorias Inc. All stobbs resecued | | | | / | | | | | 1 | K | | | | | | 1 | | | | | | | | | | |











Client: ARCADIS U.S., Inc. Job ID: 240-181473-1

Project/Site: Ford LTP - Off Site

Date Received: 03/07/23 10:00

Client Sample ID: TRIP BLANK_35

Lab Sample ID: 240-181473-1 Date Collected: 03/03/23 00:00

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|---------------------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/11/23 15:54 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/11/23 15:54 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/11/23 15:54 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/11/23 15:54 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/11/23 15:54 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/11/23 15:54 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 92 | | 62 - 137 | | | - | | 03/11/23 15:54 | 1 |
| 4-Bromofluorobenzene (Surr) | 113 | | 56 ₋ 136 | | | | | 03/11/23 15:54 | 1 |
| Toluene-d8 (Surr) | 99 | | 78 - 122 | | | | | 03/11/23 15:54 | 1 |
| Dibromofluoromethane (Surr) | 91 | | 73 - 120 | | | | | 03/11/23 15:54 | 1 |

Eurofins Canton

Client: ARCADIS U.S., Inc. Job ID: 240-181473-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-108S_030323

Date Collected: 03/03/23 08:40 Date Received: 03/07/23 10:00

Dibromofluoromethane (Surr)

Lab Sample ID: 240-181473-2

03/11/23 16:17

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/16/23 15:23 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 84 | | 66 - 120 | | | - | | 03/16/23 15:23 | 1 |
| Method: SW846 8260D - Volati | ile Organic Comp | ounds by G | C/MS | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/11/23 16:17 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/11/23 16:17 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/11/23 16:17 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/11/23 16:17 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/11/23 16:17 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/11/23 16:17 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 93 | | 62 - 137 | | | _ | | 03/11/23 16:17 | 1 |
| 4-Bromofluorobenzene (Surr) | 114 | | 56 - 136 | | | | | 03/11/23 16:17 | 1 |
| Toluene-d8 (Surr) | 97 | | 78 - 122 | | | | | 03/11/23 16:17 | 1 |

73 - 120

Client: ARCADIS U.S., Inc. Job ID: 240-181473-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-142S_030323

Lab Sample ID: 240-181473-3 Date Collected: 03/03/23 09:40

Matrix: Water

03/11/23 16:40

03/11/23 16:40

03/11/23 16:40

Date Received: 03/07/23 10:00

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

| Method: SW846 8260D SIM - \ | Volatile Organic C | ompounds | (GC/MS) | | | | | | |
|----------------------------------|--------------------|------------|----------|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/16/23 15:47 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 80 | | 66 - 120 | | | - | | 03/16/23 15:47 | 1 |
| - Method: SW846 8260D - Volat | tile Organic Comp | ounds by G | C/MS | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/11/23 16:40 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/11/23 16:40 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/11/23 16:40 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/11/23 16:40 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/11/23 16:40 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/11/23 16:40 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 92 | | 62 - 137 | | | _ | | 03/11/23 16:40 | 1 |

56 - 136

78 - 122

73 - 120

112

98

Client: ARCADIS U.S., Inc. Job ID: 240-181473-1

Project/Site: Ford LTP - Off Site

Date Received: 03/07/23 10:00

Dibromofluoromethane (Surr)

Client Sample ID: MW-85_030323

Lab Sample ID: 240-181473-4 Date Collected: 03/03/23 10:45

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------------|------------|---------------------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/16/23 16:11 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 85 | | 66 - 120 | | | - | | 03/16/23 16:11 | 1 |
| Method: SW846 8260D - Volati | le Organic Comp | ounds by G | ic/MS | | | | | | |
| Analyte | • | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/11/23 17:03 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/11/23 17:03 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/11/23 17:03 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/11/23 17:03 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/11/23 17:03 | 1 |
| Vinyl chloride | 4.6 | | 1.0 | 0.45 | ug/L | | | 03/11/23 17:03 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 62 - 137 | | | _ | | 03/11/23 17:03 | 1 |
| 4-Bromofluorobenzene (Surr) | 114 | | 56 ₋ 136 | | | | | 03/11/23 17:03 | 1 |
| Toluene-d8 (Surr) | 99 | | 78 ₋ 122 | | | | | 03/11/23 17:03 | 1 |

73 - 120

3/17/2023

03/11/23 17:03

Client: ARCADIS U.S., Inc. Job ID: 240-181473-1

Project/Site: Ford LTP - Off Site

Client Sample ID: DUP-08_030323

Lab Sample ID: 240-181473-5 Date Collected: 03/03/23 00:00

Matrix: Water

03/11/23 17:27

Date Received: 03/07/23 10:00

Dibromofluoromethane (Surr)

| Method: SW846 8260D SIM - \ | /olatile Organic C | ompounds | (GC/MS) | | | | | | |
|----------------------------------|--------------------|-----------|----------|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/16/23 16:36 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 76 | | 66 - 120 | | | | | 03/16/23 16:36 | 1 |
| _ Method: SW846 8260D - Volat | | • | 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 | | | 03/11/23 17:27 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/11/23 17:27 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/11/23 17:27 | 1 |

| trans-1,2-Dichloroethene | 1.0 U | 1.0 | 0.51 ug/L | | 03/11/23 17:27 | 1 |
|------------------------------|---------------------|---------------------|-----------|----------|----------------|---------|
| Trichloroethene | 1.0 U | 1.0 | 0.44 ug/L | | 03/11/23 17:27 | 1 |
| Vinyl chloride | 4.5 | 1.0 | 0.45 ug/L | | 03/11/23 17:27 | 1 |
| Surrogate | %Recovery Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 94 | 62 - 137 | | | 03/11/23 17:27 | 1 |
| 4-Bromofluorobenzene (Surr) | 114 | 56 ₋ 136 | | | 03/11/23 17:27 | 1 |
| Toluene-d8 (Surr) | 99 | 78 122 | | | 03/11/23 17:27 | 1 |

73 - 120