PREPARED FOR

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

Generated 11/27/2023 4:42:49 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-195396-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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Authorization

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Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-195396-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-195396-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

U Indicates the analyte was analyzed for but not detected.

Glossary

Dil Fac

| 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 |

CFU Colony Forming Unit
CNF Contains No Free Liquid
DER Duplicate Error Ratio (normalized absolute difference)

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)

Dilution Factor

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

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Case Narrative

Client: ARCADIS US Inc

Project/Site: Ford LTP - Off Site

Job ID: 240-195396-1

Job ID: 240-195396-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-195396-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 11/14/2023 10:00 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 3.2°C and 3.4°C

GC/MS VOA

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

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Method Summary

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

Job ID: 240-195396-1

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

Protocol References:

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

Laboratory References:

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

11/27/2023

Sample Summary

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Job ID: 240-195396-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 240-195396-1 | TRIP BLANK_131 | Water | 11/10/23 00:00 | 11/14/23 10:00 |
| 240-195396-2 | MW-146S_111023 | Water | 11/10/23 10:40 | 11/14/23 10:00 |

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Detection Summary

Client: ARCADIS US Inc Job ID: 240-195396-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_131

Lab Sample ID: 240-195396-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-195396-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_131

Lab Sample ID: 240-195396-1 Date Collected: 11/10/23 00:00

Matrix: Water

Date Received: 11/14/23 10:00

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|---------------------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/19/23 16:48 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/19/23 16:48 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 16:48 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/19/23 16:48 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 16:48 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/19/23 16:48 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 62 - 137 | | | _ | | 11/19/23 16:48 | 1 |
| 4-Bromofluorobenzene (Surr) | 84 | | 56 ₋ 136 | | | | | 11/19/23 16:48 | 1 |
| Toluene-d8 (Surr) | 104 | | 78 - 122 | | | | | 11/19/23 16:48 | 1 |
| Dibromofluoromethane (Surr) | 93 | | 73 - 120 | | | | | 11/19/23 16:48 | 1 |

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-195396-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-146S_111023

Lab Sample ID: 240-195396-2 Date Collected: 11/10/23 10:40

Matrix: Water

Date Received: 11/14/23 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 | | | 11/24/23 18:18 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 66 - 120 | | | - | | 11/24/23 18:18 | 1 |
| - Method: SW846 8260D - Volat | ile Organic Comp | ounds by G | 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 | | | 11/19/23 17:12 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/19/23 17:12 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 17:12 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/19/23 17:12 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 17:12 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/19/23 17:12 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 62 - 137 | | | - | | 11/19/23 17:12 | 1 |
| 4-Bromofluorobenzene (Surr) | 87 | | 56 ₋ 136 | | | | | 11/19/23 17:12 | 1 |
| Toluene-d8 (Surr) | 106 | | 78 ₋ 122 | | | | | 11/19/23 17:12 | 1 |

73 - 120

11/19/23 17:12

Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-195396-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

| | | | | Percent Sur | rrogate Recovery | |
|--------------------|------------------------|----------|----------|-------------|------------------|--|
| | | DCA | BFB | TOL | DBFM | |
| Lab Sample ID | Client Sample ID | (62-137) | (56-136) | (78-122) | (73-120) | |
| 240-195284-B-4 MS | Matrix Spike | 98 | 90 | 104 | 95 | |
| 240-195284-B-4 MSD | Matrix Spike Duplicate | 100 | 90 | 106 | 96 | |
| 240-195396-1 | TRIP BLANK_131 | 101 | 84 | 104 | 93 | |
| 240-195396-2 | MW-146S_111023 | 105 | 87 | 106 | 95 | |
| LCS 240-595140/5 | Lab Control Sample | 102 | 89 | 107 | 98 | |
| MB 240-595140/9 | Method Blank | 107 | 88 | 107 | 98 | |
| 0 | | | | | | |

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) | |
| 240-195396-2 | MW-146S_111023 | 97 | |
| 240-195409-G-3 MS | Matrix Spike | 95 | |
| 240-195409-M-3 MSD | Matrix Spike Duplicate | 96 | |
| LCS 240-595685/4 | Lab Control Sample | 99 | |
| MB 240-595685/5 | Method Blank | 100 | |

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

Job ID: 240-195396-1

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

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

Lab Sample ID: MB 240-595140/9

Matrix: Water

Analysis Batch: 595140

Client Sample ID: Method Blank

Prep Type: Total/NA

| | MB | MB | | | | | | | |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/19/23 15:12 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/19/23 15:12 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 15:12 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/19/23 15:12 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 15:12 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/19/23 15:12 | 1 |
| | | | | | | | | | |

MB MB

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|---------------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 107 | 62 - 137 | | 11/19/23 15:12 | 1 |
| 4-Bromofluorobenzene (Surr) | 88 | 56 - 136 | | 11/19/23 15:12 | 1 |
| Toluene-d8 (Surr) | 107 | 78 - 122 | | 11/19/23 15:12 | 1 |
| Dibromofluoromethane (Surr) | 98 | 73 - 120 | | 11/19/23 15:12 | 1 |

Lab Sample ID: LCS 240-595140/5

Matrix: Water

Analysis Batch: 595140

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 | 17.8 | - | ug/L | | 89 | 63 - 134 | |
| cis-1,2-Dichloroethene | 20.0 | 17.2 | | ug/L | | 86 | 77 - 123 | |
| Tetrachloroethene | 20.0 | 19.7 | | ug/L | | 99 | 76 - 123 | |
| trans-1,2-Dichloroethene | 20.0 | 17.0 | | ug/L | | 85 | 75 - 124 | |
| Trichloroethene | 20.0 | 16.8 | | ug/L | | 84 | 70 - 122 | |
| Vinyl chloride | 20.0 | 19.9 | | ug/L | | 100 | 60 - 144 | |
| | | | | | | | | |

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 62 _ 137 |
| 4-Bromofluorobenzene (Surr) | 89 | | 56 - 136 |
| Toluene-d8 (Surr) | 107 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 98 | | 73 - 120 |

Lab Sample ID: 240-195284-B-4 MS

Matrix: Water

Analysis Batch: 595140

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 | 20 | U | 400 | 335 | | ug/L | | 84 | 56 - 135 |
| cis-1,2-Dichloroethene | 510 | | 400 | 853 | | ug/L | | 85 | 66 - 128 |
| Tetrachloroethene | 20 | U | 400 | 371 | | ug/L | | 93 | 62 - 131 |
| trans-1,2-Dichloroethene | 20 | U | 400 | 336 | | ug/L | | 84 | 56 - 136 |
| Trichloroethene | 20 | U | 400 | 324 | | ug/L | | 81 | 61 - 124 |
| Vinyl chloride | 380 | | 400 | 769 | | ug/L | | 96 | 43 - 157 |

MS MS

| Surrogate | %Recovery (| Qualifier | Limits |
|------------------------------|-------------|-----------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 90 | | 56 - 136 |
| Toluene-d8 (Surr) | 104 | | 78 - 122 |

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Project/Site: Ford LTP - Off Site

Client: ARCADIS US Inc Job ID: 240-195396-1

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

MS MS

Lab Sample ID: 240-195284-B-4 MS

Matrix: Water

Analysis Batch: 595140

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 95 73 - 120

Lab Sample ID: 240-195284-B-4 MSD

Matrix: Water

Analysis Batch: 595140

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

| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
|--------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| 1,1-Dichloroethene | 20 | U | 400 | 355 | | ug/L | | 89 | 56 - 135 | 6 | 26 |
| cis-1,2-Dichloroethene | 510 | | 400 | 878 | | ug/L | | 91 | 66 - 128 | 3 | 14 |
| Tetrachloroethene | 20 | U | 400 | 398 | | ug/L | | 99 | 62 - 131 | 7 | 20 |
| trans-1,2-Dichloroethene | 20 | U | 400 | 363 | | ug/L | | 91 | 56 - 136 | 8 | 15 |
| Trichloroethene | 20 | U | 400 | 349 | | ug/L | | 87 | 61 - 124 | 7 | 15 |
| Vinyl chloride | 380 | | 400 | 760 | | ug/L | | 94 | 43 - 157 | 1 | 24 |

MSD MSD Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 100 62 - 137 4-Bromofluorobenzene (Surr) 90

56 - 136 Toluene-d8 (Surr) 106 78 - 122 Dibromofluoromethane (Surr) 96 73 - 120

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

MR MR

Lab Sample ID: MB 240-595685/5

Matrix: Water

Analysis Batch: 595685

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 11/24/23 13:54 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 100 66 - 120 11/24/23 13:54

Lab Sample ID: LCS 240-595685/4

Analysis Batch: 595685

Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 10.0 10.1 ug/L 101 80 - 122

LCS LCS %Recovery Qualifier Surrogate Limits 66 - 120 1,2-Dichloroethane-d4 (Surr) 99

Lab Sample ID: 240-195409-G-3 MS

Matrix: W

Analysis

| nple ID: 240-195409-G-3 MS | } | | | | Client Sample ID: Matrix Spike |
|----------------------------|--------|---------|--------|-------|--------------------------------|
| Water | | | | | Prep Type: Total/NA |
| s Batch: 595685 | | | | | |
| | Camala | Camania | Cmiles | MC MC | 0/ Doo |

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,4-Dioxane 2.0 U 10.0 12.4 ug/L 124 51 - 153

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QC Sample Results

Client: ARCADIS US Inc Job ID: 240-195396-1

Project/Site: Ford LTP - Off Site

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

| | MS | MS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 66 - 120 |

| Lab Sample | ID: 240-195409-M- | 3 MSD |
|------------|-------------------|-------|
|------------|-------------------|-------|

Matrix: Water

| Analysis Batch: 595685 | | | | | | | | | | | |
|------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| | 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 | 11.3 | | ug/L | | 113 | 51 - 153 | 9 | 16 |

MSD MSD

 Surrogate
 %Recovery
 Qualifier
 Limits

 1,2-Dichloroethane-d4 (Surr)
 96
 66 - 120

ID: 040 405000 4

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

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QC Association Summary

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

Job ID: 240-195396-1

GC/MS VOA

Analysis Batch: 595140

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batcl |
|--------------------|------------------------|-----------|--------|--------|------------|
| 240-195396-1 | TRIP BLANK_131 | Total/NA | Water | 8260D | |
| 240-195396-2 | MW-146S_111023 | Total/NA | Water | 8260D | |
| MB 240-595140/9 | Method Blank | Total/NA | Water | 8260D | |
| LCS 240-595140/5 | Lab Control Sample | Total/NA | Water | 8260D | |
| 240-195284-B-4 MS | Matrix Spike | Total/NA | Water | 8260D | |
| 240-195284-B-4 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D | |

Analysis Batch: 595685

| Lab Sample ID 240-195396-2 | Client Sample ID MW-146S_111023 | Prep Type Total/NA | Water | Method Prep Batch 8260D SIM |
|-------------------------------|----------------------------------|-----------------------|-------|--------------------------------|
| MB 240-595685/5 | Method Blank | Total/NA | Water | 8260D SIM |
| LCS 240-595685/4 | Lab Control Sample | Total/NA | Water | 8260D SIM |
| 240-195409-G-3 MS | Matrix Spike | Total/NA | Water | 8260D SIM |
| 240-195409-M-3 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D SIM |

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-195396-1

Project/Site: Ford LTP - Off Site

Date Received: 11/14/23 10:00

Client Sample ID: TRIP BLANK_131

Analysis

Lab Sample ID: 240-195396-1 Date Collected: 11/10/23 00:00

Matrix: Water

Dilution Batch Batch Batch Prepared Method Prep Type Туре Run Factor **Number Analyst** Lab or Analyzed

Client Sample ID: MW-146S_111023 Lab Sample ID: 240-195396-2

Date Collected: 11/10/23 10:40 **Matrix: Water**

595140 HMB

EET CLE

11/19/23 16:48

Date Received: 11/14/23 10:00

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 595140 | НМВ | EET CLE | 11/19/23 17:12 |
| Total/NA | Analysis | 8260D SIM | | 1 | 595685 | CS | EET CLE | 11/24/23 18:18 |

Laboratory References:

Total/NA

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

8260D

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 240-195396-1 Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Cleveland

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

| Authority | Program | Identification Number | Expiration Date |
|-----------------------|---------|-----------------------|-----------------|
| California | State | 2927 | 02-27-24 |
| Georgia | State | 4062 | 02-27-24 |
| Illinois | NELAP | 200004 | 07-31-24 |
| lowa | State | 421 | 06-01-25 |
| Kentucky (UST) | State | 112225 | 02-28-24 |
| Kentucky (WW) | State | KY98016 | 12-31-23 |
| Michigan | State | 9135 | 02-27-24 |
| Minnesota | NELAP | 039-999-348 | 12-31-23 |
| Minnesota (Petrofund) | State | 3506 | 08-01-23 * |
| New Jersey | NELAP | OH001 | 07-01-24 |
| New York | NELAP | 10975 | 04-02-24 |
| Ohio | State | 8303 | 02-27-24 |
| Ohio VAP | State | ORELAP 4062 | 02-27-24 |
| Oregon | NELAP | 4062 | 02-27-24 |
| Pennsylvania | NELAP | 68-00340 | 08-31-24 |
| Texas | NELAP | T104704517-22-19 | 08-31-24 |
| Virginia | NELAP | 460175 | 09-14-24 |
| West Virginia DEP | State | 210 | 12-31-23 |

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

| | Chain | Chain of Custody Record | MICHIGAN | TestAmerica |
|---|--|--|---|--|
| Client Contact | | □ NPDES □ RCRA □ Other | | |
| Company Name: Arcadis | | | | TestAmerica Laboratories, Inc. |
| Address: 28550 Cabot Drive, Suite 500 | Clent Project Manager: Kris Hinskey | Site Contact: Christina Weaver | Lab Contact: Mike DelMonico | COC No: |
| Cler (Cond. (72) - No. 1 A0277 | Telephone: 248-994-2240 | Telephone: 248-994-2240 | Telephone: 330-497-9396 | |
| CHY/State/Zp: NOVI, WII, 46377 | Email: kristoffer.hinskey@arcadis.com | Analysis Turnaround Time | Analyses | for lab use only |
| Phone: 248-994-2240 | Sampler Name: | TAT if different from below | | Walk-in client |
| Project Name: Ford LTP Off-Site | 4000 VITOCO | 3 weeks | | 0.00 |
| Project Number: 30167538.402.04 | er: | ☐ 1 week ☐ 2 dave | { | ran samping |
| PO# 30167538.402.04 | Shipping/Tracking No: | e (Y / | 8560B | Job/SDG No: |
| | Matrix |)=1 | B B DCE | |
| Sample Identification | Sample Date Sample Time Ab Aqueous Soild | Ellisted 2: Linesed 2: Linesed 2: Linesed 3: Linesed 4: Linesed 3: Linesed 4: | 4,1-DCE 8 Cis-1,2-DC Trans-1,2- PCE 8260 Vinyl Chlor 1,4-Dioxar | Sample Specific Notes / Special Instructions: |
| TRIP BLANK_ [3] | 1 | | ××××××××××××××××××××××××××××××××××××××× | 1 Trip Blank |
| MUJ-1465_11023 | 11/19/23 1040 6 | 9 N | メメババス | 3 VOAs for 8260B 3 VOAs for 8260B SIM |
| Page 18 | | | | |
| of 20 | | | | |
| | | | | |
| | | 240-195 | 240-195396 Chain of Custody | |
| | | | | |
| Possible Hazard Identification Non-Hazard | Skin Irritant Poison R Intravan | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Desires of Figure 1 miles of the proper than 1 month 1 m | imples are retained longer than 1 month) | |
| VQC Requirements & Commen through Cadena at flomalia g requested. | 3467 | Capitol St. | ao i Arenive For i Months | |
| Relinquished by Alaim Diffia | | Now Cold Stolk of Mill 11/10/23 | 1530 | Date 7 inc. 52 52 |
| Relinquished by: | | 283 S Received by: UNI | Company: EEM | Date/Tithe: 7 |
| | Eth 1113123 | | MG EETUC | 11.14.23 1000 |
| 1 COUNT THE STREET STREET INC. AS CONTINUED INC. | | | | |

Page 19 of 20

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11

| - | | |
|-------|---|--|
| Login | # | |

| Cooler | Desci | ription | IR Gun # | n Sample Receipt M Observed | Corrected | Coolant |
|-----------|------------|---------|--------------|--------------------------------|-------------|---------------------------------------|
| | Circle | | (Circle) | Temp °C | Temp °C | (Circle) |
| EC Che | | | IR GUN #: 21 | 3.2 | 3.9 | Wellice Blue Ice D Water None |
| EC Clier | of Box | Other | IR GUN F:, | 3-0 | 3.2 | Wellice Blue Ice D Water None |
| EC Cller | d Box | Other | IR GUN #: | | | Wellce Blve Ice D |
| tC Cller | d Box | | IR GUN #: | | | Water None Wette Sive Ice Dr |
| EC Cller | | | IR GUN #: | | | Water Mone Wat Ice Dive Ice Dr |
| EC Clien | | | IR GUN #: | | | Weler None Wellce Blue Ice Dr |
| EC Clos | | | IR GUN #: | | | Weller Mone |
| EC Clea | | | IR GUN #: | , , | , | Welter Stre too Dr |
| | | | R GUN 9: | | 1 | Weller Mone Weller She Ice Dr |
| | | Other | IR GUN #: | | 1 100 | Water Mana |
| RC Clien | | Other | IR GUN 9: | | | Welling Mone |
| EC Clien | | Other | IR GUN #: | - W | | Water Mana |
| EC Clien | | Other | IR GUN 6: | | | Water Mana |
| EC Clien |) Box | Other | R GUN 6: | | | Weler Hene' |
| IC Clien |) Best | Other | IR GUN F: | | | Water Mone . |
| C Clea |) Box | Other | IR GUN 6: | | | Holes Hone |
| EC Clon |) Box | Other | | | | Note: She |
| EC Clea | Bex | Other | IR GON #: | | 7- | Wet toe the toe By Water Mean |
| ec Clen | 3ex | Other | R GUN #: | · | 1 | Melice Steelice By Melice None |
| EC Clen | Bex | Other | IR GUN 6: | | | Wellice , the los Bry White Mone |
| EC Clien | Bex | Other | R GON #: | | | Wellice Musice Bry |
| RC Client | Box | Other | IR GUN 6: | | | Well to Nee to By |
| Clon | Bex | Other | IX GUN 7: | | | Well too Nee too By |
| IC Client | Bex | Other | R GON F: | | <i>d</i> . | Well to No to by |
| C Clea | Bex | Other | IR GUN F: | | 1290 | Wellice Mee too Bry |
| C Client | Box | Other | IR GUN #: | | | Wolfied Blue Ice Bry |
| C Client | Box | Other | IR GUN F: | , | | Wellce Blue Ice Dry I |
| C Client | Box | Other | IR GUN #: | | 1 | Weller None |
| C Client | Box | Other | IR GWN 6: | | | Wellice Shelice Bry is |
| C Client | Sox | Other. | IR GBM 6: | t rate to | | and the Baylon Baylon |
| C Client | Box | Other | IR GUN 6: | | 1 | Marico Myo leo Say is |
| C Citoni | Box | Other | 12 GUN 6: | | | Helico : No tee Dry to |
| C Client | Box | Other | R GUN #: | | 1 | Wet Ice Stee Ice Dry Ic |
| C Client | Box | Other | IN GON F: | | , , | Welter None Dry to |
| Client | Sex | Other | IR GUN #: | | | Water Make Wellce Stue Ice Dry Ice |
| | JUA | | 7 | | □ See Tempe | Protes None |

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

Ö

DATA VERIFICATION REPORT



November 27, 2023

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

CADENA project ID: E203631

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

Project number: 30167538.402.04 off-site

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

Laboratory submittal: 195396-1 Sample date: 2023-11-10

Report received by CADENA: 2023-11-27

Initial Data Verification completed by CADENA: 2023-11-27

Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC

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

There were no significant QC anomalies or exceptions to report.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, 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 - Cleveland

Laboratory Submittal: 195396-1

| | | Lab Sample ID: 2 | | | TRIP BLANK_131 2401953961 11/10/2023 | | | MW-146S_111023 2401953962 11/10/2023 | | |
|-----------|--------------------------|------------------|--------|--------|--|-----------|--------|--|-------|-----------|
| | | | | Report | | Valid | | Report | | Valid |
| | Analyte | Cas No. | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier |
| GC/MS VOC | | | | | | | | | | |
| OSW-8260 | <u>OD</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 | |
| OSW-8260 | <u>DDSIM</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 # 240-195396-1

CADENA Verification Report: 2023-11-27

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 52153R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-195396-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

| Sample ID | Lab ID | Matrix | Sample | Parent Sample | Ana | lysis |
|----------------|--------------|----------|-----------------|---------------|-----|---------|
| Sample ID | Labib | IVIALITA | Collection Date | Farent Sample | VOC | VOC SIM |
| TRIP BLANK_131 | 240-195396-1 | Water | 11/10/2023 | | Х | |
| MW-146S_111023 | 240-195396-2 | Water | 11/10/2023 | | Х | X |

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

| Items Reviewed | Rep | orted | | mance otable | Not |
|--|-----|-------|----|-----------------|----------|
| | No | Yes | No | Yes | Required |
| Sample receipt condition | | Х | | Х | |
| Requested analyses and sample results | | X | | Х | |
| Master tracking list | | X | | Х | |
| 4. Methods of analysis | | X | | Х | |
| 5. Reporting limits | | X | | Х | |
| 6. Sample collection date | | X | | 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.

A field duplicate sample was not collected for samples from this SDG.

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 | | oorted | | rmance ptable | Not Required |
|---|-------|--------|----|------------------|-----------------|
| | 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 | X | | | | 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 | | X | | 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: Dilip Kumar

SIGNATURE:

DATE: December 15, 2023

PEER REVIEW: Andrew Korycinski

DATE: December 15, 2023

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

MICHIGAN

<u>TestAmerica</u>

Client Contact Regulatory program: □ DW F RCRA □ Other Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico COC No: Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 City/State/Zip: Novi, MI, 48377 1 of 1 COCs Analysis I arnaround Time Email: kristoffer.hinskey@arcadis.com Analyses For lab use only Phone: 248-994-2240 Walk-in client Project Name: Ford LTP Off-Site ☐ 3 weeks 2 weeks Lab sampling Project Number: 30167538.402.04 □ 1 week SIM 8260B ☐ 2 days PO # 30167538.402.04 4-Dioxane 8260B cis-1,2-DCE 8260B Shipping/Tracking No: [I day Job/SDG No: Vinyl Chloride VAIR **FCE 8260B** Sample Specific Notes / H2SO4 HC Special Instructions: Sample Date | Sample Time Sample Identification TRIP BLANK G 1 Trip Blank TUL 3 VOAs for 8260B 1040 6 3 VOAs for 8260B SIM Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) □ Flammable Non-Hazard Skin Irritant Poison B Unknown Disposal By Lab Archive For Special Instructions/QC Requirements & Comments: Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested. Relinquished by: Relinquished by: Relinquished by: Received in Laborator

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-195396-1

Client Sample ID: TRIP BLANK_131

Lab Sample ID: 240-195396-1 Date Collected: 11/10/23 00:00 **Matrix: Water**

Date Received: 11/14/23 10:00

Project/Site: Ford LTP - Off Site

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/19/23 16:48 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/19/23 16:48 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 16:48 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/19/23 16:48 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 16:48 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/19/23 16:48 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 62 - 137 | | | | | 11/19/23 16:48 | 1 |
| 4-Bromofluorobenzene (Surr) | 84 | | 56 - 136 | | | | | 11/19/23 16:48 | 1 |
| Toluene-d8 (Surr) | 104 | | 78 - 122 | | | | | 11/19/23 16:48 | 1 |
| Dibromofluoromethane (Surr) | 93 | | 73 - 120 | | | | | 11/19/23 16:48 | |

Client Sample ID: MW-146S_111023

Date Collected: 11/10/23 10:40

Date Received: 11/14/23 10:00

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

| Method: SW846 8260D SIM - | Volatile Orga | anic Comp | ounds (GC/N | IS) | | | | | |
|--|----------------------|-----------|-----------------|------|------|---|----------|----------------------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 11/24/23 18:18 | 1 |
| Surrogate 1,2-Dichloroethane-d4 (Surr) | %Recovery | Qualifier | Limits 66 - 120 | | | - | Prepared | Analyzed 11/24/23 18:18 | Dil Fac |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|---------------------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 11/19/23 17:12 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 11/19/23 17:12 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 17:12 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 11/19/23 17:12 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 11/19/23 17:12 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 11/19/23 17:12 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 62 - 137 | | | | | 11/19/23 17:12 | 1 |
| 4-Bromofluorobenzene (Surr) | 87 | | 56 ₋ 136 | | | | | 11/19/23 17:12 | 1 |

78 - 122

73 - 120

106

95

11/19/23 17:12

11/19/23 17:12

Lab Sample ID: 240-195396-2

Matrix: Water