ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 8/13/2024 7:33:21 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-208729-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



Eurofins Cleveland

Job Notes

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

Authorization

Generated 8/13/2024 7:33:21 AM

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

Client: Arcadis U.S., Inc. Project/Site: Ford LTP

Laboratory Job ID: 240-208729-1

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Definitions/Glossary

Client: Arcadis U.S., Inc.

Job ID: 240-208729-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA
Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

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Case Narrative

Client: Arcadis U.S., Inc. Project: Ford LTP

Job ID: 240-208729-1 Eurofins Cleveland

Job Narrative 240-208729-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 8/2/2024 12:28 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.6°C, 1.1°C and 1.7°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-622686 was outside the method criteria for the following analyte(s): Vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The matrix spike/matrix spike duplicate (MS/MSD) for samples TRIP BLANK_111 (240-208729-1) and MW-171S_073124 (240-208729-2) was not reported, because the analyte list for these samples did not match the analyte list for the MS/MSD parent sample and needed reanalyzed.

TRIP BLANK 111 (240-208729-1) and MW-171S 073124 (240-208729-2)

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

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Job ID: 240-208729-1

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Method Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208729-1

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

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

8/13/2024

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Sample Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208729-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 240-208729-1 | TRIP BLANK_111 | Water | 07/31/24 00:00 | 08/02/24 12:28 |
| 240-208729-2 | MW-171S_073124 | Water | 07/31/24 15:00 | 08/02/24 12:28 |

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Detection Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208729-1

Client Sample ID: TRIP BLANK_111 Lab Sample ID: 240-208729-1

No Detections.

Client Sample ID: MW-171S_073124 Lab Sample ID: 240-208729-2

No Detections.

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208729-1

Project/Site: Ford LTP

Date Received: 08/02/24 12:28

Client Sample ID: TRIP BLANK_111

Lab Sample ID: 240-208729-1 Date Collected: 07/31/24 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 | | | 08/08/24 15:24 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 08/08/24 15:24 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 08/08/24 15:24 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 08/08/24 15:24 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 08/08/24 15:24 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 08/08/24 15:24 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 62 - 137 | | | - | | 08/08/24 15:24 | 1 |
| 4-Bromofluorobenzene (Surr) | 102 | | 56 ₋ 136 | | | | | 08/08/24 15:24 | 1 |
| Toluene-d8 (Surr) | 99 | | 78 - 122 | | | | | 08/08/24 15:24 | 1 |
| Dibromofluoromethane (Surr) | 104 | | 73 - 120 | | | | | 08/08/24 15:24 | 1 |

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208729-1

Project/Site: Ford LTP

Client Sample ID: MW-171S_073124

Date Collected: 07/31/24 15:00 Date Received: 08/02/24 12:28

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Lab Sample ID: 240-208729-2

08/08/24 18:30

08/08/24 18:30

08/08/24 18:30

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 | | | 08/07/24 13:05 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 68 - 127 | | | - | | 08/07/24 13:05 | 1 |
| - Method: SW846 8260D - Volat | 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 | | | 08/08/24 18:30 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 08/08/24 18:30 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 08/08/24 18:30 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 08/08/24 18:30 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 08/08/24 18:30 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 08/08/24 18:30 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 62 - 137 | | | _ | | 08/08/24 18:30 | |

56 - 136

78 - 122

73 - 120

100

100

107

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Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 240-208729-1

Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

| | | Percent Sur | rogate Rec |
|---|----------|-------------|------------|
| DCA | BFB | TOL | DBFM |
| Lab Sample ID Client Sample ID (62-137) | (56-136) | (78-122) | (73-120) |
| 240-208729-1 TRIP BLANK_111 100 | 102 | 99 | 104 |
| 240-208729-2 MW-171S_073124 103 | 100 | 100 | 107 |
| LCS 240-622686/5 Lab Control Sample 95 | 103 | 98 | 100 |
| MB 240-622686/9 Method Blank 101 | 105 | 103 | 107 |

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 | (68-127) | |
| 240-208691-E-2 MS | Matrix Spike | 99 | |
| 240-208691-E-2 MSD | Matrix Spike Duplicate | 106 | |
| 240-208729-2 | MW-171S_073124 | 104 | |
| LCS 240-622546/4 | Lab Control Sample | 104 | |
| MB 240-622546/6 | Method Blank | 97 | |

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

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Client: Arcadis U.S., Inc. Job ID: 240-208729-1

Project/Site: Ford LTP

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

Lab Sample ID: MB 240-622686/9

Matrix: Water

Analysis Batch: 622686

| 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 | | | 08/08/24 10:56 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 08/08/24 10:56 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 08/08/24 10:56 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 08/08/24 10:56 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 08/08/24 10:56 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 08/08/24 10:56 | 1 |
| | | | | | | | | | |

| | MB | MB | | | | | |
|------------------------------|-----------|-----------|----------|---|----------|----------------|---------|
| Surrogate | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 62 - 137 | _ | | 08/08/24 10:56 | 1 |
| 4-Bromofluorobenzene (Surr) | 105 | | 56 - 136 | | | 08/08/24 10:56 | 1 |
| Toluene-d8 (Surr) | 103 | | 78 - 122 | | | 08/08/24 10:56 | 1 |
| Dibromofluoromethane (Surr) | 107 | | 73 - 120 | | | 08/08/24 10:56 | 1 |
| | | | | | | | |

Lab Sample ID: LCS 240-622686/5

Matrix: Water

Analysis Batch: 622686

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 | 19.5 | - | ug/L | | 97 | 63 - 134 | |
| cis-1,2-Dichloroethene | 20.0 | 21.1 | | ug/L | | 106 | 77 - 123 | |
| Tetrachloroethene | 20.0 | 21.4 | | ug/L | | 107 | 76 - 123 | |
| trans-1,2-Dichloroethene | 20.0 | 19.9 | | ug/L | | 99 | 75 - 124 | |
| Trichloroethene | 20.0 | 21.5 | | ug/L | | 108 | 70 - 122 | |
| Vinyl chloride | 20.0 | 16.2 | | ug/L | | 81 | 60 - 144 | |
| | | | | | | | | |

| | LCS | LCS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 103 | | 56 - 136 |
| Toluene-d8 (Surr) | 98 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 100 | | 73 - 120 |

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

| Lab Sample ID: MB 240-622546/6 | Client Sample ID: Method Blank |
|--------------------------------|--------------------------------|
| Matrix: Water | Prep Type: Total/NA |

| watrix: water | | | | | | | | Prep Type: | otal/NA |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Analysis Batch: 622546 | | | | | | | | | |
| | MB | MB | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 08/07/24 10:44 | 1 |
| | МВ | MB | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 68 - 127 | | | - | | 08/07/24 10:44 | 1 |

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Client: Arcadis U.S., Inc.

Job ID: 240-208729-1

Project/Site: Ford LTP

Lab Sample ID: LCS 240-622546/4

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

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

Matrix: Water
Analysis Batch: 622546

Spike LCS LCS %Rec
Analyte Added Result Qualifier Unit D %Rec Limits

1,4-Dioxane 10.0 8.85 ug/L 89 75 - 121

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 104 68 - 127

Lab Sample ID: 240-208691-E-2 MS Client Sample ID: Matrix Spike

Matrix: Water Prep Type: Total/NA

Analysis Batch: 622546
Sample Sample Spike MS MS

MSD MSD

 Analyte
 Result 1,4-Dioxane
 2.0
 U
 10.0
 8.81
 WS
 WS
 %Rec | %Rec | Limits | D | %Rec | Limits | Unit | Uni

Surrogate %Recovery Qualifier Limits

1,2-Dichloroethane-d4 (Surr) 99 68 . 127

Lab Sample ID: 240-208691-E-2 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water Prep Type: Total/NA Analysis Batch: 622546

Sample Sample Spike MSD MSD %Rec RPD

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit

Result Qualifier Added Qualifier RPD Analyte Result Unit %Rec Limits Limit 1,4-Dioxane 2.0 U 10.0 9.06 ug/L 91 20 - 180 20

Surrogate %Recovery Qualifier Limits
1,2-Dichloroethane-d4 (Surr) 106 68 - 127

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QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208729-1

GC/MS VOA

Analysis Batch: 622546

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 240-208729-2 | MW-171S_073124 | Total/NA | Water | 8260D SIM | |
| MB 240-622546/6 | Method Blank | Total/NA | Water | 8260D SIM | |
| LCS 240-622546/4 | Lab Control Sample | Total/NA | Water | 8260D SIM | |
| 240-208691-E-2 MS | Matrix Spike | Total/NA | Water | 8260D SIM | |
| 240-208691-E-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D SIM | |

Analysis Batch: 622686

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method Prep Batch | ı |
|------------------|--------------------|-----------|--------|-------------------|---|
| 240-208729-1 | TRIP BLANK_111 | Total/NA | Water | 8260D | - |
| 240-208729-2 | MW-171S_073124 | Total/NA | Water | 8260D | |
| MB 240-622686/9 | Method Blank | Total/NA | Water | 8260D | |
| LCS 240-622686/5 | Lab Control Sample | Total/NA | Water | 8260D | |

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-208729-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_111

Lab Sample ID: 240-208729-1 Date Collected: 07/31/24 00:00

Matrix: Water

Dilution Batch Batch Batch Prepared Method Prep Type Туре Run Factor **Number Analyst** Lab or Analyzed Total/NA 8260D 622686 AJS EET CLE 08/08/24 15:24 Analysis

Client Sample ID: MW-171S_073124 Lab Sample ID: 240-208729-2

Date Collected: 07/31/24 15:00 **Matrix: Water**

Date Received: 08/02/24 12:28

Date Received: 08/02/24 12:28

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 622686 | AJS | EET CLE | 08/08/24 18:30 |
| Total/NA | Analysis | 8260D SIM | | 1 | 622546 | MS | EET CLE | 08/07/24 13:05 |

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208729-1

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 | 02-28-25 |
| Georgia | State | 4062 | 02-27-25 |
| Illinois | NELAP | 200004 | 08-31-25 |
| lowa | State | 421 | 06-01-25 |
| Kentucky (UST) | State | 112225 | 02-27-25 |
| Kentucky (WW) | State | KY98016 | 12-30-24 |
| Minnesota | NELAP | 039-999-348 | 12-31-24 |
| New Jersey | NELAP | OH001 | 07-03-25 |
| New York | NELAP | 10975 | 04-02-25 |
| Ohio VAP | State | ORELAP 4062 | 02-27-25 |
| Oregon | NELAP | 4062 | 02-28-25 |
| Pennsylvania | NELAP | 68-00340 | 08-31-25 |
| Texas | NELAP | T104704517-22-19 | 08-31-24 |
| USDA | US Federal Programs | P330-18-00281 | 01-05-27 |
| Virginia | NELAP | 460175 | 09-14-24 |
| West Virginia DEP | State | 210 | 12-31-24 |

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MICHIGAN 190

Chain of Custody Record

<u>TestAmerica</u>

| | Regulatory program: DW | | | | | | NPDES RCRA Other | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------------|---------------|----------|----------|--------|-----------------------------|------------------|-----------|-------|----------|------------------|--------------|-----------|---------------|-------------|---------------|-----------|-----------|----------------------|-------------|---------------|---------------|---|--|--|--|-------|--|---|-----|------|-----|-------|-------|--|-----|-----|--|--|--|--|--|--|---|--|--|--|--------------|
| Client Contact | Regula | tory program: | | ١ | DW | | - NI | PDES | | _ I | RCRA | Γ | Oth | er | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Company Name: Arcadis | Client Project | Manager: Kris | Himele | | | le | ita Ca | | Ch | duti- a | Weaver | | | | Labo | ontan | t: Mike | Dali | Annice | | | | | TestAmerica Laboratories, Inc. ICOC No: | | | | | | | | | | | | | | | | | | | | | | | | |
| Address: 28550 Cabot Drive, Suite 500 | | | HIIISK | .у | | | | | | | | | | | | | | | | | | | | 10. | | | | | | | | | | | | | | | | | | | | | | | | |
| City/State/Zip: Novi, M1, 48377 | Telephone: 248 | 3-994-2240 | | | | Т | eleph | one: 2 | 48-9 | 94-224 | 0 | | | | Teleph | one: | 330-49 | 7-939 | 6 | | | | | 1 of 1 COCs | | | | | | | | | | | | | | | | | | | | | | | | |
| | Email: kristofi | er.hinskey@ar | cadis.c | om | | | An | alysis | Turi | naroun | d Time | | | | | | | A | ialys | 25 | | | | For lab use only | | | | | | | | | | | | | | | | | | | | | | | | |
| Phone: 248-994-2240 | | | | | | - 7 | AT. | different | | | | | | | | | | | | | | | | Walk-in client | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: Ford LTP | Sampler Name | 11 | | | | l' | AIRC | amerent | | 3 wee | ks | | | | 1 | | | | | | | | | Walk-III GICIII | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Number: 30206169.0401.03 | Emma | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 10 0 | day | | 2 wee | | | | | | | | | | _ | | | | Lab sampling |
| - 170ject (valiaber: 30200107:0401:03 | Method of Shipment/Carrier: | | | | | Method of Shipment/Carrier: | | | | | | | | | | | | ier: | | | | | | | | | 2 day | | 2 | P-G | | | 8260D | | | ا ۾ | SIM | | | | | | | | | | | |
| PO # US3410018772 | Shipping/Track | king No: | | | | | | | | 1 day | | mole (Y / N) | C/Grab-G | _ | 8260D | 826 | | | Vinyl Chloride 8260D | 8260D | | | | Job/SDG No: | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | M | latrix | | С | ontaine | ers & | Preser | vatives | | | 1,1-DCE 8260D | E 8 | Trans-1,2-DCE | | ۵ | ride | e 8; | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | <u> </u> | | | _ [| | | | _ | ed S | orite | SE B | 5-DC | -1,2 | 3260 | 3260 | 양 | оха | | | | Sample Specific Notes / | | | | | | | | | | | | | | | | | | | | | | | | |
| Sample Identification | Sample Date | Sample Time | ¥. | Aqueous | Solid | Ciper: | H2SO4 | <u> </u> | E | ZaAd | Unpres Other: | Filtered Sa | Composite | 1 d | cis-1,2-DCE | rans | PCE 8260D | TCE 8260D | j. | 1,4-Dioxane | | | | Special Instructions: | | | | | | | | | | | | | | | | | | | | | | | | |
| | Sample Date | Sample Time | | | S | <u> </u> | - | | - Z | NZ | 2 0 | | _ | | | | | _ | | - | \Rightarrow | \rightarrow | + | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Possible Hazard Identification | | | Ш | | | | | L D | | | | | 1.7 | | | | 411 | | | | | | | <u> </u> | | | | | | | | | | | | | | | | | | | | | | | | |
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| Special Instructions/QC Requirements & Comments: | 1 Bha | x Lor 1 | 11/2 | 364 | 'a 1 | MT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Special Instructions/QC Requirements & Comments: 121c Submit all results through Cadena at jtomalia@cadenaco.c Level IV Reporting requested. | om. Cadena # | 203728 | -1 0 (|) PL I | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| VOA Comple Descention - Date/Time VOAs Brozen |
| Sample(s) were further preserved in the laboratory Time preserved. Preservative(s) added/Lot number(s) |
| 20. SAMPLE PRESERVATION |
| Sample(s) |
| |
| 18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES |
| Concerning |
| Contacted PM Date by via Verbal Voice Mail Other |
| 13 Were all preserved sample(s) at the correct pH upon receipt? Yes No MA pH Strip Lot# HC442471 Were VOAs on the COC? Were are bubbles >6 mm in any VOA vials? Larger than this y Yes No NA Yes No Yes No Yes No Yes No Yes No |
| 11 Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC? If yes, Questions 13-17 have been checked at the originating laboratory Yes (No) |
| he COC?), # of containers (Y)), at |
| Were the custody papers accompany the sample(s)? Were the custody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC? Yes |
| - Were tamper/custody seals intact and uncompromised? - Yes Wa |
| No No No |
| -O. \ °C) Observed Cooler |
| Ice Dry Ice Water None |
| ox Client Cooler Box Foam Plastic Bag N |
| Drop-off |
| Opened on 8/2/24 |
| Site Name |
| Eurofins - Cleveland Sample Receipt Form/Narrative Login # : Login # : Earlier Login # : |

Page 18 of 22

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| Blue Vater | | | IR GUN #: | Other | Box | Client | E. |
| Wet Ice Blue Ice Dry Ice Water None | | | IR GUN #: | Other | Вох | Client | E.C. |
| Wet Ice Blue Ice Dry Ice Water None | | | IR GUN #: | Other | Вох | Client | EC. |
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| Ma | | | IR GUN #: | Other | Вох | Client | EC. |
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| Blue ice Vater None | | | IR GUN #: | Other | Вох | Client | |
| I 5 I | | | IR GUN #: | Other | Вох | Client | 77 |
| Wet Ice Blue Ice Dry Ice Water None | | | IR GUN #: | Other | Вох | Client | EC. |
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| Wet Ice Blue Ice Dry Ice Water None | 1.7 | 1.8 | IR GUN #: | Other | Вох | Client | EC |
| Wet Ice Blue Ice Dry Ice | /:/ | 1.2 | IR GUN #: | Other | Вох | Client | EC. |
| Wet Ice Blue Ice Dry Ice Water None | 0.6 | 0.7 | IR GUN #: 32 | Other | Вох | Client | (F) |
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| Client Contact | Regulatory program: DW | | | | | | | PDE | | | R | | | Othe | | | | | | | _ | | | | | | | | | | | | | | | | | | |
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| Company Name: Arcadis | | y program | | | | | | | | | | | | | ! | I de la companya de l | | | | | | | | | estAmerica L | aboratories, | Inc. | | | | | | | | | | | | |
| Address: 28550 Cabot Drive, Suite 500 | Client Project | Manager: Kris | Hinsk | ey | | | Site C | onta | ct: Cl | hris | tina V | eaver | | | | Lab Contact: Mike DelMonico | | | | | | | | C | OC No: | | | | | | | | | | | | | | |
| | Telephone: 248 | 3-994-2240 | | | | | Telepl | hone | : 248- | -994 | 1-2240 | | | | | Telep | hone: | 330-49 | 7-939 | 6 | | | | F | | 200 | \Box | | | | | | | | | | | | |
| City/State/Zip: Novi, M1, 48377 | Email: kristoff | er.hinskey@are | cadis | com | | _ | Analysis Turnaround Time | | | | | | | | | A | nalys | es | | | F | 1 of 1 | COCs | | | | | | | | | | | | | | | | |
| Phone: 248-994-2240 | | | | | | | | | 1 | | V. | -1-1 | 1 | | | | | | | | | | T | | | 11/2/2 | | | | | | | | | | | | | |
| Project Name: Ford LTP | Sampler Name | / / . | | | | ľ | TAT if | i diller | ent from | | low 3 week | | - | | | | | | | | | | | " | alk-in client | No. | 100 | | | | | | | | | | | | |
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| Project Number: 30206169.0401.03 | Method of Shipment/Carrier: | | | | | | | | | | | | | | | | | | | | | | | | | | l week 2 days | | E | 9 | | | 9 | | | ٥ | SIN | | |
| PO # US3410018772 | Shipping/Track | Shipping/Tracking No: | | | | | | | L | 1 | day | | ځ | Gra | | 8260D | 826 | | | 8260 | 009 | | | Job/SDG No: | | 15000 | | | | | | | | | | | | | |
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| S and Mariff of | Samuela Duta | Sample Time | ï | Aqueous | Solid | ther: | H2SO4 | HNO3 | HCI NaOH | NOII | NaOH | (her: | Filtered Sample (Y / N) | Composite=C/Grab=G | 1,1-DCE 8260D | cis-1,2-DCE | Trans-1,2-DCE 8260D | PCE 8260D | TCE 8260D | Vinyl Chloride 8260D | 1,4-Dioxane 8260D SIM | | | | | ecific Notes / | | | | | | | | | | | | | |
| Sample Identification | Sample Date | Sample Time | ~ | | Š | 0 | = | = - | = 2 | 2 1 | 7 Z | | + | | | | | | | | _ | _ | + | \Rightarrow | | | ╡ | | | | | | | | | | | | |
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| Possible Hazard Identification | | | | | | - | Sar | mple | Dispo | osal | (A fe | may be | asses | sed if | samp | les are | retai | ned lor | ger t | nan 1 r | nonth | | | | | | \dashv | | | | | | | | | | | | |
| Non-Hazard l'ammable sin Irritant | Poiso | | Jnk | | | | - | | eturn | | | | Dispo | | | | | rchive | | | | nths | | | | | _ | | | | | | | | | | | | |
| Special Instructions/QC Requirements & Comments: 121c Submit all results through Cadena at jtomalia@cadenaco.c | 1 Bren | xter. L | -iV | on i | a | MI | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Submit all results through Cadena at jtomalia@cadenaco.t Level IV Reporting requested. | om. Cadena #E | 203728 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by Emma Grew Emma | Company: | 375 | | | 131, | 124 | 16 | 30 | | ecei | yed by | vi Co | olo | 5 | tor | 296 | _ | | Comb | any: | dì. | 5 | | | ate/Time | 1630 | 5 | | | | | | | | | | | | |
| Relinquished by | Company: | adus | | Date/Ti | | 24 | 12 | 30 |) R | ecci | Fed by | | 0 | I | <u>'</u> | <u> </u> | Company: | | | | | | | [8 | ate/Time: | 1230 | | | | | | | | | | | | | |
| Relinguished by | Company | | | Date/Ti | | n 13 | 30 | | Re | ecei | K A T | Labora H A R | l NE | y: M | ÃΚ | T J N | | | Comp | any: | 7 | R | | D | 21e/Time: 2 | 24 80 | SC | | | | | | | | | | | | |

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| VOA Sample Preservation - Date/Time VOAs Frozen. |
|--|
| Time preservedPreservative(s) added/Lot number(s) |
| Sample(s)were further preserved in the laboratory |
| 20. SAMPLE PRESERVATION |
| Sample(s)were received with bubble >6 mm in diameter (Notify PM) |
| 19. SAMPLE CONDITION were received after the recommended holding time had expired |
| |
| |
| 18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES |
| Concerning |
| Contacted PM Date by via Verbal Voice Mail Other |
| Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # / Yes Was a LL Hg or Me Hg trip blank present? Yes |
| 13 Were all preserved sample(s) at the correct pri upon receipt: 14 Were VOAs on the COC? 15 Were voAs on the COC? 16 Were air hubbles > 6 mm in any VOA vials? 17 Ves (No NA |
| If yes, Questions 13-17 have been checked at the originating laboratory |
| 11 Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the CQC? Yes (No) |
| 9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N)? 10 Were correct bottle(s) used for the test(s) indicated? (Yes) No |
| |
| Were the custody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC? Yes No |
| Did custody papers accompany the sample(s)? |
| Were tamper/custody seals intact and uncompromised? Shippers' packing sin attached to the cooler(s)? Yes (No. 1) |
| -Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? |
| dy seals on the outside of the cooler(s)? If Yes Quantity 3 (Cas) No |
| perature upon receipt |
| COOLANT Wet Ice Blue Ice Dry Ice Water |
| ox Client Cooler Box |
| Drop-off Date/Time Storage Location |
| Cooler Received on 8/2/24 Opened on 8/2/24 VY FedEx: 1st Grd Exm 1PS FAS Waynoin Client Drop Off Eurofins Country Other |
| Client Arcadis Cooler unpacked by |
| Eurofins — Cleveland Sample Receipt Form/Narrative Login# Login# |
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Page 21 of 22

| Wet ice Blue ice Dry ice | Other RGUN #: | Box O O O O O O O O O | | |
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| Wet ice | Other RGUN ≢: | Box O | Client | EC |
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| 11 81 | Other IR GUN ≱: | Box o | : Cllent | Dğ. |
| /,2 /./ | Other IR GUN # | Box O | Cilent | r. |
| 22 0.7 0.6 Westing | Other RGUN#: | Box O | Cilent | (F) |
| IR Gun # Observed Corrected Coolant (Circle) Temp °C Temp °C (Circle) | | r Descriptio (Circle) | Cooler Description (Circle) | |

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

Page 22 of 22 8/13/2024

DATA VERIFICATION REPORT



August 13, 2024

Megan Meckley Arcadis 28550 Cabot Drive Suite 500 Novi, MI US 48377

CADENA project ID: E203728

Project: Ford Livonia Transmission Plant - Soil Gas, Ground Water and Soil

Project number: 30206169.0401.04_WA-02

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

Laboratory submittal: 208729-1 Sample date: 2024-07-31

Report received by CADENA: 2024-08-13

Initial Data Verification completed by CADENA: 2024-08-13

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.

The following minor QC exceptions or missing information were noted:

GCMS VOC QC batch CCV response outliers and MS/MSD issues as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

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

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 208729-1

| | | Sample Name: Lab Sample ID: Sample Date: | TRIP BL/ 240208 7/31/20 | 7291 | 1 | | MW-171 240208 7/31/20 | | | |
|-----------|--------------------------|--|-------------------------------|--------|--------|--------------------|-----------------------------|--------|--------|---------|
| | Analyte | Cas No. | Result | Report | | Valid Qualifier | Docult | Report | | Valid |
| | Allatyte | Gas No. | nesuli | Limit | Ullits | Qualifier | nesuli | LIIIII | UIIIIS | Quanner |
| GC/MS VOC | | | | | | | | | | |
| OSW-8260 | <u>0D</u> | | | | | | | | | |
| | 1,1-Dichloroethene | 75-35-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | cis-1,2-Dichloroethene | 156-59-2 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | Tetrachloroethene | 127-18-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | trans-1,2-Dichloroethene | 156-60-5 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | Trichloroethene | 79-01-6 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | Vinyl chloride | 75-01-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| OSW-8260 | <u>ODSIM</u> | | | | | | | | | |
| | 1,4-Dioxane | 123-91-1 | | | | | ND | 2.0 | ug/l | |



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-208729-1

CADENA Verification Report: 2024-08-13

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 55485R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-208729-1 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 | Ana | lysis | |
|----------------|--------------|----------|-----------------|---------------|-------|---------|
| Sample ID | Labib | IVIALITA | Collection Date | Parent Sample | VOC | VOC SIM |
| TRIP BLANK_111 | 240-208729-1 | Water | 07/31/2024 | | Х | |
| MW-171S_073124 | 240-208729-2 | Water | 07/31/2024 | | Х | Х |

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 | | 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 calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

| Sample ID | Initial / Continuing | Compound | Criteria |
|----------------------------------|--|----------------|----------|
| TRIP BLANK_111 MW-171S 073124 | Continuing Calibration Verification %D | Vinyl chloride | -23.1% |

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

| Initial/Continuing | Criteria | Sample Result | Qualification |
|------------------------------------|-------------------------------------|---------------|---------------|
| | RRF <0.05 | Non-detect | R |
| | KKF <0.05 | Detect | J |
| Initial and Continuing Calibration | DDE -0.041 | Non-detect | R |
| Campianon | RRF <0.01 ¹ | Detect | J |
| | RRF >0.05 or RRF >0.01 ¹ | Non-detect | No Action |

| Initial/Continuing | Criteria | Sample Result | Qualification |
|------------------------------|--|---------------|---------------|
| | | Detect | |
| | %RSD > 20% or a correlation coefficient <0.99 | Non-detect | UJ |
| Initial Calibration | %RSD > 20% of a correlation coefficient <0.99 | Detect | J |
| Initial Calibration | 0/ DOD 000/ | Non-detect | R |
| | %RSD > 90% | Detect | J |
| | OVD COOK (in any and in any attitute) | Non-detect | UJ |
| | %D >20% (increase in sensitivity) | Detect | J |
| Operation via a Oplik aption | 0/D 000/ (dagged in aggrithmit.) | Non-detect | UJ |
| Continuing Calibration | %D >20% (decrease in sensitivity) | Detect | J |
| | (A.D. 1994 (1) 11 11 11 11 11 11 11 11 11 11 11 11 1 | Non-detect | R |
| | %D > 90% (increase/decrease in sensitivity) | Detect | J |

Note:

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.

¹RRF of 0.01 only applies to compounds which are typically poor responding compounds

DATA VALIDATION CHECKLIST FOR VOCs

| Rep | orted | | | Not Required |
|-------|-------------|---------------------------------------|---|---------------------|
| No | Yes | No | Yes | - Required |
| C/MS) | | | | |
| | | | | |
| | Х | | Х | |
| | | | | |
| | X | | Х | |
| | Х | | Х | |
| | Х | | Х | |
| | Х | Х | | |
| | Х | | Х | |
| | Х | | Х | |
| X | | | | Х |
| | Х | | Х | |
| | | | | |
| | Х | | Х | |
| | Х | | Х | |
| | Х | | Х | |
| | X | | X | |
| | Х | | Х | |
| | No C/MS) | X X X X X X X X X X X X X | Reported Acce No Yes No C/MS) X X X X X X X X X X X X X | No Yes No Yes |

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Bindu Sree M B

SIGNATURE: BAShims

DATE: September 02, 2024

PEER REVIEW: Andrew Korycinski

DATE: September 7, 2024

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record

TestAmerica TestAmerica

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|--|--|---------------|----------|---------------|------------|---------------|--------|----------|-------------------|---------------|--------------------|---------------|--------------|--------------------|---------------|-------------------|-----------------------|------------------|----------------|----------------|-------------|---------------|---|----------------------------------|
| Client Contact Company Name: Arcadis | Regula | tory program | : | | □ DV | V | - | NPDI | ES | 1 | RCF | RA | | Othe | r | | | | | | | | | |
| Company Name: Arcadis | Client Project | Manager: Kris | Hinel | ev. | | | Site | Conta | act: Cl | ristin | a We | TVET | | | | Lah C | onta | ete Mil | Mike DelMonico | | | | | TestAmerica Laboratories, In |
| Address: 28550 Cabot Drive, Suite 500 | Telephone: 248-994-2240 Email: kristoffer.hinskey@arcadis.com | | | | | | | | | | | | | | | | | | | | | | | |
| City/State/Zip: Novi, MI, 48377 | | | | | | | Tele | phone | e: 248- | 994-2 | 240 | | | | | Telep | lephone: 330-497-9396 | | | | | | | 1 of 1 COCs |
| | | | | | | | - | Analy | sis Tu | rnaro | und T | ime | | | | | | | A | naly | ses | | | For lab use only |
| Phone: 248-994-2240 | | | | | | | 7.47 | | | | | | | | | | | | | | | | | Walk-in client |
| Project Name: Ford LTP | Sampler Name | / | | | | | IAI | it diffe | rent fron | 3 w | ceks | | | | | | | | | | | | | Walk-In Citcut |
| Project Number: 30206169,0401.03 | Emma | | _ | | | | 10 | 0 day | | 2 w | | | | | | | | | | | _ | | | Lab sampling |
| Froject Number: 30200169,0401.03 | Method of Ship | ment/Carrier: | | | | | ı | | | 1 w 2 da | | | E | S A | | | 9 | | | _ | SIM | | | |
| PO # US3410018772 | Shipping/Track | cing No: | | | | | 1 | | Г | 1 da | ıy | | mple (Y / N) | Composite=C/Grab=G | O | cis-1,2-DCE 8260D | Trans-1,2-DCE 8260D | | | 8260D | 8260D | \perp | | Job/SDG No: |
| | | | | 195 | Matrix | | | Cont | ainers o | & Pres | crvati | ves | Samp | re=C | 1,1-DCE 8260D | CE 8 | 5-DC | 9 | 9 | Vinyl Chloride | ane 8 | | | |
| | | | | · 1 | Ē | _{::} | = | _ | _ | | ا ۽ ا | | red | pori | CE | ,2-D | s-1,5 | 826 | 826 | 듄 | jox | | | Sample Specific Notes / |
| Sample Identification | Sample Date | Sample Time | Air | Aqueous | Sediment | Other: | H2SO4 | HNO3 | ⊒ E | ZaAc | Unpres | Other: | Filtered | Com | 1.1 | cis-1 | Tran | PCE 8260D | TCE 8260D | Viny | 1,4-Dioxane | | | Special Instructions: |
| TRIP BLANK_ [1] | | | | 1 | | | | | 1 | | | | N | G | Х | X | Х | Х | X | Х | | | | 1 Trip Blank |
| | | | \vdash | \rightarrow | + | | | \dashv | _ | + | \vdash | | | | | | | _ | | 1 | | \rightarrow | _ | 3 VOAs for 8260D |
| MW-1715_073124 | 7/31/24 | 1500 | | 6 | | | | | 6 | | | | N | 6 | X | X | X | X | X | X | と | | | 3 VOAs for 8260D SIM |
| | | | | | | | | П | | | | | | | | | | | | | | | | |
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| Possible Hazard Identification Non-Hazard lammable sin Irritar | t Poiso | on B | Jnk | nown | | | Si | | : Dispo Return | | | may be a | | | | es are | | ned lo rchive | | | | enths | | |
| Special Instructions/QC Requirements & Comments: | 1 Bh. | volac 1 | -11 | | | MIT | _ | | | | | | | | | | | | | | | | | |
| Special Instructions/QC Requirements & Comments: 1210 Submit all results through Cadona at jtomalia@cadonaco | com. Cadena #E | 203728 | _1 0 1 | on | 14 | 1003 | | | | | | | | | | | | | | | | | | |
| Level IV Reporting requested. | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by Emma Sugar Emma | Company: | 3:5 | | Date/ | Time: 7/31 | 124 | 14 | 230 |) Re | ceive | i by: | i Co | ld | 5 | lova | al | | | Com | any: | adi. | 5 | | Date/Time: 7/31/24 1630 |
| Relinquished by: | Company: | adus | | Date/ | Time:) | 24 | | 31 | ID. | ceived | l by: | T | 5 | b | ~ | 0 | | | | pany: | 74 | | | Date/Time: 811124 1230 |
| Relinguished by | Company | | _ | Date/ | 1 | _ | | | | $\overline{}$ | $\overset{\sim}{}$ | aborato | <u> </u> | | | \sim | | | <u> </u> | | 7-1 | 20- | | Date/Time: 8/2/2/18/00 |

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208729-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_111

Date Collected: 07/31/24 00:00
Date Received: 08/02/24 12:28

Matrix: Water

Matrix: Water

Lab Sample ID: 240-208729-1

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|---------------------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 08/08/24 15:24 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 08/08/24 15:24 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 08/08/24 15:24 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 08/08/24 15:24 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 08/08/24 15:24 | 1 |
| Vinyl chloride | 1.0 | M NI | 1.0 | 0.45 | ug/L | | | 08/08/24 15:24 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 62 - 137 | | | _ | | 08/08/24 15:24 | 1 |
| 4-Bromofluorobenzene (Surr) | 102 | | 56 ₋ 136 | | | | | 08/08/24 15:24 | 1 |
| Toluene-d8 (Surr) | 99 | | 78 - 122 | | | | | 08/08/24 15:24 | 1 |
| Dibromofluoromethane (Surr) | 104 | | 73 - 120 | | | | | 08/08/24 15:24 | |

Date Collected: 07/31/24 15:00

Date Received: 08/02/24 12:28

Dibromofluoromethane (Surr)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 08/07/24 13:05 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 68 - 127 | | | - | | 08/07/24 13:05 | 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 | | | 08/08/24 18:30 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 08/08/24 18:30 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 08/08/24 18:30 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 08/08/24 18:30 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 08/08/24 18:30 | 1 |
| Vinyl chloride | 1.0 | A UJ | 1.0 | 0.45 | ug/L | | | 08/08/24 18:30 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 62 - 137 | | | - | | 08/08/24 18:30 | 1 |
| 4-Bromofluorobenzene (Surr) | 100 | | 56 - 136 | | | | | 08/08/24 18:30 | 1 |
| Toluene-d8 (Surr) | 100 | | 78 - 122 | | | | | 08/08/24 18:30 | 1 |

73 - 120

107

08/08/24 18:30