PREPARED FOR

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

Generated 3/12/2024 11:52:42 PM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-200647-1

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.

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 3/12/2024 11:52:42 PM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-200647-1

Table of Contents

| Cover Page | 1 |
|------------------------|----|
| Table of Contents | 3 |
| Definitions/Glossary | 4 |
| Case Narrative | 5 |
| Method Summary | 6 |
| Sample Summary | 7 |
| Detection Summary | 8 |
| Client Sample Results | 9 |
| Surrogate Summary | 11 |
| QC Sample Results | 12 |
| QC Association Summary | 15 |
| Lab Chronicle | 16 |
| Certification Summary | 17 |
| Chain of Custody | 18 |

3

4

£

9

11

12

13

Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 240-200647-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

| ation 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 | _ |
| Percent Recovery | |
| Contains Free Liquid | |
| Colony Forming Unit | |
| Contains No Free Liquid | |
| Duplicate Error Ratio (normalized absolute difference) | |
| | Listed under the "D" column to designate that the result is reported on a dry weight basis Percent Recovery Contains Free Liquid Colony Forming Unit Contains No Free Liquid |

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

Eurofins Cleveland

3/12/2024

Page 4 of 20

4

5

6

9

11

12

13

| | 4

Case Narrative

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

Job ID: 240-200647-1 Eurofins Cleveland

Job Narrative 240-200647-1

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 3/7/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.7°C, 2.0°C and 2.8°C.

GC/MS VOA

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

Eurofins Cleveland

Page 5 of 20 3/12/2024

2

Job ID: 240-200647-1

3

4

5

8

9

12

Method Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200647-1

Project/Site: Ford LTP - Off Site

| 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

4

5

7

ŏ

10

11

13

Sample Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-200647-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 240-200647-1 | TRIP BLANK_74 | Water | 03/05/24 00:00 | 03/07/24 08:00 |
| 240-200647-2 | MW-207S_030524 | Water | 03/05/24 12:05 | 03/07/24 08:00 |

3

4

J

9

10

10

13

Detection Summary

Client: Arcadis U.S., Inc. Job ID: 240-200647-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_74 Lab Sample ID: 240-200647-1

No Detections.

Client Sample ID: MW-207S_030524 Lab Sample ID: 240-200647-2

No Detections.

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200647-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_74

Lab Sample ID: 240-200647-1 Date Collected: 03/05/24 00:00

Matrix: Water

Date Received: 03/07/24 08:00

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|---------------------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/11/24 19:49 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/11/24 19:49 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/11/24 19:49 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/11/24 19:49 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/11/24 19:49 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/11/24 19:49 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 62 - 137 | | | - | | 03/11/24 19:49 | 1 |
| 4-Bromofluorobenzene (Surr) | 87 | | 56 ₋ 136 | | | | | 03/11/24 19:49 | 1 |
| Toluene-d8 (Surr) | 101 | | 78 - 122 | | | | | 03/11/24 19:49 | 1 |
| Dibromofluoromethane (Surr) | 96 | | 73 - 120 | | | | | 03/11/24 19:49 | 1 |

Eurofins Cleveland

Page 9 of 20

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200647-1

Project/Site: Ford LTP - Off Site

Date Received: 03/07/24 08:00

Surrogate

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: MW-207S_030524

Date Collected: 03/05/24 12:05

Prepared

Lab Sample ID: 240-200647-2

Matrix: Water

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|--------------------|-------------------------|--------------------------|----------------------|------------------------------|------------|----------|--|---------------------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/11/24 22:53 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 68 - 127 | | | - | | 03/11/24 22:53 | 1 |
| Method: SW846 8260D - Volati Analyte | | ounds by G Qualifier | C/MS RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| | | • | | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Analyte 1,1-Dichloroethene | Result 1.0 | Qualifier U | RL | 0.49 | ug/L | <u>D</u> . | Prepared | 03/12/24 00:24 | Dil Fac |
| Analyte | Result | Qualifier U | RL | | ug/L | <u>D</u> . | Prepared | - <u> </u> | Dil Fac 1 |
| Analyte 1,1-Dichloroethene | Result 1.0 | Qualifier U | RL | 0.49 | ug/L ug/L | <u> </u> | Prepared | 03/12/24 00:24 | Dil Fac 1 1 1 |
| Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene | Result 1.0 1.0 | Qualifier U U U | 1.0 1.0 | 0.49 0.46 | ug/L ug/L ug/L | <u>D</u> . | Prepared | 03/12/24 00:24 03/12/24 00:24 | Dil Fac 1 1 1 1 |
| Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene | Result 1.0 1.0 1.0 | Qualifier U U U U | 1.0 1.0 1.0 1.0 | 0.49 0.46 0.44 | ug/L ug/L ug/L ug/L | <u>D</u> . | Prepared | 03/12/24 00:24 03/12/24 00:24 03/12/24 00:24 | Dil Fac 1 1 1 1 1 1 |

Limits

62 - 137

56 - 136

78 - 122

73 - 120

%Recovery Qualifier

106

87

100

98

Dil Fac

Analyzed

03/12/24 00:24

03/12/24 00:24

03/12/24 00:24

03/12/24 00:24

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 240-200647-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

| | | | | Percent Su | rrogate Rec |
|--------------------|------------------------|----------|----------|------------|-------------|
| | | DCA | BFB | TOL | DBFM |
| Lab Sample ID | Client Sample ID | (62-137) | (56-136) | (78-122) | (73-120) |
| 240-200378-E-2 MS | Matrix Spike | 96 | 102 | 103 | 94 |
| 240-200378-E-2 MSD | Matrix Spike Duplicate | 97 | 105 | 102 | 97 |
| 240-200647-1 | TRIP BLANK_74 | 103 | 87 | 101 | 96 |
| 240-200647-2 | MW-207S_030524 | 106 | 87 | 100 | 98 |
| LCS 240-605699/4 | Lab Control Sample | 94 | 103 | 104 | 94 |
| MB 240-605699/6 | Method Blank | 101 | 86 | 102 | 95 |

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) | |
| 240-200646-C-2 MS | Matrix Spike | 107 | |
| 240-200646-C-2 MSD | Matrix Spike Duplicate | 107 | |
| 240-200647-2 | MW-207S_030524 | 105 | |
| LCS 240-605713/4 | Lab Control Sample | 105 | |
| MB 240-605713/6 | Method Blank | 103 | |
| Surrogate Legend | | | |

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

Eurofins Cleveland

2

8

9

11

12

Le

Job ID: 240-200647-1

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

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

Lab Sample ID: MB 240-605699/6

Matrix: Water

Analysis Batch: 605699

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

MB MB Dil Fac Result Qualifier RLMDL Unit D Prepared Analyzed 1.0 U 1.0 0.49 ug/L 03/11/24 18:34

Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 03/11/24 18:34 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 03/11/24 18:34 trans-1,2-Dichloroethene 1.0 U 1.0 03/11/24 18:34 0.51 ug/L Trichloroethene 1.0 U 1.0 0.44 ug/L 03/11/24 18:34 Vinyl chloride 1.0 U 1.0 0.45 ug/L 03/11/24 18:34

MB MB

| Surrogate | %Recovery Qu | ualifier Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|-----------------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 101 | 62 - 137 | | 03/11/24 18:34 | 1 |
| 4-Bromofluorobenzene (Surr) | 86 | 56 - 136 | | 03/11/24 18:34 | 1 |
| Toluene-d8 (Surr) | 102 | 78 - 122 | | 03/11/24 18:34 | 1 |
| Dibromofluoromethane (Surr) | 95 | 73 - 120 | | 03/11/24 18:34 | 1 |

Lab Sample ID: LCS 240-605699/4

Matrix: Water

Analysis Batch: 605699

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 | 25.0 | 23.5 | | ug/L | | 94 | 63 - 134 | |
| cis-1,2-Dichloroethene | 25.0 | 24.7 | | ug/L | | 99 | 77 - 123 | |
| Tetrachloroethene | 25.0 | 24.3 | | ug/L | | 97 | 76 - 123 | |
| trans-1,2-Dichloroethene | 25.0 | 24.7 | | ug/L | | 99 | 75 - 124 | |
| Trichloroethene | 25.0 | 23.2 | | ug/L | | 93 | 70 - 122 | |
| Vinyl chloride | 12.5 | 10.8 | | ug/L | | 86 | 60 - 144 | |

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|---------------------|
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 103 | | 56 ₋ 136 |
| Toluene-d8 (Surr) | 104 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 94 | | 73 - 120 |

Lab Sample ID: 240-200378-E-2 MS

Matrix: Water

Analysis Batch: 605699

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

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|--------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,1-Dichloroethene | 1.0 | U | 25.0 | 23.6 | | ug/L | | 94 | 56 - 135 | |
| cis-1,2-Dichloroethene | 1.0 | U | 25.0 | 24.8 | | ug/L | | 99 | 66 - 128 | |
| Tetrachloroethene | 1.0 | U | 25.0 | 24.1 | | ug/L | | 96 | 62 - 131 | |
| trans-1,2-Dichloroethene | 1.0 | U | 25.0 | 24.1 | | ug/L | | 96 | 56 - 136 | |
| Trichloroethene | 1.0 | U | 25.0 | 23.1 | | ug/L | | 92 | 61 - 124 | |
| Vinyl chloride | 1.0 | U | 12.5 | 9.47 | | ug/L | | 76 | 43 - 157 | |

MS MS

| Surrogate | %Recovery Quali | fier Limits |
|------------------------------|-----------------|-------------|
| 1,2-Dichloroethane-d4 (Surr) | 96 | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 102 | 56 - 136 |
| Toluene-d8 (Surr) | 103 | 78 - 122 |

Eurofins Cleveland

3/12/2024

Page 12 of 20

Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site Job ID: 240-200647-1

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

Lab Sample ID: 240-200378-E-2 MS

Matrix: Water

Analysis Batch: 605699

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

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 94 73 - 120

Lab Sample ID: 240-200378-E-2 MSD

Matrix: Water

Analyte

Vinyl chloride

Analysis Batch: 605699

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

43 - 157

MSD MSD %Rec RPD Sample Sample Spike Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit 1,1-Dichloroethene 1.0 U 25.0 24.6 ug/L 98 56 - 135 26 cis-1,2-Dichloroethene 1.0 U 25.0 25.9 103 66 - 128 ug/L 14 Tetrachloroethene 1.0 U 25.0 24.0 ug/L 96 62 - 131 20 trans-1,2-Dichloroethene 1.0 U 25.0 25.7 ug/L 103 56 - 136 6 15 Trichloroethene 1.0 U 25.0 23.9 ug/L 96 61 - 124 3 15

9.82

ug/L

1.0 U MSD MSD

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 97 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 105 | | 56 - 136 |
| Toluene-d8 (Surr) | 102 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 97 | | 73 - 120 |

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

Lab Sample ID: MB 240-605713/6

Matrix: Water

Analysis Batch: 605713

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

24

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 03/11/24 20:29

12.5

MB MB

MR MR

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 103 68 - 127 03/11/24 20:29

Lab Sample ID: LCS 240-605713/4

Analyte

1,4-Dioxane

| Matrix: Water | | | Prep Type: Total/NA |
|------------------------|-------|---------|---------------------|
| Analysis Batch: 605713 | | | |
| | Snike | LCS LCS | %Rec |

Result Qualifier

10.7

Unit

ug/L

Added

68 - 127

10.0

LCS LCS %Recovery Qualifier Surrogate Limits

105

Lab Sample ID: 240-200646-C-2 MS

Matrix: Water

Analysis Ratch: 605713

1,2-Dichloroethane-d4 (Surr)

Client Sample ID: Matrix Spike

Client Sample ID: Lab Control Sample

Limits

75 - 121

%Rec

107

Prep Type: Total/NA

| Analysis Batch. 6007 10 | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|-------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,4-Dioxane | 2.0 | U | 10.0 | 10.6 | | ug/L | | 106 | 20 - 180 | |

Eurofins Cleveland

QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200647-1

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) | 107 | | 68 - 127 |

| Lab Sample | ID: 240-200646-C-2 | MSD |
|--------------|--------------------|---------|
| Lab Callipic | ID. ETU-EUUUTU-U-Z | . 11100 |

Matrix: Water

| Analysis Batch: 605713 | | | | | | | | | | | |
|------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| 1,4-Dioxane | 2.0 | U | 10.0 | 10.9 | | ug/L | | 109 | 20 - 180 | 2 | 20 |

MSD MSD

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 107 68 - 127

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

QC Association Summary

Client: Arcadis U.S., Inc. Job ID: 240-200647-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 605699

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batc |
|--------------------|------------------------|-----------|--------|--------|-----------|
| 240-200647-1 | TRIP BLANK_74 | Total/NA | Water | 8260D | |
| 240-200647-2 | MW-207S_030524 | Total/NA | Water | 8260D | |
| MB 240-605699/6 | Method Blank | Total/NA | Water | 8260D | |
| LCS 240-605699/4 | Lab Control Sample | Total/NA | Water | 8260D | |
| 240-200378-E-2 MS | Matrix Spike | Total/NA | Water | 8260D | |
| 240-200378-E-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D | |

Analysis Batch: 605713

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|-----------|------------|
| 240-200647-2 | MW-207S_030524 | Total/NA | Water | 8260D SIM | |
| MB 240-605713/6 | Method Blank | Total/NA | Water | 8260D SIM | |
| LCS 240-605713/4 | Lab Control Sample | Total/NA | Water | 8260D SIM | |
| 240-200646-C-2 MS | Matrix Spike | Total/NA | Water | 8260D SIM | |
| 240-200646-C-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D SIM | |

3

4

6

10

11

13

4 /

Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-200647-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_74

Lab Sample ID: 240-200647-1 Date Collected: 03/05/24 00:00

Matrix: Water

Date Received: 03/07/24 08:00

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|--------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 605699 | CDG | EET CLE | 03/11/24 19:49 |

Client Sample ID: MW-207S_030524 Lab Sample ID: 240-200647-2

Date Collected: 03/05/24 12:05 Matrix: Water

Date Received: 03/07/24 08:00

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 605699 | CDG | EET CLE | 03/12/24 00:24 |
| Total/NA | Analysis | 8260D SIM | | 1 | 605713 | MDH | EET CLE | 03/11/24 22:53 |

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. Job ID: 240-200647-1 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 * |
| Illinois | NELAP | 200004 | 07-31-24 |
| Iowa | State | 421 | 06-01-25 |
| Kentucky (WW) | State | KY98016 | 12-30-24 |
| Minnesota | NELAP | 039-999-348 | 12-31-24 |
| New Jersey | NELAP | OH001 | 06-30-24 |
| New York | NELAP | 10975 | 04-01-24 |
| Oregon | NELAP | 4062 | 02-27-25 |
| Pennsylvania | NELAP | 68-00340 | 08-31-24 |
| 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 |

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

Chain of Custody Record

| Tec | An | her | ica |
|-----------|------------|---------|-----------|
| 103 | 1 1 1 | 101 | |
| THE LEADE | R IN ENVIR | ONMENTA | L TESTING |

| Т | estAmerica Labor: | atory location | Bright | ton — | 10448 (| Citation | n Drive | e, Suite | 200 | / Brig | ghton, I | MI 48 | 3116 / | 810- | 229-2 | 763 | | | | | | | | THE LE | ADER IN ENV | RONMEN | TAL TESTIN | NG. | | | | | |
|--|-------------------|----------------|-------------|---------|--------------|----------|-----------|------------|----------|--------------|----------|--------------|-----------------------|----------------------------------|---------------|------------------|-----------------|-------------------|-----------|----------------------|-----------------------|-----|---|--------|---------------------|------------------------|-----------------|------------|----|---------|--------|---|--|
| Client Contact | Regula | tory program | ı: | Г | DW | | _ N | PDES | | Γ | RCRA | | Γ. | Other | | | | | | | _ | | | | | | | | | | | | |
| Company Name: Arcadis | GW + D + + | | *** . | | | | a | | | | | | | | | | | | n 11 | | | | | 1.0 | tAmerica C No: | Laborat | ories, In | ic. | | | | | |
| Address: 28550 Cabot Drive, Suite 500 | Chent Project | Manager: Kris | Hinske | y | | | Site C | ontact | : Chr | ristina | Weav | er | | | ľ | Lab | ontaci | C: MIK | e DelM | lonico | | | | 100 | C No: | | | | | | | | |
| C' C' N ' N ' N ' N ' N ' N ' N ' N ' N | Telephone: 24 | 8-994-2240 | | | | | Telep | hone: | 248-9 | 94-22 | 40 | | | | | Telepi | hone: | 330-4 | 97-939 | 6 | | | | F | 4.05 | | OC ₄ | 7 | | | | | |
| City/State/Zip: Novi, MI, 48377 | Email: kristof | fer.hinskey@ar | rcadis.c | om | | | A | nalysu | Lur | narou | nd lun | 1C | П | | | - | | | An | alyses | | | | For | 1 of lab use only | | OQ. | | | 1 | | | |
| Phone: 248-994-2240 | | | | | | | | | | | | | | | | | | | | T | | | T | | n. /1/ | | | | | 12 | 3 | | |
| Project Name: Ford LTP Off-Site | Sampler Name | i e Ja- | , | | | | | f differen | Γ | 3 we | | | | | | | | | | | | 1 | | | lk-in client | | - | | | 2-2 | ₹ ₹ | | |
| Project Number: 30167538.402.04 | | ment/Carrier: | | | | | 10 | day | | 2 we | | | | | | | - 1 | | | | 5 | | | Lat | sampling | | | | | Š | á | | |
| | | | 1 | | | | | | _ | 2 day | y s | | E | ٨ | | اہ | 8260D | | - 1 | 8 | S | | | | | | | 4 | | 1 | | | |
| PO#30167538.402.04 | Shipping/Trac | king No: | | | | | | | | 1 day | у | | 훒 | /Gr | 9 | 8260 | , E 82 | | | e 826 | 8260 | | | Job | SDG No: | | | 4 | | main | | | |
| | | | | M | atrix | | - | Contain | ers & | Prese | rvatives | | Sam | He=C | 8260D | ă | ξ. Š | 90 | 8 | lorid | ane | | | | | | - | 4 | | 9 | | | |
| | | | | Aqueons | Solid | | H2SO4 | HCI | NAOH | ZnAo NaOH | Unpres | | Mitered Sample (Y IN) | Composite=C/Grab=G | 1,1-DCE | ds-1,2-DCE 8260D | Trans-1,2-DCE | PCE 8260D | TCE 8260D | Vinyl Chloride 8260D | 1,4-Dioxane 8260D SIM | | | | Sample S Special | pecific N Instructi | | 1 | į | Custody | | | |
| Sample Identification | Sample Date | Sample Time | · - | ₹ J | i i i | | = | <u> </u> | ž | 22 | 5 0 | | 2 | ပ | = | Ö | | ď. | Ĕ | 5 | | +- | | _ | | | | = | | Ö | | | |
| TRIP BLANK_ 74 | | | | 1 | \mathbf{I} | | | 1 | | | | | N | G | \times | X | X | X | X | Χ | | | | | 1 Trip B | lank | | | : | ~ | | | |
| MW-2075-030529 | 3/5/24 | 1205 | | 6 | \top | | П | 6 | | | | | M | G | X | X | X | X | X | X | 7 | | | | 3 VOAs fo | | | 7 | | | | | |
| (3203002) | 2/3/2/ | 1,007 | ++ | + | ++ | | \vdash | + | + | | | | + | $\stackrel{\smile}{\rightarrow}$ | '` | 쉬 | $\dot{\exists}$ | | - | ~~ | + | + | - | - | 3 VOAS I | JI 626U | DSIN | ┨ . | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | i | | - | | |
| | | | Π | | | | | | | | | | П | | | | | | | | | | | | | | | | | 1 | 1 | | |
| William . | - | | ++ | + | ++ | | Н | + | + | Н | + | | Н | + | - | \dashv | - | - | - | + | - | +- | + | + | | | | - | | | | | |
| | | | | | | | | | | | | | | | | - 1 | | | | | | | | | | | | | | | | | |
| | | | \Box | | \top | | | | T | | | | П | | | | | | | | | | | | | | | 7 | | | | | |
| | | | ++ | - | ++ | | Н | + | ┿- | - | - | | \vdash | \dashv | | - | \dashv | | _ | 4 | + | + | | - | | | VI(| 4 | ** | C | Α | N | |
| | | | | | | | | | | | | | П | | | | | | | | | | | | | 1 | M | | 山 | U | M | 1 | |
| | | | 11 | + | 11 | | \forall | 十 | 十 | Ħ | | | П | \dashv | | 寸 | | | | _ | \top | | | \top | | | | 1 1 | 0 | N | | | |
| | | | $\bot \bot$ | 1 | $\bot \bot$ | | 4 | | 1_ | | | | Ш | | | | | | \perp | _ | | | | _ | | | | -L ' | | | | | |
| | | | | | | | | | | | | | П | | | - 1 | | | | | | | | | | | | | | | | | |
| | | | + | + | ++ | | \vdash | + | + | \vdash | + | | \vdash | | - | \dashv | | | - | + | + | | - | + | | | | - | | | | | |
| | | | | | | | | | L | | | | | | | | | | | | | | | | | | | _ | | | | | |
| Possible Hazard Identification Non-Hazard Flammable Skin I | rritant Pois | on B | ⊏ Unkn | own | | | | mple D | | | fee ma | ıybe≀ I D | assess Dispos | ed if : al By | ampi Lab | | | ned lo: rchive | | an Im | onth) Month | | | | | | | | | | | | |
| Special Instructions/QC Requirements & Comments: | | | | | | | | | | | | | | | | | | | | | | | | ** | • | | | 7 | | | | | |
| Semple Address: 1212554ark Rd Submit all results through Cadena at Itomalia@caden | aco.com. Cadena | #E203631 | | | | | | | | | | | | | | | | | | | | | | | | | | 1 | | | | | |
| Level IV Reporting requested. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished by: Lay Little | Company: ARCA | aris | I | 3/C | me: 124 | 15 | 369 | | Rec | cived VDV | Ni C | OLI | 7 S | 101 | RA | GÉ | | | Compa | пу: 2 С я | 7 Di | 5 | | Dat | e/Time: | 7 1 | 505 | 1 | | | | | |
| Relinquished by: | Company | 1 | Ī | Date/Ti | | | | 0 | | cived | by: | _ | / | 7 | | 4 | | | Compa | | | TIA | | Dat | c/Time: | | | 7 | | | | | |
| Relinquished by: | | adus |) | 3 | 2/0 | | | | | mived | in Lat | _ | 74 | 10 | <u>ا</u> | X | _ | \mathcal{A} | Compa | E Inv: | E | VI | | 72 | 3 16/2 | 24 | 172 | 4 | | | | | |
| nout of | Company. | =TA | 1 | 314 | 120 | 1 1 | 117 | 40 | 』。 | 1 | M | Or | N'S | 5K | ند | | | | É | TT | مرد | | | Õ | 3107 | 24 | 080 | ф | | | | | |

©2008, TestAmenca Laboratories, Inc. All notes reserved. TestAmenca & Design in are trademarks of TestAmenca Laboratories, Inc. Λ

5

7

8

10

. . 12

13

| COOLANT World Blue Ice Dry Ice Water None |
|--|
| Packing material used. Bubble Wrap Foam Plastic Bag None Other |
| Eurofins Cooler # Foam Box Client Cooler Box Other |
| Receipt After-hours Drop-off Date/Time Storage Location |
| Vaypõljat |
| Cooler Received on 03 17 24 Opened on 03 10 7 124 U MOROSKO |
| |
| Eurofins — Cleveland Sample Receipt Form/Narrative — Login # — — — — — — — — — — — — — — — — — — |
| |

Cooler temperature upon receipt Observed Cooler Temp. See Multiple Cooler Form °C Corrected Cooler Temp

Tests that are not റ്

'n Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity -Were tamper/custody seals intact and uncompromised? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were the seals on the outside of the cooler(s) signed & dated? NA ΝA

Shippers' packing slip attached to the cooler(s)?

Did custody papers accompany the sample(s)?

Were the custody papers relinquished & signed in the appropriate place?

76543 Was/were the person(s) who collected the samples clearly identified on the COC?

Did all bottles arrive in good condition (Unbroken)?

9 8

No No

Z Z

Oil and Grease TOC

ö

ä

NA

pH Strip Lot# HC316719

NA (S)

Could all bottle labels (ID/Date/Time) be reconciled with the COC? For each sample, does the COC specify preservatives (YN), # of containers, (Y/N), and sample type of grab/comp(Y/N)?

10 Sufficient quantity received to perform indicated analyses? Were correct bottle(s) used for the test(s) indicated?

Are these work share samples and all listed on the COC?

14 13 Were all preserved sample(s) at the correct pH upon receipt? If yes, Questions 13-17 have been checked at the originating laboratory

Were VOAs on the COC? Were air bubbles >6 mm in any VOA vials?

Was a VOA trip blank present in the cooler(s)?
Was a LL Hg or Me Hg trip blank present? Date Trip Blank Lot # LOVEYED র

via Verbal Voice Mail Other

Contacted PM

Concerning

Sample(s) _____ Time preserved Sample(s) Sample(s) VOA Sample Preservation - Date/Time VOAs Frozen 20. SAMPLE PRESERVATION Sample(s) 19 18 SAMPLE CONDITION CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Preservative(s) added/Lot number(s) were received after the recommended holding time had expired were received in a broken container were received with bubble >6 mm in diameter (Notify PM) additional next page were further preserved in the laboratory Samples processed by

> Page 19 of 20 3/12/2024

checked for pH by

Receiving

| 1000 | | N CON S. | Q | ¥ox | <u>Q</u> | ਨ |
|--|------------------|--|----------|---------|--------------------|--------------|
| WHICH MARICO BY KO | | | ₹ Ş | Ī | £ | ਲ |
| Welker Sharker Dryker | | B COM C | OWK. | ğ | 3 | 7 |
| **** K-9 *** | | N CON F: | S | 3 | 1 | 2 |
| Mark Co. | | * CFM 6: | | | Ž | 7 |
| | | ₩ Q## 9: | Ŷ. | Ī | 1 | ਰ |
| Water Mant | | # Gan 4: | 9 | ¥ | £ | ਨ |
| 44 44 44 44 44 44 44 44 44 44 44 44 44 | | * GTK ?: | Ö | ¥ | 2 | ក |
| Hothe J | | # Gan 17: | ₹ | ¥ | Q Ž | ਨ |
| ## CO. P. C. | | | ¥ | E | £ | ਨ |
| 394 Co 1 | | XCM? | 3 | 1 | 3 | 8 |
| A. 25. Mar. | | X COM C: | } | | | ; [· |
| Wide Hand | | X GW F: | ¥ | ž | œ | 8 |
| 100 | | R GON #: | Q. | Ŧ | £ | 7 |
| A41 PA | | ************************************** | Office | tox | 2 | 8 |
| Well of the Political Bills | | | O. | Ĭ | Ç. | 8 |
| MAJICA MAJICA | | SPE . | 3 | I | 9 | 8 |
| 20.00 | | * C** *: | | | | : : |
| | | * G FA 6: | 2 | F | E | 3 |
| Water Plans | | # C4X 4: | ₹. | Ĭ | 2 | ਨ |
| Wide Division Byles | | * 625 | OH. | ž | Q I | ន |
| X-21.00 | | W. 644. 8. | 0 | | C I | ਲ |
| SOLONE CAPA | | | 3 | Ē | î | 8 |
| WALKS BOOKS | | 10 COM 27 | 9 | I | 1 | 8 |
| | | # CFN ?: | | | | 5 3 |
| Water Hann | | M GAN 6: | 2 | = | <u>G</u> | 8 |
| EL Z | | * CHI | Office | Ŧ | Î | ក |
| **** | | # GEN 1: | Other | Ĭ | î. | 7 |
| W. C. | | M CON TO | O | ğ | Q | ጽ |
| Marked grapher | | | Q | ž | Ş | ਨ |
| Welke No ke | | # Carl | 1 | Ē | 1 | ਨ |
| **** | | # C## #: | 3 | ğ | 1 | 7 |
| History and the second | • | K CAN 4: | 2 | | | } |
| The state of the s | | 河の東京寺 | O#HP | ž | £ | ក |
| *** C** | | R GUN #: | ○ | lex | C Z | ሽ |
| Welke She ke | | # 661 4. | O## | DX. | CHem | ਨ ' |
| N TEN | Q C | 00 | ₹ | × | SE SE | ð |
| | ت ا ا | IL GUN . | Cinas | × | C# 32 | Ō |
| THE THEFT S. C. | \ \ \ - | CACHIO III | 3 | Ì | | ે 4` |
| 22 - A ST | / · / | IN GUN #; | Officer | ^ [| CE | ق |
| | Temp °C Temp °C | (Circle) | <u> </u> | seripti | Cooler Description | C O |
| _ | | | | | 7 | |

٢

Page 20 of 20

DATA VERIFICATION REPORT



March 13, 2024

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

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

Laboratory submittal: 200647-1 Sample date: 2024-03-05

Report received by CADENA: 2024-03-12

Initial Data Verification completed by CADENA: 2024-03-13

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.

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

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 200647-1

| | | Sample Name: Lab Sample ID: Sample Date: | TRIP BLA 2402006 3/5/2024 | 6471 | | | MW-207 2402006 3/5/2024 | 6472 | 4 | |
|-----------|--------------------------|--|---------------------------------|--------|-------|-----------|-------------------------------|--------|-------|-----------|
| | | | | Report | | Valid | | Report | | Valid |
| | Analyte | Cas No. | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier |
| GC/MS VOC | | | | | | | | | | |
| OSW-826 | <u>60D</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-826 | <u>SODSIM</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 # 240-200647-1

CADENA Verification Report: 2024-03-13

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 53416R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-200647-1 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_74 | 240-200647-1 | Water | 03/05/2024 | | X | |
| MW-207S_030524 | 240-200647-2 | Water | 03/05/2024 | | 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 | | X | | X | |
| 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 | Rep | orted | | 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 | Х | | | | Х |
| Internal standard | | Х | | Х | |
| Compound identification and quantitation | | | | | |
| A. Reconstructed ion chromatograms | | Х | | Х | |
| B. Quantitation Reports | | Х | | Х | |
| C. RT of sample compounds within the established RT windows | | Х | | Х | |
| D. Transcription/calculation errors present | | 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: March 26, 2024

PEER REVIEW: Andrew Korycinski

DATE: April 3, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record



| | TestAmerica Labor: | atory location: | Brighton | 10448 Cita | tion Driv | /e, Suit | e 200 / | Brighton, | MI 481 | 116 / | 810-2 | 29-276 | 33 | | | | | | THE LEADER IN ENVIRONMENTAL T | ESTING | | |
|--|--------------------|--|--|------------------|-----------|-------------|--------------------|------------------------|------------------|------------------------|--------------------|---------------|--------|--------------------|-----------|----------------|-----------------------|-----|--|--------------|------------|------|
| Client Contact | Regula | tory program: | | □ DW | | NPDES | 5 | ⊢ RCR | A | Γ. | Other | | | | | | | | | | | |
| Company Name: Arcadis | | | | | | | | | | | | 1 | | | | | | | TestAmerica Laboratorie | s, Inc. | | |
| 20550 C-L+4 D-1 - C-1 - 500 | Client Project | Manager: Kris | Hinskey | | Site | Contac | t: Chri | stina Wea | ver | | | La | b Con | tact: M | ike Del | Monic | 0 | | COC No: | | | |
| Address: 28550 Cabot Drive, Suite 500 | Telephone: 248 | 8-994-2240 | | | Tele | phone: | 248-99 | 4-2240 | | | | Te | leoho | ie: 330- | 497-93 | 96 | | | | | | |
| ity/State/Zip: Novi, MI, 48377 | | | | | | | | | | | | 1. | , | | | | | | 1 of 1 COCs | | | |
| hone: 248-994-2240 | Email: kristoft | fer.hinskey@ar | cadis.com | | 2 | Analysi | s Iurn: | around I i | me | | | - | _ | - | A | nalys | es | | For lab use only | | 100 | |
| none: 248-994-2240 | Sampler Name | | | | TAT | if differen | at from be | low | | П | | | | | | | | | Walk-in client | | 6 | |
| roject Name: Ford LTP Off-Site | | e Jan | , | | | | | 3 weeks | | 1 | | | 1 | | | | | | | | 40-200647 | |
| roject Number: 30167538.402.04 | | ment/Carrier: | | | - 1º | 0 day | | 2 weeks 1 week | | | . | | | | | | 5 | | Lab sampling | | 8 | |
| | Method di Silij | omeno Carrier. | | | | | | 2 days | | ξ | ٨ | _ ا | . 8 | ₹ | | <u>ا ۾</u> ا | 🗟 | | | 100 | | |
| O#30167538.402.04 | Shipping/Track | king No: | | | | | Γ | 1 day | | Mitered Sample (Y / N) | Composite=C/Grab=G | 1,1-DCE 8260D | 2007 | PCE 8260D | | 8260D | 1,4-Dioxane 8260D SIM | | Job/SDG No: | 3.0 | Chain | |
| | | | | Matrix | - | Contain | ners & i | reservative | 62 | Sam | te=C | 1,1-DCE 8260D | ž ž | g 5 | 8 | Vinyl Chloride | ane | | | - | in of | |
| | | | | 1 1 1 | 7 | 2 | = | 2 | | per | Dog. | 2 2 | र् । : | 82 | 826 | 5 | Š | 1 1 | Sample Specific Notes | | | |
| Sample Identification | Sample Date | Sample Time | Van Air | Solid | H2SO4 | HOOH | Og Z | ZaAo NaOH Unpres | o t | Ĕ | S : | - 5 | 3 | PCE 8260D | TCE 8260D | Viny | 4 | | Special Instructions: | | Custod | |
| TRIP BLANK_ 74 | | | 1 | | П | 1 | | | | N | G) | ΧÌ | | (X | X | Х | | | 1 Trip Blank | | dy | |
| MW-2075-030529 | 3/5/24 | 1205 | 6 | | | I | | | | N | (4) | () | Z) | $\langle X$ | X | X | X | | 3 VOAs for 8260D 3 VOAs for 8260D S | | | |
| 1110 2 (3203002) | 2/2/2/ | 1100 | " | | +- | - | 4-1 | | | - | 4 | + | + | 1 | 1 | 1 | | + | 3 VOAS 101 6260D 3 | IIVI | | |
| | | | | | 11 | | | | | H | | | | | | | | | | - 1 | | |
| ··· | | | | | + | \vdash | + | -1-1 | | ┢═╅ | - | + | + | +- | + | - | | + + | | \neg | | |
| | | | | | | | | | | ш | | | 1 | | | | | | | - 1 | | |
| | | | | | + | | \top | \dashv | | Н | \top | \top | \top | | + | | | | | | | |
| | | | | | | | | | | Н | | | | | | | | | | | | |
| | | | | | П | | П | | | П | Т | | Т | Т | | | | | | | | |
| | | | | | \perp | | | - | | | \perp | | _ | \perp | | | | | | | | A NI |
| | | | | | | | | | | 11 | | | | 1 | | | | 1 | 3.4 | TOF | 11GA 90 | TIA |
| | | | - | | + | + | + | \rightarrow | _ | Н | + | - | + | | + | | | + | ĮVI | 74 | 00 | |
| | | | | | 11 | | | | | H | | | | | | l | | | | - 11 | 90 | |
| | | | | | ++ | - | + | ++ | | Н | + | + | + | + | + | | | +++ | | ^ | | |
| | | | | | | | | | | H | | | | | | | | | | | | |
| | | | | | | | \top | | | \Box | \top | | + | _ | 1 | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Possible Hazard Identification Non-Hazard Flammable Skin | Irritant Pois | - P [| Unknow | | Si | ample L | Disposa turn to | (A fee m | ıay be a ⊮ Di | 35C55C | d if sa | mples | are re | tained Archiv | onger t | than 1 | month) Months | | | | | |
| pecial Instructions/QC Requirements & Comments: | initiant Pois | OIL D | Chanow | | | Re | uan to | CHERT | D | isposs | ц Бу С | au | , | AIGU | e ror i | | Mondia | | ······································ | _ | | |
| Sumple Address: 12125 Stark Rd Submit all results through Cadena at Itomalia@cade | | | | | | | | | | | | | | | | | | | | | | |
| | naco.com. Cadena | #E203631 | | | | | | | | | | | | | | | | | | | | |
| evel IV Reporting requested. | To. | | | | | | 1- | | | | | | | | 1 | | | | In the second | | | |
| delinquished by: Lay Little | Company: ARCA | anic | Date 2 | e/Time: 15124 | 150 | S | Rece | ived by: | COLF | 2 (1 | The | 20 | - 6 | | Comp | pany: | ADIS | | 315)24 \50 | 15 | | |
| elinquished by: | Company | 1 | Det | Time | | | | ived by: | ماحومد | , , | '" | 110 | , C, | | Comp | pany | 5,1112 | | Date/Time: | - | | |
| Jammersu | A HVC | adus | 3 | | 11 | 20 | | • | 0 | 76 | 10 | | E | 0 | Comp | E | TA | | 316124 11 | 220 | | |
| Relinquished by: | Company. | | Date | Time: | 112 | 111 | Rece | ived in La | borato | 17 by | ·V | .N | | | | pany: | Ta ~ | | Date/Time: | | | |

62008, TestAmenca Laboratories, Inc. All notics reserved. TestAmenca & Design ¹⁶ are tradomarks of TestAmenca Laboratories, Inc.

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200647-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_74

Lab Sample ID: 240-200647-1 Date Collected: 03/05/24 00:00 **Matrix: Water**

Date Received: 03/07/24 08:00

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/11/24 19:49 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/11/24 19:49 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/11/24 19:49 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/11/24 19:49 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/11/24 19:49 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/11/24 19:49 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 62 - 137 | | | | | 03/11/24 19:49 | 1 |
| 4-Bromofluorobenzene (Surr) | 87 | | 56 - 136 | | | | | 03/11/24 19:49 | 1 |
| Toluene-d8 (Surr) | 101 | | 78 - 122 | | | | | 03/11/24 19:49 | 1 |
| Dibromofluoromethane (Surr) | 96 | | 73 - 120 | | | | | 03/11/24 19:49 | |

Client Sample ID: MW-207S_030524

Date Collected: 03/05/24 12:05

Date Received: 03/07/24 08:00

| Method: SW846 8260D \$ | SIM - Volatile Orga | anic Compou | ınds (GC/N | IS) | | | | |
|------------------------|---------------------|-------------|------------|-----------|---|----------|----------------|---------|
| Analyte | | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 ug/L | | | 03/11/24 22:53 | 1 |

| , | | | · · | | | |
|------------------------------|--------------------|----------------|-----|---------|----------------|---------|
| Surrogate | %Recovery Qualific | er Limits | P | repared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 105 | 68 - 127 | | | 03/11/24 22:53 | 1 |
| | | | | | | |
| Method: SW846 8260D - Volati | le Organic Compo | ounds by GC/MS | | | | |

| Welliou. 344046 0260D - 40 | name Organic | Compounds | by GC/IVIS | | | | | | |
|----------------------------|--------------|-----------|------------|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/12/24 00:24 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/12/24 00:24 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/12/24 00:24 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/12/24 00:24 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/12/24 00:24 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/12/24 00:24 | 1 |
| - | | | | | - | | | | |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 62 - 137 | | 03/12/24 00:24 | 1 |
| 4-Bromofluorobenzene (Surr) | 87 | | 56 - 136 | | 03/12/24 00:24 | 1 |
| Toluene-d8 (Surr) | 100 | | 78 - 122 | | 03/12/24 00:24 | 1 |
| Dibromofluoromethane (Surr) | 98 | | 73 - 120 | | 03/12/24 00:24 | 1 |

Lab Sample ID: 240-200647-2

Matrix: Water