

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 3/6/2024 9:53:36 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-200139-1

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

lowo

Generated 3/6/2024 9:53:36 AM 1

5 6 7

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

Page 2 of 24

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 | 14 |
| QC Sample Results | 15 |
| QC Association Summary | 19 |
| Lab Chronicle | 20 |
| Certification Summary | 21 |
| Chain of Custody | 22 |
| | |

Qualifiers

| Qualifiers | | - 3 |
|----------------|--|-----|
| GC/MS VOA | | |
| Qualifier | Qualifier Description | 4 |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. | |
| S1+ | Surrogate recovery exceeds control limits, high biased. | 5 |
| U | Indicates the analyte was analyzed for but not detected. | |
| Glossary | | 6 |
| Abbreviation | These commonly used abbreviations may or may not be present in this report. | 7 |
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis | |
| %R | Percent Recovery | 8 |
| CFL | Contains Free Liquid | 0 |
| CFU | Colony Forming Unit | |
| CNF | Contains No Free Liquid | 9 |
| 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) | 13 |
| 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

Job ID: 240-200139-1

Eurofins Cleveland

Job Narrative 240-200139-1

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 2/28/2024 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.3°C, 2.6°C, 3.1°C and 4.2°C.

GC/MS VOA

Method 8260D_SIM: Surrogate recovery for the following sample was outside the upper control limit: MW-77S_022224 (240-200139-4). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D_SIM: The surrogate for the MS (240-200139-F-5 MS) failed high. The MS/MSD was done for batch QC only and not client specific. No further analysis for the MS/MSD was done.

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

Client: Arcadis U.S., Inc. 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

Sample Summary

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

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 240-200139-1 | TRIP BLANK_117 | Water | 02/22/24 00:00 | 02/28/24 10:00 |
| 240-200139-2 | MW-97S_022224 | Water | 02/22/24 09:47 | 02/28/24 10:00 |
| 240-200139-3 | MW-77_022224 | Water | 02/22/24 10:49 | 02/28/24 10:00 |
| 240-200139-4 | MW-77S_022224 | Water | 02/22/24 11:56 | 02/28/24 10:00 |
| 240-200139-5 | DUP-06 | Water | 02/22/24 00:00 | 02/28/24 10:00 |

Detection Summary

Job ID: 240-200139-1

Client Sample ID: TRIP BLANK_117

No Detections.

Client Sample ID: MW-97S_022224

No Detections.

| Client Sample ID: MW-77 | _022224 | | Lab Sample ID: 240-200139- | | | | | |
|--------------------------|----------|-----------|----------------------------|------|------|-----------|------------|--------------|
| _ Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac D | Method | Prep Type |
| cis-1,2-Dichloroethene | 0.64 | J | 1.0 | 0.46 | ug/L | 1 | 8260D | Total/NA |
| Client Sample ID: MW-77 | S_022224 | | | | | Lab | Sample ID: | 240-200139-4 |
| No Detections. | | | | | | | | |
| Client Sample ID: DUP-06 | ; | | | | | Lab | Sample ID: | 240-200139-5 |
| | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac D | Method | Prep Type |

Lab Sample ID: 240-200139-1 4 5 7 8 9 10 11 12 13 14 Lab Sample ID: 240-200139-2

Client Sample ID: TRIP BLANK_117

Date Collected: 02/22/24 00:00 Date Received: 02/28/24 10:00

| Method: SW846 8260D - Volati | le Organic Comp | ounds by G | iC/MS | | | | | | |
|------------------------------|-----------------|------------|----------|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 02/29/24 21:10 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 02/29/24 21:10 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 02/29/24 21:10 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 02/29/24 21:10 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 02/29/24 21:10 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 02/29/24 21:10 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 123 | | 62 - 137 | | | - | | 02/29/24 21:10 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 56 - 136 | | | | | 02/29/24 21:10 | 1 |
| Toluene-d8 (Surr) | 107 | | 78 - 122 | | | | | 02/29/24 21:10 | 1 |
| Dibromofluoromethane (Surr) | 106 | | 73 - 120 | | | | | 02/29/24 21:10 | 1 |

Job ID: 240-200139-1

Lab Sample ID: 240-200139-1 Matrix: Water

Matrix: Water

Client Sample ID: MW-97S_022224

Date Collected: 02/22/24 09:47 Date Received: 02/28/24 10:00

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------------|------------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/01/24 16:57 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 68 - 127 | | | - | | 03/01/24 16:57 | 1 |
| Method: SW846 8260D - Volati | le Organic Comp | ounds by G | C/MS | | | | | | |
| Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/01/24 00:48 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/01/24 00:48 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/01/24 00:48 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/01/24 00:48 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/01/24 00:48 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/01/24 00:48 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 122 | | 62 - 137 | | | - | | 03/01/24 00:48 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 56 - 136 | | | | | 03/01/24 00:48 | 1 |
| Toluene-d8 (Surr) | 107 | | 78 - 122 | | | | | 03/01/24 00:48 | 1 |
| Dibromofluoromethane (Surr) | 110 | | 73 - 120 | | | | | 03/01/24 00:48 | 1 |

3/6/2024

Lab Sample ID: 240-200139-2 Matrix: Water

Client Sample ID: MW-77_022224

Date Collected: 02/22/24 10:49 Date Received: 02/28/24 10:00

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---|------------------|-------------|----------|------|------|---|----------|----------------|---------|
| I,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/01/24 17:20 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | | | 68 - 127 | | | - | | 03/01/24 17:20 | 1 |
| Mathadi SW/946 9260D Valat | ile Organie Comr | soundo by (| C/MS | | | | | | |
| Method: SW846 8260D - Volati Analyte | | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | | 1.0 | 0.49 | ug/L | | | 03/01/24 01:11 | 1 |
| cis-1,2-Dichloroethene | 0.64 | J | 1.0 | 0.46 | ug/L | | | 03/01/24 01:11 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/01/24 01:11 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/01/24 01:11 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/01/24 01:11 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/01/24 01:11 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 121 | | 62 - 137 | | | - | | 03/01/24 01:11 | 1 |
| 4-Bromofluorobenzene (Surr) | 97 | | 56 - 136 | | | | | 03/01/24 01:11 | 1 |
| Toluene-d8 (Surr) | 107 | | 78 - 122 | | | | | 03/01/24 01:11 | 1 |
| Dibromofluoromethane (Surr) | 109 | | 73 - 120 | | | | | 03/01/24 01:11 | 1 |

3/6/2024

Job ID: 240-200139-1

Matrix: Water

Lab Sample ID: 240-200139-3

Client Sample ID: MW-77S_022224

Date Collected: 02/22/24 11:56 Date Received: 02/28/24 10:00

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------------|------------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/01/24 17:44 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 142 | S1+ | 68 - 127 | | | - | | 03/01/24 17:44 | 1 |
| Method: SW846 8260D - Volati | le Organic Comp | ounds by G | C/MS | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/01/24 01:35 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/01/24 01:35 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/01/24 01:35 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/01/24 01:35 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/01/24 01:35 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/01/24 01:35 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | | | 62 - 137 | | | - | | 03/01/24 01:35 | 1 |
| 4-Bromofluorobenzene (Surr) | 95 | | 56 - 136 | | | | | 03/01/24 01:35 | 1 |
| Toluene-d8 (Surr) | 106 | | 78 - 122 | | | | | 03/01/24 01:35 | 1 |
| Dibromofluoromethane (Surr) | 107 | | 73 - 120 | | | | | 03/01/24 01:35 | 1 |

3/6/2024

Lab Sample ID: 240-200139-4 Matrix: Water

Client Sample ID: DUP-06

Date Collected: 02/22/24 00:00 Date Received: 02/28/24 10:00

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------------|------------|----------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/01/24 18:08 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fa |
| 1,2-Dichloroethane-d4 (Surr) | 119 | | 68 - 127 | | | - | | 03/01/24 18:08 | |
| Method: SW846 8260D - Volati | le Organic Comp | ounds by G | C/MS | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/04/24 20:38 | |
| cis-1,2-Dichloroethene | 0.63 | J | 1.0 | 0.46 | ug/L | | | 03/04/24 20:38 | |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/04/24 20:38 | |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/04/24 20:38 | |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/04/24 20:38 | |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/04/24 20:38 | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fa |
| 1,2-Dichloroethane-d4 (Surr) | 121 | | 62 - 137 | | | - | | 03/04/24 20:38 | |
| 4-Bromofluorobenzene (Surr) | 98 | | 56 - 136 | | | | | 03/04/24 20:38 | |
| Toluene-d8 (Surr) | 106 | | 78 - 122 | | | | | 03/04/24 20:38 | |
| Dibromofluoromethane (Surr) | 112 | | 73 - 120 | | | | | 03/04/24 20:38 | |

3/6/2024

Job ID: 240-200139-1

Lab Sample ID: 240-200139-5 Matrix: Water

2 3 4

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

| | | | | Percent Su | rrogate Recovery (A | cceptance Limits) | |
|-------------------------|------------------------|----------|----------|------------|---------------------|-------------------|--|
| | | DCA | BFB | TOL | DBFM | | |
| Lab Sample ID | Client Sample ID | (62-137) | (56-136) | (78-122) | (73-120) | | |
| 240-200130-A-15 MS | Matrix Spike | 120 | 102 | 108 | 106 | | |
| 240-200130-B-15 MSD | Matrix Spike Duplicate | 117 | 103 | 108 | 105 | | |
| 240-200139-1 | TRIP BLANK_117 | 123 | 98 | 107 | 106 | | |
| 240-200139-2 | MW-97S_022224 | 122 | 98 | 107 | 110 | | |
| 240-200139-3 | MW-77_022224 | 121 | 97 | 107 | 109 | | |
| 240-200139-4 | MW-77S_022224 | 119 | 95 | 106 | 107 | | |
| 240-200139-5 | DUP-06 | 121 | 98 | 106 | 112 | | |
| 240-200427-C-2 MS | Matrix Spike | 116 | 102 | 106 | 106 | | |
| 240-200427-C-2 MSD | Matrix Spike Duplicate | 114 | 99 | 104 | 104 | | |
| LCS 240-604630/5 | Lab Control Sample | 116 | 102 | 108 | 105 | | |
| LCS 240-604903/5 | Lab Control Sample | 115 | 102 | 107 | 104 | | |
| MB 240-604630/8 | Method Blank | 117 | 98 | 107 | 105 | | |
| MB 240-604903/8 | Method Blank | 121 | 99 | 106 | 108 | | |
| Surrogate Legend | | | | | | | |
| DCA = 1,2-Dichloroethar | ne-d4 (Surr) | | | | | | |
| BFB = 4-Bromofluorober | nzene (Surr) | | | | | | |
| TOL = Toluene-d8 (Surr) | | | | | | | |
| DBFM = Dibromofluoron | nethane (Surr) | | | | | | |

Percent Surrogate Recovery (Acceptance Limits) DCA (68-127) **Client Sample ID** Lab Sample ID 240-200139-2 MW-97S_022224 110 240-200139-3 MW-77_022224 118 142 S1+ 240-200139-4 MW-77S_022224 240-200139-5 DUP-06 119 DUP-06 240-200139-5 MS 146 S1+ 240-200139-5 MSD DUP-06 123 LCS 240-604663/6 Lab Control Sample 116 MB 240-604663/5 Method Blank 103 Surrogate Legend

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

Matrix: Water

Eurofins Cleveland

Prep Type: Total/NA

Prep Type: Total/NA

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

Matrix: Water Analysis Batch: 604630

| | 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 | | | 02/29/24 19:10 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 02/29/24 19:10 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 02/29/24 19:10 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 02/29/24 19:10 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 02/29/24 19:10 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 02/29/24 19:10 | 1 |
| | | | | | | | | | |

| | МВ | МВ | | | | |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 117 | | 62 - 137 | | 02/29/24 19:10 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 56 - 136 | | 02/29/24 19:10 | 1 |
| Toluene-d8 (Surr) | 107 | | 78 - 122 | | 02/29/24 19:10 | 1 |
| Dibromofluoromethane (Surr) | 105 | | 73 - 120 | | 02/29/24 19:10 | 1 |

Lab Sample ID: LCS 240-604630/5 Matrix: Water Analysis Batch: 604630

| | Spike | LCS | LCS | | | | %Rec | |
|--------------------------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,1-Dichloroethene | 25.0 | 27.2 | | ug/L | | 109 | 63 - 134 | |
| cis-1,2-Dichloroethene | 25.0 | 25.4 | | ug/L | | 102 | 77 - 123 | |
| Tetrachloroethene | 25.0 | 27.8 | | ug/L | | 111 | 76 - 123 | |
| trans-1,2-Dichloroethene | 25.0 | 26.1 | | ug/L | | 104 | 75 - 124 | |
| Trichloroethene | 25.0 | 26.3 | | ug/L | | 105 | 70 - 122 | |
| Vinyl chloride | 12.5 | 9.70 | | ug/L | | 78 | 60 - 144 | |

| | LCS | LCS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,2-Dichloroethane-d4 (Surr) | | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 102 | | 56 - 136 |
| Toluene-d8 (Surr) | 108 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 105 | | 73 - 120 |

Lab Sample ID: 240-200130-A-15 MS Matrix: Water Analysis Batch: 604630

Toluene-d8 (Surr)

| | Sample | Sample | Spike | MS | MS | | | | %Rec |
|------------------------------|-----------|-----------|----------|--------|-----------|------|---|------|----------|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| 1,1-Dichloroethene | 1.0 | U | 25.0 | 25.1 | | ug/L | | 101 | 56 - 135 |
| cis-1,2-Dichloroethene | 1.0 | U | 25.0 | 24.1 | | ug/L | | 96 | 66 - 128 |
| Tetrachloroethene | 1.0 | U | 25.0 | 25.5 | | ug/L | | 102 | 62 - 131 |
| trans-1,2-Dichloroethene | 1.0 | U | 25.0 | 24.4 | | ug/L | | 98 | 56 - 136 |
| Trichloroethene | 1.0 | U | 25.0 | 24.3 | | ug/L | | 97 | 61 - 124 |
| Vinyl chloride | 1.0 | U | 12.5 | 9.05 | | ug/L | | 72 | 43 - 157 |
| | MS | MS | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 120 | | 62 - 137 | | | | | | |

| | MS | MS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,2-Dichloroethane-d4 (Surr) | 120 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 102 | | 56 - 136 |

108

Job ID: 240-200139-1

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

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

5

Eurofins Cleveland

Client Sample ID: Matrix Spike

Prep Type: Total/NA

78 - 122

Matrix: Water

Matrix: Water

1,1-Dichloroethene

Tetrachloroethene

Trichloroethene

Vinyl chloride

Surrogate

Toluene-d8 (Surr)

cis-1,2-Dichloroethene

trans-1,2-Dichloroethene

Surrogate

Analyte

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

Lab Sample ID: 240-200130-A-15 MS **Client Sample ID: Matrix Spike** Prep Type: Total/NA Analysis Batch: 604630 MS MS %Recovery Qualifier Limits Dibromofluoromethane (Surr) 106 73 - 120 Lab Sample ID: 240-200130-B-15 MSD **Client Sample ID: Matrix Spike Duplicate** Prep Type: Total/NA Analysis Batch: 604630 MSD MSD %Rec RPD Sample Sample Spike Result Qualifier Added **Result Qualifier** Unit D %Rec Limits RPD Limit 1.0 U 25.0 23.4 ug/L 94 56 - 135 7 26 1.0 U 25.0 98 66 - 128 24.5 ug/L 2 14 10 1.0 U 25.0 22.8 ug/L 91 62 - 131 11 20 1.0 U 25.0 23.7 ug/L 95 56 - 136 3 15 1.0 U 25.0 23.4 ug/L 94 61 - 124 4 15 1.0 U 12.5 8.58 ug/L 69 43 - 157 24 5 MSD MSD Qualifier %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 117 62 - 137 4-Bromofluorobenzene (Surr) 103 56 - 136 108 78 - 122 Dibromofluoromethane (Surr) 105 73 - 120 **Client Sample ID: Method Blank**

Lab Sample ID: MB 240-604903/8 Matrix: Water Analysis Batch: 604903

| | 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 | | | 03/04/24 17:27 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/04/24 17:27 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/04/24 17:27 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/04/24 17:27 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/04/24 17:27 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/04/24 17:27 | 1 |
| | MB | МВ | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 121 | | 62 - 137 | | | - | | 03/04/24 17:27 | 1 |
| 4-Bromofluorobenzene (Surr) | 99 | | 56 - 136 | | | | | 03/04/24 17:27 | 1 |
| Toluene-d8 (Surr) | 106 | | 78 - 122 | | | | | 03/04/24 17:27 | 1 |

Lab Sample ID: LCS 240-604903/5 Matrix: Water

Analysis Batch: 604903

| | Spike | LCS | LCS | | | | %Rec | |
|--------------------------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,1-Dichloroethene | 25.0 | 26.1 | | ug/L | | 104 | 63 - 134 | |
| cis-1,2-Dichloroethene | 25.0 | 25.0 | | ug/L | | 100 | 77 - 123 | |
| Tetrachloroethene | 25.0 | 27.5 | | ug/L | | 110 | 76 - 123 | |
| trans-1,2-Dichloroethene | 25.0 | 25.3 | | ug/L | | 101 | 75 - 124 | |
| Trichloroethene | 25.0 | 26.0 | | ug/L | | 104 | 70 - 122 | |

Eurofins Cleveland

1

Job ID: 240-200139-1

Prep Type: Total/NA

Toluene-d8 (Surr) 106 78 - 122 03/04/24 17:27 Dibromofluoromethane (Surr) 108 73 - 120 03/04/24 17:27 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

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

| Lab Sample ID: LCS 240-604 Matrix: Water Analysis Batch: 604903 | 1903/5 | | | | | | Clien | t Sample | e ID: Lab Control Sample Prep Type: Total/NA |
|---|-----------|-----------|----------|--------|-----------|------|-------|----------|---|
| | | | Spike | LCS | LCS | | | | %Rec |
| Analyte | | | Added | Result | Qualifier | Unit | D | %Rec | Limits |
| Vinyl chloride | | | 12.5 | 9.17 | | ug/L | | 73 | 60 - 144 |
| | LCS | LCS | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | | | 62 - 137 | | | | | | |
| 4-Bromofluorobenzene (Surr) | 102 | | 56 _ 136 | | | | | | |
| Toluene-d8 (Surr) | 107 | | 78 - 122 | | | | | | |
| Dibromofluoromethane (Surr) | 104 | | 73 _ 120 | | | | | | |

Lab Sample ID: 240-200427-C-2 MS Matrix: Water

Analysis Batch: 604903

| | Sample | Sample | Spike | MS | MS | | | | %Rec | |
|--------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,1-Dichloroethene | 1.0 | U | 25.0 | 24.6 | | ug/L | | 99 | 56 - 135 | |
| cis-1,2-Dichloroethene | 1.0 | U | 25.0 | 24.2 | | ug/L | | 97 | 66 - 128 | |
| Tetrachloroethene | 1.0 | U | 25.0 | 24.4 | | ug/L | | 98 | 62 - 131 | |
| trans-1,2-Dichloroethene | 1.0 | U | 25.0 | 23.6 | | ug/L | | 95 | 56 - 136 | |
| Trichloroethene | 1.0 | U | 25.0 | 24.0 | | ug/L | | 96 | 61 - 124 | |
| Vinyl chloride | 1.0 | U | 12.5 | 9.15 | | ug/L | | 73 | 43 - 157 | |

| | MS | MS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,2-Dichloroethane-d4 (Surr) | 116 | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 102 | | 56 - 136 |
| Toluene-d8 (Surr) | 106 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 106 | | 73 - 120 |

Lab Sample ID: 240-200427-C-2 MSD Matrix: Water

Analysis Batch: 604903

| Analysis Batch. 004000 | | | | | | | | | | | |
|--------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| | Sample | Sample | Spike | MSD | MSD | | | | %Rec | | RPD |
| Analyte | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| 1,1-Dichloroethene | 1.0 | U | 25.0 | 24.4 | | ug/L | | 97 | 56 - 135 | 1 | 26 |
| cis-1,2-Dichloroethene | 1.0 | U | 25.0 | 23.6 | | ug/L | | 95 | 66 - 128 | 2 | 14 |
| Tetrachloroethene | 1.0 | U | 25.0 | 23.0 | | ug/L | | 92 | 62 - 131 | 6 | 20 |
| trans-1,2-Dichloroethene | 1.0 | U | 25.0 | 23.3 | | ug/L | | 93 | 56 - 136 | 2 | 15 |
| Trichloroethene | 1.0 | U | 25.0 | 23.5 | | ug/L | | 94 | 61 - 124 | 2 | 15 |
| Vinyl chloride | 1.0 | U | 12.5 | 9.01 | | ug/L | | 72 | 43 - 157 | 2 | 24 |
| | | | | | | | | | | | |

| | MSD | MSD | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,2-Dichloroethane-d4 (Surr) | | | 62 - 137 |
| 4-Bromofluorobenzene (Surr) | 99 | | 56 _ 136 |
| Toluene-d8 (Surr) | 104 | | 78 - 122 |
| Dibromofluoromethane (Surr) | 104 | | 73 - 120 |

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Type: Total/NA

Job ID: 240-200139-1

10

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

| Lab Sample ID: MB 240-60466 | 3/5 | | | | | | | | | | | Client | Sample ID: | Mothod | Blank |
|------------------------------|-----------|------|-----------|----------|------|--------|-------|------|-------|-----|-----|---------|-------------|--------------------|---------|
| Matrix: Water | 5/5 | | | | | | | | | | | Gilent | | метной Туре: То | |
| | | | | | | | | | | | | | Frep | Type: IC | Jal/NA |
| Analysis Batch: 604663 | | мв | MD | | | | | | | | | | | | |
| Amelia | | | | | | | | 11 | | _ | | | A | | D!! |
| Analyte | RE | | Qualifier | | RL - | | MDL | | | D | P | repared | Analy | | Dil Fac |
| 1,4-Dioxane | | 2.0 | U | | 2.0 | | 0.86 | ug/L | | | | | 03/01/24 | 10:35 | 1 |
| | | ΜВ | МВ | | | | | | | | | | | | |
| Surrogate | %Reco | very | Qualifier | Limits | 5 | | | | | | P | repared | Analy | zed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | | 103 | | 68 - 12 | 27 | | | | | _ | | | 03/01/24 | 10:35 | 1 |
| Lab Sample ID: LCS 240-6046 | 63/6 | | | | | | | | | CII | ont | Sampl | e ID: Lab C | ontrol S | amplo |
| Matrix: Water | 03/0 | | | | | | | | | CII | ent | Sampi | | Type: To | |
| Analysis Batch: 604663 | | | | | | | | | | | | | пер | Type. IC | |
| Analysis Batch. 004005 | | | | Spike | | LCS | LCS | | | | | | %Rec | | |
| Analyte | | | | Added | | Result | | fier | Unit | | D | %Rec | Limits | | |
| 1,4-Dioxane | | | | 10.0 | | 9.20 | duun | | ug/L | | _ | 92 | 75 - 121 | | |
| ., | | | | 10.0 | | 0.20 | | | ~g, _ | | | 02 | | | |
| | LCS | LCS | | | | | | | | | | | | | |
| Surrogate | %Recovery | Qual | ifier | Limits | | | | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 116 | | | 68 - 127 | | | | | | | | | | | |
| Lab Sample ID: 240-200139-5 | MS | | | | | | | | | | | | Client Sam | ple ID: C | 0UP-06 |
| Matrix: Water | | | | | | | | | | | | | | Type: To | |
| Analysis Batch: 604663 | | | | | | | | | | | | | | | |
| | Sample | Sam | ple | Spike | | MS | MS | | | | | | %Rec | | |
| Analyte | Result | Qual | ifier | Added | I | Result | Quali | fier | Unit | | D | %Rec | Limits | | |
| 1,4-Dioxane | 2.0 | U | | 10.0 | | 9.40 | | | ug/L | | _ | 94 | 20 - 180 | | |
| | MS | мs | | | | | | | | | | | | | |
| Surrogate | %Recovery | Qual | ifier | Limits | | | | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 146 | S1+ | | 68 - 127 | | | | | | | | | | | |
| Lab Sample ID: 240-200139-5 | MSD | | | | | | | | | | | | Client Sam | nie ID: F | |
| Matrix: Water | | | | | | | | | | | | | | туре: То | |
| Analysis Batch: 604663 | | | | | | | | | | | | | iieh | ., pe. 10 | |
| Analysis Batoli. 004000 | Sample | Sam | ple | Spike | | MSD | MSD | | | | | | %Rec | | RPD |
| Analyte | Result | | | Added | I | Result | | fier | Unit | | D | %Rec | Limits | RPD | Limit |
| 1,4-Dioxane | 2.0 | | | 10.0 | | 8.59 | | | ug/L | | _ | 86 | 20 - 180 | 9 | 20 |
| | | | | | | | | | 5 | | | | | | |
| | MSD | | | | | | | | | | | | | | |
| Surrogate | %Recovery | Qual | itier | Limits | | | | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 123 | | | 68 - 127 | | | | | | | | | | | |

GC/MS VOA

Analysis Batch: 604630

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------------------|-----------------------------------|-----------------------|-----------------|---------------------|------------|
| 240-200139-1 | TRIP BLANK_117 | Total/NA | Water | 8260D | |
| 240-200139-2 | MW-97S_022224 | Total/NA | Water | 8260D | |
| 240-200139-3 | MW-77_022224 | Total/NA | Water | 8260D | |
| 240-200139-4 | MW-77S_022224 | Total/NA | Water | 8260D | |
| MB 240-604630/8 | Method Blank | Total/NA | Water | 8260D | |
| LCS 240-604630/5 | Lab Control Sample | Total/NA | Water | 8260D | |
| 240-200130-A-15 MS | Matrix Spike | Total/NA | Water | 8260D | |
| 240-200130-B-15 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D | |
| 240-200139-2 | MW-97S_022224 | Total/NA | Water | 8260D SIM | |
| Lab Sample ID 240-200139-2 | Client Sample ID MW-97S 022224 | Prep Type Total/NA | Matrix Water | Method 8260D SIM | Prep Batcl |
| 240-200139-3 | MW-77_022224 | Total/NA | Water | 8260D SIM | |
| 240-200139-4 | MW-77S_022224 | Total/NA | Water | 8260D SIM | |
| 240-200139-5 | DUP-06 | Total/NA | Water | 8260D SIM | |
| MB 240-604663/5 | Method Blank | Total/NA | Water | 8260D SIM | |
| _CS 240-604663/6 | Lab Control Sample | Total/NA | Water | 8260D SIM | |
| 240-200139-5 MS | DUP-06 | Total/NA | Water | 8260D SIM | |
| 240-200139-5 MSD | DUP-06 | Total/NA | Water | 8260D SIM | |
| nalysis Batch: 604903 | 3 | | | | |
| ah Camula ID | Client Semula ID | Dren Tyre | Mateix | Mathad | Dren Dete |

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 240-200139-5 | DUP-06 | Total/NA | Water | 8260D | |
| MB 240-604903/8 | Method Blank | Total/NA | Water | 8260D | |
| LCS 240-604903/5 | Lab Control Sample | Total/NA | Water | 8260D | |
| 240-200427-C-2 MS | Matrix Spike | Total/NA | Water | 8260D | |
| 240-200427-C-2 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260D | |

| lient Samp | le ID: TRIP B | SLANK_117 | | | | | | Lab Sample ID: | 240-200139- |
|-----------------------|------------------|-----------|-----|----------|--------|---------|---------|----------------|--------------|
| | : 02/22/24 00:0 | | | | | | | | Matrix: Wate |
| ate Received: | : 02/28/24 10:00 |) | | | | | | | |
| | Batch | Batch | | Dilution | Batch | | | Prepared | |
| Ргер Туре | Туре | Method | Run | Factor | | Analyst | Lab | or Analyzed | |
| Total/NA | Analysis | 8260D | | 1 | 604630 | CDG | EET CLE | 02/29/24 21:10 | |
| lient Samp | le ID: MW-97 | ′S_022224 | | | | | | Lab Sample ID: | 240-200139- |
| ate Collected | : 02/22/24 09:4 | 7 | | | | | | | Matrix: Wate |
| ate Received: | : 02/28/24 10:00 |) | | | | | | | |
| - | Batch | Batch | | Dilution | Batch | | | Prepared | |
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed | |
| Total/NA | Analysis | 8260D | | 1 | 604630 | CDG | EET CLE | 03/01/24 00:48 | |
| Total/NA | Analysis | 8260D SIM | | 1 | 604663 | MDH | EET CLE | 03/01/24 16:57 | |
| lient Samp | le ID: MW-77 | _022224 | | | | | | Lab Sample ID: | 240-200139 |
| | : 02/22/24 10:49 | | | | | | | - | Matrix: Wat |
| ate Received: | : 02/28/24 10:00 |) | | | | | | | |
| - | Batch | Batch | | Dilution | Batch | | | Prepared | |
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed | |
| Total/NA | Analysis | 8260D | | | 604630 | CDG | EET CLE | 03/01/24 01:11 | |
| Total/NA | Analysis | 8260D SIM | | 1 | 604663 | MDH | EET CLE | 03/01/24 17:20 | |
| lient Samp | le ID: MW-77 | ′S_022224 | | | | | | Lab Sample ID: | 240-200139- |
| ate Collected | : 02/22/24 11:50 | 6 | | | | | | | Matrix: Wate |
| ate Received: | : 02/28/24 10:00 |) | | | | | | | |
| - | Batch | Batch | | Dilution | Batch | | | Prepared | |
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed | |
| Total/NA | Analysis | 8260D | | 1 | 604630 | CDG | EET CLE | 03/01/24 01:35 | |
| Total/NA | Analysis | 8260D SIM | | 1 | 604663 | MDH | EET CLE | 03/01/24 17:44 | |
| lient Samp | le ID: DUP-0 | 6 | | | | | | Lab Sample ID: | 240-200139 |
| ate Collected | : 02/22/24 00:0 | D | | | | | | | Matrix: Wat |
| ate Received: | : 02/28/24 10:00 |) | | | | | | | |
| - | Batch | Batch | | Dilution | Batch | | | Prepared | |
| | T | Method | Run | Factor | Number | Analyst | Lab | or Analyzed | |
| Ргер Туре | Туре | mourou | | | | - | | - | |
| Prep Type Total/NA | Analysis | 8260D | | | 604903 | LEE | EET CLE | 03/04/24 20:38 | |

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 - 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 |
| lowa | State | 421 | 06-01-25 |
| Kentucky (WW) | State | KY98016 | 12-30-24 |
| Minnesota | NELAP | 039-999-348 | 12-31-24 |
| New Jersey | NELAP | OH001 | 07-01-24 |
| 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 |

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



Chain of Custody Record



THE LEADER IN ENVIRONMENTAL TESTING

| Telephone: 248- Em all: kristoffe Sampler Nam e: //D (CC) | 'er.hinskey@arc :: | cadis.com | | | Telepi | | 18-994- | -2240 | | | | | | Mike De | | | | | | | | | |
|--|---|-----------------------------------|--|---|---|---|--|---|---|---|--|--|--|---|---|---|--|---|---|--|--|--|--|
| Em all: kristoffe Sampler Name: //D(C(f | 'er.hinskey@arc :: | | | | A | | | | | | | Telepi | hone: 33 | 0-497-9 | 396 | | | | | | | | |
| Sampler Name: //D(Gr | | | | | | nalysis | Furnar | ound Ti | | | | | | | | | | 1 of 1 COCs | | | | | |
| Sampler Name: //D(Gr | | | | | | Analysis Turnaround Time | | | | | | | | A | nalys | es | | For lab use only | Cs | | | | |
| Notar | | Sampler Name: AND (UN Schenzel | | | | | | | | | | | | | T | | | Walk-in client | | | | | |
| | | | dav | | weeks | | | | | | | | | | Lab sampling | - | | | | | | | |
| ethod of Shipr | ment/Carrier: | <u> </u> | <u> </u> | | | ω, | E 14 | week | | E U | | | 0 | | | SIM | * | | | | | | |
| hipping/Track | ing No: | | | | | | | | | e (Y/I Grab | | 260D | 82 60 | | 82 60D | 2600 5 | | Job/SDG Na | | | | | |
| | | | Matrix | | | Containe | rs & Pre | eservativ | a | ampl e=C/ | 3260[| Е 87 | -DCE | | | пе 8, | | | | | | | |
| Sample Date | Sample Time | Air Aqueon | Sediment Solid | Other: | H2SO4 | HN 03 HCI | NaOH Znaď | VaDres Uapres | Other: | Filtered S _i Composite | 1, 1-DCE { | cis-1,2-D(| Trans-1,2- | PCE 8260 TCE 8260 | Vinyl Chlo | 1,4-Dioxa | | Sample Specific Not Special Instruction | | | | | |
| | | 1 | | | | 1 | | | _ | NG | X | X | X] | x x | X | | | 1 Trip Blank | | | | | |
| 12/22/24 | 09:47 | 6 | | | | 6 | | | | N G | X | X | X | XX | X | × | | 3 VOAs for 8260D 3 VOAs for 8260D | | | | | |
| 2/22/24 | 10:49 | 6 | | | | G | | | | N 6 | $\overline{\lambda}$ | x | X | XX | × | × | | | | | | | |
| 12/22/24 | 11:56 | 6 | | | | 6 | | | | NG | \wedge | × | X | k X | x | × | | | | | | | |
| 02/22/24 | | 6 | | | | 6 | | | | NG | х | \times | X | x x | × | К | | ¥ | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | \downarrow | | | | | | | | | _ | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | \square | 2 | 240-20 | 00139 | Chain | of Cus | stody | | | | | | | | | | | | |
| | J | | | | Sar | mpie v m | posal (| A 100 M | ay De a | ssessea | it samp | les are | retaine | d longer | than 1 | month) | | | | | | | |
| Poiso | un B | Unknown | n | | | Relui | rn to Ch | ienl | U | sposal B | y Lab | | Arc | 11ve For | 1 | Months | | | | | | | |
| | Sample Date 02/22/24 02/22/24 02/22/24 02/22/24 | | Sample Date Sample Time $ = $ | Matrix Matrix Sample Date Sample Time $\frac{1}{2}$ | M atrix M atrix Sample Date Sample Time $\frac{1}{2}$ | Matrix Matrix Sample Date Sample Time $\frac{1}{2}$ | M atrix Containe Sample Date Sample Time $\frac{1}{2}$ | Matrix Containers S. Pr. Sample Date Sample Time $\frac{1}{2}$ $\frac{5}{2}$ $\frac{1}{2}$ $\frac{5}{2}$ $\frac{1}{2}$ $\frac{5}{2}$ $\frac{1}{2}$ $\frac{5}{2}$ $\frac{1}{2}$ </td <td>M atrix Containers & Preservative Sample Date Sample Time $\frac{1}{24}$ $\frac{1}{24}$ $\frac{1}{24}$ $\frac{1}{25}$ $\frac{1}{2$</td> <td>Sample Date Sample Time I</td> <td> 1 1 N G 02/22/24 09:47 G G N G 02/22/24 10:49 G G N G 02/22/24 10:56 G G N G 02/22/24 - G G</td> <td>Sample Date Sample Time II II II II II III III IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII</td> <td> 1 1 N G X X 02/22/24 09:47 G G N G X X 02/22/24 10:49 G G N G X X 02/22/24 10:56 G G N G X X 02/22/24 - G G N G X X 02/22/24 -</td> <td> 1 1 N G X X X X 02/22/24 09:47 G G N G X X X 02/22/24 10:49 G G N G X X X 02/22/24 10:49 G G N G X X X 02/22/24 10:49 G G N G X X X 02/22/24 10:49 G G N G X X X 02/22/24 10:49 G G N G X X X 02/22/24 10:49 G G N G X X X 02/22/24 - G G N G X X X 02/22/24 - G G N G X X X 02/22/24 - G G N G X X X 02/22/24 - G G N G X X X 02/22/24 - G N G X X X X 02/22/24 - G G N G X X X 02/22/24 - G N G X X X X 02/22/24 - G G N G X X X 02/22/24 - G G N G X X <t< td=""><td> 1 1 N G X X X X X X 02/22/24 09:47 G G N G X X X X X 02/22/24 10:49 G G N G X X X X X 02/22/24 10:49 G G N G X X X X X 02/22/24 10:49 G G N G X X X X 02/22/24 10:49 G G N G X X X X 02/22/24 10:49 G G N G X X X X 02/22/24 10:49 G G N G X X X X 02/22/24 - G G N G X X X X 02/22/24 - G G N G X X X X 02/22/24 - G G N G X X X X 02/22/24 - G N G X X X X X 02/22/24 - G N G X X X X X 02/22/24 - G N G X X X X X 02/22/24 - G N G X X X X 02/22/24 - G N G X X X X 02/22/24 - G I I I I I</td><td> 1 1 N G X X X X X X X X X X X X X X X X X X</td><td> 1 1 N G X X X X X X X X 02/22/24 09:47 6 6 N 6 X X X X X X X X X 02/22/24 10:49 6 6 N 6 X X X X X X X X X 02/22/24 10:49 6 6 N 6 X X X X X X X X X 02/22/24 10:49 6 6 N 6 X X X X X X X X 02/22/24 10:49 6 6 N 6 X X X X X X X X 02/22/24 10:49 6 6 N 6 X X X X X X X X 02/22/24 - 6 6 N 6 X X X X X X X 02/22/24 - 6 6 N 6 X X X X X X X 02/22/24 - 6 6 N 6 X X X X X X X 02/22/24 - 6 6 N 6 X X X X X X X 02/22/24 - 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td> -1 1 N G X X X X X X X X X 02/22/24 00:47 G G N G X X X X X X X X X 02/22/24 10:49 G G N G X X X X X X X X X 02/22/24 10:49 G G N G X X X X X X X X X 02/22/24 10:49 G G N G X X X X X X X X X 02/22/24 10:49 G G N G X X X X X X X X 02/22/24 10:49 G G N G X X X X X X X X 02/22/24 10:49 G G N G X X X X X X X X 02/22/24 10:49 G G N G X X X X X X X X 02/22/24 - G G N G X X X X X X X 02/22/24 - G G N G X X X X X X X 02/22/24 - G G N G X X X X X X X 02/22/24 - G G N G X X X X X X X 02/22/24 - G G N G X X X X X X X 02/22/24 - G G N G X X X X X X X X 02/22/24 - G G</td><td> -1 1 N G X X X X X X X 1 Trip Blank 02/22/24 09:47 6 6 N 6 X X X X X X X X 3 VOAs for 82600 02/22/24 10:49 6 6 N 6 X X X X X X X X 1 Trip Blank 02/22/24 10:49 6 6 N 6 X X X X X X X X 1 Trip Blank 02/22/24 10:49 6 6 N 6 X X X X X X X X 1 Trip Blank 02/22/24 10:49 6 6 N 6 X X X X X X X X 1 Trip Blank 02/22/24 10:49 6 6 N 6 X X X X X X X X 1 Trip Blank 02/22/24 10:49 6 6 N 6 X X X X X X X X 1 Trip Blank 02/22/24 - 6 6 N 6 X X X X X X X X 1 Trip Blank 02/22/24 - 6 6 N 6 X X X X X X X X 1 Trip Blank 02/22/24 - 6 0 0 1 0 02/22/24 - 6 0 0 0 02/22/24 - 6 0 0 0 02/22/24 - 0</td></t<></td> | M atrix Containers & Preservative Sample Date Sample Time $\frac{1}{24}$ $\frac{1}{24}$ $\frac{1}{24}$ $\frac{1}{25}$ $\frac{1}{2$ | Sample Date Sample Time I | 1 1 N G 02/22/24 09:47 G G N G 02/22/24 10:49 G G N G 02/22/24 10:56 G G N G 02/22/24 - G G | Sample Date Sample Time II II II II II III III IIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII | 1 1 N G X X 02/22/24 09:47 G G N G X X 02/22/24 10:49 G G N G X X 02/22/24 10:56 G G N G X X 02/22/24 - G G N G X X 02/22/24 - | 1 1 N G X X X X 02/22/24 09:47 G G N G X X X 02/22/24 10:49 G G N G X X X 02/22/24 10:49 G G N G X X X 02/22/24 10:49 G G N G X X X 02/22/24 10:49 G G N G X X X 02/22/24 10:49 G G N G X X X 02/22/24 10:49 G G N G X X X 02/22/24 - G G N G X X X 02/22/24 - G G N G X X X 02/22/24 - G G N G X X X 02/22/24 - G G N G X X X 02/22/24 - G N G X X X X 02/22/24 - G G N G X X X 02/22/24 - G N G X X X X 02/22/24 - G G N G X X X 02/22/24 - G G N G X X <t< td=""><td> 1 1 N G X X X X X X 02/22/24 09:47 G G N G X X X X X 02/22/24 10:49 G G N G X X X X X 02/22/24 10:49 G G N G X X X X X 02/22/24 10:49 G G N G X X X X 02/22/24 10:49 G G N G X X X X 02/22/24 10:49 G G N G X X X X 02/22/24 10:49 G G N G X X X X 02/22/24 - G G N G X X X X 02/22/24 - G G N G X X X X 02/22/24 - G G N G X X X X 02/22/24 - G N G X X X X X 02/22/24 - G N G X X X X X 02/22/24 - G N G X X X X X 02/22/24 - G N G X X X X 02/22/24 - G N G X X X X 02/22/24 - G I I I I I</td><td> 1 1 N G X X X X X X X X X X X X X X X X X X</td><td> 1 1 N G X X X X X X X X 02/22/24 09:47 6 6 N 6 X X X X X X X X X 02/22/24 10:49 6 6 N 6 X X X X X X X X X 02/22/24 10:49 6 6 N 6 X X X X X X X X X 02/22/24 10:49 6 6 N 6 X X X X X X X X 02/22/24 10:49 6 6 N 6 X X X X X X X X 02/22/24 10:49 6 6 N 6 X X X X X X X X 02/22/24 - 6 6 N 6 X X X X X X X 02/22/24 - 6 6 N 6 X X X X X X X 02/22/24 - 6 6 N 6 X X X X X X X 02/22/24 - 6 6 N 6 X X X X X X X 02/22/24 - 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</td><td> -1 1 N G X X X X X X X X X 02/22/24 00:47 G G N G X X X X X X X X X 02/22/24 10:49 G G N G X X X X X X X X X 02/22/24 10:49 G G N G X X X X X X X X X 02/22/24 10:49 G G N G X X X X X X X X X 02/22/24 10:49 G G N G X X X X X X X X 02/22/24 10:49 G G N G X X X X X X X X 02/22/24 10:49 G G N G X X X X X X X X 02/22/24 10:49 G G N G X X X X X X X X 02/22/24 - G G N G X X X X X X X 02/22/24 - G G N G X X X X X X X 02/22/24 - G G N G X X X X X X X 02/22/24 - G G N G X X X X X X X 02/22/24 - G G N G X X X X X X X 02/22/24 - G G N G X X X X X X X X 02/22/24 - G G</td><td> -1 1 N G X X X X X X X 1 Trip Blank 02/22/24 09:47 6 6 N 6 X X X X X X X X 3 VOAs for 82600 02/22/24 10:49 6 6 N 6 X X X X X X X X 1 Trip Blank 02/22/24 10:49 6 6 N 6 X X X X X X X X 1 Trip Blank 02/22/24 10:49 6 6 N 6 X X X X X X X X 1 Trip Blank 02/22/24 10:49 6 6 N 6 X X X X X X X X 1 Trip Blank 02/22/24 10:49 6 6 N 6 X X X X X X X X 1 Trip Blank 02/22/24 10:49 6 6 N 6 X X X X X X X X 1 Trip Blank 02/22/24 - 6 6 N 6 X X X X X X X X 1 Trip Blank 02/22/24 - 6 6 N 6 X X X X X X X X 1 Trip Blank 02/22/24 - 6 0 0 1 0 02/22/24 - 6 0 0 0 02/22/24 - 6 0 0 0 02/22/24 - 0</td></t<> | 1 1 N G X X X X X X 02/22/24 09:47 G G N G X X X X X 02/22/24 10:49 G G N G X X X X X 02/22/24 10:49 G G N G X X X X X 02/22/24 10:49 G G N G X X X X 02/22/24 10:49 G G N G X X X X 02/22/24 10:49 G G N G X X X X 02/22/24 10:49 G G N G X X X X 02/22/24 - G G N G X X X X 02/22/24 - G G N G X X X X 02/22/24 - G G N G X X X X 02/22/24 - G N G X X X X X 02/22/24 - G N G X X X X X 02/22/24 - G N G X X X X X 02/22/24 - G N G X X X X 02/22/24 - G N G X X X X 02/22/24 - G I I I I I | 1 1 N G X X X X X X X X X X X X X X X X X X | 1 1 N G X X X X X X X X 02/22/24 09:47 6 6 N 6 X X X X X X X X X 02/22/24 10:49 6 6 N 6 X X X X X X X X X 02/22/24 10:49 6 6 N 6 X X X X X X X X X 02/22/24 10:49 6 6 N 6 X X X X X X X X 02/22/24 10:49 6 6 N 6 X X X X X X X X 02/22/24 10:49 6 6 N 6 X X X X X X X X 02/22/24 - 6 6 N 6 X X X X X X X 02/22/24 - 6 6 N 6 X X X X X X X 02/22/24 - 6 6 N 6 X X X X X X X 02/22/24 - 6 6 N 6 X X X X X X X 02/22/24 - 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | -1 1 N G X X X X X X X X X 02/22/24 00:47 G G N G X X X X X X X X X 02/22/24 10:49 G G N G X X X X X X X X X 02/22/24 10:49 G G N G X X X X X X X X X 02/22/24 10:49 G G N G X X X X X X X X X 02/22/24 10:49 G G N G X X X X X X X X 02/22/24 10:49 G G N G X X X X X X X X 02/22/24 10:49 G G N G X X X X X X X X 02/22/24 10:49 G G N G X X X X X X X X 02/22/24 - G G N G X X X X X X X 02/22/24 - G G N G X X X X X X X 02/22/24 - G G N G X X X X X X X 02/22/24 - G G N G X X X X X X X 02/22/24 - G G N G X X X X X X X 02/22/24 - G G N G X X X X X X X X 02/22/24 - G G | -1 1 N G X X X X X X X 1 Trip Blank 02/22/24 09:47 6 6 N 6 X X X X X X X X 3 VOAs for 82600 02/22/24 10:49 6 6 N 6 X X X X X X X X 1 Trip Blank 02/22/24 10:49 6 6 N 6 X X X X X X X X 1 Trip Blank 02/22/24 10:49 6 6 N 6 X X X X X X X X 1 Trip Blank 02/22/24 10:49 6 6 N 6 X X X X X X X X 1 Trip Blank 02/22/24 10:49 6 6 N 6 X X X X X X X X 1 Trip Blank 02/22/24 10:49 6 6 N 6 X X X X X X X X 1 Trip Blank 02/22/24 - 6 6 N 6 X X X X X X X X 1 Trip Blank 02/22/24 - 6 6 N 6 X X X X X X X X 1 Trip Blank 02/22/24 - 6 0 0 1 0 02/22/24 - 6 0 0 0 02/22/24 - 6 0 0 0 02/22/24 - 0 | | | | |

C2005, Tethan erica Laboratories, Inc. All rights received. Testamerica & Design th pretrademarks of Testamerica Laboratories, Inc.

| Ļ | 5 |
|---|---|
| | |
| | |
| 8 | 3 |
| |) |
| | |
| | |
| | |
| | 3 |
| 1 | 4 |

| Burding Sample, Rescipt, Konnikerrette- Lagin # Start Filter, Techniker, Ster Name Site Name Operation Color: Tocored and Color: Strong Location Strong Location Packing micrait used, Dapped Theorem Operation Strong Location Packing micrait used, Dapped Theorem Strong Location The mapped color Packing micrait used, Dapped Theorem Strong Location The mapped color Packing Micrait and momportance Strong Location The mapped color Packing and color the concidition of the color of packing with the COC? Strong Location Theorem Packing and mapped and the concidition of the color of packing with the COC? Strong Location Theorem Packing and mapped color Theorem Strong Location Theorem Pacone color Strong Location < |
|--|
| In Facility: Stern Narritice |
| The Tockling Steelling Steelling Togging The Tockling Ste Name Togging Togging tecored an CLANT Waynomt Clent Cooler Bax Storage Location to Scoler # Togging Fish Waynomt Clent Cooler Bax Storage Location to COULANT Weight Floam Plastic Bay None Other COULANT Weight Band to outside of the cooler(s)? If Yes Quanty Cooler Tonge Location GUN # (CP CP Observed Cooler Temp CC CC Coulary (CP CP Observed Cooler Temp CC CC Coulary (CP (CP CC CC CC Coulary (CP CP Observed Cooler Temp CC CC Coulary (CP (CP CC CC CC CC Coulary weet tamper/custody seals on the bothe(s) or bothe kaingue & datts (LHg/MeHg)? Yes CC Vere tamper/custody seals intext and uncongramping bothe coular (b) indicate? Yes CC CC |
| $\label{eq:constraints} \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$ |
| In Facility Simple Receipt PermiNarrative |
| BALCQL Site Name Site Name Site Name Received on Clean Cooler Opened on Opened on Opened on 1* Code Exp UPS FAS Waypoint Clean Cooler Box Other cking material used Bentbe Wast Foam Box Clean Cooler Box Other Other cking material used Bentbe Wast Foam Plastic Bag None Other Other coolar ff CCP COOLANT Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Yes Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Yes Were tamper/custody seals intact and uncompromised? Yes prest packing sing intactabed & signed in the appropriate place? Yes sivere the person(s) who collected the samples clearly identified on the COC? Yes 'silal botite labels (ID/Date/Time) be recorded with the COC? Yes 'each sample(s) at the cord promised? Yes 'size orner bottle(s) used for the test(s) indicated? Yes 'each sample(s) at the cord specify preservatives ONS, # of containers ONS, and sam Yes 'size a VOA son the COC? |
| BIAC Clere? land Sample Receipt FormiNa traitive |
| $\label{eq:scalar_constraint} \begin the except of the second of the cooler of the co$ |
| uits == Clevichtrid Sample Receipt Formi/Na triaftive |
| |

| 3 |
|------------|
| 1-NC-0 |
| 8 |
| 5 |
| ×. |
| Ω |
| pola. |
| 5 |
| |
| 8 |
| - |
| <u>, 2</u> |
| |
| 1 |
| - |
| - 2 |
| 7 |
| ~ |
| |
| 5 |
| <u>5</u> . |
| 5 |
| |
| - F |
| |
| |

| THE PARTY ON TOTAL | | | | l | | 1 |
|---|---------|-----------------------------|-----------|------------|---------------------------------------|-------------|
| With the second | | | RGUNE | | 1 | 5 |
| Window Hones | | | R GW F: | 0 | ž | 8 9 1 |
| | | | | Other | Cilent Bex | 7 |
| Welks Sheeks Dryte | | | | | Citer Ver | 8 2 |
| Welke Notice by its | | | | | Column and | 5 |
| | | | NOAN 6: | | | - { |
| | | | WORN : | - | | 7 2 |
| | | | MCMN 4: | r Öther | Citral Beat | 8 2 |
| | | | | x Offer | client flox | ю С |
| Weites Bietes Bijter | | | | 9 | Cini Sex | 8 |
| Helice Musice Dyla | | | | Ŷ | | 8 2 |
| Weites Hereites Bytes | | | | | Cloid Pox | 77 12 |
| AND | | | B GUN d: | 1 | Clerk tex | 8 |
| Weiler She Strat | | | * GVN *: | t | ł | |
| | | | ROW : | ł | | 1 |
| | | | # C+H +: | - 1 | | 8 8 |
| | | | # GVH 6: | | Cleat Gox | 8 |
| With the state | | | | , Citter | Clent lox | 8 |
| Miles and for high | | | | Ö | Clent Bex | 8 |
| Weite ave les Prite | | | | e E | | ۲ ۲ |
| Welke She ice Dry to | | | | I. | | 8 |
| Medice merced | | | W CAN S | | | |
| | | | X CHV 4: | ŧ | | |
| Water House By by | | | | C O#H | A A | 50 Class |
| Walks West Parts | | | | r Qilhar | ht Jax | EC Cleft |
| Wester Wester | | | | O | HI BOX | |
| MAINS NAME AND AND | | | | 0 | E S | 8 0 1 |
| Walter Barris Barris | | | | | 1 Ž | 8 011 |
| Worke Hus he WY | | | | 2 | i i i i i i i i i i i i i i i i i i i | TC Clear |
| Welko Heeter Mit | | | H CHL | Said | 10.0 | |
| Weiter mer sen min | | | IR CAN : | | | |
| Will Fight Street To Street | | | W CBN #: | ¥ | | 1 |
| Weby Hone | | | RGUN & | Other | 1 Dex | |
| Wate Het te Frit | | | IX GUN 8: | Other | et lox | to climit |
| White Have be byb | 4.9 | 4.9 | W GUN 8. | 0### | nt Box | K) Cierri |
| Were and the first | ルンド | | | Q#141 | I I X | R) Cherr |
| Welce Blue Ice by to | J. | R | 1) | Other | Z IOX | (TC) C4+1 |
| Welke She hee byk | 2 J |))) | | | | |
| Welke She ice by ice | とら | U., | | | 13 | |
| (Circle) | Temp °C | IR Gun # Observed Corrected | IR Gun # | iption | Cooler Description | Coolei |
| | | | | | | |

Login#:

DATA VERIFICATION REPORT



March 06, 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: 200139-1 Sample date: 2024-02-22 Report received by CADENA: 2024-03-06 Initial Data Verification completed by CADENA: 2024-03-06 Number of Samples:5 Sample Matrices: Water, trip blank and field duplicate 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:

SURROGATE recoveries were outside of laboratory control limits biased HIGH for 1 of 1 surrogates in the tests/samples noted. Associated results were either non-detect or QC samples so were not affected by the high bias and qualification of results was not required. GCMS-SIM VOC sample -04 and MS for sample -05.

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

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory Submittal: 200139-1

| | | Sample Name: Lab Sample ID: Sample Date: | 2402001 | RIP BLANK_117 402001391 /22/2024 | | | MW-97S_022224 2402001392 2/22/2024 | | | | MW-77_ 2402001 2/22/202 | .393 | | | MW-77S 2402001 2/22/202 | 1394 | | DUP-06 2402001395 2/22/2024 | | | | |
|-----------|--------------------------|--|---------|--|-------|-----------|--|--------|-------|-----------|-------------------------------|--------|-------|-----------|-------------------------------|--------|-------|-----------------------------------|----------|--------|-------|-----------|
| | | A N | | Report | | Valid | . | Report | | Valid | | Report | | Valid | . | Report | | Valid | . | Report | | Valid |
| | Analyte | Cas No. | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier |
| GC/MS VOC | | | | | | | | | | | | | | | | | | | | | | |
| OSW-8260 | D | | | | | | | | | | | | | | | | | | | | | |
| | 1,1-Dichloroethene | 75-35-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | cis-1,2-Dichloroethene | 156-59-2 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | 0.64 | 1.0 | ug/l | J | ND | 1.0 | ug/l | | 0.63 | 1.0 | ug/l | J |
| | Tetrachloroethene | 127-18-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | trans-1,2-Dichloroethene | 156-60-5 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | Trichloroethene | 79-01-6 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| | Vinyl chloride | 75-01-4 | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | | ND | 1.0 | ug/l | |
| OSW-8260 | IDSIM | | | | | | | | | | | | | | | | | | | | | |
| | 1,4-Dioxane | 123-91-1 | | | | | ND | 2.0 | ug/l | | ND | 2.0 | ug/l | | ND | 2.0 | ug/l | | ND | 2.0 | ug/l | |



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-200139-1 CADENA Verification Report: 2024-03-06

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 53227R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-200139-1 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 | | WIGUIX | Collection Date | Parent Sample | VOC | VOC SIM |
| TRIP BLANK_117 | 240-200139-1 | Water | 02/22/2024 | | Х | |
| MW-97S_022224 | 240-200139-2 | Water | 02/22/2024 | | Х | Х |
| MW-77_022224 | 240-200139-3 | Water | 02/22/2024 | | Х | Х |
| MW-77S_022224 | 240-200139-4 | Water | 02/22/2024 | | Х | Х |
| DUP-06 | 240-200139-5 | Water | 02/22/2024 | MW-77_022224 | Х | Х |

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

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

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.

DATA REVIEW

Results for duplicate samples are summarized in the following table.

| Sample ID/Duplicate ID | Compound | Sample Result (µg/L) | Duplicate Result (µg/L) | RPD |
|------------------------|------------------------|-------------------------|----------------------------|-----|
| MW-77_022224 / DUP-06 | cis-1,2-Dichloroethene | 0.64 J | 0.63 J | AC |

Notes:

AC - Acceptable

The results between the parent sample and field duplicate were acceptable.

6. Compound Identification

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

All identified compounds met the specified criteria.

7. System Performance and Overall Assessment

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

DATA REVIEW

DATA VALIDATION CHECKLIST FOR VOCs

| VOCs: 8260D/8260D-SIM | Rep | orted | | rmance ptable | Not Required |
|---|-------|-------|----|------------------|-----------------|
| | No | Yes | No | Yes | Required |
| GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G | C/MS) | | 1 | | |
| Tier II Validation | | | | | |
| Holding times/Preservation | | Х | | X | |
| Tier III Validation | | 1 | | 1 | 1 |
| System performance and column resolution | | Х | | X | |
| Initial calibration %RSDs | | Х | | Х | |
| Continuing calibration RRFs | | Х | | Х | |
| Continuing calibration %Ds | | Х | | Х | |
| Instrument tune and performance check | | Х | | Х | |
| Ion abundance criteria for each instrument used | | Х | | Х | |
| Field Duplicate RPD | | Х | | Х | |
| Internal standard | | Х | | Х | |
| Compound identification and quantitation | | | | | |
| A. Reconstructed ion chromatograms | | Х | | Х | |
| B. Quantitation Reports | | Х | | Х | |
| C. RT of sample compounds within the established RT windows | | Х | | X | |
| D. Transcription/calculation errors present | | Х | | Х | |
| E. Reporting limits adjusted to reflect sample dilutions | | Х | | Х | |

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

| VALIDATION PERFORMED BY: | Bindu Sree M B |
|--------------------------|----------------|
| SIGNATURE: | BASHMB |
| DATE: | March 20, 2024 |
| | |

PEER REVIEW: Andrew Korycinski

DATE: April 2, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS





Chain of Custody Record



TestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

| Client Contact | Regulat | ory program: | | ſ | DW | | ∣= NF | PDES | | — 1 | RCRA | | ٣ | Other | rГ | | | | | | | | | | Tethan | uine I ab | anatania | |
|---|--|---------------|---------|------|-----------------------------|----------------|-----------|--------------|---------------|----------------|-------|----------|--------------|----------------------|---------------------------------|-------------------|---------------|------------------|-----------|----------------|------------------|-------------|------|----|-----------------|---------------------------|------------|-------------|
| Company Name: Arcadis | Client Project N | lanager: Kris | H Inske | ey | | | Site Co | ntact: | Chri | st in a | Weav | er | | | | Lab C | ontac | t: MI | e D el | Monic | 0 | | | | COC No | rica Lab | UF 3LUFIC: | <u>, n.</u> |
| Address: 28550 Cabot Drive, Suite 500 | Telephone: 248 | -004-7740 | | | | | Teleph | one: 24 | 49-99 | 4-224 | 40 | | | | _ | Telep | hone: | 330-4 | 97-93 | 96 | | | | | | | | |
| City/State/Zip: Novi, Mi, 48377 | | | | | | | | alysis | | | | | | | | | | | | nalys | 245 | | | | 1 For lab us | of 1 | COCs | _ |
| Phone: 248-994-2240 | Em all: kristoff | er.hlaskey@ar | cadis.o | mon | | | A. | arysis | | 21 001 | | | | | | | | _ | | 113133 | | | - | 1 | | | 1 | |
| Project Name: Ford LTP Off-Site | Sampler Name | Selia | | | | | TATIC | til lerent l | | clow 3 wee | eks | | | | | | | | | | | | | | Walk-in c | hent | 1 | |
| Project Number: 30167538.402.04 | / VO LUT Method of Ship | Scher | 12e | 1 | | | 10 0 | day | | 2 wee 1 wee | | | | | | | | | | 6 | - | | | | Lab samp | ling | - | |
| · | | | | | | | | | [| 2 day | 5 | | (N) | D=d a | | | 82 60D | | | 82 60D | D SIM | | | | | | | |
| PO # 30167538.402.04 | Shipping/Track | ing No: | | | | | | | | l day | | | Sample (Y/N) | 1 Gr | 0 | 8260 | ы 8 | | | e 82 6 | 8260D | | | _ | Job/SDG | Nα | | |
| | | | | | i atrix Iugungos Soft | Other: | H2SO4 | IDH | HOBN | Т | | lber: u | Filtered Sam | Composite=C / Grab=G | 1,1-DCE 8260D | cis-1,2-DCE 8260D | Trans-1,2-DCE | PCE & 60D | TCE 82600 | Vinyl Chloride | 1,4-Dioxane | | | | | nple Speci pecial Inst | | |
| Sample I dentification | Sample Date | Sample Time | 2 | | 8 8 | 5 | HH | | ž | <u>5 7</u> | 5 8 | | | | - | - | | | _ | 1 | <u> </u> | | - | | | | | _ |
| TRIP BLANK_117 | | | | 1 | | | | 1 | | | | | Ν | G | Х | Х | Х | Х | Х | X | | | | | 111 | p Blan | K | |
| MW-975_022224 | 02/22/24 | | | 6 | | | | G | | | | | N | G | X | X | Х | Х | X | X | × | | | | | As for 8 As for 8 | | IM |
| MW-77_022224 | 02/22/24 | 10:49 | | 6 | | | | G | | | | | N | 6 | \wedge | x | Х | X | × | x | × | | | | | Í | | |
| Mw-775-022224 | 62/22/24 | 11:56 | | 6 | | | | 6 | | | | | Ņ | 6 | \boldsymbol{X} | X | × | x | × | x | × | | | | | | | |
| DUP-06 | 02/22/24 | - | | 6 | | | | 6 | | | | | N | 6. | Х | | X | × | x | × | K | | | | | T | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | - | 240- | 2001 | 139 (| Chain | of C | Custo | ody | | | | | | | | | | | | | |
| Possible Hazard I dentification Von-Hazard Flammable Skin Irrita | ant Poiso | n B f | Unkr | 10wn | | | Sam | | sposa m to | | | ay be as | | | | les are | | ned io rchive | | than 1 | | i) onths | | | • | | | |
| Special Instructions/QC Requirements & Comments: | | | | | | | | | | | | | , | / | | | | | | - | | | | | | | | _ |
| Sample Address: BOSton POSH Row Submit all results through Cadena at jtomalia@cadenaco | .com. Cadena # | Æ203631 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Level IV Reporting requested. | | | | | | | | | | | | | | | | | | | | | - | | _ | | | | | |
| Relinquished by: | Company: Arcad:5 02/22/24 15. | | 06 | | R ece | rived 1 NO√ | by: LC | bid | 5- | 100 | 99 | C | | | Com | oany: Ar | luc | 1:5 | | | Dale/Tim QZ/2 | 2124 | 151 | 06 | | | | |
| Relinquished by Comment of | Company: Arcad:S Company: Arcad:S Company: Arcad:S Date Time: Date Time: 2/22/24 15: Date Time: 2/27/24 15: Date Time: Date Ti | | 103 | 0 | Rece | ived | by: | 2 | | _ | _ | | | | Company: ETA Date Time: 2/21/24 | | by | | | | | | | | | | | |
| Relinquished by | Company: EETA Date/Time: | | | | | Rece | elved | in Lai | borator | у ру | : | | | | | Сот | pany: | | | | | Date/Tim | e: 1 | (| | | | |

C2005, Tethamerica Laboratories, Inc. All rights received. Testamerica & Design ¹⁴⁴ are trademarks of Testamerica Laboratories, Inc.

Client Sample ID: TRIP BLANK_117

Date Collected: 02/22/24 00:00 Date Received: 02/28/24 10:00

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------|-----------|-----------|--------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 02/29/24 21:10 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 02/29/24 21:10 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 02/29/24 21:10 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 02/29/24 21:10 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 02/29/24 21:10 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 02/29/24 21:10 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |

| Surrogale | %Recovery Quaimer | Linnis | Prepared | Analyzea | Diirac |
|------------------------------|-------------------|----------|----------|----------------|--------|
| 1,2-Dichloroethane-d4 (Surr) | 123 | 62 - 137 | | 02/29/24 21:10 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | 56 - 136 | | 02/29/24 21:10 | 1 |
| Toluene-d8 (Surr) | 107 | 78 - 122 | | 02/29/24 21:10 | 1 |
| Dibromofluoromethane (Surr) | 106 | 73 - 120 | | 02/29/24 21:10 | 1 |

Client Sample ID: MW-97S_022224 Date Collected: 02/22/24 09:47 Date Received: 02/28/24 10:00

| Date Received: 02/28/24 10:0 | 0 | | | | | | | | | | |
|--|-----------|-----------|----------|------|------|---|----------|----------------|---------|--|--|
| Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS) | | | | | | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac | | |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/01/24 16:57 | 1 | | |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac | | |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 68 - 127 | | | - | | 03/01/24 16:57 | 1 | | |

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/01/24 00:48 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/01/24 00:48 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/01/24 00:48 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/01/24 00:48 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/01/24 00:48 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/01/24 00:48 | 1 |

| Surrogate | %Recovery Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|---------------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 122 | 62 - 137 | | 03/01/24 00:48 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | 56 - 136 | | 03/01/24 00:48 | 1 |
| Toluene-d8 (Surr) | 107 | 78 - 122 | | 03/01/24 00:48 | 1 |
| Dibromofluoromethane (Surr) | 110 | 73 - 120 | | 03/01/24 00:48 | 1 |

Client Sample ID: MW-77_022224 Date Collected: 02/22/24 10:49

| Date | Received: | 02/28/24 | 10: | 00 |
|------|------------------|----------|-----|----|

| Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS) | | | | | | | | | | | |
|--|-----------|-----------|----------|-----------|---|----------|----------------|---------|--|--|--|
| Analyte | Result | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac | | | |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 ug/L | | | 03/01/24 17:20 | 1 | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | | | |
| 1,2-Dichloroethane-d4 (Surr) | 118 | | 68 - 127 | | - | | 03/01/24 17:20 | 1 | | | |

Lab Sample ID: 240-200139-1 Matrix: Water

Lab Sample ID: 240-200139-2

| 1/24 16:57 | 1 |
|------------|---|
| | |
| | |

Matrix: Water

Lab Sample ID: 240-200139-3 Matrix: Water

Client Sample ID: MW-77_022224

Lab Sample ID: 240-200139-3 Matrix: Water

| Mictiliou. 011040 0200D - 10 | Siatile Organie | Compoun | | | | | | | |
|------------------------------|-----------------|-----------|----------|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/01/24 01:11 | 1 |
| cis-1,2-Dichloroethene | 0.64 | J | 1.0 | 0.46 | ug/L | | | 03/01/24 01:11 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/01/24 01:11 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/01/24 01:11 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/01/24 01:11 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/01/24 01:11 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 121 | | 62 - 137 | | | | | 03/01/24 01:11 | 1 |
| 4-Bromofluorobenzene (Surr) | 97 | | 56 - 136 | | | | | 03/01/24 01:11 | 1 |
| Toluene-d8 (Surr) | 107 | | 78 - 122 | | | | | 03/01/24 01:11 | 1 |
| | | | | | | | | | |

73 - 120

Client Sample ID: MW-77S_022224 Date Collected: 02/22/24 11:56 Date Received: 02/28/24 10:00

Dibromofluoromethane (Surr)

Lab Sample ID: 240-200139-4

Lab Sample ID: 240-200139-5

03/01/24 01:11

Matrix: Water

1

| Method: SW846 8260D SIN | I - Volatile Orga | anic Comp | ounds (GC/N | IS) | | | | | |
|------------------------------|-------------------|-----------|-------------|------|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 03/01/24 17:44 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 142 | S1+ | 68 - 127 | | | | | 03/01/24 17:44 | 1 |

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

109

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/01/24 01:35 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 03/01/24 01:35 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/01/24 01:35 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/01/24 01:35 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/01/24 01:35 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/01/24 01:35 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|---------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 119 | | 62 - 137 | | 3/01/24 01:35 | 1 |
| 4-Bromofluorobenzene (Surr) | 95 | | 56 - 136 | 0 | 3/01/24 01:35 | 1 |
| Toluene-d8 (Surr) | 106 | | 78 - 122 | 0 | 3/01/24 01:35 | 1 |
| Dibromofluoromethane (Surr) | 107 | | 73 - 120 | 0 | 3/01/24 01:35 | 1 |

Client Sample ID: DUP-06

Date Collected: 02/22/24 00:00 Date Received: 02/28/24 10:00

| Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS) | | | | | | | | | | | |
|--|-----------|-----------|----------|-----------|---|----------|----------------|---------|--|--|--|
| Analyte | Result | Qualifier | RL | MDL Unit | D | Prepared | Analyzed | Dil Fac | | | |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 ug/L | | | 03/01/24 18:08 | 1 | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | | | |
| 1,2-Dichloroethane-d4 (Surr) | | | 68 - 127 | | - | | 03/01/24 18:08 | 1 | | | |

Matrix: Water

Date Received: 02/28/24 10:00

Lab Sample ID: 240-200139-5 Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 03/04/24 20:38 | 1 |
| cis-1,2-Dichloroethene | 0.63 | J | 1.0 | 0.46 | ug/L | | | 03/04/24 20:38 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/04/24 20:38 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 03/04/24 20:38 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 03/04/24 20:38 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 03/04/24 20:38 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 121 | | 62 - 137 | | | - | | 03/04/24 20:38 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 56 - 136 | | | | | 03/04/24 20:38 | 1 |
| Toluene-d8 (Surr) | 106 | | 78 - 122 | | | | | 03/04/24 20:38 | 1 |
| Dibromofluoromethane (Surr) | 112 | | 73 - 120 | | | | | 03/04/24 20:38 | 1 |