

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 5/18/2023 3:54:35 PM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-184631-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





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Job Notes

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

Authorization

low

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

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Qualifiers

| GC/MS VOA | | |
|-----------|--|---|
| Qualifier | Qualifier Description | |
| S1+ | Surrogate recovery exceeds control limits, high biased. | |
| U | Indicates the analyte was analyzed for but not detected. | 5 |

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| ¤ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CFU | Colony Forming Unit |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | Detection Limit (DoD/DOE) |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision Level Concentration (Radiochemistry) |
| EDL | Estimated Detection Limit (Dioxin) |
| LOD | Limit of Detection (DoD/DOE) |
| LOQ | Limit of Quantitation (DoD/DOE) |
| MCL | EPA recommended "Maximum Contaminant Level" |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| MPN | Most Probable Number |
| MQL | Method Quantitation Limit |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| NEG | Negative / Absent |
| POS | Positive / Present |
| PQL | Practical Quantitation Limit |
| PRES | Presumptive |
| QC | Quality Control |
| RER | Relative Error Ratio (Radiochemistry) |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |
| TNTC | Too Numerous To Count |

Job ID: 240-184631-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-184631-1

Receipt

The samples were received on 5/4/2023 11:14 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.2°C and 1.6°C

GC/MS VOA

Method 8260D: Four surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: (LCS 460-908833/3) and (LCSD 460-908833/4). The result has been reported and qualified.

Method 8260D: Surrogate recovery for the following sample was outside the upper control limit: TRIP BLANK_105 (240-184631-1). This sample did not contain any target analytes; therefore, re-analysis was not performed.

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

Method Summary

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

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

Protocol References:

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

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

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Sample Summary

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

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 240-184631-1 | TRIP BLANK_105 | Water | 05/01/23 00:00 | 05/04/23 11:14 |
| 240-184631-2 | MW-147S_050123 | Water | 05/01/23 15:20 | 05/04/23 11:14 |

| Detection | Summary |
|-----------|---------|
| | |

Client Sample ID: TRIP BLANK_105

No Detections.

Client Sample ID: MW-147S_050123

No Detections.

Lab Sample ID: 240-184631-1

Lab Sample ID: 240-184631-2

This Detection Summary does not include radiochemical test results.

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Client Sample ID: TRIP BLANK_105 Date Collected: 05/01/23 00:00 Date Received: 05/04/23 11:14

Lab Sample ID: 240-184631-1

Matrix: Water

5

8

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 05/12/23 21:30 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 05/12/23 21:30 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/12/23 21:30 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 05/12/23 21:30 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/12/23 21:30 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 05/12/23 21:30 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | | | 70 - 128 | | | - | | 05/12/23 21:30 | 1 |
| Dibromofluoromethane (Surr) | 98 | | 77 - 124 | | | | | 05/12/23 21:30 | 1 |
| Toluene-d8 (Surr) | 99 | | 80 - 120 | | | | | 05/12/23 21:30 | 1 |
| 4-Bromofluorobenzene | 121 | S1+ | 76 - 120 | | | | | 05/12/23 21:30 | 1 |

Client Sample ID: MW-147S_050123 Date Collected: 05/01/23 15:20 Date Received: 05/04/23 11:14

Job ID: 240-184631-1

Lab Sample ID: 240-184631-2 Matrix: Water

5 6 7

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|----------------|-----------|-------------|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 05/07/23 07:22 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene | 109 | | 75 - 133 | | | | | 05/07/23 07:22 | 1 |
| Method: SW846 8260D - Vo | latile Organic | Compound | ds bv GC/MS | | | | | | |
| Analyte | - | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 05/12/23 23:46 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 05/12/23 23:46 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/12/23 23:46 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 05/12/23 23:46 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/12/23 23:46 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 05/12/23 23:46 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 109 | | 70 - 128 | | | | | 05/12/23 23:46 | 1 |
| Dibromofluoromethane (Surr) | 98 | | 77 - 124 | | | | | 05/12/23 23:46 | 1 |
| Toluene-d8 (Surr) | 100 | | 80 - 120 | | | | | 05/12/23 23:46 | 1 |
| 4-Bromofluorobenzene | 120 | | 76 - 120 | | | | | 05/12/23 23:46 | 1 |

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Surrogate Summary

Method: 8260D - Volatile Organic Compour **Matrix: Water**

| • | | | De | roont Surr | | ery (Acceptance Limits) | |
|-----------------------|-------------------------|----------|----------|--------------|-------------|-------------------------|---|
| | | DCA | DBFM | TOL | BFB | | |
| Lab Sample ID | Client Sample ID | (70-128) | (77-124) | (80-120) | (76-120) | | |
| 240-184631-1 | TRIP BLANK_105 | 110 | 98 | 99 | 121 S1+ | | 1 |
| 240-184631-2 | MW-147S_050123 | 109 | 98 | 100 | 120 | | |
| LCS 460-908833/3 | Lab Control Sample | 103 | 91 | 99 | 121 S1+ | | |
| _CSD 460-908833/4 | Lab Control Sample Dup | 101 | 92 | 100 | 122 S1+ | | |
| VB 460-908833/7 | Method Blank | 106 | 95 | 100 | 119 | | 2 |
| Surrogate Legend | | | | | | | |
| DCA = 1,2-Dichloroeth | | | | | | | |
| DBFM = Dibromofluor | () | | | | | | |
| TOL = Toluene-d8 (Su | , | | | | | | ī |
| BFB = 4-Bromofluorob | benzene | | | | | | |
| | IM - Volatile Organic (| Compound | ds (GC/ | MS) | | | |
| atrix: Water | | | | | | Prep Type: Total/NA | |
| | | | Pe | ercent Surro | ogate Recov | ery (Acceptance Limits) | |
| | | BFB | | | | | ī |
| Lab Sample ID | Client Sample ID | (75-133) | | | | | |
| 240-184631-2 | MW-147S_050123 | 109 | | | | | |
| LCS 460-907549/4 | Lab Control Sample | 107 | | | | | |
| LCSD 460-907549/5 | Lab Control Sample Dup | 108 | | | | | |
| MB 460-907549/8 | Method Blank | 105 | | | | | |

Surrogate Legend

BFB = 4-Bromofluorobenzene

Job ID: 240-184631-1

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

Lab Sample ID: MB 460-908833/7

Matrix: Water Analysis Batch: 908833

| | MB | MB | | | | | | | |
|--------------------------|-------|-----------|-----|------|------|---|----------|----------------|---------|
| Analyte R | esult | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.49 | ug/L | | | 05/12/23 20:21 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 05/12/23 20:21 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/12/23 20:21 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 05/12/23 20:21 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/12/23 20:21 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 05/12/23 20:21 | 1 |

| | MB | МВ | | | | |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 70 - 128 | | 05/12/23 20:21 | 1 |
| Dibromofluoromethane (Surr) | 95 | | 77 - 124 | | 05/12/23 20:21 | 1 |
| Toluene-d8 (Surr) | 100 | | 80 - 120 | | 05/12/23 20:21 | 1 |
| 4-Bromofluorobenzene | 119 | | 76 - 120 | | 05/12/23 20:21 | 1 |

Lab Sample ID: LCS 460-908833/3 Matrix: Water Analysis Batch: 908833

| | Spike | LCS | LCS | | | | %Rec | |
|--------------------------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| 1,1-Dichloroethene | 20.0 | 19.7 | | ug/L | | 98 | 68 - 133 | |
| cis-1,2-Dichloroethene | 20.0 | 19.4 | | ug/L | | 97 | 78 - 121 | |
| Tetrachloroethene | 20.0 | 20.5 | | ug/L | | 103 | 70 - 127 | |
| trans-1,2-Dichloroethene | 20.0 | 19.7 | | ug/L | | 98 | 74 - 126 | |
| Trichloroethene | 20.0 | 19.6 | | ug/L | | 98 | 71_121 | |
| Vinyl chloride | 20.0 | 18.3 | | ug/L | | 92 | 55 - 144 | |

| | LCS | LCS | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 70 - 128 |
| Dibromofluoromethane (Surr) | 91 | | 77 - 124 |
| Toluene-d8 (Surr) | 99 | | 80 - 120 |
| 4-Bromofluorobenzene | 121 | S1+ | 76 - 120 |

Lab Sample ID: LCSD 460-908833/4 Matrix: Water Analysis Batch: 908833

| | Spike | LCSD | LCSD | | | | %Rec | | RPD |
|--------------------------|-------|--------|-----------|------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| 1,1-Dichloroethene | 20.0 | 20.4 | | ug/L | | 102 | 68 - 133 | 3 | 30 |
| cis-1,2-Dichloroethene | 20.0 | 20.1 | | ug/L | | 100 | 78 - 121 | 3 | 30 |
| Tetrachloroethene | 20.0 | 21.6 | | ug/L | | 108 | 70 - 127 | 5 | 30 |
| trans-1,2-Dichloroethene | 20.0 | 20.4 | | ug/L | | 102 | 74 - 126 | 4 | 30 |
| Trichloroethene | 20.0 | 20.1 | | ug/L | | 100 | 71_121 | 2 | 30 |
| Vinyl chloride | 20.0 | 19.0 | | ug/L | | 95 | 55 - 144 | 4 | 30 |

| | LCSD | LCSD | |
|------------------------------|-----------|-----------|----------|
| Surrogate | %Recovery | Qualifier | Limits |
| 1,2-Dichloroethane-d4 (Surr) | 101 | | 70 - 128 |
| Dibromofluoromethane (Surr) | 92 | | 77 - 124 |
| Toluene-d8 (Surr) | 100 | | 80 - 120 |

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

Job ID: 240-184631-1

Prep Type: Total/NA

Client Sample ID: Method Blank

| Client Sample ID | Lab Control Sample Dup Prep Type: Total/NA |
|------------------|---|

QC Sample Results

| | | (| QC Samp | ble Res | ults | | | | | | |
|--|--------------|---------------------|--------------|----------|-----------|----------|----------|-----------|----------------------|---------|--------------|
| Client: ARCADIS US Inc Project/Site: Ford LTP - Off S | Site | | | | | | | | Job ID: 2 | 40-184 | 631-1 |
| lethod: 8260D - Volati | ile Organic | c Com | pounds by | GC/MS | (Contin | ued) | | | | | |
| Lab Sample ID: LCSD 460 Matrix: Water Analysis Batch: 908833 |)-908833/4 | | | | C | Client S | ample | ID: Lab | Control Prep Ty | | |
| Alldiysis Daten. 200000 | 1050 | LCSD | | | | | | | | | |
| Surrogate | %Recovery | | · Limits | | | | | | | | |
| 4-Bromofluorobenzene | | S1+ | 76 - 120 | | | | | | | | |
| Method: 8260D SIM - V | /olatile Org | ganic (| Compound | ls (GC/M | S) | | | | | | |
| Lab Sample ID: MB 460-90 | 07549/8 | | | _ | _ | | Clie | ent Sam | ple ID: M | | |
| Matrix: Water | | | | | | | | | Prep Ty | pe: Tot | tal/NA |
| Analysis Batch: 907549 | | | | | | | | | | | |
| Analyta | Pr | MB MB esult Qual | lifior | RL | MDL Unit | | D P | repared | Analys | | Dil Eac |
| Analyte 1,4-Dioxane | | $\frac{2.0}{2.0}$ U | | | 0.86 ug/L | | <u> </u> | repareu | Analyz 05/07/23 | | Dil Fac 1 |
| 1,1 Dioxano | | | | 2.0 | 0.00 | | | | | 00 | |
| Surragata | %Paca | MB MB very Qual | alifier Limi | ita | | | | Proported | Analy | -04 | Dil Fac |
| Surrogate 4-Bromofluorobenzene | | 105 Qua | | 133 | | | | Prepared | Analyz | | DII Fac 1 |
| - | | 100 | | | | | | | •••• | 00 | - |
| Lab Sample ID: LCS 460-9 Matrix: Water | 907549/4 | | | | | Clie | ent Sai | mple ID | : Lab Cor Prep Ty | | |
| Analysis Batch: 907549 | | | | | | | | | | | |
| - | | | Spike | - | LCS | | | | %Rec | | |
| Analyte | | | Added | | Qualifier | | D | %Rec | Limits | | |
| 1,4-Dioxane | | | 5.00 | 4.09 | | ug/L | | 82 | 57 - 124 | | |
| | LCS | LCS | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | | | | | | | | | |
| 4-Bromofluorobenzene | 107 | | 75 - 133 | | | | | | | | |
| Lab Sample ID: LCSD 460 | 0-907549/5 | | | | (| Client S | ample | ID: Lab | | Sample | e Dup |
| Matrix: Water | | | | | | | | | Prep Ty | | |
| Analysis Batch: 907549 | | | | | | | | | | | |
| | | | Spike | | LCSD | | _ | | %Rec | | RPD |
| Analyte | | | Added | | Qualifier | - | D | %Rec | Limits | RPD | Limit |
| 1,4-Dioxane | | | 5.00 | 4.20 | | ug/L | | 84 | 57 - 124 | 2 | 30 |
| | | LCSD | | | | | | | | | |
| Surrogate | %Recovery | | | - | | | | | | | |
| 4-Bromofluorobenzene | 108 | | 75 - 133 | | | | | | | | |

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GC/MS VOA

Analysis Batch: 907549

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---|--|-----------------------------------|--------------------------|--------------------------|------------|
| 240-184631-2 | MW-147S_050123 | Total/NA | Water | 8260D SIM | |
| VB 460-907549/8 | Method Blank | Total/NA | Water | 8260D SIM | |
| _CS 460-907549/4 | Lab Control Sample | Total/NA | Water | 8260D SIM | |
| _CSD 460-907549/5 | Lab Control Sample Dup | Total/NA | Water | 8260D SIM | |
| nalysis Batch: 908 | | Pron Type | Matrix | Method | Pron Bate |
| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method 8260D | Prep Batcl |
| nalysis Batch: 908 Lab Sample ID 240-184631-1 240-184631-2 | | Prep Type Total/NA Total/NA | Matrix Water Water | Method 8260D 8260D | Prep Batch |
| Lab Sample ID 240-184631-1 | Client Sample ID TRIP BLANK_105 | Total/NA | Water | 8260D | Prep Batcl |
| L ab Sample ID 240-184631-1 240-184631-2 | Client Sample ID TRIP BLANK_105 MW-147S_050123 | Total/NA Total/NA | Water Water | 8260D 8260D | Prep Batcl |

Matrix: Water

Lab Sample ID: 240-184631-1

Client Sample ID: TRIP BLANK_105 Date Collected: 05/01/23 00:00 Date Received: 05/04/23 11:14

| | Batch | Batch | | Dilution | Batch | | | Prepared | |
|---------------|---------------|-------------|-----|----------|--------|---------|---------|-------------------|----------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed | |
| Total/NA | Analysis | 8260D | | 1 | 908833 | SZD | EET EDI | 05/12/23 21:30 | |
| Client Sam | ple ID: MW | -147S_05012 | 3 | | | | Lab | Sample ID: 240-18 | 4631-2 |
| Date Collecte | d: 05/01/23 1 | 5:20 | | | | | | - Matrix | x: Water |
| Date Receive | d: 05/04/23 1 | 1:14 | | | | | | | |

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|-----------|-----|----------|--------|---------|---------|----------------|
| Prep Туре | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | ; | 1 | 908833 | SZD | EET EDI | 05/12/23 23:46 |
| Total/NA | Analysis | 8260D SIM | | 1 | 907549 | KLB | EET EDI | 05/07/23 07:22 |

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Eurofins Cleveland

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Job ID: 240-184631-1

Laboratory: Eurofins Edison

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

| Authority | Program | Identification Number | Expiration Date |
|-----------------------------------|---------------------|-----------------------|-----------------|
| Connecticut | State | PH-0818 | 01-30-24 |
| DE Haz. Subst. Cleanup Act (HSCA) | State | N/A | 01-01-24 |
| Georgia | State | 12028 (NJ) | 06-30-23 |
| Massachusetts | State | M-NJ312 | 06-30-23 |
| New Jersey | NELAP | 12028 | 06-30-23 |
| New York | NELAP | 11452 | 04-01-24 |
| Pennsylvania | NELAP | 68-00522 | 03-01-24 |
| Rhode Island | State | LAO00376 | 12-30-23 |
| USDA | US Federal Programs | P330-20-00244 | 11-03-23 |

Eurofins Cleveland

| | Regulatory program: | NPDES RCRA COher | | |
|---|---|---|---|--|
| | Client Project Manager: Kris Hinskey | Site Contact: Christina Weaver | Lab Contact: Mike DelMonico | TestAmerica Laboratories, Inc. COC No: |
| uite 500 | Tclephone: 248-994-2240 | Telephone: 248-994-2240 | Telephone: 330-497-9396 | |
| 11,482 (1) | Email: kristoffer.hinskcy@arcadis.com | Analysis I urnaround Time | Analyses | For lab use only |
| Phone: 248-994-2240 Project Name: Ford LTP Off-Site | Sampler Name: Setto Turner | ant from b | | Walk-in client |
| Project Number: 30167538.402.04 | 1 2 | 1 week 2 | | Lab sampling |
| PO# 30167538.402.04 | Shipping/Tracking No: |) Grap | 85608 E 8560 5608 | ON DOS/qor |
| Sample Identification. | Sample Date Sample Time Aqueous Advecus | 1 ¹ ¹ -DCE 8560 Composite Filtered Samp Composite Composite Composite NaOH MCO HCO HCO HZOJ HZOJ | cis-1,2-DCE 8 Trans-1,2-DCE 8 PCE 82608 Vinyl Chloride Vinyl Chloride 8 | Sample Specific Notes / Special Instructions: |
| TRIP BLANK_ (05 | 5/1/33 1 | | | 1 Trip Blank |
| mw-1475_050123 | 5/1/23 1520 62 | N C X | | 3 VOAs for 8260B 3 VOAs for 8260B SIM |
| | | 240-184631 Chain of Custody | MICHIGA 190 | Z |
| Possible Hazard Identification | Poicon R | Sample Disposal (A fee may be assessed if amples are retained longer than 1 month) Denomediate Denomediate and the set of the set o | ples are retained longer than 1 month) | _ |
| ritan ans/QC Requirements & Comments: is: 34401 Cαβitol AV(t, lits through Cadena at jtomalia@cadenaco.o ting requested. | t _ Poison B _ Unknown .cm. Cadena #E203631 | Return to Chent 🔗 Disposal By Lat | b Archive For L Months | |
| Relinquished by: SETH TUR NER O Relinquished by: Relinquished by: Relinquished by: Nu entry of Relinqui | Company: Company: Company: ARCAFIES 5/3/23 Company: ARCAFIES 5/3/23 Company: Company | 1600 Received by 737 Received by 737 40 ACOLOLATION | D STURACE COMPANY ARCACLES COMPANY COMPANY | DaverTime 5 12/23 /1600 5/3 /23 /1237 54733 800 |

13 14 15

| | | . c.il | 21 |
|---|---|------------------|---|
| Eurofins - Canton Sample Receipt Form/Narrative Barberton Facility | Login # :_ | 1894 | 31 |
| Client Arcadis Site Name | | Cooler unp | acked by: |
| Cooler Received on <u>5433</u> Opened on <u>5</u> | 1172 | RAChel | La Haidet |
| | | | e miali |
| | the second se | ler | |
| Receipt After-hours: Drop-off Date/Time Eurofins Cooler # EC. Foam Box Client Cooler B | Storage Location ox Other | | |
| Eurofins Cooler # EC Foam Box Client Cooler B Packing material used Bubble Wrap Foam Plastic Bag | | | |
| | None None | | |
| | See Multiple Cooler For | | |
| | | | r Temp °C |
| IR GUN # $(CF + O \circ C)$ Observed Cooler | 1 emp C C | corrected Coole | r rempC |
| 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes | Quantity Yes | No | Turk that we state |
| -Were the seals on the outside of the cooler(s) signed & dated? | Yes |) No NA | Tests that are not checked for pH by |
| -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg | y/MeHg)? Yes | No | Receiving: |
| -Were tamper/custody seals intact and uncompromised? | Yes | No NA | |
| 3. Shippers' packing slip attached to the cooler(s)? | Yes | No | VOAs |
| 4. Did custody papers accompany the sample(s)? | tes | No | Oil and Grease TOC |
| 5. Were the custody papers relinquished & signed in the appropriate | | No | 100 |
| 6. Was/were the person(s) who collected the samples clearly identified | ed on the COC? | No | |
| 7. Did all bottles arrive in good condition (Unbroken)? | Ces | | |
| 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC | | No | |
| 9. For each sample, does the COC specify preservatives (YN), # of c | containers (N), and sa | mple type of g | rab/comp()/N)? |
| 10. Were correct bottle(s) used for the test(s) indicated? | Les |) No | |
| 11. Sufficient quantity received to perform indicated analyses? | Yes |) No | |
| 12. Are these work share samples and all listed on the COC? | | | |
| If yes, Questions 13-17 have been checked at the originating labor | • | | |
| 13. Were all preserved sample(s) at the correct pH upon receipt? | | | I Strip Lot# HC208070 |
| 14. Were VOAs on the COC? | Yes | | |
| 15. Were air bubbles >6 mm in any VOA vials? | | No NA | |
| 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # | (Yes | No | |
| 17. Was a LL Hg or Me Hg trip blank present? | Yes | NO | |
| Contacted PM Date by | via Verbal V | oice Mail Othe | er |
| Concerning | | | |
| | | | |
| 18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES | additional next page | Samples proc | essed by: |
| | | | |
| | | | |
| | · · · · · · · · · · · · · | | |
| | | | |
| | | | |
| 19. SAMPLE CONDITION | | | - total |
| Sample(s) were received after | | | |
| Sample(s) | | l in a broken co | |
| Sample(s)were receive | ed with bubble >6 mm i | n diameter. (No | oury PM) |
| 20. SAMPLE PRESERVATION | | | |
| Sample(s) | were fur | ther preserved | in the laboratory. |
| Sample(s) Time preserved: Preservative(s) added/Lot number(s): | | | |
| | | | |
| VOA Sample Preservation - Date/Time VOAs Frozen: | | | |

Login #: 184631

| Cooler Description | IR Gun # | Observed | Corrected | Coolant |
|---------------------|-----------|----------|---------------------------------------|--------------------------------------|
| | (Circle) | Temp °C | Temp °C | (Circle) |
| (Circle) | | | | Wet loe Blue Ice Dr |
| EC Client Box Other | | -2- | 1.2 | Water None |
| EC Client Box Other | | 1.6 | 1.6 | Wet Ice Sive Ice Dry Water None |
| | IR GUN #: | | 1 1/2 | Wetice Blueice Dry |
| | IR GUN #: | | | Water None Wet ice Blue ice Dry |
| EC Client Box Other | | | | Water None Wet ice Blue ice Dr |
| EC Client Box Other | IR GUN #: | | | Water None |
| EC Client Box Other | IR GUN #: | | | Wet Ice Blue Ice Dry Water None |
| EC Client Box Other | IR GUN #: | | | Wetice Blue ice Dry Water None |
| EC Client Box Other | IR GUN #: | | | Wei ice Blue ice Dry Water None |
| | IR GUN #: | | | Wet Ice Blue Ice Dry |
| EC Client Box Other | HR GUN #: | | | Water None Wet ice Blue ice Dry |
| EC Client Box Other | | | | Water None Wet Ice Blue Ice Dry |
| EC Client Box Other | IR GUN #: | | | Water None |
| EC Client Box Other | IR GUN #: | | | Wet ice Blue ice Dry Water None |
| EC Client Box Other | IR GUN #: | | | Wet Ice Blue Ice Dry Water None |
| EC Client Box Other | IR GUN #: | | | Wet ice Blue ice Dry Water None |
| EC Client Box Other | IR GUN #: | | | Wet ice Blue ice Dry |
| | IR GUN #: | | | Water None Wet Ice Blue Ice Dry |
| EC Client Box Other | IR GUN #: | | | Water None Wet Ice Blue Ice Dry |
| EC Client Box Other | | | · · · · · · · · · · · · · · · · · · · | Water None Wet ice Blue ice Dry |
| EC Client Box Other | IR GUN #: | | | Water None |
| EC Client Box Other | IR GUN #: | | | Wet Ice Blue Ice Dry Water None |
| EC Client Box Other | 1R GUN #: | | | Wet ice Blue ice Dry Water None |
| EC Client Box Other | IR GUN #: | | | Wet ice Sive ice Dry Water None |
| EC Client Box Other | IR GUN #: | | | Wet Ice Blue Ice Dry |
| | IR GUN #: | | | Water None Wet Ice Blue Ice Dry |
| EC Client Box Other | IR GUN #: | <u> </u> | | Water None Wet Ice Blue Ice Dry |
| EC Client Box Other | | | | Water None Wet Ice Blue Ice Dry |
| EC Client Box Other | IR GUN #: | | | Water None |
| EC Client Box Other | IR GUN #: | | _ | Wet ice Blue ice Dry Water None |
| EC Client Box Other | IR GUN #: | | | Wet ice Sive ice Dry Water None |
| EC Client Box Other | IR GUN #: | | | Wet ice Blue ice Dry Water None |
| EC Client Box Other | IR GUN #: | | | Wet ice Sive ice Dry |
| | IR GUN #: | | | Water None Wet Ice Blue Ice Dry |
| EC Client Box Other | IR GUN #: | | | Water None Wet Ice Blue Ice Dry |
| EC Client Box Other | | | | Water None Wet Ice Blue Ice Dry |
| EC Client Box Other | IR GUN #: | | | Water None |
| EC Client Box Other | IR GUN #: | | | Wet Ice Blue Ice Dry Water None |
| EC Client Box Other | IR GUN #: | | | Wet Ice Blue Ice Dry Water None |

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

Chain of Custody Record



Environment Testing 🔅 eurofins

| hone: 330-497-9396 Fax: 330-497-0772 | | | | | | | | | | 2 | |
|---|--|------------------|---|--|--|--|---|--|---|---|---|
| Slient Information (Sub Contract Lab) | Sampler: | | | Lab PM: DelMonic | Lab PM: DelMonico, Michael | | Carrier Tracking No(s) | lo(s): | COC No: 240-167561.1 | | - |
| lient Contact: hipping/Receiving | Phone: | | | E-Mail: Michael.[| DelMonico(| E-Mail: Michael.DelMonico@et.eurofinsus.com | State of Origin: Michigan | | Page: Page 1 of 1 | | _ |
| ompany: :urofins Environment Testing Northeast, | | | | Accr | editations Rec | Accreditations Required (See note): | | | Job #: 240-184631-1 | | - |
| ddress: 77 New Durham Road, | Due Date Requested: 5/17/2023 | ed: | | | | Analysis I | Analysis Requested | | Preservation Codes: | des: M - Hexane | - |
| ity idison tale.21p; | TAT Requested (days): | ays): | | 176277 | | | | | B - NaOH C - Zn Acetate D - Nitric Acid F - NaHSO4 | N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 | |
| 44, 000 r Abone: 20-549-3900(Tel) 732-549-3679(Fax) | #Od | | | (0 | ()5 | | | - | F - MeOH G - Amchlor | R - Na2S203 S - H2SO4 T - TSP Dodecahydrate | |
| | # OM | | | | | | | 8. | I - Ice J - DI Water | U - Acetone V - MCAA | _ |
| roject Name: ord LTP - Off Site | Project #: 24015353 | | | | _ | | | ienistn | K - EDTA L - EDA | w - pH 4-5 Y - Trizma Z - other (specify) | |
| ite: | SSOW#: | | | | ov (ac | | | 01 COI | Other: | | - |
| ample Identification - Client ID (Lab ID) | Sample Date | Sample Time | Sample Type (C=comp, G=orab) | MattiX (W=water, S=seolid, C=water, BT=Tastue, A=Atr) | 8560D_SIM/50300 8560D/2030C (WG | | | Total Number (| Special Ir | Special Instructions Note | |
| | X | X | Preservation Code: | X | | | | | | | |
| RIP BLANK_105 (240-184631-1) | 5/1/23 | Eastern | | Water | × | | | - | | | - |
| AW-147S_050123 (240-184631-2) | 5/1/23 | 15:20 Eactorn | | Water | ×× | | | 0 | | | _ |
| | | Lasteri | | | | | | | | | - |
| | | | | | | | | | | | |
| | | | | | | | | | | | - |
| | | | | _ | | | | | | | _ |
| | | | | | | | | | | | |
| | | | | | | | | | | | - |
| | | | | | | | | | | | _ |
| tote: Since laboratory accreditations are subject to change. Eurofins Environment Testing North Central, LLC boratory does not currently maintain accreditation in the State of Origin listed above for analysis/lests/matrix ccreditation status should be brought to Eurofins Environment Testing North Central. LLC attention immediat | nment Testing North Cent led above for analysis/test: th Central, LLC attention ir | | the ownership inalyzed, the si ill requested ac | of method, analyte amples must be ship screditations are cun | & accreditatio ped back to t rent to date, r | n compliance upon our su he Eurofins Environment eturn the signed Chain of | Jbcontract laboratories. Testing North Central, I Custody attesting to se | This sample shipme LC laboratory or oth id compliance to Eur | nt is forwarded unde er instructions will be ofins Environment Te | c places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to test, if all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC. | |
| ossible Hazard Identification | | | | | Sample Di | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | be assessed if sa | mples are retair | ed longer than | 1 month) | |
| Inconfirmed | | | | | | Return To Client | Disposal By Lab | | Archive For | Months | |
| beliverable Requested: I, II, III, IV, Other (specify) | Primary Deliverable R | able Rank: 2 | <u>.</u> | | Special Inst | Special Instructions/QC Requirements: | ements: | J | | | |
| carpty Kit Relinquished by: | | Date: | | Time: | | | Method of Shipment: | hipment: | eder | | 1 |
| hin quis at the | | 2 16 | 8 | Company | Received by | Pr Annie V | -0 | Date/Time: | 101101 | Company | - |
| elinquished by: | Date/Time: | | Ĭ | Company | Received by | 1 | | Date/Time: | | Company | |
| telinquished by: | Date/Time: | | Ĭ | Company | Received by: | by: | | Date/Time: | | Company | - |

 \checkmark

Custody Seals Intact: Custody Seal No.: Δ Yes Δ No

Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: ARCADIS US Inc

Login Number: 184631 List Number: 2 Creator: Armbruster, Chris

| Question | Answer | Comment |
|---|--------|---------|
| Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td> | N/A | |
| The cooler's custody seal, if present, is intact. | N/A | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | True | |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |

List Source: Eurofins Edison

List Creation: 05/05/23 12:42 PM

DATA VERIFICATION REPORT



May 18, 2023

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

CADENA project ID: E203631 Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater Project number: 30167538.402.04 off-site Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory submittal: 184631-1 Sample date: 2023-05-01 Report received by CADENA: 2023-05-18 Initial Data Verification completed by CADENA: 2023-05-18 Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

The following minor QC exceptions or missing information were noted:

GCMS VOC sample -001 and LCS/LCSD surrogate recovery outliers did not result in qualification of client sample data.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, LCS/LCD 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.

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 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. |
| E | 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: 184631-1

| | | Lab Sample ID: 240 Sample Date: 5/1/ Cas No. Res | | ANK_105 5311 3 | 5 | | MW-147 2401846 5/1/202 | 5312 | 23 | |
|-----------------|--------------------------|--|--------|----------------------|-------|-----------|------------------------------|--------|-------|-----------|
| | | | | Report | | Valid | | Report | | Valid |
| | Analyte | Cas No. | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier |
| GC/MS VOC | | | | | | | | | | |
| <u>OSW-8260</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 | |
| <u>OSW-8260</u> | DDSIM | | | | | | | | | |
| | 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 # 240-184631-1 CADENA Verification Report: 2023-05-18

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49779R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-184631-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

| | | | Sample Collection | | Ana | lysis |
|----------------|--------------|--------|-------------------|---------------|-----|---------|
| Sample ID | Lab ID | Matrix | Date | Parent Sample | voc | VOC SIM |
| TRIP BLANK_105 | 240-184631-1 | Water | 05/01/23 | | Х | |
| MW-147S_050123 | 240-184631-2 | Water | 05/01/23 | | Х | Х |

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

| Items Reviewed | Rep | orted | | mance ptable | Not |
|---|-----|-------|----|-----------------|----------|
| | No | Yes | No | Yes | Required |
| 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 | |

DATA REVIEW

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 HCI |

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

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

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

DATA REVIEW

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) | | | | |
| Tier II Validation | | | | | |
| Holding times/Preservation | | Х | | X | |
| 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 | |
| lon abundance criteria for each instrument used | | Х | | Х | |
| Field Duplicate RPD | Х | | | | Х |
| Internal standard | | Х | | Х | |
| Compound identification and quantitation | | | | | |
| A. Reconstructed ion chromatograms | | Х | | Х | |
| B. Quantitation Reports | | Х | | Х | |
| C. RT of sample compounds within the established RT windows | | Х | | Х | |
| D. Transcription/calculation errors present | | Х | | 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: | Dilip Kumar |
|--------------------------|---------------|
| SIGNATURE: | Pertmit |
| DATE: | June 19, 2023 |

PEER REVIEW: Andrew Korycinski

DATE: June 21, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



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| | 008 TeslAmence Lagoratores, Inc. All rights reserved Uthreade & Design ¹¹⁴ are insemination of TeslAmence Laboratories, Inc. | LEE | M1 | | > | 21 | ~> | 100 | 14 | 9 | 1 | ~ | ne | Cli | - | Ju | eci | LEE | - | | - | 11 | 40 | , | | | -105 | u | |
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Eurofins Cleveland

180 S. Van Buren Avenue Barberton, OH 44203

Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record



🗱 eurofins

Environment Testing

| Client Information (Sub Contract Lab) | Sampler: | | | De | Рм: Monio | co, Mi | , Michael | | | | | | | | 240-1 | o: 67561.1 | | | | | | | |
|--|---------------------------------|--|--|--------------------------|--------------|--------------------------|-----------------|--------|----------------------|--------|----------|----------------|--------------------|--------|---------------------------------------|---------------|--------------|---------------------------|----------------------|---------------------|-----------|------------|--|
| Client Contact: Shipping/Receiving | Phone: | | | E-M | | DolM | onico | Oct of | ourofi | neue | | | ate of (ichiga | | | | | Page: | Page: Page 1 of 1 | | | | |
| Company: | | | | INIC | hael. | - | | _ | (See n | _ | .com | In | icniya | 111 | | | | Job #: | | | | | |
| Eurofins Environment Testing Northeast, | | | | | | | | | | | | | | | | | | - | 84631-1 | | | _ | |
| Address: 777 New Durham Road, | Due Date Request 5/17/2023 | ed: | | | | Analysis Requested | | | | | | | | Prese | rvation C | M - He | | | | | | | |
| City: | TAT Requested (da | ays): | | | | | | | | | | T | | Τ | | | | B - Na | он | N - No O - Asl | | | |
| Edison | | | | | | | | | | | | | | | | | 12 | | Acetate ric Acid | P - Na Q - Na | 204S | | |
| NJ, 08817 | | | | | | | | | | | | | | | | | | E - NaHSO4 Q - R - R - | R - Nat | 28203 | | | |
| Phone: [732-549-3900(Tel) 732-549-3679(Fax) | PO #: | | | | 0 | 1 | he | | | | | | | | | | - | G - Arr | | | P Dodecah | /drate | |
| Email: | WO #: | | | | or No) | (MOD) VOC= (Short 1 jet) | | | | | | | | | | | 90 | I - Ice J - DI V | Nater | U - Ace V - MC | AA | | |
| Project Name: | Project #: | | | | mpie (Yes | MS/MSD (Yes or No) | | | | | | | | | | | container | | TA | W - pH Y - Triz | zma | | |
| Ford LTP - Off Site Site: | | 24015353 g | | | | | | | | | | | | | i i i i i i i i i i i i i i i i i i i | ont | Other: | | Z - oth | Z - other (specify) | | | |
| | 00011#. | | | | Sam | | | | | | | | | | | | 5 | | | | | | |
| | | | Sample | Matrix (W=water, | | | 8260D SIM/5030C | | | | | | | | | | Total Number | | | | | | |
| | | | Туре | S=solid, O=waste/oil, | Ē | Perform MS | | | | | | | | | | | N | | | | | | |
| gample Identification - Client ID (Lab ID) | Sample Date | Sample Time | (C=comp, G=grab) | BT=Tissue, A=Air) | A ST | Perform 82600/50 | 8260 | | | | | | | | | | Tota | | Special | Instructi | ons/Not | . . | |
| | \sim | × | Charles and the second states of the second states | tion Code: | X | X | | | | | | | | | 1000 | | X | | Speeda | | | | |
| D TRIP BLANK_105 (240-184631-1) | 5/1/23 | Eastern | | Water | Π |) | × | | 1 | | | | | | | | 1 | | | | | | |
| WW-1475_050123 (240-184631-2) | 5/1/23 | 15:20 Eastern | | Water | \dagger | > | x x | : | | | | | | | | | 5 | | | | | | |
| | | | | | П | | | | | | | | | | | | | | | | | | |
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| | | | | | | | | | 1 | 1 | | | | | | | I. | | | | | | |
| Note: Since laboratory accreditations are subject to change, Eurofins En- laboratory does not currently maintain accreditation in the State of Origin | listed above for analysis/tests | s/matrix being | analyzed, the s | amples must | be ship | pped ba | ack to | the Eu | rofins E | Enviro | nment 1 | Festina | North (| Centra | I. LLC I | aborator | v or oth | ner instruc | ctions will b | ne provided | Any chan | nes t | |
| accreditation status should be brought to Eurofins Environment Testing N | North Central, LLC attention in | mmediately. If | all requested a | ccreditations | | | | | | | | | | | | | | | | | | LLC. | |
| Possible Hazard Identification | | | | | 1 | | | | | | | | | | | es are | - | | - | n 1 mont | · | | |
| Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify) | Primary Deliver | able Rank: | 2 | | | | | | Clier | | equire | | | By L | .ab | | Arc | hive Fo | r | Mc | onths | | |
| | | | - | | | | | | 0/10/0 | | squire | | | | | | | | | | | | |
| Empty Kit Relinquished by: | | Date: | | | Tim | | | | | | | | Me | thod o | f Shipm | | - | ese | 24 | | | | |
| Bininguist ed by | Pate/Time: 27 | > 1L | 100 | Company | THE | Re | eceived | | | | sh | 0- | | | Date/ | Time: | 22 | 10 | 2(1) | - Compa | any | | |
| Belinquished by: | Date/Time: | <l< td=""><td></td><td>Company</td><td>μ.</td><td>Re</td><td>eceived</td><td></td><td></td><td>211-</td><td></td><td></td><td></td><td></td><td></td><td>Time:</td><td>63</td><td></td><td></td><td>Compa</td><td>any</td><td></td></l<> | | Company | μ. | Re | eceived | | | 211- | | | | | | Time: | 63 | | | Compa | any | | |
| Relinquished by: | Date/Time: | | | Company | | Re | eceived | d by: | | | | | | | Date | Time: | | | | Compa | any | - | |
| Custody Seals Intact: Custody Seal No.: | | | | | | | oler T | emper | ature/e |)°C 2° | nd Othe | Rem | arke · | | | | | | | | | | |
| | | | | | | | | ompera | atur 0 (S | , car | io Othe | | | | | | | | | | | | |

Client Sample ID: TRIP BLANK_105

Date Collected: 05/01/23 00:00

Date Received: 05/04/23 11:14

| Analyte | F | lesult | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------|--------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene |) | 1.0 | U | 1.0 | 0.49 | ug/L | | | 05/12/23 21:30 | 1 |
| cis-1,2-Dichloroeth | ene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 05/12/23 21:30 | 1 |
| Tetrachloroethene | | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/12/23 21:30 | 1 |
| trans-1,2-Dichloroe | ethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 05/12/23 21:30 | 1 |
| Trichloroethene | | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/12/23 21:30 | 1 |
| Vinyl chloride | | 1.0 | U | 1.0 | 0.45 | ug/L | | | 05/12/23 21:30 | 1 |
| | | | | | | | | | | |

| Surrogate | %Recovery | Qualifier | Limits | Prepared An | alyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|-------------|------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 70 - 128 | 05/12 | 2/23 21:30 | 1 |
| Dibromofluoromethane (Surr) | 98 | | 77 - 124 | 05/12 | 2/23 21:30 | 1 |
| Toluene-d8 (Surr) | 99 | | 80 - 120 | 05/12 | 2/23 21:30 | 1 |
| 4-Bromofluorobenzene | 121 | S1+ | 76 - 120 | 05/12 | 2/23 21:30 | 1 |

Client Sample ID: MW-147S_050123 Date Collected: 05/01/23 15:20 Date Received: 05/04/23 11:14

Lab Sample ID: 240-184631-2

Matrix: Water

1

1

| Method: SW846 8260D S Analyte | · · · · · · · · · · · · · · · · · · · | Qualifier | OUNDS (GC/N RL | MDL | Unit | P | Prepared | Analvzed | Dil Fac |
|----------------------------------|---------------------------------------|-----------|-------------------|------|------|---|----------|----------------|---------|
| Analyte | Result | Quaimer | KL. | | Unit | D | Flepaleu | Analyzeu | DIIFac |
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | | | 05/07/23 07:22 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene | 109 | | 75 - 133 | | | | | 05/07/23 07:22 | 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 | | | 05/12/23 23:46 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 05/12/23 23:46 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/12/23 23:46 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 05/12/23 23:46 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.44 | ug/L | | | 05/12/23 23:46 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.45 | ug/L | | | 05/12/23 23:46 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 109 | | 70 - 128 | | | - | | 05/12/23 23:46 | 1 |
| Dibromofluoromethane (Surr) | 98 | | 77 - 124 | | | | | 05/12/23 23:46 | 1 |

 Dibromofluoromethane (Surr)
 98
 77 - 124
 05/12/23 23:46

 Toluene-d8 (Surr)
 100
 80 - 120
 05/12/23 23:46

 4-Bromofluorobenzene
 120
 76 - 120
 05/12/23 23:46

Matrix: Water

Job ID: 240-184631-1