

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Canton

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Tel: (330)497-9396

TestAmerica Job ID: 240-104487-2

Client Project/Site: Ford LTP Livonia MI - E203631

For:

ARCADIS U.S., Inc.

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Authorized for release by:

1/16/2019 5:08:04 PM

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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-104487-2

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|----------------------------------------------------------------------------------------------------------------|
| X | Surrogate is outside control limits |
| U | Indicates the analyte was analyzed for but not detected. |
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

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 |
| 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) |
| MDA | Minimum Detectable Activity (Radiochemistry) |
| MDC | Minimum Detectable Concentration (Radiochemistry) |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not Detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| 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) |

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-104487-2

Job ID: 240-104487-2

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP Livonia MI - E203631

Report Number: 240-104487-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 11/16/2018 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.3° C and 1.9° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples HPT-197_15-19_111318 (240-104487-1), HPT-197_10-14_111318 (240-104487-2), HPT-197_5-9_111318 (240-104487-3), HPT-198_16-20_111318 (240-104487-4), HPT-198_11-15_111318 (240-104487-5) and HPT-198_6-10_111318 (240-104487-6) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/23/2018 and 11/24/2018.

1,2-Dichloroethane-d4 (Surr) failed the surrogate recovery criteria high for HPT-197_15-19_111318 (240-104487-1), HPT-197_10-14_111318 (240-104487-2), HPT-198_6-10_111318 (240-104487-6), MB 240-356773/6, MB 240-356855/6, LCS 240-356855/4, 240-104447-D-4 MS, HPT-197_5-9_111318MS (240-104487-3MS), 240-104447-E-4 MSD and HPT-197_5-9_111318MSD (240-104487-3MSD). Refer to the QC report for details.

1,2-Dichloroethane-d4 (Surr) and Dibromofluoromethane (Surr) failed the surrogate recovery criteria high for HPT-197_5-9_111318 (240-104487-3), HPT-198_16-20_111318 (240-104487-4) and HPT-198_11-15_111318 (240-104487-5).

Surrogate recovery for the following samples was outside the upper control limit. This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed: HPT-197_15-19_111318 (240-104487-1), HPT-197_10-14_111318

Case Narrative

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-104487-2

Job ID: 240-104487-2 (Continued)

Laboratory: TestAmerica Canton (Continued)

(240-104487-2), HPT-197_5-9_111318 (240-104487-3), HPT-198_16-20_111318 (240-104487-4), (MB 240-356773/6),
HPT-198_11-15_111318 (240-104487-5), HPT-198_6-10_111318 (240-104487-6), (LCS 240-356855/4) and (MB 240-356855/6).

The pH of the samples was greater than 2. The samples were analyzed within the normal 14 day holding time; however, experimental evidence suggests that some aromatic compounds in wastewater samples, notably, Benzene, Toluene, and Ethylbenzene are susceptible to biological degradation if samples are not preserved to a pH of 2: HPT-197_15-19_111318 (240-104487-1) and HPT-198_16-20_111318 (240-104487-4).

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

VOLATILE ORGANIC COMPOUNDS (GCMS SIM)

Samples HPT-197_15-19_111318 (240-104487-1), HPT-197_10-14_111318 (240-104487-2), HPT-197_5-9_111318 (240-104487-3), HPT-198_16-20_111318 (240-104487-4), HPT-198_11-15_111318 (240-104487-5) and HPT-198_6-10_111318 (240-104487-6) were analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 11/21/2018.

The pH is greater than 2 for the following samples: HPT-197_15-19_111318 (240-104487-1), HPT-198_16-20_111318 (240-104487-4) and HPT-198_11-15_111318 (240-104487-5).

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

Method Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-104487-2

| Method | Method Description | Protocol | Laboratory |
|-----------|------------------------------------|----------|------------|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL CAN |
| 8260B SIM | Volatile Organic Compounds (GC/MS) | SW846 | TAL CAN |
| 5030B | Purge and Trap | SW846 | TAL CAN |

Protocol References:

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

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-104487-2

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|----------------------|--------|----------------|----------------|
| 240-104487-1 | HPT-197_15-19_111318 | Water | 11/13/18 13:40 | 11/16/18 08:40 |
| 240-104487-2 | HPT-197_10-14_111318 | Water | 11/13/18 14:05 | 11/16/18 08:40 |
| 240-104487-3 | HPT-197_5-9_111318 | Water | 11/13/18 14:15 | 11/16/18 08:40 |
| 240-104487-4 | HPT-198_16-20_111318 | Water | 11/13/18 15:40 | 11/16/18 08:40 |
| 240-104487-5 | HPT-198_11-15_111318 | Water | 11/13/18 16:00 | 11/16/18 08:40 |
| 240-104487-6 | HPT-198_6-10_111318 | Water | 11/13/18 16:15 | 11/16/18 08:40 |

1

2

3

4

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14

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-104487-2

Client Sample ID: HPT-197_15-19_111318

Lab Sample ID: 240-104487-1

No Detections.

Client Sample ID: HPT-197_10-14_111318

Lab Sample ID: 240-104487-2

No Detections.

Client Sample ID: HPT-197_5-9_111318

Lab Sample ID: 240-104487-3

No Detections.

Client Sample ID: HPT-198_16-20_111318

Lab Sample ID: 240-104487-4

No Detections.

Client Sample ID: HPT-198_11-15_111318

Lab Sample ID: 240-104487-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 0.38 | J | 1.0 | 0.16 | ug/L | 1 | | 8260B | Total/NA |

Client Sample ID: HPT-198_6-10_111318

Lab Sample ID: 240-104487-6

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-104487-2

Client Sample ID: HPT-197_15-19_111318

Lab Sample ID: 240-104487-1

Matrix: Water

Date Collected: 11/13/18 13:40

Date Received: 11/16/18 08:40

Method: 8260B 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 | | | 11/21/18 16:03 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 63 - 125 | | | | | 11/21/18 16:03 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 11/23/18 21:01 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.16 | ug/L | | | 11/23/18 21:01 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.15 | ug/L | | | 11/23/18 21:01 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 11/23/18 21:01 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.10 | ug/L | | | 11/23/18 21:01 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.20 | ug/L | | | 11/23/18 21:01 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 148 | X | 70 - 121 | | | | | 11/23/18 21:01 | 1 |
| 4-Bromofluorobenzene (Surr) | 88 | | 59 - 120 | | | | | 11/23/18 21:01 | 1 |
| Toluene-d8 (Surr) | 92 | | 70 - 123 | | | | | 11/23/18 21:01 | 1 |
| Dibromofluoromethane (Surr) | 128 | | 75 - 128 | | | | | 11/23/18 21:01 | 1 |

TestAmerica Canton

Client Sample Results

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-104487-2

Client Sample ID: HPT-197_10-14_111318

Lab Sample ID: 240-104487-2

Matrix: Water

Date Collected: 11/13/18 14:05

Date Received: 11/16/18 08:40

Method: 8260B 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 | | | 11/21/18 16:29 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 63 - 125 | | | | | 11/21/18 16:29 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 11/23/18 21:25 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.16 | ug/L | | | 11/23/18 21:25 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.15 | ug/L | | | 11/23/18 21:25 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 11/23/18 21:25 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.10 | ug/L | | | 11/23/18 21:25 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.20 | ug/L | | | 11/23/18 21:25 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 145 | X | 70 - 121 | | | | | 11/23/18 21:25 | 1 |
| 4-Bromofluorobenzene (Surr) | 87 | | 59 - 120 | | | | | 11/23/18 21:25 | 1 |
| Toluene-d8 (Surr) | 89 | | 70 - 123 | | | | | 11/23/18 21:25 | 1 |
| Dibromofluoromethane (Surr) | 127 | | 75 - 128 | | | | | 11/23/18 21:25 | 1 |

Client Sample Results

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-104487-2

Client Sample ID: HPT-197_5-9_111318

Lab Sample ID: 240-104487-3

Matrix: Water

Date Collected: 11/13/18 14:15

Date Received: 11/16/18 08:40

Method: 8260B 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 | | | 11/21/18 16:54 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 63 - 125 | | | | | 11/21/18 16:54 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 11/23/18 22:13 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.16 | ug/L | | | 11/23/18 22:13 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.15 | ug/L | | | 11/23/18 22:13 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 11/23/18 22:13 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.10 | ug/L | | | 11/23/18 22:13 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.20 | ug/L | | | 11/23/18 22:13 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 151 | X | 70 - 121 | | | | | 11/23/18 22:13 | 1 |
| 4-Bromofluorobenzene (Surr) | 88 | | 59 - 120 | | | | | 11/23/18 22:13 | 1 |
| Toluene-d8 (Surr) | 87 | | 70 - 123 | | | | | 11/23/18 22:13 | 1 |
| Dibromofluoromethane (Surr) | 132 | X | 75 - 128 | | | | | 11/23/18 22:13 | 1 |

Client Sample Results

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-104487-2

Client Sample ID: HPT-198_16-20_111318

Lab Sample ID: 240-104487-4

Matrix: Water

Date Collected: 11/13/18 15:40

Date Received: 11/16/18 08:40

Method: 8260B 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 | | | 11/21/18 18:11 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 63 - 125 | | | | | 11/21/18 18:11 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 11/23/18 21:49 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.16 | ug/L | | | 11/23/18 21:49 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.15 | ug/L | | | 11/23/18 21:49 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 11/23/18 21:49 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.10 | ug/L | | | 11/23/18 21:49 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.20 | ug/L | | | 11/23/18 21:49 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 151 | X | 70 - 121 | | | | | 11/23/18 21:49 | 1 |
| 4-Bromofluorobenzene (Surr) | 88 | | 59 - 120 | | | | | 11/23/18 21:49 | 1 |
| Toluene-d8 (Surr) | 92 | | 70 - 123 | | | | | 11/23/18 21:49 | 1 |
| Dibromofluoromethane (Surr) | 130 | X | 75 - 128 | | | | | 11/23/18 21:49 | 1 |

Client Sample Results

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-104487-2

Client Sample ID: HPT-198_11-15_111318

Lab Sample ID: 240-104487-5

Matrix: Water

Date Collected: 11/13/18 16:00

Date Received: 11/16/18 08:40

Method: 8260B 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 | | | 11/21/18 18:37 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 63 - 125 | | | | | 11/21/18 18:37 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 11/24/18 18:55 | 1 |
| cis-1,2-Dichloroethene | 0.38 | J | 1.0 | 0.16 | ug/L | | | 11/24/18 18:55 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.15 | ug/L | | | 11/24/18 18:55 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 11/24/18 18:55 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.10 | ug/L | | | 11/24/18 18:55 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.20 | ug/L | | | 11/24/18 18:55 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 147 | X | 70 - 121 | | | | | 11/24/18 18:55 | 1 |
| 4-Bromofluorobenzene (Surr) | 88 | | 59 - 120 | | | | | 11/24/18 18:55 | 1 |
| Toluene-d8 (Surr) | 91 | | 70 - 123 | | | | | 11/24/18 18:55 | 1 |
| Dibromofluoromethane (Surr) | 130 | X | 75 - 128 | | | | | 11/24/18 18:55 | 1 |

Client Sample Results

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-104487-2

Client Sample ID: HPT-198_6-10_111318

Lab Sample ID: 240-104487-6

Matrix: Water

Date Collected: 11/13/18 16:15

Date Received: 11/16/18 08:40

Method: 8260B 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 | | | 11/21/18 19:03 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 63 - 125 | | | | | 11/21/18 19:03 | 1 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 11/24/18 19:18 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.16 | ug/L | | | 11/24/18 19:18 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.15 | ug/L | | | 11/24/18 19:18 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 11/24/18 19:18 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.10 | ug/L | | | 11/24/18 19:18 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.20 | ug/L | | | 11/24/18 19:18 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 152 | X | 70 - 121 | | | | | 11/24/18 19:18 | 1 |
| 4-Bromofluorobenzene (Surr) | 87 | | 59 - 120 | | | | | 11/24/18 19:18 | 1 |
| Toluene-d8 (Surr) | 90 | | 70 - 123 | | | | | 11/24/18 19:18 | 1 |
| Dibromofluoromethane (Surr) | 128 | | 75 - 128 | | | | | 11/24/18 19:18 | 1 |

Surrogate Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-104487-2

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | | |
|--------------------|------------------------|------------------------------------------------|-----------------|-----------------|------------------|
| | | DCA (70-121) | BFB (59-120) | TOL (70-123) | DBFM (75-128) |
| 240-104447-D-4 MS | Matrix Spike | 129 X | 111 | 97 | 108 |
| 240-104447-E-4 MSD | Matrix Spike Duplicate | 125 X | 110 | 96 | 110 |
| 240-104487-1 | HPT-197_15-19_111318 | 148 X | 88 | 92 | 128 |
| 240-104487-2 | HPT-197_10-14_111318 | 145 X | 87 | 89 | 127 |
| 240-104487-3 | HPT-197_5-9_111318 | 151 X | 88 | 87 | 132 X |
| 240-104487-3 MS | HPT-197_5-9_111318 | 129 X | 110 | 97 | 111 |
| 240-104487-3 MSD | HPT-197_5-9_111318 | 127 X | 108 | 96 | 111 |
| 240-104487-4 | HPT-198_16-20_111318 | 151 X | 88 | 92 | 130 X |
| 240-104487-5 | HPT-198_11-15_111318 | 147 X | 88 | 91 | 130 X |
| 240-104487-6 | HPT-198_6-10_111318 | 152 X | 87 | 90 | 128 |
| LCS 240-356773/4 | Lab Control Sample | 119 | 107 | 96 | 106 |
| LCS 240-356855/4 | Lab Control Sample | 125 X | 110 | 97 | 109 |
| MB 240-356773/6 | Method Blank | 134 X | 91 | 91 | 117 |
| MB 240-356855/6 | Method Blank | 140 X | 91 | 94 | 121 |

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | | |
|------------------|----------------------|------------------------------------------------|--|--|--|
| | | DCA (63-125) | | | |
| 240-104487-1 | HPT-197_15-19_111318 | 103 | | | |
| 240-104487-2 | HPT-197_10-14_111318 | 104 | | | |
| 240-104487-3 | HPT-197_5-9_111318 | 103 | | | |
| 240-104487-3 MS | HPT-197_5-9_111318 | 107 | | | |
| 240-104487-3 MSD | HPT-197_5-9_111318 | 105 | | | |
| 240-104487-4 | HPT-198_16-20_111318 | 104 | | | |
| 240-104487-5 | HPT-198_11-15_111318 | 106 | | | |
| 240-104487-6 | HPT-198_6-10_111318 | 104 | | | |
| LCS 240-356577/4 | Lab Control Sample | 103 | | | |
| MB 240-356577/5 | Method Blank | 103 | | | |

Surrogate Legend

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

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-104487-2

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

Lab Sample ID: 240-104487-3 MS

Matrix: Water

Analysis Batch: 356773

Client Sample ID: HPT-197_5-9_111318

Prep Type: Total/NA

| Surrogate | MS %Recovery | MS Qualifier | MS Limits |
|-----------------------------|-----------------|-----------------|--------------|
| Dibromofluoromethane (Surr) | 111 | | 75 - 128 |

Lab Sample ID: 240-104487-3 MSD

Matrix: Water

Analysis Batch: 356773

Client Sample ID: HPT-197_5-9_111318

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec. Limits | RPD | RPD Limit |
|--------------------------|------------------|---------------------|----------------|---------------|------------------|------|-----|-----------------|-----|--------------|
| 1,1-Dichloroethene | 1.0 | U | 10.0 | 10.6 | | ug/L | 106 | 53 - 140 | 6 | 35 |
| cis-1,2-Dichloroethene | 1.0 | U | 10.0 | 10.3 | | ug/L | 103 | 64 - 130 | 8 | 21 |
| Tetrachloroethene | 1.0 | U | 10.0 | 9.88 | | ug/L | 99 | 51 - 136 | 0 | 23 |
| trans-1,2-Dichloroethene | 1.0 | U | 10.0 | 9.98 | | ug/L | 100 | 68 - 133 | 1 | 24 |
| Trichloroethene | 1.0 | U | 10.0 | 9.76 | | ug/L | 98 | 55 - 131 | 0 | 23 |
| Vinyl chloride | 1.0 | U | 10.0 | 8.34 | | ug/L | 83 | 43 - 154 | 8 | 29 |

| Surrogate | MSD %Recovery | MSD Qualifier | MSD Limits |
|------------------------------|------------------|------------------|---------------|
| 1,2-Dichloroethane-d4 (Surr) | 127 | X | 70 - 121 |
| 4-Bromofluorobenzene (Surr) | 108 | | 59 - 120 |
| Toluene-d8 (Surr) | 96 | | 70 - 123 |
| Dibromofluoromethane (Surr) | 111 | | 75 - 128 |

Lab Sample ID: MB 240-356855/6

Matrix: Water

Analysis Batch: 356855

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------|--------------|-----------------|-----|------|------|---|----------|----------------|---------|
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 11/24/18 14:56 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.16 | ug/L | | | 11/24/18 14:56 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.15 | ug/L | | | 11/24/18 14:56 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.19 | ug/L | | | 11/24/18 14:56 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.10 | ug/L | | | 11/24/18 14:56 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.20 | ug/L | | | 11/24/18 14:56 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | MB Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------------|-----------------|--------------|----------|----------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 140 | X | 70 - 121 | | | 1 |
| 4-Bromofluorobenzene (Surr) | 91 | | 59 - 120 | | | 1 |
| Toluene-d8 (Surr) | 94 | | 70 - 123 | | | 1 |
| Dibromofluoromethane (Surr) | 121 | | 75 - 128 | | | 1 |

Lab Sample ID: LCS 240-356855/4

Matrix: Water

Analysis Batch: 356855

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec. Limits |
|--------------------------|----------------|---------------|------------------|------|-----|-----------------|
| 1,1-Dichloroethene | 10.0 | 10.9 | | ug/L | 109 | 65 - 139 |
| cis-1,2-Dichloroethene | 10.0 | 10.1 | | ug/L | 101 | 76 - 128 |
| Tetrachloroethene | 10.0 | 10.7 | | ug/L | 107 | 74 - 130 |
| trans-1,2-Dichloroethene | 10.0 | 10.5 | | ug/L | 105 | 78 - 133 |

TestAmerica Canton

QC Sample Results

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-104487-2

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

Lab Sample ID: MB 240-356577/5

Matrix: Water

Analysis Batch: 356577

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

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------|--------------|-----------------|-----|------|------|---|----------|----------------|---------|
| 1,4-Dioxane | 2.0 | U | 2.0 | 0.86 | ug/L | - | | 11/21/18 13:29 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------------|-----------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 63 - 125 | | 11/21/18 13:29 | 1 |

Lab Sample ID: LCS 240-356577/4

Matrix: Water

Analysis Batch: 356577

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

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------|----------------|---------------|------------------|------|---|------|-----------------|
| 1,4-Dioxane | 10.0 | 10.6 | | ug/L | - | 106 | 59 - 131 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|------------------|------------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 63 - 125 |

Lab Sample ID: 240-104487-3 MS

Matrix: Water

Analysis Batch: 356577

Client Sample ID: HPT-197_5-9_111318
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|-------------|------------------|---------------------|----------------|--------------|-----------------|------|---|------|-----------------|
| 1,4-Dioxane | 2.0 | U | 10.0 | 11.9 | | ug/L | - | 119 | 52 - 129 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|------------------------------|-----------------|-----------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 63 - 125 |

Lab Sample ID: 240-104487-3 MSD

Matrix: Water

Analysis Batch: 356577

Client Sample ID: HPT-197_5-9_111318
Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|-------------|------------------|---------------------|----------------|---------------|------------------|------|---|------|-----------------|-----|--------------|
| 1,4-Dioxane | 2.0 | U | 10.0 | 10.6 | | ug/L | - | 106 | 52 - 129 | 11 | 13 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|------------------------------|------------------|------------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 63 - 125 |

QC Association Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-104487-2

GC/MS VOA

Analysis Batch: 356577

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|----------------------|-----------|--------|-----------|------------|
| 240-104487-1 | HPT-197_15-19_111318 | Total/NA | Water | 8260B SIM | 1 |
| 240-104487-2 | HPT-197_10-14_111318 | Total/NA | Water | 8260B SIM | 2 |
| 240-104487-3 | HPT-197_5-9_111318 | Total/NA | Water | 8260B SIM | 3 |
| 240-104487-4 | HPT-198_16-20_111318 | Total/NA | Water | 8260B SIM | 4 |
| 240-104487-5 | HPT-198_11-15_111318 | Total/NA | Water | 8260B SIM | 5 |
| 240-104487-6 | HPT-198_6-10_111318 | Total/NA | Water | 8260B SIM | 6 |
| MB 240-356577/5 | Method Blank | Total/NA | Water | 8260B SIM | 7 |
| LCS 240-356577/4 | Lab Control Sample | Total/NA | Water | 8260B SIM | 8 |
| 240-104487-3 MS | HPT-197_5-9_111318 | Total/NA | Water | 8260B SIM | 9 |
| 240-104487-3 MSD | HPT-197_5-9_111318 | Total/NA | Water | 8260B SIM | 10 |

Analysis Batch: 356773

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|----------------------|-----------|--------|--------|------------|
| 240-104487-1 | HPT-197_15-19_111318 | Total/NA | Water | 8260B | 11 |
| 240-104487-2 | HPT-197_10-14_111318 | Total/NA | Water | 8260B | 12 |
| 240-104487-3 | HPT-197_5-9_111318 | Total/NA | Water | 8260B | 13 |
| 240-104487-4 | HPT-198_16-20_111318 | Total/NA | Water | 8260B | 14 |
| MB 240-356773/6 | Method Blank | Total/NA | Water | 8260B | |
| LCS 240-356773/4 | Lab Control Sample | Total/NA | Water | 8260B | |
| 240-104487-3 MS | HPT-197_5-9_111318 | Total/NA | Water | 8260B | |
| 240-104487-3 MSD | HPT-197_5-9_111318 | Total/NA | Water | 8260B | |

Analysis Batch: 356855

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 240-104487-5 | HPT-198_11-15_111318 | Total/NA | Water | 8260B | |
| 240-104487-6 | HPT-198_6-10_111318 | Total/NA | Water | 8260B | |
| MB 240-356855/6 | Method Blank | Total/NA | Water | 8260B | |
| LCS 240-356855/4 | Lab Control Sample | Total/NA | Water | 8260B | |
| 240-104447-D-4 MS | Matrix Spike | Total/NA | Water | 8260B | |
| 240-104447-E-4 MSD | Matrix Spike Duplicate | Total/NA | Water | 8260B | |

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-104487-2

Client Sample ID: HPT-197_15-19_111318

Date Collected: 11/13/18 13:40

Date Received: 11/16/18 08:40

Lab Sample ID: 240-104487-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B | | 1 | 356773 | 11/23/18 21:01 | LRW | TAL CAN |
| Total/NA | Analysis | 8260B SIM | | 1 | 356577 | 11/21/18 16:03 | SAM | TAL CAN |

Client Sample ID: HPT-197_10-14_111318

Date Collected: 11/13/18 14:05

Date Received: 11/16/18 08:40

Lab Sample ID: 240-104487-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B | | 1 | 356773 | 11/23/18 21:25 | LRW | TAL CAN |
| Total/NA | Analysis | 8260B SIM | | 1 | 356577 | 11/21/18 16:29 | SAM | TAL CAN |

Client Sample ID: HPT-197_5-9_111318

Date Collected: 11/13/18 14:15

Date Received: 11/16/18 08:40

Lab Sample ID: 240-104487-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B | | 1 | 356773 | 11/23/18 22:13 | LRW | TAL CAN |
| Total/NA | Analysis | 8260B SIM | | 1 | 356577 | 11/21/18 16:54 | SAM | TAL CAN |

Client Sample ID: HPT-198_16-20_111318

Date Collected: 11/13/18 15:40

Date Received: 11/16/18 08:40

Lab Sample ID: 240-104487-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B | | 1 | 356773 | 11/23/18 21:49 | LRW | TAL CAN |
| Total/NA | Analysis | 8260B SIM | | 1 | 356577 | 11/21/18 18:11 | SAM | TAL CAN |

Client Sample ID: HPT-198_11-15_111318

Date Collected: 11/13/18 16:00

Date Received: 11/16/18 08:40

Lab Sample ID: 240-104487-5

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B | | 1 | 356855 | 11/24/18 18:55 | LRW | TAL CAN |
| Total/NA | Analysis | 8260B SIM | | 1 | 356577 | 11/21/18 18:37 | SAM | TAL CAN |

Client Sample ID: HPT-198_6-10_111318

Date Collected: 11/13/18 16:15

Date Received: 11/16/18 08:40

Lab Sample ID: 240-104487-6

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B | | 1 | 356855 | 11/24/18 19:18 | LRW | TAL CAN |

TestAmerica Canton

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-104487-2

Client Sample ID: HPT-198_6-10_111318

Lab Sample ID: 240-104487-6

Matrix: Water

Date Collected: 11/13/18 16:15
Date Received: 11/16/18 08:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260B SIM | | 1 | 356577 | 11/21/18 19:03 | SAM | TAL CAN |

Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP Livonia MI - E203631

TestAmerica Job ID: 240-104487-2

Laboratory: TestAmerica Canton

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

| Authority | Program | EPA Region | Identification Number | Expiration Date |
|-----------------------|---------------|------------|-----------------------|-----------------|
| California | State Program | 9 | 2927 | 02-23-19 * |
| Connecticut | State Program | 1 | PH-0590 | 12-31-19 |
| Florida | NELAP | 4 | E87225 | 06-30-19 |
| Illinois | NELAP | 5 | 200004 | 07-31-19 |
| Kansas | NELAP | 7 | E-10336 | 04-30-19 |
| Kentucky (UST) | State Program | 4 | 58 | 02-23-19 * |
| Kentucky (WW) | State Program | 4 | 98016 | 12-31-19 |
| Minnesota | NELAP | 5 | 039-999-348 | 12-31-19 * |
| Minnesota (Petrofund) | State Program | 1 | 3506 | 07-31-19 |
| Nevada | State Program | 9 | OH00048 | 07-31-19 |
| New Jersey | NELAP | 2 | OH001 | 06-30-19 |
| New York | NELAP | 2 | 10975 | 03-31-19 * |
| Ohio VAP | State Program | 5 | CL0024 | 09-06-19 |
| Oregon | NELAP | 10 | 4062 | 02-23-19 * |
| Pennsylvania | NELAP | 3 | 68-00340 | 08-31-19 * |
| Texas | NELAP | 6 | T104704517-18-10 | 08-31-19 |
| USDA | Federal | | P330-16-00404 | 12-28-19 |
| Virginia | NELAP | 3 | 460175 | 09-14-19 |
| Washington | State Program | 10 | C971 | 01-12-20 * |
| West Virginia DEP | State Program | 3 | 210 | 12-31-19 |

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

TestAmerica Canton

TestAmerica Michigan
10448 Citation Drive
Suite 200
Brighton, MI 48116
Phone: 810.229.2763 Fax: 412.963.2470

MICHIGAN
190

1.0 / C1.9 O.9 / G1.3

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-0210 (0713)

| Client Contact | | Project Manager: KRIS HINSKEY | | Site Contact: | | Date: | COC No: |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------------------------------------------------|------------------------------------|----------------------------------|------------------------------------------|--------------------------------------|---------------------------|
| Company Name: AEC ADIS | Tel/Fax: 248-550-CABOT #500 | Analysis Turnaround Time | Lab Contact: | Carrier: | | / | of 2 COCs |
| Address: 28550 CABOT DR. #500 | City/State/Zip: NOVI, MI 48377 | <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS | | | | | Sampler: |
| Phone: 248 - 994 - 2240 | Fax: 248 - 994 - 2241 | <input type="checkbox"/> TAT if different from Below: STANDARD | | | | | For Lab Use Only: |
| Project Name: FORD LTP | Site: OFFICE-SITE | <input type="checkbox"/> 2 weeks | | | | | Walk-in Client: |
| P.O.# MI 001454.0002.0002B | | <input type="checkbox"/> 1 week | | | | | Lab Sampling: |
| | | <input type="checkbox"/> 2 days | | | | | Job / SDG No.: |
| PERFORMED SAMPLES | | | | | | | |
| PERFORMED MS/MS (Y/N) | | | | | | | |
| 240-104487 Chain of Custody | | | | | | | |
| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=Grab) | Matrix | # of cont. | Specific Notes: | |
| HPT-197-15-19_111318 | 11-13-18 | 13:10 | G | GW | 6 N N X 2 | | |
| HPT-197_10-14_111318 | 11-13-18 | 14:05 | G | GW | 6 N N X 2 | | |
| HPT-197_5-9_111318 | 11-13-18 | 14:15 | G | GW | 18 N Y X 2 | | |
| HPT-198_16-20_111318 | 11-13-18 | 15:40 | G | GW | 6 N N X 2 | | |
| HPT-198_11-15_111318 | 11-13-18 | 16:00 | G | GW | 6 N N X 2 | | |
| HPT-198_6-10_111318 | 11-13-18 | 16:15 | G | GW | 6 N N X 2 | | |
| HPT-199_14-18_111318 | 11-13-18 | 17:10 | | | | | |
| HPT-199_14-18_111418 | 11-14-18 | 11:05 | G | GW | 6 N N X 2 | | |
| HPT-199_9-13_111418 | 11-14-18 | 11:20 | G | GW | 6 N N X 2 | | |
| HPT-199_4-6_111418 | 11-14-18 | 11:30 | G | GW | 6 N N X 2 | | |
| HPT-200_15-19_111418 | 11-14-18 | 13:30 | G | GW | 6 N N X 2 | | |
| TRIP BLANK | - | - | W | W | 1 N N X 2 | | |
| Preservation Used: 1=Ice; 2=HCl; 3=H ₂ SO ₄ ; 4=HNO ₃ ; 5=NaOH; 6=Other | | | | | | | |
| Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. | | | | | | | |
| <input type="checkbox"/> Non-Hazard | <input type="checkbox"/> Flammable | <input type="checkbox"/> Skin Irritant | <input type="checkbox"/> Poison B | <input type="checkbox"/> Unknown | <input type="checkbox"/> Disposal by Lab | <input type="checkbox"/> Archive for | Months |
| Special Instructions/QC Requirements & Comments: ANALYZE SAMPLES FOR: 1,1-DICHLORO-2-DECE, CIS-1,2-DICHLORO-2-DECE, PCE, TCE, AND VINYL CHLORIDE VIA USEPA METHOD 8260B AND 1,4-DIOXANE VIA USEPA METHOD 8260B-SIM. SUBMIT ALL RESULTS THROUGH CADWA.COM # E203631 | | | | | | | |
| Custody Seals intact: | | <input type="checkbox"/> Yes | <input type="checkbox"/> No | Custody Seal No.: | Cooler Temp (°C) Obs'd: | Corrd.: | Therm ID No.: |
| Reinquished by: | | Reinquished by: | | Company: ARCADIS | Date/Time: 11-15-18 10:15 | Company: John | Date/Time: 11-15-18 10:15 |
| Reinquished by: | | Reinquished by: | | Company: TH | Date/Time: 11-15-18 12:40 | Company: John | Date/Time: 11-15-18 12:40 |
| Reinquished by: | | Reinquished by: | | Company: | Date/Time: | Company: | Date/Time: |

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TestAmerica Michigan
10448 Citation Drive
Suite 200

Michigan
190

221762

Chain of Custody Record

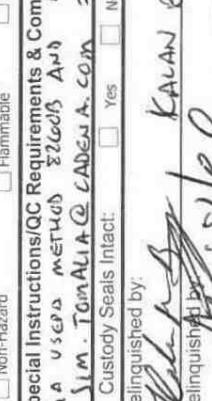
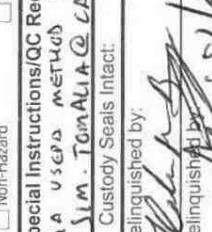
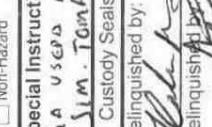
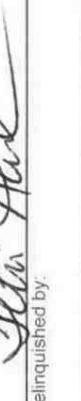
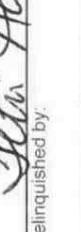
TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

Phone: 810.229.2763 Fax: 412.963.2470

TAL-8210 (0713)

Regulatory Program: DW NPDES RCRA Other:

| Client Contact | | Project Manager: KRIS HUNSEY | | Site Contact: | | Date: | COC No.: 2 of 2 COCs |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|---------------------------------------|-------------|------------------------------|--------|------------|--------------------------------------------|
| Company Name: ARCADIS | Tel/Fax: 248-994-2240 | Lab Contact: | | Carrier: | | | |
| Address: 28550 Abbott Dr #500 | Analysis Turnaround Time | | | | | | Sampler: |
| City/State/Zip: Novi, MI 48377 | <input type="checkbox"/> CALENDAR DAYS | <input type="checkbox"/> WORKING DAYS | | | | | For Lab Use Only: <input type="checkbox"/> |
| Phone: 248-994-2240 | TAT if different from Below: STANDARD | | | | | | Walk-in Client: <input type="checkbox"/> |
| Fax: 248-994-2241 | <input type="checkbox"/> | <input type="checkbox"/> | | | | | Lab Sampling: <input type="checkbox"/> |
| Project Name: F026 LTP | <input type="checkbox"/> | <input type="checkbox"/> | | | | | Job / SDG No.: <input type="checkbox"/> |
| Site: OFC-S, TCE | <input type="checkbox"/> | <input type="checkbox"/> | | | | | |
| PO# MFO01454 0002.0002.03 | <input type="checkbox"/> | <input type="checkbox"/> | | | | | |
| PRESERVATION | | | | | | | |
| SEC SEC BOTTLED | | | | | | | |
| FILTRATED SAMPLE (Y/N) | | | | | | | |
| PERFORM MS / MSD (Y/N) | | | | | | | |
| Sample Specific Notes: | | | | | | | |
| Sample Identification | | Sample Date | Sample Time | Sample Type (C=Comp, G=Grab) | Matrix | # of Cont. | |
| HPT-200_9-13_111418 | 11-14-18 | 1350 | G | GW | 6 | 2 | X |
| HPT-200_4-8_111418 | 11-14-18 | 1405 | G | GW | 6 | 2 | X |
| HPT-201_15-19_111418 | 11-14-18 | 1555 | G | GW | 6 | 2 | X |
| HPT-201_9-13_111418 | 11-14-18 | 1610 | G | GW | 6 | 2 | X |
| HPT-201_4-8_111418 | 11-14-18 | 1625 | G | GW | 6 | 2 | X |
| Preservation Used: 1=Ice, 2=HCl, 3=H2SO4, 4=HNO3; 5=NaOH; 6=Other | | | | | | | |
| Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. | | | | | | | |
| <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Disposal by Lab <input type="checkbox"/> Archive for Months | | | | | | | |
| Special Instructions/QC Requirements & Comments: ANALYZE SAMPLES FOR 1,1-DCE, 1,1,1-TRIS-1,2-DCE, 1,1,1-TRIS-1,2-DCE AND VINYL CHLORIDE VIA USEPA METHODS 210.1 AND 210.1A AND USEPA METHOD 260B-SIM. SUBMIT ALL RESULTS THROUGH DATAVIEW AT SIM. TOMALIA@LADENLAB.COM # E20363 | | | | | | | |
| Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | |
| Custody Seal No.: <input type="checkbox"/> Cooler Temp. (°C): Obsid: _____ Corrid: _____ Therm ID No.: _____ | | | | | | | |
| Relinquished by:  Received by:  Company: APACADIS Company:  Date/Time: 11/15/18 1015 | | | | | | | |
| Relinquished by:  Received by:  Company:  Date/Time: 11/15/18 1015 | | | | | | | |
| Relinquished by:  Received by:  Company:  Date/Time: 11/15/18 1015 | | | | | | | |

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TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 104487

Client Accel's Site Name 11/16/18 Cooler unpacked by: SJ

Cooler Received on 11/16/18 Opened on 11/16/18

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

TestAmerica Cooler # TA Foam Box Client Cooler Box Other _____
Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt
IR GUN# IR-8 (CF +0.9 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
IR GUN #36 (CF +0.6°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
-Were the seals on the outside of the cooler(s) signed & dated?
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?
-Were tamper/custody seals intact and uncompromised?
3. Shippers' packing slip attached to the cooler(s)?
4. Did custody papers accompany the sample(s)?
5. Were the custody papers relinquished & signed in the appropriate place?
6. Was/were the person(s) who collected the samples clearly identified on the COC?
7. Did all bottles arrive in good condition (Unbroken)?
8. Could all bottle labels be reconciled with the COC?
9. Were correct bottle(s) used for the test(s) indicated?
10. Sufficient quantity received to perform indicated analyses?
11. Are these work share samples?
If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC850248
13. Were VOAs on the COC? Yes No NA
14. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # N/A Yes No NA
16. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

Received 2 empty vials for sample HPT-197-5-9 MS

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____



January 17, 2019

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: MI001454.0002/3/4.00002/2B/3B

Client project scope reference: Sample COC only was used to define project analytical requirements.

Laboratory: TestAmerica - North Canton

Laboratory submittal: 104487-2

Sample date: 2018-11-13

Report received by CADENA: 2019-01-16

Initial Data Verification completed by CADENA: 2019-01-17

The following minor QC exceptions or missing information were noted:

SPV - GCMS VOC samples -001, -004 preservation non-compliance as noted in the laboratory submittal should render all associated results as estimated and qualified with J flags if detected and UJ flags if non-detect.

SPV - SIM 1,4-DIOXANE samples -001, -004, -005 preservation non-compliance as noted in the laboratory submittal should render all associated results as estimated and qualified with J flags if detected and UJ flags if non-detect.

SUR - GCMS VOC sample -005 surrogate recoveries were outliers biased high for 2 out of 4 surrogates. These client sample results should be considered to be estimated and qualified with J flags if detected. Non-detect results do not require qualification.

GCMS VOC samples -001, -002, -003, -004, -006, method blanks, LCS, -003MS/MSD, and non-client MS/MSD SURROGATE recoveries were outliers biased high for at least 1 surrogate. Associated client sample results were non-detect so qualification was not required based on these high bias QC outliers.

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.

6 Water sample(s) were analyzed for GCMS VOC parameter(s).

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.

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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

CADENA Valid Qualifiers

| Valid Qualifiers | Description |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| < | Less than the reported concentration. |
| > | Greater than the reported concentration. |
| B | 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. |

SAMPLING AND ANALYSIS SUMMARY

CADENA Project ID: E203631

Laboratory: TestAmerica-North Canton

Laboratory Submittal: 104487-2

| Lab Sample ID | Sample ID | Collection Date (mm/yy/dd) | Collection Time (hh:mm:ss) | Volatile Organics by GCMS | 8260B with Single Ion Monitoring | Comment |
|---------------|----------------------|-------------------------------|-------------------------------|------------------------------|-------------------------------------|---------|
| 2401044871 | HPT-197_15-19_111318 | 11/13/2018 | 1:40:00 | X | X | |
| 2401044872 | HPT-197_10-14_111318 | 11/13/2018 | 2:05:00 | X | X | |
| 2401044873 | HPT-197_5-9_111318 | 11/13/2018 | 2:15:00 | X | X | |
| 2401044874 | HPT-198_16-20_111318 | 11/13/2018 | 3:40:00 | X | X | |
| 2401044875 | HPT-198_11-15_111318 | 11/13/2018 | 4:00:00 | X | X | |
| 2401044876 | HPT-198_6-10_111318 | 11/13/2018 | 4:15:00 | X | X | |

Qualified Results Summary

CADENA Project ID: E203631

Laboratory: TestAmerica - North Canton

Laboratory Submittal: 104487-2

| | Sample Name: | HPT-197_15-19_111318 | | HPT-198_16-20_111318 | | HPT-198_11-15_111318 | | | | | | | |
|---------|----------------|----------------------|-------|----------------------|-----------|----------------------|-------|-------|-----------|--------|-------|-------|-----------|
| | Lab Sample ID: | 2401044871 | | 2401044874 | | 2401044875 | | | | | | | |
| | Sample Date: | 11/13/2018 | | 11/13/2018 | | 11/13/2018 | | | | | | | |
| | | Report | Valid | Report | Valid | Report | Valid | | | | | | |
| Analyte | Cas No. | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier |

GC/MS VOC

OSW-8260B

| | | | | | | | | | | | | | |
|--------------------------|----------|----|-----|------|----|----|-----|------|----|------|-----|------|---|
| 1,1-Dichloroethene | 75-35-4 | ND | 1.0 | ug/l | UJ | ND | 1.0 | ug/l | UJ | | | | |
| cis-1,2-Dichloroethene | 156-59-2 | ND | 1.0 | ug/l | UJ | ND | 1.0 | ug/l | UJ | 0.38 | 1.0 | ug/l | J |
| Tetrachloroethene | 127-18-4 | ND | 1.0 | ug/l | UJ | ND | 1.0 | ug/l | UJ | | | | |
| trans-1,2-Dichloroethene | 156-60-5 | ND | 1.0 | ug/l | UJ | ND | 1.0 | ug/l | UJ | | | | |
| Trichloroethene | 79-01-6 | ND | 1.0 | ug/l | UJ | ND | 1.0 | ug/l | UJ | | | | |
| Vinyl chloride | 75-01-4 | ND | 1.0 | ug/l | UJ | ND | 1.0 | ug/l | UJ | | | | |

OSW-8260BBSim

| | | | | | | | | | | | | | |
|-------------|----------|----|-----|------|----|----|-----|------|----|----|-----|------|----|
| 1,4-Dioxane | 123-91-1 | ND | 2.0 | ug/l | UJ | ND | 2.0 | ug/l | UJ | ND | 2.0 | ug/l | UJ |
|-------------|----------|----|-----|------|----|----|-----|------|----|----|-----|------|----|

Analytical Results Summary

Reportable Results Only

CADENA Project ID: E203631

Laboratory: TestAmerica - North Canton

Laboratory Submittal: 104487-2

| | Sample Name: HPT-197_15-19_111318 | | | | HPT-197_10-14_111318 | | | | HPT-197_5-9_111318 | | | | HPT-198_16-20_111318 | | | | HPT-198_11-15_111318 | | | | HPT-198_6-10_111318 | | | | |
|--------------------------|-----------------------------------|--------|-------|--------|----------------------|--------|--------|--------|--------------------|--------|-------|--------|----------------------|--------|--------|--------|----------------------|--------|-------|--------|---------------------|--------|-------|--------|-----------|
| | Lab Sample ID: 2401044871 | | | | 2401044872 | | | | 2401044873 | | | | 2401044874 | | | | 2401044875 | | | | 2401044876 | | | | |
| | Sample Date: 11/13/2018 | | | | 11/13/2018 | | | | 11/13/2018 | | | | 11/13/2018 | | | | 11/13/2018 | | | | 11/13/2018 | | | | |
| Analyte | Cas No. | Report | Valid | Result | Report | Valid | Result | Report | Valid | Report | Valid | Result | Report | Valid | Result | Report | Valid | Report | Valid | Report | Valid | Report | Valid | Report | Valid |
| GC/MS VOC | | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier | Result | Limit | Units | Qualifier |
| <u>OSW-8260B</u> | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,1-Dichloroethene | 75-35-4 | ND | 1.0 | ug/l | UJ | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | UJ | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- |
| cis-1,2-Dichloroethene | 156-59-2 | ND | 1.0 | ug/l | UJ | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | UJ | 0.38 | 1.0 | ug/l | J | ND | 1.0 | ug/l | --- |
| Tetrachloroethene | 127-18-4 | ND | 1.0 | ug/l | UJ | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | UJ | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- |
| trans-1,2-Dichloroethene | 156-60-5 | ND | 1.0 | ug/l | UJ | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | UJ | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- |
| Trichloroethene | 79-01-6 | ND | 1.0 | ug/l | UJ | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | UJ | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- |
| Vinyl chloride | 75-01-4 | ND | 1.0 | ug/l | UJ | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | UJ | ND | 1.0 | ug/l | --- | ND | 1.0 | ug/l | --- |
| <u>OSW-8260BBSim</u> | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1,4-Dioxane | 123-91-1 | ND | 2.0 | ug/l | UJ | ND | 2.0 | ug/l | --- | ND | 2.0 | ug/l | --- | ND | 2.0 | ug/l | UJ | ND | 2.0 | ug/l | UJ | ND | 2.0 | ug/l | --- |