

 **ANALYTICAL REPORT****PREPARED FOR**

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**JOB DESCRIPTION**

Ford LTP

**JOB NUMBER**

240-237861-1

# Eurofins Cleveland

## Job Notes

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

## Authorization



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# Definitions/Glossary

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237861-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

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

# Case Narrative

Client: Arcadis US Inc.  
Project: Ford LTP

Job ID: 240-237861-1

**Job ID: 240-237861-1**

**Eurofins Cleveland**

## Job Narrative 240-237861-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

### Receipt

The samples were received on 11/15/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.9°C and 4.3°C.

### GC/MS VOA

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

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# Method Summary

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237861-1

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

**Protocol References:**

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

**Laboratory References:**

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

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- 11
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- 14

# Sample Summary

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237861-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
240-237861-1	TRIP BLANK_113	Water	11/13/25 00:00	11/15/25 08:00	Michigan
240-237861-2	MW-14_111325	Water	11/13/25 11:40	11/15/25 08:00	Michigan
240-237861-3	MW-47_111325	Water	11/13/25 14:10	11/15/25 08:00	Michigan
240-237861-4	MW-54S_111325	Water	11/13/25 09:00	11/15/25 08:00	Michigan
240-237861-5	MW-67_111325	Water	11/13/25 10:25	11/15/25 08:00	Michigan
240-237861-6	MW-58_111325	Water	11/13/25 12:15	11/15/25 08:00	Michigan
240-237861-7	MW-57_111325	Water	11/13/25 13:40	11/15/25 08:00	Michigan

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- 9
- 10
- 11
- 12
- 13
- 14

# Detection Summary

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237861-1

## Client Sample ID: TRIP BLANK\_113

Lab Sample ID: 240-237861-1

No Detections.

## Client Sample ID: MW-14\_111325

Lab Sample ID: 240-237861-2

No Detections.

## Client Sample ID: MW-47\_111325

Lab Sample ID: 240-237861-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.3	J	2.0	0.86	ug/L	1		8260D SIM	Total/NA
cis-1,2-Dichloroethene	6.6		1.0	0.46	ug/L	1		8260D	Total/NA
trans-1,2-Dichloroethene	1.1		1.0	0.51	ug/L	1		8260D	Total/NA
Vinyl chloride	6.0		1.0	0.45	ug/L	1		8260D	Total/NA

## Client Sample ID: MW-54S\_111325

Lab Sample ID: 240-237861-4

No Detections.

## Client Sample ID: MW-67\_111325

Lab Sample ID: 240-237861-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.5		1.0	0.46	ug/L	1		8260D	Total/NA
Trichloroethene	50		1.0	0.44	ug/L	1		8260D	Total/NA

## Client Sample ID: MW-58\_111325

Lab Sample ID: 240-237861-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	6.2		2.0	0.86	ug/L	1		8260D SIM	Total/NA

## Client Sample ID: MW-57\_111325

Lab Sample ID: 240-237861-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.3		2.0	0.86	ug/L	1		8260D SIM	Total/NA

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237861-1

**Client Sample ID: TRIP BLANK\_113**

**Lab Sample ID: 240-237861-1**

Date Collected: 11/13/25 00:00

Matrix: Water

Date Received: 11/15/25 08:00

**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			11/20/25 01:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/25 01:50	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 01:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/25 01:50	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 01:50	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/20/25 01:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137		11/20/25 01:50	1
4-Bromofluorobenzene (Surr)	97		56 - 136		11/20/25 01:50	1
Toluene-d8 (Surr)	87		78 - 122		11/20/25 01:50	1
Dibromofluoromethane (Surr)	87		73 - 120		11/20/25 01:50	1

# Client Sample Results

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237861-1

**Client Sample ID: MW-14\_111325**

**Lab Sample ID: 240-237861-2**

Date Collected: 11/13/25 11:40

Matrix: Water

Date Received: 11/15/25 08:00

**Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/21/25 15:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 136					11/21/25 15:47	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			11/20/25 02:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/25 02:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 02:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/25 02:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 02:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/20/25 02:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137					11/20/25 02:13	1
4-Bromofluorobenzene (Surr)	96		56 - 136					11/20/25 02:13	1
Toluene-d8 (Surr)	89		78 - 122					11/20/25 02:13	1
Dibromofluoromethane (Surr)	89		73 - 120					11/20/25 02:13	1

# Client Sample Results

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237861-1

**Client Sample ID: MW-47\_111325**

**Lab Sample ID: 240-237861-3**

Date Collected: 11/13/25 14:10

Matrix: Water

Date Received: 11/15/25 08:00

**Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.3	J	2.0	0.86	ug/L			11/21/25 16:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		64 - 136					11/21/25 16:10	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			11/20/25 02:36	1
cis-1,2-Dichloroethene	6.6		1.0	0.46	ug/L			11/20/25 02:36	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 02:36	1
trans-1,2-Dichloroethene	1.1		1.0	0.51	ug/L			11/20/25 02:36	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 02:36	1
Vinyl chloride	6.0		1.0	0.45	ug/L			11/20/25 02:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137					11/20/25 02:36	1
4-Bromofluorobenzene (Surr)	94		56 - 136					11/20/25 02:36	1
Toluene-d8 (Surr)	89		78 - 122					11/20/25 02:36	1
Dibromofluoromethane (Surr)	93		73 - 120					11/20/25 02:36	1

# Client Sample Results

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237861-1

**Client Sample ID: MW-54S\_111325**

**Lab Sample ID: 240-237861-4**

Date Collected: 11/13/25 09:00

Matrix: Water

Date Received: 11/15/25 08:00

**Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/21/25 16:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 136					11/21/25 16:34	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			11/20/25 02:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/25 02:59	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 02:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/25 02:59	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 02:59	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/20/25 02:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137					11/20/25 02:59	1
4-Bromofluorobenzene (Surr)	96		56 - 136					11/20/25 02:59	1
Toluene-d8 (Surr)	87		78 - 122					11/20/25 02:59	1
Dibromofluoromethane (Surr)	88		73 - 120					11/20/25 02:59	1

# Client Sample Results

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237861-1

**Client Sample ID: MW-67\_111325**

**Lab Sample ID: 240-237861-5**

Date Collected: 11/13/25 10:25

Matrix: Water

Date Received: 11/15/25 08:00

**Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/21/25 16:57	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	102		64 - 136					11/21/25 16:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/20/25 03:22	1
<b>cis-1,2-Dichloroethene</b>	<b>1.5</b>		1.0	0.46	ug/L			11/20/25 03:22	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 03:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/25 03:22	1
<b>Trichloroethene</b>	<b>50</b>		1.0	0.44	ug/L			11/20/25 03:22	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/20/25 03:22	1
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
1,2-Dichloroethane-d4 (Surr)	91		62 - 137					11/20/25 03:22	1
4-Bromofluorobenzene (Surr)	95		56 - 136					11/20/25 03:22	1
Toluene-d8 (Surr)	89		78 - 122					11/20/25 03:22	1
Dibromofluoromethane (Surr)	89		73 - 120					11/20/25 03:22	1

# Client Sample Results

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237861-1

**Client Sample ID: MW-58\_111325**

**Lab Sample ID: 240-237861-6**

Date Collected: 11/13/25 12:15

Matrix: Water

Date Received: 11/15/25 08:00

**Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	6.2		2.0	0.86	ug/L			11/21/25 17:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		64 - 136					11/21/25 17:21	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			11/20/25 03:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/25 03:45	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 03:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/25 03:45	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 03:45	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/20/25 03:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		62 - 137					11/20/25 03:45	1
4-Bromofluorobenzene (Surr)	94		56 - 136					11/20/25 03:45	1
Toluene-d8 (Surr)	89		78 - 122					11/20/25 03:45	1
Dibromofluoromethane (Surr)	86		73 - 120					11/20/25 03:45	1

# Client Sample Results

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237861-1

**Client Sample ID: MW-57\_111325**

**Lab Sample ID: 240-237861-7**

Date Collected: 11/13/25 13:40

Matrix: Water

Date Received: 11/15/25 08:00

**Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.3		2.0	0.86	ug/L			11/22/25 11:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		64 - 136					11/22/25 11:27	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			11/20/25 04:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/20/25 04:08	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 04:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/20/25 04:08	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/20/25 04:08	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/20/25 04:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137					11/20/25 04:08	1
4-Bromofluorobenzene (Surr)	95		56 - 136					11/20/25 04:08	1
Toluene-d8 (Surr)	88		78 - 122					11/20/25 04:08	1
Dibromofluoromethane (Surr)	89		73 - 120					11/20/25 04:08	1

# Surrogate Summary

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237861-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (62-137)	BFB (56-136)	TOL (78-122)	DBFM (73-120)
240-237860-B-3 MS	Matrix Spike	89	101	92	86
240-237860-B-3 MSD	Matrix Spike Duplicate	90	99	91	90
240-237861-1	TRIP BLANK_113	91	97	87	87
240-237861-2	MW-14_111325	96	96	89	89
240-237861-3	MW-47_111325	95	94	89	93
240-237861-4	MW-54S_111325	94	96	87	88
240-237861-5	MW-67_111325	91	95	89	89
240-237861-6	MW-58_111325	93	94	89	86
240-237861-7	MW-57_111325	94	95	88	89
LCS 240-681263/4	Lab Control Sample	91	100	92	87
MB 240-681263/8	Method Blank	90	94	89	88

**Surrogate Legend**

DCA = 1,2-Dichloroethane-d4 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
TOL = Toluene-d8 (Surr)  
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DCA (64-136)
240-237860-A-3 MS	Matrix Spike	101
240-237860-A-3 MSD	Matrix Spike Duplicate	111
240-237861-2	MW-14_111325	103
240-237861-3	MW-47_111325	107
240-237861-4	MW-54S_111325	102
240-237861-5	MW-67_111325	102
240-237861-6	MW-58_111325	112
240-237861-7	MW-57_111325	112
500-277921-B-4 MSD	Matrix Spike Duplicate	101
500-277921-C-4 MS	Matrix Spike	109
LCS 240-681535/5	Lab Control Sample	102
LCS 240-681709/5	Lab Control Sample	103
MB 240-681535/7	Method Blank	103
MB 240-681709/7	Method Blank	105

**Surrogate Legend**

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

# QC Sample Results

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237861-1

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

Lab Sample ID: MB 240-681263/8

Matrix: Water

Analysis Batch: 681263

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/19/25 22:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/25 22:46	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 22:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/25 22:46	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/25 22:46	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/25 22:46	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	90		62 - 137		11/19/25 22:46	1
4-Bromofluorobenzene (Surr)	94		56 - 136		11/19/25 22:46	1
Toluene-d8 (Surr)	89		78 - 122		11/19/25 22:46	1
Dibromofluoromethane (Surr)	88		73 - 120		11/19/25 22:46	1

Lab Sample ID: LCS 240-681263/4

Matrix: Water

Analysis Batch: 681263

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	25.0	24.9		ug/L		100	77 - 123
Tetrachloroethene	25.0	21.4		ug/L		86	76 - 123
trans-1,2-Dichloroethene	25.0	21.4		ug/L		86	75 - 124
Trichloroethene	25.0	24.8		ug/L		99	70 - 122
Vinyl chloride	12.5	9.68		ug/L		77	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	91		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	92		78 - 122
Dibromofluoromethane (Surr)	87		73 - 120

Lab Sample ID: 240-237860-B-3 MS

Matrix: Water

Analysis Batch: 681263

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	25.0	19.9		ug/L		80	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	23.7		ug/L		95	66 - 128
Tetrachloroethene	1.0	U	25.0	19.5		ug/L		78	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	21.2		ug/L		85	56 - 136
Trichloroethene	1.0	U	25.0	22.8		ug/L		91	61 - 124
Vinyl chloride	1.2		12.5	10.3		ug/L		73	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	89		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	92		78 - 122

Eurofins Cleveland

# QC Sample Results

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237861-1

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

Lab Sample ID: 240-237860-B-3 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 681263

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	86		73 - 120

Lab Sample ID: 240-237860-B-3 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 681263

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	1.0	U	25.0	22.8		ug/L		91	56 - 135	14	26
cis-1,2-Dichloroethene	1.0	U	25.0	24.1		ug/L		97	66 - 128	2	14
Tetrachloroethene	1.0	U	25.0	20.7		ug/L		83	62 - 131	6	20
trans-1,2-Dichloroethene	1.0	U	25.0	22.0		ug/L		88	56 - 136	4	15
Trichloroethene	1.0	U	25.0	24.9		ug/L		99	61 - 124	9	15
Vinyl chloride	1.2		12.5	11.2		ug/L		80	43 - 157	9	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	91		78 - 122
Dibromofluoromethane (Surr)	90		73 - 120

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

Lab Sample ID: MB 240-681535/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 681535

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			11/21/25 09:31	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,2-Dichloroethane-d4 (Surr)	103		64 - 136		11/21/25 09:31	1			

Lab Sample ID: LCS 240-681535/5

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 681535

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	10.0	9.95		ug/L		100	68 - 120

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		64 - 136

Lab Sample ID: 500-277921-B-4 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 681535

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	6400		500	7070	4	ug/L		123	45 - 145	2	19

Eurofins Cleveland

# QC Sample Results

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237861-1

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		64 - 136

Lab Sample ID: 500-277921-C-4 MS  
Matrix: Water  
Analysis Batch: 681535

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	6400		500	7220	4	ug/L		154	45 - 145

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		64 - 136

Lab Sample ID: MB 240-681709/7  
Matrix: Water  
Analysis Batch: 681709

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			11/22/25 10:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		64 - 136		11/22/25 10:17	1

Lab Sample ID: LCS 240-681709/5  
Matrix: Water  
Analysis Batch: 681709

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	8.35		ug/L		83	68 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		64 - 136

Lab Sample ID: 240-237860-A-3 MS  
Matrix: Water  
Analysis Batch: 681709

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	22		10.0	32.3		ug/L		105	45 - 145

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		64 - 136

Lab Sample ID: 240-237860-A-3 MSD  
Matrix: Water  
Analysis Batch: 681709

Client Sample ID: Matrix Spike Duplicate  
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	22		10.0	32.6		ug/L		108	45 - 145	1	19

# QC Sample Results

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237861-1

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

Lab Sample ID: 240-237860-A-3 MSD

Matrix: Water

Analysis Batch: 681709

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

<i>Surrogate</i>	<i>MSD</i>	<i>MSD</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
1,2-Dichloroethane-d4 (Surr)	111		64 - 136

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# QC Association Summary

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237861-1

## GC/MS VOA

### Analysis Batch: 681263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-237861-1	TRIP BLANK_113	Total/NA	Water	8260D	
240-237861-2	MW-14_111325	Total/NA	Water	8260D	
240-237861-3	MW-47_111325	Total/NA	Water	8260D	
240-237861-4	MW-54S_111325	Total/NA	Water	8260D	
240-237861-5	MW-67_111325	Total/NA	Water	8260D	
240-237861-6	MW-58_111325	Total/NA	Water	8260D	
240-237861-7	MW-57_111325	Total/NA	Water	8260D	
MB 240-681263/8	Method Blank	Total/NA	Water	8260D	
LCS 240-681263/4	Lab Control Sample	Total/NA	Water	8260D	
240-237860-B-3 MS	Matrix Spike	Total/NA	Water	8260D	
240-237860-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

### Analysis Batch: 681535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-237861-2	MW-14_111325	Total/NA	Water	8260D SIM	
240-237861-3	MW-47_111325	Total/NA	Water	8260D SIM	
240-237861-4	MW-54S_111325	Total/NA	Water	8260D SIM	
240-237861-5	MW-67_111325	Total/NA	Water	8260D SIM	
240-237861-6	MW-58_111325	Total/NA	Water	8260D SIM	
MB 240-681535/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-681535/5	Lab Control Sample	Total/NA	Water	8260D SIM	
500-277921-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	
500-277921-C-4 MS	Matrix Spike	Total/NA	Water	8260D SIM	

### Analysis Batch: 681709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-237861-7	MW-57_111325	Total/NA	Water	8260D SIM	
MB 240-681709/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-681709/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-237860-A-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-237860-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

# Lab Chronicle

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237861-1

**Client Sample ID: TRIP BLANK\_113**

**Lab Sample ID: 240-237861-1**

Date Collected: 11/13/25 00:00

Matrix: Water

Date Received: 11/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681263	LEE	EET CLE	11/20/25 01:50

**Client Sample ID: MW-14\_111325**

**Lab Sample ID: 240-237861-2**

Date Collected: 11/13/25 11:40

Matrix: Water

Date Received: 11/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681263	LEE	EET CLE	11/20/25 02:13
Total/NA	Analysis	8260D SIM		1	681535	R5XG	EET CLE	11/21/25 15:47

**Client Sample ID: MW-47\_111325**

**Lab Sample ID: 240-237861-3**

Date Collected: 11/13/25 14:10

Matrix: Water

Date Received: 11/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681263	LEE	EET CLE	11/20/25 02:36
Total/NA	Analysis	8260D SIM		1	681535	R5XG	EET CLE	11/21/25 16:10

**Client Sample ID: MW-54S\_111325**

**Lab Sample ID: 240-237861-4**

Date Collected: 11/13/25 09:00

Matrix: Water

Date Received: 11/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681263	LEE	EET CLE	11/20/25 02:59
Total/NA	Analysis	8260D SIM		1	681535	R5XG	EET CLE	11/21/25 16:34

**Client Sample ID: MW-67\_111325**

**Lab Sample ID: 240-237861-5**

Date Collected: 11/13/25 10:25

Matrix: Water

Date Received: 11/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681263	LEE	EET CLE	11/20/25 03:22
Total/NA	Analysis	8260D SIM		1	681535	R5XG	EET CLE	11/21/25 16:57

**Client Sample ID: MW-58\_111325**

**Lab Sample ID: 240-237861-6**

Date Collected: 11/13/25 12:15

Matrix: Water

Date Received: 11/15/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681263	LEE	EET CLE	11/20/25 03:45
Total/NA	Analysis	8260D SIM		1	681535	R5XG	EET CLE	11/21/25 17:21

# Lab Chronicle

Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237861-1

**Client Sample ID: MW-57\_111325**

**Lab Sample ID: 240-237861-7**

**Date Collected: 11/13/25 13:40**

**Matrix: Water**

**Date Received: 11/15/25 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681263	LEE	EET CLE	11/20/25 04:08
Total/NA	Analysis	8260D SIM		1	681709	R5XG	EET CLE	11/22/25 11:27

**Laboratory References:**

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

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# Accreditation/Certification Summary

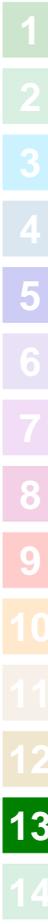
Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-237861-1

## Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0806	09-30-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	08-31-26
Iowa	State	421	06-01-27
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-28-26
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	2250	09-30-26
New Jersey	NELAP	OH001	06-30-26
New York	NELAP	10975	04-01-26
North Dakota	State	R-244	02-27-26
Ohio	State	8303	02-27-26
Ohio VAP	State	ORELAP 4062	02-28-26
Oregon	NELAP	4062	02-27-26
Pennsylvania	NELAP	68-00340	08-31-26
Texas	NELAP	T104704517	08-31-26
US Fish & Wildlife	US Federal Programs	A26406	02-28-26
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-30-26
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-26



# Chain of Custody Record

TestAmerica Laboratory location: Farmington Hills — 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331

<b>Client Contact</b>			<b>Regulatory program:</b> <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other										<b>TestAmerica Laboratories, Inc.</b>																																			
Company Name: Arcadis			Client Project Manager: Megan Meckley					Site Contact: Samantha Szaichler					Lab Contact: Mike DelMonico																																			
Address: 28550 Cabot Drive, Suite 500			Telephone: 248-994-2240					Telephone: 248-994-2240					Telephone: 330-497-9396																																			
City/State/Zip: Novi, MI, 48377			Email: megan.meckley@arcadis.com					<b>Analysis Turnaround Time</b>					<b>Analyses</b>																																			
Phone: 248-994-2240			Sampler Name: Kaylee DeRoo					TAT if different from below					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>1,1-DCE 8260D</td> <td>cis-1,2-DCE 8260D</td> <td>Trans-1,2-DCE 8260D</td> <td>PCE 8260D</td> <td>TCE 8260D</td> <td>Vinyl Chloride 8260D</td> <td>1,4-Dioxane 8260D SIM</td> </tr> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> </tr> </table>					1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM	X	X	X	X	X	X	X																	
1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM																																										
X	X	X	X	X	X	X																																										
Project Name: Ford LTP			Method of Shipment/Carrier:					10 day <input checked="" type="checkbox"/> 2 weeks					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>Filtered Sample (Y/N)</td> <td>Composite=C/Grab=G</td> </tr> <tr> <td>NG</td> <td>G</td> </tr> </table>					Filtered Sample (Y/N)	Composite=C/Grab=G	NG	G																											
Filtered Sample (Y/N)	Composite=C/Grab=G																																															
NG	G																																															
Project Number: 30251157.401.04			Shipping/Tracking No:					<input type="checkbox"/> 1 week					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>Matrix</td> <td colspan="6">Containers &amp; Preservatives</td> </tr> <tr> <td>Air</td> <td>Aqueous</td> <td>Sediment</td> <td>Solid</td> <td>Other:</td> <td>H2SO4</td> <td>HNO3</td> <td>HCl</td> <td>NaOH</td> <td>ZnO/NaOH</td> <td>Unpres</td> <td>Other:</td> </tr> <tr> <td></td> </tr> </table>					Matrix	Containers & Preservatives						Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnO/NaOH	Unpres	Other:												
Matrix	Containers & Preservatives																																															
Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnO/NaOH	Unpres	Other:																																					
PO # US								<input type="checkbox"/> 2 days					<table border="1" style="width: 100%; text-align: center;"> <tr> <td>Sample Identification</td> <td>Sample Date</td> <td>Sample Time</td> <td>Air</td> <td>Aqueous</td> <td>Sediment</td> <td>Solid</td> <td>Other:</td> <td>H2SO4</td> <td>HNO3</td> <td>HCl</td> <td>NaOH</td> <td>ZnO/NaOH</td> <td>Unpres</td> <td>Other:</td> <td>Filtered Sample (Y/N)</td> <td>Composite=C/Grab=G</td> <td>1,1-DCE 8260D</td> <td>cis-1,2-DCE 8260D</td> <td>Trans-1,2-DCE 8260D</td> <td>PCE 8260D</td> <td>TCE 8260D</td> <td>Vinyl Chloride 8260D</td> <td>1,4-Dioxane 8260D SIM</td> <td>Sample Specific Notes / Special Instructions:</td> </tr> </table>					Sample Identification	Sample Date	Sample Time	Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnO/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite=C/Grab=G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM	Sample Specific Notes / Special Instructions:						
Sample Identification	Sample Date	Sample Time	Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnO/NaOH						Unpres	Other:	Filtered Sample (Y/N)	Composite=C/Grab=G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM	Sample Specific Notes / Special Instructions:																			
								<input type="checkbox"/> 1 day																																								
TRIP BLANK_113			----		---		1								NG		X		X		X		X		1 Trip Blank																							
MW-14_111225			11/12/25		1140		6								NG		X		X		X		X		3 VOAs for 8260D 3 VOAs for 8260D SIM																							
MW-47_111225			11/12/25		1410																																											
MW-545_111325			11/13/25		0900																																											
MW-67_111325					1025																																											
MW-58_111325					1215																																											
MW-57_111325					1340																																											

Eurofins - Cleveland Sample Receipt Form/Narrative  
Barberton Facility

Login #

Client Alcaldis

Site Name

Cooler unpacked by: JM

Cooler Received on 11/15/15

Opened on 11/18/15

Pedfx. 1<sup>st</sup> Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other

Receipt After-hours Drop-off Date/Time

Storage Location

Eurofins Cooler # EC 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  See Multiple Cooler Form

IR GUN # 17 (CF +0.1 °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?  Yes  No  NA

-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?  Yes  No  NA

-Were tamper/custody seals intact and uncompromised?  Yes  No  NA

3 Shippers' packing slip attached to the cooler(s)?  Yes  No  NA

4 Did custody papers accompany the sample(s)?  Yes  No  NA

5 Were the custody papers relinquished & signed in the appropriate place?  Yes  No  NA

6 Was/were the person(s) who collected the samples clearly identified on the COC?  Yes  No  NA

7 Did all bottles arrive in good condition (Unbroken)?  Yes  No  NA

8 Could all bottle labels (ID/Date/Time) be reconciled with the COC?  Yes  No  NA

9 For each sample, does the COC specify preservatives  (Y/N), # of containers  (Y/N), and sample type of grab/comp  (Y/N)?

10 Were correct bottle(s) used for the test(s) indicated?  Yes  No  NA

11 Sufficient quantity received to perform indicated analyses?  Yes  No  NA

12. Are these work share samples and all listed on the COC?  Yes  No  NA

If yes, Questions 13-17 have been checked at the originating laboratory

13 Were all preserved sample(s) at the correct pH upon receipt?  Yes  No  NA pH Strip Lot# HC567196

14 Were VOAs on the COC?  Yes  No  NA

15 Were air bubbles >6 mm in any VOA vials?  Yes  No  NA

16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # covered  Yes  No  NA

17 Was a LL Hg or Me Hg trip blank present?  Yes  No  NA

Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other

Concerning \_\_\_\_\_

18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES  additional next page

Labeled by:

Labels Verified by:

19 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)

20. SAMPLE PRESERVATION

Sample(s) \_\_\_\_\_ were further preserved in the laboratory

Time preserved \_\_\_\_\_ Preservative(s) added/Lot number(s) \_\_\_\_\_

VOA Sample Preservation - Date/Time VOAs Frozen. \_\_\_\_\_



Temperature readings

Client Sample ID	Lab ID	Container Type	Container	Preservation	Preservation
			pH	Temp	Added
					Lot Number
TRIP BLANK_113	240-237861-A-1	Voa Vial 40ml - Hydrochloric Acid			
MW-14_111325	240-237861-A-2	Voa Vial 40ml - Hydrochloric Acid			
MW-14_111325	240-237861-B-2	Voa Vial 40ml Hydrochloric Acid			
MW-14_111325	240-237861-C-2	Voa Vial 40ml - Hydrochloric Acid			
MW-14_111325	240-237861-D-2	Voa Vial 40ml - Hydrochloric Acid			
MW-14_111325	240-237861-E-2	Voa Vial 40ml - Hydrochloric Acid			
MW-14_111325	240-237861-F-2	Voa Vial 40ml - Hydrochloric Acid			
MW-47_111325	240-237861-A-3	Voa Vial 40ml - Hydrochloric Acid			
MW-47_111325	240-237861-B-3	Voa Vial 40ml - Hydrochloric Acid			
MW-47_111325	240-237861-C-3	Voa Vial 40ml - Hydrochloric Acid			
MW-47_111325	240-237861-D-3	Voa Vial 40ml - Hydrochloric Acid			
MW-47_111325	240-237861-E-3	Voa Vial 40ml - Hydrochloric Acid			
MW-47_111325	240 237861-F-3	Voa Vial 40ml - Hydrochloric Acid			
MW-54S_111325	240-237861-A-4	Voa Vial 40ml - Hydrochloric Acid			
MW-54S_111325	240-237861-B-4	Voa Vial 40ml - Hydrochloric Acid			
MW-54S_111325	240-237861-C-4	Voa Vial 40ml - Hydrochloric Acid			
MW-54S_111325	240-237861-D-4	Voa Vial 40ml - Hydrochloric Acid			
MW-54S_111325	240-237861-E-4	Voa Vial 40ml - Hydrochloric Acid			
MW 54S_111325	240-237861-F-4	Voa Vial 40ml - Hydrochloric Acid			
MW-67_111325	240-237861-A-5	Voa Vial 40ml - Hydrochloric Acid			
MW-67_111325	240-237861-B-5	Voa Vial 40ml - Hydrochloric Acid			
MW-67_111325	240-237861-C-5	Voa Vial 40ml - Hydrochloric Acid			
MW-67_111325	240-237861-D-5	Voa Vial 40ml - Hydrochloric Acid			
MW-67_111325	240-237861-E-5	Voa Vial 40ml Hydrochloric Acid			
MW-58_111325	240-237861-A-6	Voa Vial 40ml - Hydrochloric Acid			
MW-58_111325	240-237861-B-6	Voa Vial 40ml - Hydrochloric Acid			
MW-58_111325	240-237861-C-6	Voa Vial 40ml - Hydrochloric Acid			
MW-58_111325	240-237861-D-6	Voa Vial 40ml - Hydrochloric Acid			
MW-58_111325	240-237861-E-6	Voa Vial 40ml - Hydrochloric Acid			
MW-58_111325	240-237861-F-6	Voa Vial 40ml - Hydrochloric Acid			
MW-57_111325	240-237861-A-7	Voa Vial 40ml - Hydrochloric Acid			
MW-57_111325	240 237861-B-7	Voa Vial 40ml - Hydrochloric Acid			
MW-57_111325	240-237861-C-7	Voa Vial 40ml - Hydrochloric Acid			
MW-57_111325	240-237861-D-7	Voa Vial 40ml - Hydrochloric Acid			



<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>	<u>pH</u>	<u>Temp</u>	<u>Preservation</u>	<u>Added</u>	<u>Preservation</u>	<u>Lot Number</u>
MW-57_111325	240-237861-E-7	Voa Vial 40ml - Hydrochloric Acid							
MW-57_111325	240-237861-F-7	Voa Vial 40ml - Hydrochloric Acid							

# DATA VERIFICATION REPORT



November 25, 2025

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

CADENA project ID: E203728  
Project: Ford Livonia Transmission Plant - ON-SITE Soil Gas, Ground Water and Soil  
Project number: 30251157.401.04 LTP  
Event Specific Scope of Work References: Sample COC  
Laboratory: Eurofins Environment Testing LLC - Cleveland  
Laboratory submittal: 237861-1  
Sample date: 2025-11-13  
Report received by CADENA: 2025-11-25  
Initial Data Verification completed by CADENA: 2025-11-25  
Number of Samples:7  
Sample Matrices:Water  
Test Categories:GCMS VOC  
**Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.**

There were no significant QC anomalies or exceptions to report.

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

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

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

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at <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 contaminants) 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 contaminants) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

## Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 237861-1

Analyte	Cas No.	TRIP BLANK_113				MW-14_111325				MW-47_111325				MW-54S_111325				MW-67_111325				MW-58_111325				MW-57_111325			
		Report		Valid		Report		Valid		Report		Valid		Report		Valid		Report		Valid		Report		Valid		Report		Valid	
		Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
<b>GC/MS VOC</b>																													
<u>OSW-8260D</u>																													
1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	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	---	6.6	1.0	ug/l	---	ND	1.0	ug/l	---	1.5	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	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	---	1.1	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Trichloroethene	79-01-6	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	50	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	6.0	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
<u>OSW-8260DSIM</u>																													
1,4-Dioxane	123-91-1					ND	2.0	ug/l	---	1.3	2.0	ug/l	J	ND	2.0	ug/l	---	ND	2.0	ug/l	---	6.2	2.0	ug/l	---	2.3	2.0	ug/l	---