

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

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**JOB DESCRIPTION**

Ford LTP

**JOB NUMBER**

240-238063-1

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## Job Notes

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

## Authorization



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# Definitions/Glossary

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

Job ID: 240-238063-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
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: 240-238063-1

**Job ID: 240-238063-1**

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## **Job Narrative 240-238063-1**

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 11/19/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°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: 240-238063-1

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
- 12
- 13
- 14

# Sample Summary

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

Job ID: 240-238063-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
240-238063-1	TRIP BLANK_127	Water	11/14/25 00:00	11/19/25 08:00	Michigan
240-238063-2	MW-209S_111425	Water	11/14/25 08:30	11/19/25 08:00	Michigan
240-238063-3	MW-210S_111425	Water	11/14/25 09:45	11/19/25 08:00	Michigan

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- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

# Detection Summary

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

Job ID: 240-238063-1

## Client Sample ID: TRIP BLANK\_127

Lab Sample ID: 240-238063-1

No Detections.

## Client Sample ID: MW-209S\_111425

Lab Sample ID: 240-238063-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.1		1.0	0.46	ug/L		1	8260D	Total/NA
Vinyl chloride	2.0		1.0	0.45	ug/L		1	8260D	Total/NA

## Client Sample ID: MW-210S\_111425

Lab Sample ID: 240-238063-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.1	J	2.0	0.86	ug/L		1	8260D SIM	Total/NA
cis-1,2-Dichloroethene	25		1.0	0.46	ug/L		1	8260D	Total/NA
trans-1,2-Dichloroethene	2.7		1.0	0.51	ug/L		1	8260D	Total/NA
Vinyl chloride	12		1.0	0.45	ug/L		1	8260D	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: 240-238063-1

**Client Sample ID: TRIP BLANK\_127**

**Lab Sample ID: 240-238063-1**

Date Collected: 11/14/25 00:00

Matrix: Water

Date Received: 11/19/25 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			11/21/25 18:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/25 18:53	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 18:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/25 18:53	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 18:53	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/21/25 18:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137		11/21/25 18:53	1
4-Bromofluorobenzene (Surr)	93		56 - 136		11/21/25 18:53	1
Toluene-d8 (Surr)	89		78 - 122		11/21/25 18:53	1
Dibromofluoromethane (Surr)	89		73 - 120		11/21/25 18:53	1

# Client Sample Results

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

Job ID: 240-238063-1

**Client Sample ID: MW-209S\_111425**

**Lab Sample ID: 240-238063-2**

Date Collected: 11/14/25 08:30

Matrix: Water

Date Received: 11/19/25 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			11/24/25 15:31	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)	103		64 - 136					11/24/25 15:31	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			11/21/25 19:16	1
<b>cis-1,2-Dichloroethene</b>	<b>1.1</b>		1.0	0.46	ug/L			11/21/25 19:16	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 19:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/25 19:16	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 19:16	1
<b>Vinyl chloride</b>	<b>2.0</b>		1.0	0.45	ug/L			11/21/25 19:16	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)	94		62 - 137					11/21/25 19:16	1
4-Bromofluorobenzene (Surr)	97		56 - 136					11/21/25 19:16	1
Toluene-d8 (Surr)	90		78 - 122					11/21/25 19:16	1
Dibromofluoromethane (Surr)	94		73 - 120					11/21/25 19:16	1

# Client Sample Results

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

Job ID: 240-238063-1

**Client Sample ID: MW-210S\_111425**

**Lab Sample ID: 240-238063-3**

Date Collected: 11/14/25 09:45

Matrix: Water

Date Received: 11/19/25 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	1.1	J	2.0	0.86	ug/L			11/24/25 15:55	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)	107		64 - 136					11/24/25 15:55	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			11/21/25 19:39	1
cis-1,2-Dichloroethene	25		1.0	0.46	ug/L			11/21/25 19:39	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 19:39	1
trans-1,2-Dichloroethene	2.7		1.0	0.51	ug/L			11/21/25 19:39	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 19:39	1
Vinyl chloride	12		1.0	0.45	ug/L			11/21/25 19:39	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)	94		62 - 137					11/21/25 19:39	1
4-Bromofluorobenzene (Surr)	93		56 - 136					11/21/25 19:39	1
Toluene-d8 (Surr)	86		78 - 122					11/21/25 19:39	1
Dibromofluoromethane (Surr)	90		73 - 120					11/21/25 19:39	1

# Surrogate Summary

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

Job ID: 240-238063-1

## 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)
240-237961-B-30 MS	Matrix Spike	89	100	90	87
240-237961-B-30 MSD	Matrix Spike Duplicate	94	104	92	92
240-238063-1	TRIP BLANK_127	97	93	89	89
240-238063-2	MW-209S_111425	94	97	90	94
240-238063-3	MW-210S_111425	94	93	86	90
LCS 240-681562/4	Lab Control Sample	87	99	90	91
MB 240-681562/8	Method Blank	93	95	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)
240-238063-2	MW-209S_111425	103
240-238063-3	MW-210S_111425	107
240-238067-E-4 MS	Matrix Spike	110
240-238067-E-4 MSD	Matrix Spike Duplicate	109
LCS 240-681852/5	Lab Control Sample	96
MB 240-681852/7	Method Blank	96

**Surrogate Legend**

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

# QC Sample Results

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

Job ID: 240-238063-1

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

**Lab Sample ID: MB 240-681562/8**

**Matrix: Water**

**Analysis Batch: 681562**

**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			11/21/25 11:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/25 11:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 11:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/25 11:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 11:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/21/25 11:58	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	93		62 - 137		11/21/25 11:58	1
4-Bromofluorobenzene (Surr)	95		56 - 136		11/21/25 11:58	1
Toluene-d8 (Surr)	89		78 - 122		11/21/25 11:58	1
Dibromofluoromethane (Surr)	88		73 - 120		11/21/25 11:58	1

**Lab Sample ID: LCS 240-681562/4**

**Matrix: Water**

**Analysis Batch: 681562**

**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	22.9		ug/L		92	77 - 123
Tetrachloroethene	25.0	22.9		ug/L		92	76 - 123
trans-1,2-Dichloroethene	25.0	21.6		ug/L		86	75 - 124
Trichloroethene	25.0	24.5		ug/L		98	70 - 122
Vinyl chloride	12.5	10.2		ug/L		82	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	87		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	90		78 - 122
Dibromofluoromethane (Surr)	91		73 - 120

**Lab Sample ID: 240-237961-B-30 MS**

**Matrix: Water**

**Analysis Batch: 681562**

**Client Sample ID: Matrix Spike**

**Prep Type: Total/NA**

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
1,1-Dichloroethene	500	U	12500	9860		ug/L		79	56 - 135
cis-1,2-Dichloroethene	6500		12500	17800		ug/L		90	66 - 128
Tetrachloroethene	1700		12500	11100		ug/L		75	62 - 131
trans-1,2-Dichloroethene	500	U	12500	10400		ug/L		83	56 - 136
Trichloroethene	1600		12500	12500		ug/L		87	61 - 124
Vinyl chloride	770		6250	5460		ug/L		75	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	89		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	90		78 - 122

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# QC Sample Results

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

Job ID: 240-238063-1

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

**Lab Sample ID: 240-237961-B-30 MS**  
**Matrix: Water**  
**Analysis Batch: 681562**

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	87		73 - 120

**Lab Sample ID: 240-237961-B-30 MSD**  
**Matrix: Water**  
**Analysis Batch: 681562**

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

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,1-Dichloroethene	500	U	12500	11500		ug/L		92	56 - 135	15	26
cis-1,2-Dichloroethene	6500		12500	18500		ug/L		96	66 - 128	4	14
Tetrachloroethene	1700		12500	11500		ug/L		79	62 - 131	4	20
trans-1,2-Dichloroethene	500	U	12500	11100		ug/L		89	56 - 136	6	15
Trichloroethene	1600		12500	13200		ug/L		93	61 - 124	5	15
Vinyl chloride	770		6250	5320		ug/L		73	43 - 157	3	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	104		56 - 136
Toluene-d8 (Surr)	92		78 - 122
Dibromofluoromethane (Surr)	92		73 - 120

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

**Lab Sample ID: MB 240-681852/7**  
**Matrix: Water**  
**Analysis Batch: 681852**

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/24/25 12:00	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1,2-Dichloroethane-d4 (Surr)	96		64 - 136		11/24/25 12:00	1

**Lab Sample ID: LCS 240-681852/5**  
**Matrix: Water**  
**Analysis Batch: 681852**

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
1,4-Dioxane	10.0	8.30		ug/L		83	68 - 120

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		64 - 136

**Lab Sample ID: 240-238067-E-4 MS**  
**Matrix: Water**  
**Analysis Batch: 681852**

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

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				Limits
1,4-Dioxane	2.0	U	10.0	8.51		ug/L		85	45 - 145

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# QC Sample Results

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

Job ID: 240-238063-1

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	110		64 - 136

**Lab Sample ID: 240-238067-E-4 MSD**  
**Matrix: Water**  
**Analysis Batch: 681852**

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

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
1,4-Dioxane	2.0	U	10.0	8.67		ug/L		87	45 - 145	2	19

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	109		64 - 136

# QC Association Summary

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

Job ID: 240-238063-1

## GC/MS VOA

### Analysis Batch: 681562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-238063-1	TRIP BLANK_127	Total/NA	Water	8260D	
240-238063-2	MW-209S_111425	Total/NA	Water	8260D	
240-238063-3	MW-210S_111425	Total/NA	Water	8260D	
MB 240-681562/8	Method Blank	Total/NA	Water	8260D	
LCS 240-681562/4	Lab Control Sample	Total/NA	Water	8260D	
240-237961-B-30 MS	Matrix Spike	Total/NA	Water	8260D	
240-237961-B-30 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

### Analysis Batch: 681852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-238063-2	MW-209S_111425	Total/NA	Water	8260D SIM	
240-238063-3	MW-210S_111425	Total/NA	Water	8260D SIM	
MB 240-681852/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-681852/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-238067-E-4 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-238067-E-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

# Lab Chronicle

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

Job ID: 240-238063-1

**Client Sample ID: TRIP BLANK\_127**

**Lab Sample ID: 240-238063-1**

Date Collected: 11/14/25 00:00

Matrix: Water

Date Received: 11/19/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681562	LEE	EET CLE	11/21/25 18:53

**Client Sample ID: MW-209S\_111425**

**Lab Sample ID: 240-238063-2**

Date Collected: 11/14/25 08:30

Matrix: Water

Date Received: 11/19/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681562	LEE	EET CLE	11/21/25 19:16
Total/NA	Analysis	8260D SIM		1	681852	R5XG	EET CLE	11/24/25 15:31

**Client Sample ID: MW-210S\_111425**

**Lab Sample ID: 240-238063-3**

Date Collected: 11/14/25 09:45

Matrix: Water

Date Received: 11/19/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681562	LEE	EET CLE	11/21/25 19:39
Total/NA	Analysis	8260D SIM		1	681852	R5XG	EET CLE	11/24/25 15:55

**Laboratory References:**

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



# Accreditation/Certification Summary

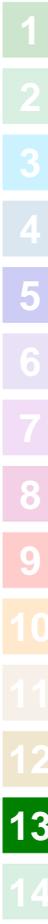
Client: Arcadis US Inc.  
Project/Site: Ford LTP

Job ID: 240-238063-1

## 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





Eurofins - Cleveland Sample Receipt Form/Narrative Login # \_\_\_\_\_  
 Barborton Facility Cooler unpacked by: W Martin

Client Aradis Site Name \_\_\_\_\_  
 Cooler Received on 11/19/25 Opened on 11/19/25

FedEx: 1<sup>st</sup> Grd Exp UPS FAS W Point 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 W Ice Blue Ice W Dry Ice W Water None  See Multiple Cooler Form

1 Cooler temperature upon receipt  IR GUN # 13 (CF 40.6 °C) Observed Cooler Temp 0.2 °C Corrected Cooler Temp 0.8 °C  
 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1  Yes  No  NA  
 -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 (C/N), and sample type of grab/comp (Y/N)?  Yes  No  NA  
 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

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

13 Were all preserved sample(s) at the correct pH upon receipt?  Yes  No  NA pH Strip Lot# HCS67196  
 14 Were VOAs on the COC?  Yes  No  NA  
 15 Were air bubbles >6 mm in any VOA vials?  Larger than this.  Yes  No  NA  
 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # NA  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 pH	Preservation Temp	Preservation Added	Preservation Lot Number
TRIP BLANK_127	240-238063-A-1	Voa Vial 40ml - Hydrochloric Acid				
MW-209S_111425	240-238063-A-2	Voa Vial 40ml - Hydrochloric Acid				
MW-209S_111425	240-238063-B-2	Voa Vial 40ml - Hydrochloric Acid				
MW-209S_111425	240-238063-C-2	Voa Vial 40ml - Hydrochloric Acid				
MW-209S_111425	240-238063-D-2	Voa Vial 40ml - Hydrochloric Acid				
MW-209S_111425	240-238063-E-2	Voa Vial 40ml - Hydrochloric Acid				
MW-209S_111425	240-238063-F-2	Voa Vial 40ml - Hydrochloric Acid				
MW-210S_111425	240-238063-A-3	Voa Vial 40ml - Hydrochloric Acid				
MW-210S_111425	240-238063-B-3	Voa Vial 40ml - Hydrochloric Acid				
MW-210S_111425	240-238063-C-3	Voa Vial 40ml - Hydrochloric Acid				
MW-210S_111425	240-238063-D-3	Voa Vial 40ml - Hydrochloric Acid				
MW-210S_111425	240-238063-F-3	Voa Vial 40ml - Hydrochloric Acid				
MW-210S_111425	240-238063-F-3	Voa Vial 40ml - Hydrochloric Acid				

# DATA VERIFICATION REPORT



November 26, 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: 238063-1  
Sample date: 2025-11-14  
Report received by CADENA: 2025-11-26  
Initial Data Verification completed by CADENA: 2025-11-26  
Number of Samples:3  
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: 238063-1

<b>Sample Name:</b> TRIP BLANK_127	MW-209S_111425	MW-210S_111425
<b>Lab Sample ID:</b> 2402380631	2402380632	2402380633
<b>Sample Date:</b> 11/14/2025	11/14/2025	11/14/2025

Analyte	Cas No.	TRIP BLANK_127				MW-209S_111425				MW-210S_111425			
		Result	Limit	Units	Valid Qualifier	Result	Limit	Units	Valid Qualifier	Result	Limit	Units	Valid Qualifier

## GC/MS VOC

### OSW-8260D

1,1-Dichloroethene	75-35-4	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	---	1.1	1.0	ug/l	---	25	1.0	ug/l	---
Tetrachloroethene	127-18-4	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	---	2.7	1.0	ug/l	---
Trichloroethene	79-01-6	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	2.0	1.0	ug/l	---	12	1.0	ug/l	---

### OSW-8260DSIM

1,4-Dioxane	123-91-1					ND	2.0	ug/l	---	1.1	2.0	ug/l	J
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