

# ANALYTICAL REPORT

## PREPARED FOR

Attn: Ms. Megan Meckley  
Arcadis US Inc.  
28550 Cabot Drive  
Suite 500  
Novi, Michigan 48377

Generated 3/12/2025 7:05:09 AM

## JOB DESCRIPTION

Ford LTP

## JOB NUMBER

240-219625-1

# Eurofins Cleveland

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

## Authorization



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Authorized for release by  
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## Definitions/Glossary

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

Job ID: 240-219625-1

### 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: 240-219625-1

**Job ID: 240-219625-1**

**Eurofins Cleveland**

### **Job Narrative 240-219625-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

#### **Receipt**

The samples were received on 2/28/2025 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 1.1°C and 1.6°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: 240-219625-1

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

## Sample Summary

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

Job ID: 240-219625-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-219625-1	TRIP BLANK_119	Water	02/26/25 00:00	02/28/25 08:00
240-219625-2	MW-52_022625	Water	02/26/25 11:50	02/28/25 08:00

1

2

3

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11

12

13

14

Detection Summary

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

Job ID: 240-219625-1

Client Sample ID: TRIP BLANK\_119

Lab Sample ID: 240-219625-1

No Detections.

Client Sample ID: MW-52\_022625

Lab Sample ID: 240-219625-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.4		2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	0.86	J	1.0	0.45	ug/L	1		8260D	Total/NA



# Client Sample Results

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

Job ID: 240-219625-1

Client Sample ID: TRIP BLANK\_119

Lab Sample ID: 240-219625-1

Date Collected: 02/26/25 00:00

Matrix: Water

Date Received: 02/28/25 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			03/06/25 11:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/06/25 11:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/06/25 11:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/06/25 11:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/06/25 11:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/06/25 11:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		62 - 137		03/06/25 11:58	1
4-Bromofluorobenzene (Surr)	109		56 - 136		03/06/25 11:58	1
Toluene-d8 (Surr)	107		78 - 122		03/06/25 11:58	1
Dibromofluoromethane (Surr)	107		73 - 120		03/06/25 11:58	1

# Client Sample Results

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

Job ID: 240-219625-1

Client Sample ID: MW-52\_022625

Lab Sample ID: 240-219625-2

Date Collected: 02/26/25 11:50

Matrix: Water

Date Received: 02/28/25 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	2.4		2.0	0.86	ug/L			03/10/25 18:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		68 - 127					03/10/25 18:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/06/25 13:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/06/25 13:15	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/06/25 13:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/06/25 13:15	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/06/25 13:15	1
Vinyl chloride	0.86	J	1.0	0.45	ug/L			03/06/25 13:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		62 - 137					03/06/25 13:15	1
4-Bromofluorobenzene (Surr)	105		56 - 136					03/06/25 13:15	1
Toluene-d8 (Surr)	102		78 - 122					03/06/25 13:15	1
Dibromofluoromethane (Surr)	105		73 - 120					03/06/25 13:15	1

# Surrogate Summary

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

Job ID: 240-219625-1

## 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)
240-219526-B-1 MS	Matrix Spike	108	103	103	104
240-219526-B-1 MSD	Matrix Spike Duplicate	104	100	103	103
240-219625-1	TRIP BLANK_119	112	109	107	107
240-219625-2	MW-52_022625	111	105	102	105
LCS 240-647039/5	Lab Control Sample	106	102	105	106
MB 240-647039/9	Method Blank	107	108	105	104

### 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 (68-127)			
240-219625-2	MW-52_022625	110			
500-264504-A-12 MSD	Matrix Spike Duplicate	102			
500-264504-C-12 MS	Matrix Spike	106			
LCS 240-647508/4	Lab Control Sample	111			
MB 240-647508/6	Method Blank	107			

### Surrogate Legend

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

# QC Sample Results

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

Job ID: 240-219625-1

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

Lab Sample ID: MB 240-647039/9

Matrix: Water

Analysis Batch: 647039

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	0.49	ug/L			03/06/25 10:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/06/25 10:40	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/06/25 10:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/06/25 10:40	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/06/25 10:40	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/06/25 10:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137		03/06/25 10:40	1
4-Bromofluorobenzene (Surr)	108		56 - 136		03/06/25 10:40	1
Toluene-d8 (Surr)	105		78 - 122		03/06/25 10:40	1
Dibromofluoromethane (Surr)	104		73 - 120		03/06/25 10:40	1

Lab Sample ID: LCS 240-647039/5

Matrix: Water

Analysis Batch: 647039

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	20.0	18.4		ug/L		92	63 - 134
cis-1,2-Dichloroethene	20.0	18.4		ug/L		92	77 - 123
Tetrachloroethene	20.0	18.1		ug/L		91	76 - 123
trans-1,2-Dichloroethene	20.0	19.0		ug/L		95	75 - 124
Trichloroethene	20.0	17.9		ug/L		90	70 - 122
Vinyl chloride	20.0	17.8		ug/L		89	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	105		78 - 122
Dibromofluoromethane (Surr)	106		73 - 120

Lab Sample ID: 240-219526-B-1 MS

Matrix: Water

Analysis Batch: 647039

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
1,1-Dichloroethene	250	U	5000	4540		ug/L		91	56 - 135
cis-1,2-Dichloroethene	250	U	5000	4660		ug/L		93	66 - 128
Tetrachloroethene	6900		5000	11500		ug/L		92	62 - 131
trans-1,2-Dichloroethene	250	U	5000	4600		ug/L		92	56 - 136
Trichloroethene	6800		5000	11600		ug/L		96	61 - 124
Vinyl chloride	250	U	5000	4410		ug/L		88	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		62 - 137
4-Bromofluorobenzene (Surr)	103		56 - 136
Toluene-d8 (Surr)	103		78 - 122

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# QC Sample Results

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

Job ID: 240-219625-1

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

Lab Sample ID: 240-219526-B-1 MS

Matrix: Water

Analysis Batch: 647039

Client Sample ID: Matrix Spike

Prep Type: Total/NA

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	104		73 - 120

Lab Sample ID: 240-219526-B-1 MSD

Matrix: Water

Analysis Batch: 647039

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
1,1-Dichloroethene	250	U	5000	4840		ug/L		97	56 - 135	6	26
cis-1,2-Dichloroethene	250	U	5000	5040		ug/L		101	66 - 128	8	14
Tetrachloroethene	6900		5000	11600		ug/L		93	62 - 131	0	20
trans-1,2-Dichloroethene	250	U	5000	5010		ug/L		100	56 - 136	9	15
Trichloroethene	6800		5000	11600		ug/L		97	61 - 124	0	15
Vinyl chloride	250	U	5000	4650		ug/L		93	43 - 157	5	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	103		73 - 120

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

Lab Sample ID: MB 240-647508/6

Matrix: Water

Analysis Batch: 647508

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			03/10/25 13:25	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,2-Dichloroethane-d4 (Surr)	107		68 - 127		03/10/25 13:25	1			

Lab Sample ID: LCS 240-647508/4

Matrix: Water

Analysis Batch: 647508

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	10.2		ug/L		102	75 - 121

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		68 - 127

Lab Sample ID: 500-264504-A-12 MSD

Matrix: Water

Analysis Batch: 647508

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	5500		500	5750	4	ug/L		46	20 - 180	3	20

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# QC Sample Results

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

Job ID: 240-219625-1

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

		MSD	MSD							
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	102		68 - 127							
Lab Sample ID: 500-264504-C-12 MS				Client Sample ID: Matrix Spike						
Matrix: Water				Prep Type: Total/NA						
Analysis Batch: 647508										
Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	
1,4-Dioxane	5500		500	5900	4	ug/L		76	20 - 180	
		MS	MS							
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	106		68 - 127							

## QC Association Summary

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

Job ID: 240-219625-1

### GC/MS VOA

#### Analysis Batch: 647039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219625-1	TRIP BLANK_119	Total/NA	Water	8260D	
240-219625-2	MW-52_022625	Total/NA	Water	8260D	
MB 240-647039/9	Method Blank	Total/NA	Water	8260D	
LCS 240-647039/5	Lab Control Sample	Total/NA	Water	8260D	
240-219526-B-1 MS	Matrix Spike	Total/NA	Water	8260D	
240-219526-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

#### Analysis Batch: 647508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219625-2	MW-52_022625	Total/NA	Water	8260D SIM	
MB 240-647508/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-647508/4	Lab Control Sample	Total/NA	Water	8260D SIM	
500-264504-A-12 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	
500-264504-C-12 MS	Matrix Spike	Total/NA	Water	8260D SIM	

Lab Chronicle

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

Job ID: 240-219625-1

Client Sample ID: TRIP BLANK\_119  
Date Collected: 02/26/25 00:00  
Date Received: 02/28/25 08:00

Lab Sample ID: 240-219625-1  
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	647039	CS	EET CLE	03/06/25 11:58

Client Sample ID: MW-52\_022625  
Date Collected: 02/26/25 11:50  
Date Received: 02/28/25 08:00

Lab Sample ID: 240-219625-2  
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	647039	CS	EET CLE	03/06/25 13:15
Total/NA	Analysis	8260D SIM		1	647508	R5XG	EET CLE	03/10/25 18:07

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: 240-219625-1



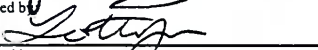


### Laboratory: Eurofins Cleveland

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	12-31-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kansas	NELAP	E-10336	01-31-26
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-01-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-28-26
Oregon	NELAP	4062	02-27-26
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

## 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 Szpachler							
Address: 28550 Cabot Drive, Suite 500		Telephone: 248-994-2240		Lab Contact: Mike DelMonico							
City/State/Zip: Novi, MI, 48377		Email: kristoffer.hinskey@arcadis.com		Telephone: 330-497-9396							
Phone: 248-994-2240		<b>Analysis Turnaround Time</b>		<b>Analyses</b>							
Project Name: Ford LTP		TAT if different from below		<input type="checkbox"/> 3 weeks <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day							
Project Number: 30206169.0401.03		10 day									
PO # US3460021848		Method of Shipment/Carrier:									
		Shipping/Tracking No:									
<b>Sample Identification</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Matrix</b>	<b>Containers &amp; Preservatives</b>						
				<input type="checkbox"/> Air <input type="checkbox"/> Aqueous <input type="checkbox"/> Sediment <input type="checkbox"/> Solid <input type="checkbox"/> Other:	<input type="checkbox"/> H2SO4 <input type="checkbox"/> HNO3 <input type="checkbox"/> HCl <input type="checkbox"/> NaOH <input type="checkbox"/> ZnAc <input type="checkbox"/> NaOH <input type="checkbox"/> Unpres <input type="checkbox"/> Other:						
					<input type="checkbox"/> Filtered Sample (V/N) <input type="checkbox"/> Composite-C/Grab-G						
					<input type="checkbox"/> 1,1-DCE 8260D <input type="checkbox"/> cis-1,2-DCE 8260D <input type="checkbox"/> Trans-1,2-DCE 8260D <input type="checkbox"/> PCE 8260D <input type="checkbox"/> TCE 8260D <input type="checkbox"/> Vinyl Chloride 8260D <input type="checkbox"/> 1,4-Dioxane 8260D SIM						
TRIP BLANK_ 119	---	---	1		1						
MW-52-022625	2.26.25	1150	6		6						
											
						1 Trip Blank					
						3 VOAs for 8260D 3 VOAs for 8260D SIM					
<b>Possible Hazard Identification</b>		<b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>									
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> flammable <input type="checkbox"/> Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown		<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For <input type="checkbox"/> Months									
<b>Special Instructions/QC Requirements &amp; Comments:</b> on site											
Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728 Level IV Reporting requested.											
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:						
	Arcadis	2.26.25 / 1330	Novi Cold Storage	Arcadis	2.26.25 / 1330						
	ARLADIS	2/24/25 1420		EETA	2/27/25 1421						
	EETA	2/27/25 1422	JESSE MUROSKO	Euro	2/28/25 0800						

Eurofins - Cleveland Sample Receipt Form/Narrative  
Barberton Facility

Login #

Client ARCADIS

Site Name

Cooler unpacked by

Cooler Received on 2/28/25

Opened on 2/28/25

JMOKOSKO

FedEx: 1<sup>st</sup> Grd Exp

UPS

FAS

W/ypmt

Client Drop Off

Eurofins Courier

Other

Receipt After-hours Drop-off Date/Time

Storage Location

Eurofins Cooler # 2C

Foam Box

Client Cooler

Box

Other

Packing material used

Bubble Wrap

Foam

Plastic Bag

None

Other

COOLANT

W/ice

Blue Ice

Dry Ice

Water

None

1 Cooler temperature upon receipt

IR GUN # 13

(CF TD. D. °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

-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 (ID/Date/Time) be reconciled with the COC?

9 For each sample, does the COC specify preservative (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?

11 Sufficient quantity received to perform indicated analyses?

12 Are these work share samples and all listed on the COC?

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

13 Were all preserved sample(s) at the correct pH upon receipt?

14 Were VOAs on the COC?

15 Were air bubbles >6 mm in any VOA vials?

16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Covered

17 Was a LL Hg or Me Hg trip blank present?

Contacted PM

Date

by

via

Verbal

Voice Mail

Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed 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.

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

Yes No (NA) pH Strip Lot# HC448976

Yes No (No) NA

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Yes No (No) No

Login #:

## Eurofins - Cleveland Sample Receipt Multiple Cooler Form

[illegible]

Temperature readings

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservation</u> <u>Temp</u>	<u>Added</u> <u>Lot Number</u>
TRIP BLANK_119	240-219625-A-1	Voa Vial 40ml - Hydrochloric Acid			
MW-52_022625	240-219625-A-2	Voa Vial 40ml - Hydrochloric Acid			
MW-52_022625	240-219625-B-2	Voa Vial 40ml - Hydrochloric Acid			
MW-52_022625	240-219625-C-2	Voa Vial 40ml - Hydrochloric Acid			
MW-52_022625	240-219625-D-2	Voa Vial 40ml - Hydrochloric Acid			
MW-52_022625	240-219625-E-2	Voa Vial 40ml - Hydrochloric Acid			
MW-52_022625	240-219625-F-2	Voa Vial 40ml - Hydrochloric Acid			

# DATA VERIFICATION REPORT



March 12, 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 (vapor 301.04) 30206169.0401.04

Event Specific Scope of Work References: Sample COC

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 219625-1

Sample date: 2025-02-26

Report received by CADENA: 2025-03-12

Initial Data Verification completed by CADENA: 2025-03-12

Number of Samples:2

Sample Matrices:Water

Test Categories:GCMS VOC

**Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.**

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:** 219625-1

**Sample Name:** TRIP BLANK\_119

MW-52\_022625

**Lab Sample ID:** 2402196251

2402196252

**Sample Date:** 2/26/2025

2/26/2025

Analyte	Cas No.	Result	Report		Valid	Qualifier	Result	Report		Valid
			Limit	Units				Limit	Units	
GC/MS VOC										
OSW-8260D										
1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---		ND	1.0	ug/l	---
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---		ND	1.0	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---		ND	1.0	ug/l	---
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---		ND	1.0	ug/l	---
Trichloroethene	79-01-6	ND	1.0	ug/l	---		ND	1.0	ug/l	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---		0.86	1.0	ug/l	J
OSW-8260DSIM										
1,4-Dioxane	123-91-1						2.4	2.0	ug/l	---