PREPARED FOR

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

Generated 5/12/2025 7:07:17 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-223507-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

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

Generated 5/12/2025 7:07:17 AM

Authorized for release by Michael DelMonico, Project Manager I Michael.DelMonico@et.eurofinsus.com (330)966-9783 Client: Arcadis US Inc. Project/Site: Ford LTP

Laboratory Job ID: 240-223507-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
Surrogate Summary	13
QC Sample Results	14
QC Association Summary	18
Lab Chronicle	19
Certification Summary	20
Chain of Custody	21

Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-223507-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

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.

Eisted 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

Eurofins Cleveland

Page 4 of 22 5/12/2025

Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-223507-1 Eurofins Cleveland

Job Narrative 240-223507-1

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 5/2/2025 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 3.6°C.

GC/MS VOA

Method 8260D: The matrix spike/matrix spike duplicate (MS/MSD) for samples TRIP BLANK_4 (240-223507-1) and MW-15-61D_043025 (240-223507-2) was not reported, because the analyte list for these samples did not match the analyte list for the MS/MSD parent sample.

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

Eurofins Cleveland

Page 5 of 22 5/12/2025

2

Job ID: 240-223507-1

9

4

5

7

8

9

IU

10

Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-223507-1

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

2

4

7

9

10

12

13

Sample Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-223507-1

	A11 . A			
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-223507-1	TRIP BLANK_4	Water	04/30/25 00:00	05/02/25 08:00
240-223507-2	MW-15-61D_043025	Water	04/30/25 11:05	05/02/25 08:00
240-223507-3	MW-15-59D_043025	Water	04/30/25 13:25	05/02/25 08:00
240-223507-4	MW-15-60D 043025	Water	04/30/25 15:55	05/02/25 08:00

4

J

8

9

10

13

Detection Summary

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_4

No Detections.

Client Sample ID: MW-15-61D_043025

No Detections.

Client Sample ID: MW-15-59D_043025

Lab Sample ID: 240-223507-2

No Detections.

Client Sample ID: MW-15-60D_043025

Lab Sample ID: 240-223507-3

No Detections.

Client Sample ID: MW-15-60D_043025

Lab Sample ID: 240-223507-4

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Arcadis US Inc.

Eurofins Cleveland

Job ID: 240-223507-1

Client: Arcadis US Inc. Job ID: 240-223507-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_4

Lab Sample ID: 240-223507-1 Date Collected: 04/30/25 00:00

Matrix: Water

Date Received: 05/02/25 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/06/25 11:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/06/25 11:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/06/25 11:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/06/25 11:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/06/25 11:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/06/25 11:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137			_		05/06/25 11:58	1
4-Bromofluorobenzene (Surr)	85		56 ₋ 136					05/06/25 11:58	1
Toluene-d8 (Surr)	100		78 - 122					05/06/25 11:58	1
Dibromofluoromethane (Surr)	101		73 - 120					05/06/25 11:58	1

Client: Arcadis US Inc. Job ID: 240-223507-1

Project/Site: Ford LTP

Client Sample ID: MW-15-61D_043025

Lab Sample ID: 240-223507-2 Date Collected: 04/30/25 11:05

Matrix: Water

Date Received: 05/02/25 08:00	Date	Received:	05/02/25	08:00
-------------------------------	------	-----------	----------	-------

Method: SW846 8260D SIM - Vo	latile Organic C	ompounds	(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			05/08/25 23:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		68 - 127					05/08/25 23:21	1
Method: SW846 8260D - Volatile	Organic Comp	ounds by G	GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/06/25 14:43	1

Method: SW846 8260D - Vola	tile Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/06/25 14:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/06/25 14:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/06/25 14:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/06/25 14:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/06/25 14:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/06/25 14:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137		05/06/25 14:43	1
4-Bromofluorobenzene (Surr)	85		56 - 136		05/06/25 14:43	1
Toluene-d8 (Surr)	98		78 - 122		05/06/25 14:43	1
Dibromofluoromethane (Surr)	100		73 - 120		05/06/25 14:43	1

Client: Arcadis US Inc. Job ID: 240-223507-1

Project/Site: Ford LTP

Surrogate

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: MW-15-59D_043025

Lab Sample ID: 240-223507-3 Date Collected: 04/30/25 13:25

Matrix: Water

Analyzed

05/09/25 18:05

05/09/25 18:05

05/09/25 18:05

05/09/25 18:05

Prepared

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/08/25 23:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			68 - 127			-		05/08/25 23:45	1
Method: SW846 8260D - Volat Analyte	•	ounds by G Qualifier	C/MS	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	•	Qualifier		MDL 0.49		<u>D</u> -	Prepared	Analyzed 05/09/25 18:05	Dil Fac
Analyte	Result	Qualifier U	RL		ug/L	<u>D</u> .	Prepared	- -	Dil Fac
Analyte 1,1-Dichloroethene	Result 1.0	Qualifier U	RL	0.49	ug/L ug/L	<u> </u>	Prepared	05/09/25 18:05	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	Result 1.0 1.0	Qualifier U U U	1.0 1.0	0.49 0.46	ug/L ug/L ug/L	<u>D</u> -	Prepared	05/09/25 18:05 05/09/25 18:05	Dil Fac 1 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene	Result 1.0 1.0 1.0	Qualifier U U U U	1.0 1.0 1.0	0.49 0.46 0.44	ug/L ug/L ug/L ug/L	<u>D</u> .	Prepared	05/09/25 18:05 05/09/25 18:05 05/09/25 18:05	Dil Fac 1 1 1 1 1 1 1

Limits

62 - 137

56 - 136

78 - 122

73 - 120

%Recovery Qualifier

114

98

90

100

Dil Fac

Client: Arcadis US Inc. Job ID: 240-223507-1

Project/Site: Ford LTP

Client Sample ID: MW-15-60D_043025

Lab Sample ID: 240-223507-4 Date Collected: 04/30/25 15:55

Matrix: Water

Date Rece	eived:	05/02/25	08:00
------------------	--------	----------	-------

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/09/25 00:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		68 - 127					05/09/25 00:08	
Method: SW846 8260D - Volat		ounds by G						03/03/23 00:00	,
Method: SW846 8260D - Volat Analyte	ile Organic Comp	ounds by G		MDL	Unit	D	Prepared	Analyzed	Dil Fac
	ile Organic Comp	Qualifier	C/MS		Unit ug/L	<u>D</u> .	Prepared		Dil Fac
Analyte	ile Organic Comp Result	Qualifier U	GC/MS		ug/L	<u>D</u> .	Prepared	Analyzed	Dil Fac 1
Analyte 1,1-Dichloroethene	ile Organic Comp Result	Qualifier U U	RL 1.0	0.49 0.46	ug/L	<u> </u>	Prepared	Analyzed 05/09/25 18:31	Dil Fac 1 1 1

Trichloroethene	1.0	U	1.0	0.44 ι	ug/L		05/09/25 18:31	1
Vinyl chloride	1.0	U	1.0	0.45 ι	ug/L		05/09/25 18:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		62 - 137				05/09/25 18:31	1
4-Bromofluorobenzene (Surr)	99		56 ₋ 136				05/09/25 18:31	1
Toluene-d8 (Surr)	89		78 - 122				05/09/25 18:31	1
Dibromofluoromethane (Surr)	97		73 - 120				05/09/25 18:31	1

Surrogate Summary

Client: Arcadis US Inc. Job ID: 240-223507-1 Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Sui	rrogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-223507-1	TRIP BLANK_4	97	85	100	101
240-223507-2	MW-15-61D_043025	96	85	98	100
240-223507-3	MW-15-59D_043025	114	98	90	100
240-223507-4	MW-15-60D_043025	111	99	89	97
240-223520-A-2 MSD	Matrix Spike Duplicate	111	105	100	101
240-223520-D-2 MS	Matrix Spike	109	109	97	100
LCS 240-654855/7	Lab Control Sample	90	90	102	98
LCS 240-655367/5	Lab Control Sample	104	102	95	99
MB 240-654855/9	Method Blank	98	86	100	103
MB 240-655367/10	Method Blank	113	104	93	101

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

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-223507-2	MW-15-61D_043025	115	
240-223507-3	MW-15-59D_043025	116	
240-223507-4	MW-15-60D_043025	114	
240-223520-B-2 MS	Matrix Spike	109	
240-223520-B-2 MSD	Matrix Spike Duplicate	113	
LCS 240-655264/3	Lab Control Sample	124	
MB 240-655264/5	Method Blank	118	
Surrogate Legend			

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

Client: Arcadis US Inc. Job ID: 240-223507-1

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

Lab Sample ID: MB 240-654855/9

Matrix: Water Analysis Batch: 654855

Project/Site: Ford LTP

Client Sample ID: N	lethod Blank
Prep Ty	/pe: Total/NA

	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/06/25 11:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/06/25 11:11	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/06/25 11:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/06/25 11:11	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/06/25 11:11	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/06/25 11:11	1

	MB MB				
Surrogate	%Recovery Qualifie	er Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98	62 - 137		05/06/25 11:11	1
4-Bromofluorobenzene (Surr)	86	56 - 136		05/06/25 11:11	1
Toluene-d8 (Surr)	100	78 - 122		05/06/25 11:11	1
Dibromofluoromethane (Surr)	103	73 - 120		05/06/25 11:11	1

Lab Sample ID: LCS 240-654855/7

Matrix: Water

Analysis Batch: 654855

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

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 1,1-Dichloroethene 25.0 24.5 98 63 - 134 ug/L 77 - 123 25.0 25.1 cis-1,2-Dichloroethene ug/L 100 Tetrachloroethene 25.0 25.6 102 76 - 123 ug/L trans-1,2-Dichloroethene 25.0 25.0 ug/L 100 75 - 124 Trichloroethene 25.0 26.8 ug/L 107 70 - 122 Vinyl chloride 25.0 24.6 ug/L 98 60 - 144

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		62 - 137
4-Bromofluorobenzene (Surr)	90		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

Lab Sample ID: MB 240-655367/10 Client Sample ID: Method Blank

Matrix: Water	Prep Type: Total/NA
Analysis Batch: 655367	
MB MB	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/09/25 12:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/09/25 12:04	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/09/25 12:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/09/25 12:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/09/25 12:04	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/09/25 12:04	1

	MB MB				
Surrogate	%Recovery Qualit	fier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113	62 - 137		05/09/25 12:04	1
4-Bromofluorobenzene (Surr)	104	56 - 136		05/09/25 12:04	1
Toluene-d8 (Surr)	93	78 - 122		05/09/25 12:04	1

Eurofins Cleveland

5/12/2025

Page 14 of 22

Client: Arcadis US Inc. Job ID: 240-223507-1

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

Lab Sample ID: MB 240-655367/10

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 655367

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB

%Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac Dibromofluoromethane (Surr) 101 73 - 120 05/09/25 12:04

100 100

Lab Sample ID: LCS 240-655367/5

Matrix: Water

Analysis Batch: 655367

Client Sample ID: Lab Control Sample

% Doc

Prep Type: Total/NA

	Spike	LUS	LUS				70 KeC	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	16.6		ug/L		83	63 - 134	
cis-1,2-Dichloroethene	20.0	17.7		ug/L		88	77 - 123	
Tetrachloroethene	20.0	18.5		ug/L		93	76 - 123	
trans-1,2-Dichloroethene	20.0	17.6		ug/L		88	75 - 124	
Trichloroethene	20.0	18.1		ug/L		90	70 - 122	
Vinyl chloride	20.0	16.3		ug/L		82	60 - 144	

Cnika

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	95		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

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

Matrix: Water

Analysis Batch: 655367

Lab Sample ID: 240-223520-A-2 MSD

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
1,1-Dichloroethene	1.0	U	20.0	15.4		ug/L		77	56 - 135	2	26	
cis-1,2-Dichloroethene	1.0	U	20.0	16.8		ug/L		84	66 - 128	1	14	
Tetrachloroethene	1.0	U	20.0	17.5		ug/L		87	62 - 131	2	20	
trans-1,2-Dichloroethene	1.0	U	20.0	16.3		ug/L		81	56 - 136	1	15	
Trichloroethene	1.0	U	20.0	17.3		ug/L		87	61 - 124	1	15	
Vinyl chloride	1.0	U	20.0	14.1		ug/L		71	43 - 157	8	24	

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		62 - 137
4-Bromofluorobenzene (Surr)	105		56 - 136
Toluene-d8 (Surr)	100		78 - 122
Dibromofluoromethane (Surr)	101		73 - 120

Lab Sample ID: 240-223520-D-2 MS Client Sample ID: Matrix Spike **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 655367

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	1.0	U	20.0	15.8		ug/L		79	56 - 135
cis-1,2-Dichloroethene	1.0	U	20.0	16.7		ug/L		83	66 - 128
Tetrachloroethene	1.0	U	20.0	17.1		ug/L		85	62 - 131
trans-1,2-Dichloroethene	1.0	U	20.0	16.5		ug/L		83	56 - 136
Trichloroethene	1.0	U	20.0	17.1		ug/L		86	61 - 124

Eurofins Cleveland

Page 15 of 22

5/12/2025

Client: Arcadis US Inc. Job ID: 240-223507-1

Project/Site: Ford LTP

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

Matrix: Water

Analysis Batch: 655367

Lab Sample ID: 240-223520-D-2 MS

-	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Vinyl chloride	1.0	U	20.0	15.2		ug/L		76	43 - 157

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		62 - 137
4-Bromofluorobenzene (Surr)	109		56 ₋ 136
Toluene-d8 (Surr)	97		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

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

Lab Sample ID: MB 240-655264/5 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Ratch: 655264

Analysis Batch: 655264									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/08/25 21:00	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		68 - 127					05/08/25 21:00	1
	Analyte 1,4-Dioxane Surrogate	Analyte Result 1,4-Dioxane 2.0 Surrogate %Recovery	Analyte Result Qualifier 1,4-Dioxane 2.0 U Surrogate %Recovery Qualifier	Analyte Result 1,4-Dioxane Qualifier 2.0 RL UI	Analyte Result 1,4-Dioxane Qualifier 2.0 RL U MDL U MDL U 0.86 Surrogate %Recovery Qualifier Limits Limits	Analyte Result 1,4-Dioxane Qualifier 2.0 RL Unit 2.0 MDL Unit 3.0 Unit 3.0	Analyte Result 1,4-Dioxane Qualifier 2.0 RL Unit Unit Unit Unit Unit Unit Unit Unit	Analyte Result Qualifier RL MDL Unit D Prepared 1,4-Dioxane 2.0 U 2.0 0.86 ug/L MB MB Surrogate %Recovery Qualifier Limits Prepared	Analyte Result 1,4-Dioxane Qualifier 2.0 RL 2.0 MDL 2.0 Unit 2.0 D 2.0 Prepared 2.0 Analyzed 2.1:00 MB MB MB Surrogate %Recovery Qualifier Limits Limits Prepared Analyzed

Lab Sample ID: LCS 240-655264/3 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 655264

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	10.0	8.07		ug/L	_	81	75 - 121	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 124 68 - 127

Lab Sample ID: 240-223520-B-2 MS Client Sample ID: Matrix Spike **Matrix: Water**

Analysis Batch: 655264

,	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	8.27		ug/L		83	20 - 180	

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 109

Lab Sample ID: 240-223520-B-2 MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Water

Analysis Batch: 655264

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	9.22		ug/L		92	20 - 180	11	20

Eurofins Cleveland

5/12/2025

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Type: Total/NA

QC Sample Results

Client: Arcadis US Inc. Job ID: 240-223507-1

Project/Site: Ford LTP

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

Lab Sample ID: 240-223520-B-2 MSD

Matrix: Water

Analysis Batch: 655264

MSD	MSD

Surrogate	%Recovery Qualifier	Limits
1 2-Dichloroethane-d4 (Surr)	113	68 - 127

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

QC Association Summary

Client: Arcadis US Inc. Job ID: 240-223507-1 Project/Site: Ford LTP

GC/MS VOA

Analysis Batch: 654855

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	240-223507-1	TRIP BLANK_4	Total/NA	Water	8260D	
	240-223507-2	MW-15-61D_043025	Total/NA	Water	8260D	
	MB 240-654855/9	Method Blank	Total/NA	Water	8260D	
Į	LCS 240-654855/7	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 655264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223507-2	MW-15-61D_043025	Total/NA	Water	8260D SIM	
240-223507-3	MW-15-59D_043025	Total/NA	Water	8260D SIM	
240-223507-4	MW-15-60D_043025	Total/NA	Water	8260D SIM	
MB 240-655264/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-655264/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-223520-B-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-223520-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 655367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223507-3	MW-15-59D_043025	Total/NA	Water	8260D	
240-223507-4	MW-15-60D_043025	Total/NA	Water	8260D	
MB 240-655367/10	Method Blank	Total/NA	Water	8260D	
LCS 240-655367/5	Lab Control Sample	Total/NA	Water	8260D	
240-223520-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
240-223520-D-2 MS	Matrix Spike	Total/NA	Water	8260D	

Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-223507-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_4

Lab Sample ID: 240-223507-1 Date Collected: 04/30/25 00:00

Matrix: Water

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed 05/06/25 11:58 Total/NA Analysis 8260D 654855 MS EET CLE

Client Sample ID: MW-15-61D_043025 Lab Sample ID: 240-223507-2

Date Collected: 04/30/25 11:05 **Matrix: Water**

Date Received: 05/02/25 08:00

Date Received: 05/02/25 08:00

Batch Batch Dilution Batch Prepared Prep Type Method Factor Number Analyst or Analyzed Туре Run Lab Total/NA 8260D MS EET CLE 05/06/25 14:43 654855 Analysis Total/NA 8260D SIM 655264 05/08/25 23:21 Analysis 1 R5XG **EET CLE**

Client Sample ID: MW-15-59D_043025 Lab Sample ID: 240-223507-3

Date Collected: 04/30/25 13:25 **Matrix: Water**

Date Received: 05/02/25 08:00

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** or Analyzed Lab 05/09/25 18:05 Total/NA 8260D Analysis 655367 AJS EET CLE 8260D SIM 05/08/25 23:45 Total/NA Analysis 655264 R5XG **EET CLE** 1

Client Sample ID: MW-15-60D 043025 Lab Sample ID: 240-223507-4

Date Collected: 04/30/25 15:55 **Matrix: Water**

Date Received: 05/02/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D			655367	AJS	EET CLE	05/09/25 18:31
Total/NA	Analysis	8260D SIM		1	655264	R5XG	EET CLE	05/09/25 00:08

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: 240-223507-1

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 (UST)	State	112225	02-28-26			
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	04-01-26			
North Dakota	State	R-244	02-27-26			
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			
US Fish & Wildlife	US Federal Programs	A26406	02-28-26			
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			

4

5

7

10

11



Chain of Custody Record

3.1 3.6

(§ TestAmerica	

Client Contact	Regulat	ory program:		Г	\mathbf{pw}			PDES	3	☐ R	CRA		Other											
Company Name: Arcadis	Client Project Manager: Megan Meckley S								Site Contact: Samantha Szpaichler Lab Contact: N								ike Del	Monic	TestAmerica Laboratories, Inc					
Address: 28550 Cabot Drive, Suite 500	Telephone: 248-994-2240 T							hono:	248-0	94-2240														
City/State/Zip: Novi, MT, 48377	1														Telephone: 330-497-9396							1 of 1 COCs		
hone: 248-994-2240	Email: megan.	meckley@arcac	dis.com					naiysi	3 Turi	naround	1 time	1	-	_		_	T	nalys	es		T		For lab use only	
Project Name: Ford LTP	Sampler Name	1 1	,	•		Ī	TAT if	differen			\Box											-	Walk-in client	
	Marxi		ano	rn						☐ 3 weeks ☐ 2 weeks													Lab sampling	
roject Number: 30251157.401.04	Method of Ship	ment/Carrier:								1 week 2 days		2	S S		g			۵	SIM					
0#US 3460023914	Shipping/Track	ting No:								1 day		le (Y /	Grab	2 8	828			8260	260D				Job/SDG No:	
				Mat	trix		(Contair	ners &	Preserva	itives		7	0220	2 0	8	٩	oride	ne 8					
Sample Identification	Sample Date	Sample Time	Air	Sediment	Solid	Other:	H2SO4	HC:	NaOH	ZaAc/ NaOH	Other:	Filtered Sample (Y / N)	Composite=C/	1,1-UCE 8260U	Trans-1 2-DCF 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM				Sample Specific Notes / Special Instructions:	
TRIP BLANK_ 4	T		1			T		1				N	G :	x >		X	Х	Х					1 Trip Blank	
MW-15-610_043025	4/30/25	1105	6	2				6	,			7	G	X ;	×γ	′ X	X	X	X				3 VOAs for 8260D 3 VOAs for 8260D SIM	
MW-15-610_043025 MW-15-59D_043025	4/30/25	1325	6	2				6				7	G	ΧÌ	< >	Υ	X	X	X					
MW-15-60D-043025	4/30/25	1555	6	0				6	7			7	97	Χ .	X >	/ X	X	X	X				20	
	_						\perp	_		<u> </u>	ļ		_	_	_	_	ļ			_	_	4	PAMIS -	
					Ш			\downarrow						_	_	_					_	_		
							4	\perp					1		_						\perp	_	M Count	
				_			4		_				1	\downarrow			L						0-223507 COC	
		>																						
Possible Hazard Identification Non-Hazard lammable in Irritan	t Poiso	nB [" Jnknov	wn	·					al (A fe		Disposa				ained k		han 1 o		nths			· · · · · · · · · · · · · · · · · · ·	
Special Instructions/QC Requirements & Comments:	te			-	•		<u>·</u>			3		_ 10,000												
Submit all results through Cadena at jtomalia@cadenaco. evel IV Reporting requested.		203728																						
delinquished by:	Company: Avcard	Ч		nte/Tim		1	71	5	4	tar	MH	,	No	in C	old .	Heray		VCO					Date/Time: 4/30/25 1715	
Relinquished by:	Company	adis		SIL	ie:	5 1	163	53	Rec	eived by	i d'	De L	_			ľ	Comp	any:					Daty/Time: \$11/25 1655	
Relinquished by	Company	7	Da	1tc/Tim 5///	25		70			eived in	Labora	tory by:					Comp	any	2	, -			Date/Time: 5-2-25 800	

Packing maternal used:
COOLANT (We Wet Ice Bubble Wrap Foam Box Blue Ice Foam Client Cooler Dry Ice Plastic Bag Water Вох None None Other

Cooler temperature upon receipt See Multiple Cooler Form

ы Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity--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)? 的意义包装 99 꿁

IR GUN# (CF 70.5°C) Observed Cooler Temp C Corrected Cooler Temp X checked for pH by Tests that are not

Shippers' packing slip attached to the cooler(s)? -Were tamper/custody seals intact and uncompromised?

Did custody papers accompany the sample(s)?

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?

Did all bottles arrive in good condition (Unbroken)?

Could all bottle labels (ID/Date/Time) be reconciled wath the COC?

2 & &

장

Yes No

z

(§)

ä z 2(3)

Receiving:

W 9

X

इंडि

Oil and Grease TOC

VOAs

Were correct bottle(s) used for the test(s) indicated? For each sample, does the COC specify preservatives((Y/N), # of containers (Y/N), and sample type of grab/comp(Y/N);

Sufficient quantity received to perform indicated analyses?

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

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

13 14 Were all preserved sample(s) at the correct pH upon receipt? Were VOAs on the COC?

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

Was a LL Hg or Me Hg trip blank present?

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

Date হ via Verbal Voice Mail Other

Concerning

Contacted PM

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page

Labeled by: Labels Venfied by:) MORUN K Into

19 SAMPLE CONDITION

Sample(s) Sample(s) were received after the recommended holding time had expired. were received in a broken container

Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

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

WI-NC-099-042925 Cooler Receipt Form.doc

VOA Sample Preservation - Date/Time VOAs Frozen.

*G & G &

* & &

pH Strap Lot# HC457151

₹

N (S) N (S)

DATA VERIFICATION REPORT



May 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) Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 223507-1 Sample date: 2025-04-30

Report received by CADENA: 2025-05-12

Initial Data Verification completed by CADENA: 2025-05-12

Number of Samples:4 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.

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 Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
В	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
Е	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 223507-1

		Sample Name:	TRIP BL	.ANK_4			MW-15	-61D_04	3025		MW-15	-59D_04	3025		3025				
		Lab Sample ID:	240223	35071			240223	5072			240223	5073			240223	5074			
		Sample Date:	4/30/20)25			4/30/2025			4/30/2025					4/30/2025				
				Report		Valid		Report		Valid		Report		Valid		Report		Valid	
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	
GC/MS VOC																			
OSW-82	260D																		
	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		
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	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		
	trans-1,2-Dichloroethene	156-60-5	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		
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		
OSW-82	260DSIM																		
	1,4-Dioxane	123-91-1					ND	2.0	ug/l		ND	2.0	ug/l		ND	2.0	ug/l		