PREPARED FOR

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

Generated 6/3/2025 7:32:09 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-225265-1

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 6/3/2025 7:32:09 AM

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

Laboratory Job ID: 240-225265-1

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	12
QC Sample Results	13
QC Association Summary	18
Lab Chronicle	19
Certification Summary	20
Chain of Custody	21

3

4

R

9

11

12

13

Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-225265-1

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.

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

Eurofins Cleveland

Page 4 of 24

6/3/2025

Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-225265-1 Eurofins Cleveland

Job Narrative 240-225265-1

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 5/24/2025 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 0.7°C and 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.

Eurofins Cleveland

Job ID: 240-225265-1

Page 5 of 24 6/3/2025

Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-225265-1

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

7

9

10

12

13

Sample Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-225265-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-225265-1	TRIP BLANK_132	Water	05/20/25 00:00	05/24/25 08:00
240-225265-2	MW-81_052025	Water	05/20/25 11:15	05/24/25 08:00
240-225265-3	MW-81S_052025	Water	05/20/25 12:20	05/24/25 08:00

•

Detection Summary

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_132

No Detections.

Client Sample ID: MW-81_052025

No Detections.

Client Sample ID: MW-81S_052025

Lab Sample ID: 240-225265-3

7

Job ID: 240-225265-1

8

10

11

13

14

Client: Arcadis US Inc.

No Detections.

Client: Arcadis US Inc. Job ID: 240-225265-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_132

Lab Sample ID: 240-225265-1 Date Collected: 05/20/25 00:00 Matrix: Water

Date Received: 05/24/25 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			05/29/25 18:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/29/25 18:30	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/29/25 18:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/29/25 18:30	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/29/25 18:30	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/29/25 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		62 - 137			_		05/29/25 18:30	1
4-Bromofluorobenzene (Surr)	82		56 ₋ 136					05/29/25 18:30	1
Toluene-d8 (Surr)	98		78 - 122					05/29/25 18:30	1
Dibromofluoromethane (Surr)	107		73 - 120					05/29/25 18:30	1

Eurofins Cleveland

Page 9 of 24 6/3/2025

Client: Arcadis US Inc.

Job ID: 240-225265-1

Project/Site: Ford LTP

Client Sample ID: MW-81_052025

Date Collected: 05/20/25 11:15

Lab Sample ID: 240-225265-2 Matrix: Water

Date Received: 05/24/25 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			05/30/25 16:59	1	
Surrogate	%Recovery	Qualifier	Limits			_	Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	87		68 - 127					05/30/25 16:59	1	

/ (/									
Method: SW846 8260D - Volati	le 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			05/30/25 03:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/30/25 03:01	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/30/25 03:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/30/25 03:01	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/30/25 03:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/30/25 03:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		05/30/25 03:01	1
4-Bromofluorobenzene (Surr)	87		56 ₋ 136					05/30/25 03:01	1
Toluene-d8 (Surr)	102		78 - 122					05/30/25 03:01	1
Dibromofluoromethane (Surr)	113		73 - 120					05/30/25 03:01	1

2

4

6

8

10

11

Client: Arcadis US Inc. Job ID: 240-225265-1

Project/Site: Ford LTP

Date Received: 05/24/25 08:00

Client Sample ID: MW-81S_052025

Lab Sample ID: 240-225265-3 Date Collected: 05/20/25 12:20

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/30/25 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		68 - 127			_		05/30/25 17:23	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/30/25 03:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/30/25 03:25	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/30/25 03:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/30/25 03:25	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/30/25 03:25	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/30/25 03:25	1
Surrogate	%Recovery	Qualifier	Limits			_	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		62 - 137					05/30/25 03:25	1

Surrogate	%Recovery	Qualifier Lim	iits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117	62 -	137		05/30/25 03:25	1
4-Bromofluorobenzene (Surr)	87	56 -	136		05/30/25 03:25	1
Toluene-d8 (Surr)	103	78 -	122		05/30/25 03:25	1
Dibromofluoromethane (Surr)	115	73 -	120		05/30/25 03:25	1

Surrogate Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-225265-1

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

Matrix: Water Prep Type: Total/NA

				Percent Su	rrogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-225265-1	TRIP BLANK_132	110	82	98	107
240-225265-2	MW-81_052025	117	87	102	113
240-225265-3	MW-81S_052025	117	87	103	115
240-225270-B-5 MS	Matrix Spike	104	101	101	105
240-225270-B-5 MSD	Matrix Spike Duplicate	101	101	101	102
480-229505-E-4 MS	Matrix Spike	98	101	103	100
480-229505-E-4 MSD	Matrix Spike Duplicate	96	100	103	98
LCS 240-657746/5	Lab Control Sample	97	99	103	100
LCS 240-657871/2	Lab Control Sample	102	103	106	105
LCSD 240-657871/3	Lab Control Sample Dup	101	101	104	103
MB 240-657746/10	Method Blank	115	91	105	111
MB 240-657871/6	Method Blank	110	84	100	109

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)	
240-225265-2	MW-81_052025	87	
240-225265-3	MW-81S_052025	88	
240-225270-E-4 MS	Matrix Spike	89	
240-225270-E-4 MSD	Matrix Spike Duplicate	87	
LCS 240-658002/4	Lab Control Sample	86	
MB 240-658002/6	Method Blank	86	
Surrogate Legend			
DCA = 1,2-Dichloroetha	ne-d4 (Surr)		

Eurofins Cleveland

Page 12 of 24

2

3

4

6

0

10

12

13

Client: Arcadis US Inc. Job ID: 240-225265-1 Project/Site: Ford LTP

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

Lab Sample ID: MB 240-657746/10

Matrix: Water

Analysis Batch: 657746

Client Sample ID: Method Blank

Prep Type: Total/NA

	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			05/29/25 12:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/29/25 12:33	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/29/25 12:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/29/25 12:33	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/29/25 12:33	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/29/25 12:33	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115	62 - 137		05/29/25 12:33	1
4-Bromofluorobenzene (Surr)	91	56 ₋ 136		05/29/25 12:33	1
Toluene-d8 (Surr)	105	78 - 122		05/29/25 12:33	1
Dibromofluoromethane (Surr)	111	73 - 120		05/29/25 12:33	1

Lab Sample ID: LCS 240-657746/5

Matrix: Water

Analysis Batch: 657746

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	20.7		ug/L		103	63 - 134	
cis-1,2-Dichloroethene	20.0	19.7		ug/L		98	77 - 123	
Tetrachloroethene	20.0	19.8		ug/L		99	76 - 123	
trans-1,2-Dichloroethene	20.0	20.1		ug/L		101	75 - 124	
Trichloroethene	20.0	18.1		ug/L		91	70 - 122	
Vinyl chloride	20.0	17.2		ug/L		86	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	99		56 ₋ 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

Lab Sample ID: 480-229505-E-4 MS

Matrix: Water

Analysis Batch: 657746

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

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	110	J	4000	3670		ug/L		89	56 - 135	
cis-1,2-Dichloroethene	12000		4000	15500		ug/L		79	66 - 128	
Tetrachloroethene	4400		4000	8050		ug/L		92	62 - 131	
trans-1,2-Dichloroethene	170	J	4000	4010		ug/L		96	56 - 136	
Trichloroethene	7800		4000	10900		ug/L		78	61 - 124	
Vinyl chloride	1000		4000	4100		ug/L		77	43 - 157	

MS MS

Surrogate	%Recovery Qualifie	er Limits
1,2-Dichloroethane-d4 (Surr)	98	62 - 137
4-Bromofluorobenzene (Surr)	101	56 - 136
Toluene-d8 (Surr)	103	78 - 122

Eurofins Cleveland

Page 13 of 24

Client: Arcadis US Inc. Job ID: 240-225265-1

Project/Site: Ford LTP

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

Matrix: Water

Analysis Batch: 657746

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

%Recovery Qualifier Surrogate Limits Dibromofluoromethane (Surr) 100 73 - 120

Lab Sample ID: 480-229505-E-4 MSD

Lab Sample ID: 480-229505-E-4 MS

Matrix: Water

Analysis Batch: 657746

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	110	J	4000	3770		ug/L		91	56 - 135	3	26
cis-1,2-Dichloroethene	12000		4000	15600		ug/L		82	66 - 128	1	14
Tetrachloroethene	4400		4000	7980		ug/L		90	62 - 131	1	20
trans-1,2-Dichloroethene	170	J	4000	4050		ug/L		97	56 - 136	1	15
Trichloroethene	7800		4000	10900		ug/L		78	61 - 124	0	15
Vinyl chloride	1000		4000	4160		ug/L		79	43 - 157	1	24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

Client Sample ID: Method Blank

Prep Type: Total/NA

Analysis Batch: 657871

Matrix: Water

Lab Sample ID: MB 240-657871/6

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/30/25 00:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/30/25 00:22	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/30/25 00:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/30/25 00:22	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/30/25 00:22	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/30/25 00:22	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110	62 - 137		05/30/25 00:22	1
4-Bromofluorobenzene (Surr)	84	56 ₋ 136		05/30/25 00:22	1
Toluene-d8 (Surr)	100	78 - 122		05/30/25 00:22	1
Dibromofluoromethane (Surr)	109	73 - 120		05/30/25 00:22	1

Lab Sample ID: LCS 240-657871/2

Matrix: Water

Analysis Batch: 657871

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

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	18.5		ug/L		93	63 - 134	
cis-1,2-Dichloroethene	20.0	19.5		ug/L		98	77 - 123	
Tetrachloroethene	20.0	17.7		ug/L		88	76 - 123	
trans-1,2-Dichloroethene	20.0	19.5		ug/L		98	75 - 124	
Trichloroethene	20.0	18.6		ug/L		93	70 - 122	

Eurofins Cleveland

Page 14 of 24

Client: Arcadis US Inc. Job ID: 240-225265-1

Project/Site: Ford LTP

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

Lab Sample ID: LCS 240-657871/2 **Matrix: Water**

Surrogate

Toluene-d8 (Surr)

Matrix: Water

Analysis Batch: 657871

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Vinyl chloride 20.0 16.2 81 60 - 144 ug/L

73 - 120

LCS LCS %Recovery Qualifier Limits 102 62 - 137 103 56 - 136 78 - 122 106

105

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analysis Batch: 657871

Lab Sample ID: LCSD 240-657871/3

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Spike LCSD LCSD %Rec RPD Result Qualifier RPD Limit Added %Rec Limits Analyte Unit 1,1-Dichloroethene 20.0 18.6 ug/L 93 63 - 134 0 35 20.0 19.2 ug/L cis-1,2-Dichloroethene 96 77 - 123 35 20.0 17.9 90 76 - 123 35 Tetrachloroethene ug/L trans-1,2-Dichloroethene 20.0 19.1 ug/L 95 75 - 124 35 20.0 Trichloroethene 17.9 ug/L 90 70 - 12235 Vinyl chloride 20.0 16.0 ug/L 60 - 144

LCSD LCSD Qualifier %Recovery Limits Surrogate 62 - 137 1,2-Dichloroethane-d4 (Surr) 101 101 56 - 136 4-Bromofluorobenzene (Surr) 78 - 122 Toluene-d8 (Surr) 104 Dibromofluoromethane (Surr) 103 73 - 120

Client Sample ID: Matrix Spike Lab Sample ID: 240-225270-B-5 MS Prep Type: Total/NA

Matrix: Water

Analysis Batch: 657871

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	20.0	17.7		ug/L		89	56 - 135	
cis-1,2-Dichloroethene	1.0	U	20.0	18.3		ug/L		92	66 - 128	
Tetrachloroethene	1.0	U	20.0	17.5		ug/L		88	62 - 131	
trans-1,2-Dichloroethene	1.0	U	20.0	17.6		ug/L		88	56 - 136	
Trichloroethene	1.0	U	20.0	17.2		ug/L		86	61 - 124	
Vinvl chloride	1.0	U	20.0	14.8		ua/L		74	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	101		78 - 122
Dibromofluoromethane (Surr)	105		73 - 120

Eurofins Cleveland

Client: Arcadis US Inc. Job ID: 240-225265-1

Project/Site: Ford LTP

_	
Lab Sample ID: 240-225270-B-5 MSD	Client Sample ID: Matrix Spike Duplicate
Matrix: Water	Prep Type: Total/NA

Analysis Batch: 657871

	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	18.1		ug/L		91	56 - 135	2	26
cis-1,2-Dichloroethene	1.0	U	20.0	18.4		ug/L		92	66 - 128	1	14
Tetrachloroethene	1.0	U	20.0	18.0		ug/L		90	62 - 131	3	20
trans-1,2-Dichloroethene	1.0	U	20.0	18.0		ug/L		90	56 - 136	2	15
Trichloroethene	1.0	U	20.0	17.8		ug/L		89	61 - 124	4	15
Vinyl chloride	1.0	U	20.0	14.7		ug/L		74	43 - 157	0	24

MSD MSD %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 62 - 137 101 4-Bromofluorobenzene (Surr) 101 56 - 136 Toluene-d8 (Surr) 101 78 - 122 Dibromofluoromethane (Surr) 102 73 - 120

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

мв мв

Lab Sample ID: MB 240-658002/6

Matrix: Water

Analysis Batch: 658002

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

Analyte Result Qualifier RLMDL Unit Analyzed D Prepared Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 05/30/25 12:41

MB MB %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 86 68 - 127 05/30/25 12:41

Lab Sample ID: LCS 240-658002/4

Matrix: Water

Analysis Batch: 658002

	Бріке	LUS	LUS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,4-Dioxane	10.0	8.43		ug/L		84	75 - 121

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

86

Analysis Batch: 658002

Lab Sample ID: 240-225270-E-4 MS	Client Sample ID: Matrix Spike
Matrix: Water	Prep Type: Total/NA
A	

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	9.28		ug/L	_	93	20 - 180	

68 - 127

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		68 - 127

Eurofins Cleveland

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

6/3/2025

QC Sample Results

Client: Arcadis US Inc. Job ID: 240-225265-1

Project/Site: Ford LTP

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

Lab Sample ID: 240-225270-E-4 MSD	Client Sample ID: Matrix Spike Duplicate
Matrix: Water	Prep Type: Total/NA

Analysis Batch: 658002

•	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	8.87		ug/L		89	20 - 180	5	20
	4400	4400									

Surrogate	%Recovery	Qualifier	Limits
1 2-Dichloroethane-d4 (Surr)	87		68 127

QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-225265-1

GC/MS VOA

Analysis Batch: 657746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-225265-1	TRIP BLANK_132	Total/NA	Water	8260D	
MB 240-657746/10	Method Blank	Total/NA	Water	8260D	
LCS 240-657746/5	Lab Control Sample	Total/NA	Water	8260D	
480-229505-E-4 MS	Matrix Spike	Total/NA	Water	8260D	
480-229505-E-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 657871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
240-225265-2	MW-81_052025	Total/NA	Water	8260D	
240-225265-3	MW-81S_052025	Total/NA	Water	8260D	
MB 240-657871/6	Method Blank	Total/NA	Water	8260D	
LCS 240-657871/2	Lab Control Sample	Total/NA	Water	8260D	
LCSD 240-657871/3	Lab Control Sample Dup	Total/NA	Water	8260D	
240-225270-B-5 MS	Matrix Spike	Total/NA	Water	8260D	
240-225270-B-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 658002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-225265-2	MW-81_052025	Total/NA	Water	8260D SIM	
240-225265-3	MW-81S_052025	Total/NA	Water	8260D SIM	
MB 240-658002/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-658002/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-225270-E-4 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-225270-E-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Eurofins Cleveland

Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-225265-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_132

Lab Sample ID: 240-225265-1 Date Collected: 05/20/25 00:00

Matrix: Water

Date Received: 05/24/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	657746	AJS	EET CLE	05/29/25 18:30

Client Sample ID: MW-81_052025

Lab Sample ID: 240-225265-2

Matrix: Water

Date Collected: 05/20/25 11:15 Date Received: 05/24/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	657871	AJS	EET CLE	05/30/25 03:01
Total/NA	Analysis	8260D SIM		1	658002	R5XG	EET CLE	05/30/25 16:59

Client Sample ID: MW-81S_052025

Lab Sample ID: 240-225265-3

Date Collected: 05/20/25 12:20 Matrix: Water

Date Received: 05/24/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	657871	AJS	EET CLE	05/30/25 03:25
Total/NA	Analysis	8260D SIM		1	658002	R5XG	EET CLE	05/30/25 17:23

Laboratory References:

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

Eurofins Cleveland

Accreditation/Certification Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-225265-1

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
lowa	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

3

4

6

8

9

10

12

13

Chain of Custody Record

TestAmerica Laboratory location: Farmington Hills — 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331 Client Contact C Other Regulatory program: NPDES T RCRA Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Megan Meckley Site Contact: Samantha Szpaichler Lab Contact: Mike DelMonico Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 City/State/Zip: Novl, MI, 48377 Analyses Email: megan.meckley@arcadis.com Analysis Turnaround Time For lab use only Phone: 248-994-2240 Walk-in client Sampler Name: Project Name: Ford LTP □ 3 weeks Karly Wogenstanl ✓ 2 weeks Lab sampling Project Number: 30251157.401.04 1 week 1,4-Dioxane 8260D SIM ☐ 2 days Vinyl Chloride 8260D □ 1 day Job/SDG No: PO # US3460023914 Shipping/Tracking No: Matrix Containers & Preservatives Sample Specific Notes / Sediment HN03 Solid Special Instructions: ē Sample Identification TRIP BLANK_ 132 INIGI $\mathbf{x} \mathbf{x}$ Х Х Х 1 Trip Blank 3 VOAs for 8260D 05/20/25 MW-81-052025 3 VOAs for 8260D SIM 03/20/20 12:20 MW-815-052025 6 (d 240-225265 COC EW 03/20125 MICHIGAN Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than I month) ☐ Return to Client ☐ Disposal By Lab Archive For ∫⊓ Jnknown Non-Hazard ['lammable sin Irritant Poison B F Non-Hazard | samanaco | Special Instructions/QC Requirements & Comments: R Comments | 126 32 | Special Instructions/QC Requirements & Comments: R Comments | 126 32 | Special Instructions/QC Requirements & Comments | 126 32 | Special Instructions/QC Requirements & Comments | 126 32 | Special Instructions/QC Requirements & Comments | 126 32 | Special Instructions/QC Requirements & Comments | 126 32 | Special Instructions/QC Requirements & Comments | 126 32 | Special Instructions/QC Requirements & Comments | 126 32 | Special Instructions/QC Requirements & Comments | 126 32 | Special Instructions/QC Requirements & Comments | 126 32 | Special Instructions/QC Requirements | 126 32 | Special Instru Special Instructions/QC Requirements & Comments: Stark ROW

Relinquished by:

| Company: | Date/Time: |

92008, TeatAmerica Luboratenes, Inc. All rights reserved. TeatAmerica & Design ™ are tracements of TeatAmerica Luboratorico, Inc.

VOA Sample Preservation - Date/Time VOAs Frozen.	VOA Sample Pr
)were further preserved in the laboratorywere further preserved in the laboratory	Sample(s) Time preserved
20 SAMPLE PRESERVATION	20 SAMPLE
Sample(s)were received after the recommended holding time had expired Sample(s)were received with bubble >6 mm in diameter (Notify PM)	Sample(s) Sample(s) Sample(s)
THE CONTITION	10 CAMPI E
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Dadditional next page Labeled by Labels Ventied by	18. CHAIN OI
	Concerning
d PM Date byvia Verbal Voice Mail Other	Contacted PM_
	15 Were air bu 16 Was a VOA 17 Was a LL F
If yes, Questions 13-17 have been checked at the originating laboratory Were all preserved sample(s) at the correct pH upon receipt? Were VOAs on the COC? Yes No (NA) pH Strip Lo# HC463162 Yes No	If yes, Ques 13 Were all pre 14 Were VOA
oc? Yes	
with the COC? (Yes) (Yes) (Yes)	8 Could all bo 9 For each sar 10 Were correc
in the appropriate place? Yes No Yes No	4 Did custody 5 Were the cu
	2
-Were tamper/custody seals on the bottle(s) or bottle kits (I.I.Ha/MeHa)? -Were tamper/custody seals on the bottle(s) or bottle kits (I.I.Ha/MeHa)? -Were tamper/custody seals on the bottle(s) or bottle kits (I.I.Ha/MeHa)? -Were tamper/custody seals on the bottle(s) or bottle kits (I.I.Ha/MeHa)? -Were tamper/custody seals on the bottle(s) or bottle kits (I.I.Ha/MeHa)? -Were tamper/custody seals on the bottle(s) or bottle kits (I.I.Ha/MeHa)?	
°C) Observed Cooler Temp °C Co	IR GUN#
upon recupi	l Cooler tem
₩ _a	Packing ma
Foam Box Client Cooler Bo	Eurofins Cooler #
UPS FAS (Waypoint)Client Drop Off E	FedEx: 1" Grd Exp
S-24-25 Opened on S-24-25	Rec
A COMPANY OF THE PROPERTY OF T	Client COKA
nd Sample Receipt Form/Narrative	Eurofins - Cle

Page 22 of 24

Observed Corrected Cool Temp*C Welke sin O 2 Weller sin Welke sin	Wet Ice Blue ice Dry ice		IR GUN #: IR GUN #:		Client	
Older Description IR Gum # Observed Corrected World Reside World Reside<			IR GUN #:		Client Client Client Client Client Client Client Client Client	
Older Description IR Gum # Observed Corrected Well Res Number of the co			IR GUN #:		Client Client Client Client Client Client Client Client Client	
			IR GUN #:		Client Client Client Client Client Client Client Client	
	None live ice None		IR GUN #:		Client Client Client Client Client Client Client	
	None		IR GUN #:		Client Client Client Client Client Client Client	
Coler Description IR Gun# Cobserved Converted	None live ice		R GUN *:		Client Client Client Client Client Client	
Color Description IR Gun# Conserted Cocycle Converted Cocycle Converted Cocycle Cocycle Cocycle Cocycle Cocycle Cocycle Wellbe size Note of the size Wellbe size Note of the size Wellbe size Note of the size Wellbe size Wellbe size Note of the size Wellbe size Wellbe size Note of the size Wellbe size Wellbe size Wellbe size Wellbe size Note of the size Wellbe size <th< td=""><td>None lue ice None lue ice None None</td><td></td><td>R GUN #:</td><td></td><td>Client Client Client Client</td><td></td></th<>	None lue ice None lue ice None None		R GUN #:		Client Client Client Client	
Ooler Description IR Gun # Observed Corrected	None None None Pelce None None None None None None None Non		R GUN *:			5 5 5 5 5 5
Ooler Description IR Gun # Observed Corrected	None None None None None None None None		IR GUN #:			5 5 5 5
Older Description IR Gun # Observed Corrected	None Je ice None Je ice None Je ice None		IR GUN #:		4	5 5 5 5
Ooler Description IR Gun # Observed Corrected Core (clircle) Corrected Core (clircle) Corrected Core (clircle) Temp^O Welke Num Number	None None None None		IR GUN #:		1	5 5 5
Ooler Description IR Gun # Observed Corrected Coloricle Corrected Circle Corrected Circle Corrected Circle Corrected Circle Corrected Circle Corrected Circle Corrected Survive Corrected Survive Corrected Survive Well be study with the study of th	None None					EC C
Oler Description IR Gun # Observed Corrected Temp*C Corrected Citicle Corrected Citicle Corrected Citicle Corrected Citicle Corrected Citicle Corrected Citicle Corrected Succession	Water None		IR GUN #			E.C
Ooler Description IR Gun # Observed Corrected Circle Well be size with Corrected Circle Well be size with Circl	Wet Ice Blue Ice		IR GUN #·	4	1	
Collect Doc	ō		IR GUN #:	1	1	<u></u>
Collect Collect Corrected Corrected Collect Collect Collect Collect Collect Collect Collect Collect Ecun + Collect Collect Ecun +	Wet Ice Blue ice Dry Ice Water None		IR GUN #:	1	1	E.
Colent Box Other R GUN # Observed Corrected Corrected Colent Box Other R GUN # Temp C Temp C Well de Blue Woler	Wet Ice Blue Ice Dry Ice Water Name		IR GUN #:	ł	Ï	E
Collect Corrected Correc	Wet ice Blue ice Water None		IR GUN #:	1	Î	E0
Client box Other R Gun # Observed Corrected Corrected Client box Other R Gun # Observed Corrected Client box Other R Gun # Observed Observ	Wet Ice Blue Ice Water None		IR GUN #:	Į .	Ï	77
Collect Box Other R Gun # Observed Corrected Correct	Welice Blue Ice Waler None		IR GUN #:	Į	Ï	23
Collent Box Other IR GUN # Observed Corrected Connected Connec	Wet Ice Blue Ice Water Nane		IR GUN #:			25
Coler Description IR Gun # Observed (Circle) Corrected (Circle)<	Wet ice Blue Ice Water None		IR GUN #:			EC
Coler Description IR Gun # Observed Corrected (Circle) Conrected Corrected (Circle) Converted Converted (Circle) Converted Converted (Circle) Converted (Wefice Sive ice Dry Ice Water None		IR GUN #:		1	EC.
Coler Description IR Gun # Observed Corrected Temp °C Temp °C Temp °C Corrected Temp °C Corrected Temp °C Corrected Temp °C Corrected Sue Well Re Blue Relies Blue Well ce Blue Water Client Box Other Client Box Other Box Other RGUN #:	_ ==		IR GUN #:	Į	Ì	m Ö
Client Box Other IR Gun # Observed Corrected Suel Inc Blue Client Box Other IR GUN #:	- 7 ((JR GUN #:		Client	EC.
Client Box Other IR Gun # Observed Corrected Temp °C Temp °C Wellze Wellze Client Box Other IR Gun #:			IR GUN #:		Client	23
Client Box Other IR GUN #: 13 Observed Corrected Wellce Client Box Other IR GUN #: 13 O 3 Other Wellce Client Box Other IR GUN #: 13 O 3 Other Wellce Client Box Other IR GUN #: 14 O 3 Other Wellce Client Box Other IR GUN #: 15 O 3 Other Wellce	्ता		IR GUN #:	į ,	Client	
Client Box Other IR Gun#: Observed Corrected (Circle) (Ci	o [IR GUN #:]	Client	EC
Client Box Other IR Gun# Observed Corrected (Circle) (Circle) Temp °C Temp °C Well De Wol Client Box Other IR Gun #: 13 0.3 0.8 Well Ice Client Box Other IR Gun #: Wol College	Wet Ice Blue Ice Water None		IR GUN #:		Client	r.
Client Box Other IR GUN #: 13 O.S Wet Ice Client Box Other IR GUN #: 13 O.S Wet Ice Client Box Other IR GUN #: 13 O.S Wet Ice Well Client Box Other IR GUN #: 13 O.S Wet Ice Well Client Box Other IR GUN #: 13 O.S Wet Ice Well Client Box Other IR GUN #: 13 O.S Wet Ice Well Client Box Other IR GUN #: 13 O.S Wet Ice Well Client Box Other IR GUN #: 13 O.S Wet Ice Well Client Box Other IR GUN #: 13 O.S Wet Ice	Wel Ice Blue Ice Water None		IR GUN #:		Client	E.C.
Ooler Description IR Gun # Observed Corrected Cooler Description IR Gun # Observed Corrected Cooler Circle) (Circle) (Circle) Temp °C (Circle) (Cir	Wellce Blue Ice Dry Ice	and the state of t	IR GUN #:		Clien!	F6
ooler Description R Gun # Observed Corrected Coo (Circle) (Circle) Temp °C (Circle) (Circle) Con Circle Temp °C (Circle) Con Well Dec Slue Conrected Conrected	Wellige Blue	1 [ĭ 11 1		Cilent	(F)
IR Gun # Observed Corrected (Circle) Temp °C Temp °C	Wet lok Blue	02	866		<u></u>	ريع
		Observed Temp °C	IR Gun # (Circle)		ooler Des	

5/24/2025

Login Container Summary Report

240-225265

lemperature readings			
Chent Sample ID	<u>Lab ID</u>	Container Type	<u>Container</u> <u>Preservation Preservation</u> <u>pH</u> <u>Temp</u> <u>Added</u> <u>Lot Number</u>
TRIP BLANK_132	240-225265-A-1	Voa Vial 40ml - Hydrochloric Acıd	
MW-81_052025	240-225265-A-2	Voa Vial 40ml - Hydrochloric Acid	
MW-81_052025	240-225265-B-2	Voa Vial 40ml - Hydrochloric Acıd	
MW-81_052025	240-225265-C-2	Voa Vial 40ml - Hydrochloric Acid	
MW-81_052025	240-225265-D-2	Voa Vial 40ml - Hydrochloric Acıd	
MW-81_052025	240-225265-E-2	Voa Vial 40ml - Hydrochloric Acid	
MW-81_052025	240-225265-G-2	Voa Vıal 40ml - Hydrochloric Acıd	
MW-81S_052025	240-225265-A-3	Voa Vial 40mi - Hydrochloric Acid	
MW-81S_052025	240-225265-B-3	Voa Vıal 40ml - Hydrochloric Acıd	
MW-81S_052025	240-225265-C-3	Voa Vial 40ml - Hydrochloric Acid	
MW-81S_052025	240-225265-D-3	Voa Vıal 40ml - Hydrochloric Acıd	
MW-81S_052025	240-225265-E-3	Voa Vial 40ml - Hydrochloric Acid	
MW-81S_052025	240-225265-F-3	Voa Vıal 40ml - Hydrochloric Acıd	

Page 24 of 24 6/3/2025

DATA VERIFICATION REPORT



REVISION: corrected ARS.

July 16, 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: 225265-1 Sample date: 2025-05-20

Report received by CADENA: 2025-06-03

Initial Data Verification completed by CADENA: 2025-06-03

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, LCS/LCD RPD, 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 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.
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: 225265-1

		Sample Name:	TRIP BLA	ANK_132			MW-81_	052025			MW-819	5_05202	5	
		Lab Sample ID:	2402252	2651			240225	2652			240225	2653		
		Sample Date:	5/20/20	25			5/20/20	25			5/20/20	25		
				Report		Valid		Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC														
OSW-8260D														
1,1-	Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
cis-1	1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
Tetra	achloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
trans	s-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
Trich	nloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
Viny	l chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
OSW-8260DSIM	<u>[</u>													
1,4-	Dioxane	123-91-1					ND	2.0	ug/l		ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-225265-1

CADENA Verification Report: 2025-06-03

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 59693R Review Level: Tier III Project: 30251157.401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-225265-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Parent Sample	Ana	lysis
Sample ID	Labib	Watrix	Collection Date	raieiii Saiiipie	voc	VOC SIM
TRIP BLANK_132	240-225265-1	Water	05/20/2025		Х	
MW-81_052025	240-225265-2	Water	05/20/2025		Х	Х
MW-81S_052025	240-225265-3	Water	05/20/2025		X	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Rep	orted	Perfori Accep		Not
	No	Yes	No	Yes	Required
Sample receipt condition		X		X	
2. Requested analyses and sample results		Х		Х	
Master tracking list		Х		Х	
4. Methods of analysis		Х		Х	
5. Reporting limits		Х		Х	
6. Sample collection date		Х		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
9. Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
Narrative summary of Quality Assurance or sample problems provided		Х		Х	
12. Data Package Completeness and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8260D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260D/8260D-SIM	Water	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with HCl

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable, and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

Rep	orted			Not Required
No	Yes	No	Yes	Required
C/MS)				
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
X				Х
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	X		Х	
	Х		Х	
	No C/MS)	X X X X X X X X X X X X X X X X X X X	Reported Acce No Yes No C/MS) X X X X X X X X X X X X X	No Yes No Yes

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Febin J S

SIGNATURE:

DATE: June 17, 2025

PEER REVIEW: Andrew Korycinski

DATE: June 22, 2025

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record

TestAmerica Laboratory location: Farmington Hills — 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331 Client Contact C Other Regulatory program: NPDES T RCRA Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Megan Meckley Site Contact: Samantha Szpaichler Lab Contact: Mike DelMonico Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 City/State/Zip: Novl, MI, 48377 Analyses Email: megan.meckley@arcadis.com Analysis Turnaround Time For lab use only Phone: 248-994-2240 Walk-in client Sampler Name: Project Name: Ford LTP □ 3 weeks Karly Wogenstanl ✓ 2 weeks Lab sampling Project Number: 30251157.401.04 1 week 1,4-Dioxane 8260D SIM ☐ 2 days Vinyl Chloride 8260D □ 1 day Job/SDG No: PO # US3460023914 Shipping/Tracking No: Matrix Containers & Preservatives Sample Specific Notes / Sediment HN03 Solid Special Instructions: ē Sample Identification TRIP BLANK_ 132 INIGI $\mathbf{x} \mathbf{x}$ Х Х Х 1 Trip Blank 3 VOAs for 8260D 05/20/25 MW-81-052025 3 VOAs for 8260D SIM 03/20/20 12:20 MW-815-052025 6 (d 240-225265 COC EW 03/20125 MICHIGAN Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than I month) ☐ Return to Client ☐ Disposal By Lab Archive For ∫⊓ Jnknown Non-Hazard ['lammable sin Irritant Poison B F Non-Hazard | samanaco | Special Instructions/QC Requirements & Comments: R Comments | 126 32 | Special Instructions/QC Requirements & Comments: R Comments | 126 32 | Special Instructions/QC Requirements & Comments | 126 32 | Special Instructions/QC Requirements & Comments | 126 32 | Special Instructions/QC Requirements & Comments | 126 32 | Special Instructions/QC Requirements & Comments | 126 32 | Special Instructions/QC Requirements & Comments | 126 32 | Special Instructions/QC Requirements & Comments | 126 32 | Special Instructions/QC Requirements & Comments | 126 32 | Special Instructions/QC Requirements & Comments | 126 32 | Special Instructions/QC Requirements | 126 32 | Special Instru Special Instructions/QC Requirements & Comments: Stark ROW

Relinquished by:

| Company: | Date/Time: |

92008, TeatAmerica Luboratenes, Inc. All rights reserved. TeatAmerica & Design ™ are tracements of TeatAmerica Luboratorico, Inc.

Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-225265-1

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.

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

-

Ę

6

9

IU

12

13

Client: Arcadis US Inc. Job ID: 240-225265-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_132

Lab Sample ID: 240-225265-1 Date Collected: 05/20/25 00:00 Matrix: Water

Date Received: 05/24/25 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			05/29/25 18:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/29/25 18:30	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/29/25 18:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/29/25 18:30	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/29/25 18:30	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/29/25 18:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		62 - 137			_		05/29/25 18:30	1
4-Bromofluorobenzene (Surr)	82		56 ₋ 136					05/29/25 18:30	1
Toluene-d8 (Surr)	98		78 - 122					05/29/25 18:30	1
Dibromofluoromethane (Surr)	107		73 - 120					05/29/25 18:30	1

Eurofins Cleveland

Page 9 of 24 6/3/2025

Client: Arcadis US Inc.

Job ID: 240-225265-1

Project/Site: Ford LTP

Client Sample ID: MW-81_052025

Date Collected: 05/20/25 11:15

Lab Sample ID: 240-225265-2 Matrix: Water

Date Received: 05/24/25 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			05/30/25 16:59	1	
Surrogate	%Recovery	Qualifier	Limits			_	Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	87		68 - 127					05/30/25 16:59	1	

/ (/									
Method: SW846 8260D - Volati	le 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			05/30/25 03:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/30/25 03:01	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/30/25 03:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/30/25 03:01	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/30/25 03:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/30/25 03:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		05/30/25 03:01	1
4-Bromofluorobenzene (Surr)	87		56 ₋ 136					05/30/25 03:01	1
Toluene-d8 (Surr)	102		78 - 122					05/30/25 03:01	1
Dibromofluoromethane (Surr)	113		73 - 120					05/30/25 03:01	1

2

4

6

8

10

11

Client: Arcadis US Inc. Job ID: 240-225265-1

Project/Site: Ford LTP

Date Received: 05/24/25 08:00

Client Sample ID: MW-81S_052025

Lab Sample ID: 240-225265-3 Date Collected: 05/20/25 12:20

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/30/25 17:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		68 - 127			_		05/30/25 17:23	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/30/25 03:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/30/25 03:25	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/30/25 03:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/30/25 03:25	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/30/25 03:25	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/30/25 03:25	1
Surrogate	%Recovery	Qualifier	Limits			_	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		62 - 137					05/30/25 03:25	1

Surrogate	%Recovery	Qualifier Lim	iits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117	62 -	137		05/30/25 03:25	1
4-Bromofluorobenzene (Surr)	87	56 -	136		05/30/25 03:25	1
Toluene-d8 (Surr)	103	78 -	122		05/30/25 03:25	1
Dibromofluoromethane (Surr)	115	73 -	120		05/30/25 03:25	1