ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 3/12/2025 7:14:53 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-219641-1

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 3/12/2025 7:14:53 AM

Authorized for release by Michael DelMonico, Project Manager I Michael.DelMonico@et.eurofinsus.com (330)966-9783

Page 2 of 22

2

6

7

8

9

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

Laboratory Job ID: 240-219641-1

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	16
Lab Chronicle	17
Certification Summary	18
Chain of Custody	19

4

5

9

10

12

13

Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-219641-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA	
Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

MPN

MQL

NC

ND NEG

POS

PQL

QC RER

RL

RPD

TEF

TEQ

TNTC

PRES

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive Quality Control

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Not Detected at the reporting limit (or MDL or EDL if shown)

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)

Eurofins Cleveland

Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-219641-1 Eurofins Cleveland

Job Narrative 240-219641-1

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

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

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

Receipt

The samples were received on 2/28/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.1°C and 1.6°C.

GC/MS VOA

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

Eurofins Cleveland

Page 5 of 22 3/12/2025

2

Job ID: 240-219641-1

3

4

5

7

8

Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219641-1

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

4

J

7

0

10

1 1

13

Sample Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219641-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-219641-1	TRIP BLANK_94	Water	02/26/25 00:00	02/28/25 08:00
240-219641-2	MW-46_022625	Water	02/26/25 11:35	02/28/25 08:00
240-219641-3	MW-66 022625	Water	02/26/25 13:40	02/28/25 08:00

. .

Detection Summary

Client: Arcadis US Inc.

Job ID: 240-219641-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_94 Lab Sample ID: 240-219641-1

No Detections.

Analyte	Result	Qualifier	RL	MDL	Unit	I	Dil Fac	D	Method	Р	rep Type
1,4-Dioxane	1.8	J	2.0	0.86	ug/L		1	_	8260D SIM	T	otal/NA
Vinyl chloride	3.3		1.0	0.45	ug/L		1		8260D	T	otal/NA

Client Sample ID: MW-66_022625 Lab Sample ID: 240-219641-3

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac [) Method	Prep Type
1,4-Dioxane	2.5	2.0	0.86 ug/L		8260D SIM	Total/NA
Vinvl chloride	2.6	1.0	0.45 ua/L	1	8260D	Total/NA

This Detection Summary does not include radiochemical test results.

0

10

111

13

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-219641-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_94

Date Received: 02/28/25 08:00

Lab Sample ID: 240-219641-1 Date Collected: 02/26/25 00:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/06/25 19:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/06/25 19:37	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/06/25 19:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/06/25 19:37	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/06/25 19:37	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/06/25 19:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137			-		03/06/25 19:37	1
4-Bromofluorobenzene (Surr)	105		56 ₋ 136					03/06/25 19:37	1
Toluene-d8 (Surr)	109		78 - 122					03/06/25 19:37	1
Dibromofluoromethane (Surr)	111		73 - 120					03/06/25 19:37	1

Eurofins Cleveland

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-219641-1

Project/Site: Ford LTP

Client Sample ID: MW-46_022625

Date Received: 02/28/25 08:00

Dibromofluoromethane (Surr)

Date Collected: 02/26/25 11:35

110

Lab Sample ID: 240-219641-2 Matrix: Water

03/06/25 20:59

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.8	J	2.0	0.86	ug/L			03/11/25 02:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		68 - 127					03/11/25 02:20	1
	tile Organic Comp	ounds by G	C/MS						
Method: SW846 8260D - Volati Analyte		ounds by G	C/MS	MDL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier			Unit ug/L	<u>D</u> .	Prepared	Analyzed 03/06/25 20:59	Dil Fac

Tetrachloroethene	1.0 U	1.0	0.44 ug/L		03/06/25 20:59	1
trans-1,2-Dichloroethene	1.0 U	1.0	0.51 ug/L		03/06/25 20:59	1
Trichloroethene	1.0 U	1.0	0.44 ug/L		03/06/25 20:59	1
Vinyl chloride	3.3	1.0	0.45 ug/L		03/06/25 20:59	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106	62 - 137			03/06/25 20:59	1
4-Bromofluorobenzene (Surr)	103	56 ₋ 136			03/06/25 20:59	1
Toluene-d8 (Surr)	109	78 - 122			03/06/25 20:59	1

73 - 120

3/12/2025

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-219641-1

Project/Site: Ford LTP

Client Sample ID: MW-66_022625

Date Received: 02/28/25 08:00

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Lab Sample ID: 240-219641-3 Date Collected: 02/26/25 13:40

96

100

99

Matrix: Water

03/06/25 21:26

03/06/25 21:26

03/06/25 21:26

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.5		2.0	0.86	ug/L			03/11/25 02:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		68 - 127			-		03/11/25 02:43	1
- Method: SW846 8260D - Volat	ile 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			03/06/25 21:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/06/25 21:26	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/06/25 21:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/06/25 21:26	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/06/25 21:26	1
Vinyl chloride	2.6		1.0	0.45	ug/L			03/06/25 21:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137			-		03/06/25 21:26	

56 - 136

78 - 122

73 - 120

Surrogate Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219641-1

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-219469-A-6 MS	Matrix Spike	91	96	98	98
240-219469-A-6 MSD	Matrix Spike Duplicate	101	106	112	108
240-219641-1	TRIP BLANK_94	105	105	109	111
240-219641-2	MW-46_022625	106	103	109	110
240-219641-3	MW-66_022625	94	96	100	99
LCS 240-647081/5	Lab Control Sample	101	97	101	100
MB 240-647081/9	Method Blank	98	99	100	100

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)	
240-219641-2	MW-46_022625	105	
240-219641-3	MW-66_022625	101	
240-219643-E-3 MS	Matrix Spike	107	
240-219643-E-3 MSD	Matrix Spike Duplicate	106	
LCS 240-647554/3	Lab Control Sample	101	
MB 240-647554/5	Method Blank	99	
Surrogate Legend			

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

Eurofins Cleveland

2

5

7

9

10

12

13

Client: Arcadis US Inc. Job ID: 240-219641-1

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

Lab Sample ID: MB 240-647081/9

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 647081

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			03/06/25 13:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/06/25 13:14	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/06/25 13:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/06/25 13:14	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/06/25 13:14	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/06/25 13:14	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 03/06/25 13:14 98 4-Bromofluorobenzene (Surr) 99 56 - 136 03/06/25 13:14 Toluene-d8 (Surr) 100 78 - 122 03/06/25 13:14 Dibromofluoromethane (Surr) 100 73 - 120 03/06/25 13:14

Lab Sample ID: LCS 240-647081/5

Matrix: Water

Analysis Batch: 647081

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	20.5		ug/L		103	63 - 134	
cis-1,2-Dichloroethene	20.0	19.4		ug/L		97	77 - 123	
Tetrachloroethene	20.0	17.6		ug/L		88	76 - 123	
trans-1,2-Dichloroethene	20.0	20.9		ug/L		104	75 - 124	
Trichloroethene	20.0	19.2		ug/L		96	70 - 122	
Vinyl chloride	20.0	22.3		ug/L		112	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		62 - 137
4-Bromofluorobenzene (Surr)	97		56 - 136
Toluene-d8 (Surr)	101		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

Lab Sample ID: 240-219469-A-6 MS

Analysis Batch: 647081

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

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	100	U F1	16000	1930	F1	ug/L		12	56 - 135	
cis-1,2-Dichloroethene	250	F1	16000	2090	F1	ug/L		12	66 - 128	
Tetrachloroethene	1100	F1	16000	2640	F1	ug/L		10	62 - 131	
trans-1,2-Dichloroethene	100	U F1	16000	1970	F1	ug/L		12	56 - 136	
Trichloroethene	3000	F1	16000	4680	F1	ug/L		10	61 - 124	
Vinyl chloride	100	U F1	16000	2170	F1	ug/L		14	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		62 - 137
4-Bromofluorobenzene (Surr)	96		56 - 136
Toluene-d8 (Surr)	98		78 - 122

Eurofins Cleveland

Page 13 of 22

Job ID: 240-219641-1

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

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

Lab Sample ID: 240-219469-A-6 MS

Matrix: Water

Analysis Batch: 647081

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 98 73 - 120

Lab Sample ID: 240-219469-A-6 MSD

Matrix: Water

Analysis Batch: 647081

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

%Rec RPD D %Rec Limits RPD Limit

MSD MSD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit 1,1-Dichloroethene 100 UF1 16000 2120 F1 ug/L 13 56 - 135 9 26 cis-1,2-Dichloroethene 250 F1 16000 2270 F1 13 66 - 128 ug/L 8 14 Tetrachloroethene 1100 F1 16000 2980 F1 ug/L 12 62 - 131 12 20 100 UF1 15 trans-1.2-Dichloroethene 16000 2140 F1 ug/L 13 56 - 136 8 Trichloroethene 3000 F1 16000 5010 F1 ug/L 12 61 - 124 15 Vinyl chloride 100 UF1 16000 2340 F1 ug/L 15 43 - 157 24

MSD MSD

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		62 - 137
4-Bromofluorobenzene (Surr)	106		56 - 136
Toluene-d8 (Surr)	112		78 - 122
Dibromofluoromethane (Surr)	108		73 - 120

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

Lab Sample ID: MB 240-647554/5

Matrix: Water

Analysis Batch: 647554

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte Result Qualifier RL MDL Unit Analyzed Dil Fac Prepared 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 03/10/25 23:59 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 99 68 - 127 03/10/25 23:59

Lab Sample ID: LCS 240-647554/3

Matrix: Water

1,4-Dioxane

Prep Type: Total/NA Analysis Batch: 647554 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits

9.83

ug/L

10.0

LCS LCS %Recovery Qualifier Surrogate Limits 68 - 127 1,2-Dichloroethane-d4 (Surr) 101

Lab Sample ID: 240-219643-E-3 MS

Matrix: Water

Analysis Batch: 647554

Client Sample ID: Matrix Spike

Client Sample ID: Lab Control Sample

75 - 121

98

Prep Type: Total/NA

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,4-Dioxane 2.0 U 10.0 11.3 ug/L 113 20 - 180

Eurofins Cleveland

QC Sample Results

Client: Arcadis US Inc. Job ID: 240-219641-1

Project/Site: Ford LTP

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

	MS I	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		68 - 127
Lab Sample ID: 240-219643	-E-3 MSD		

Lab Sample ID: 240-219643-E-3 MSD	Client
Matrix: Water	

Analy	ysis	Batch:	647554

-	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	11.3		ug/L		113	20 - 180	0	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		68 - 127

Prep Type: Total/NA

QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219641-1

GC/MS VOA

Analysis Batch: 647081

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219641-1	TRIP BLANK_94	Total/NA	Water	8260D	
240-219641-2	MW-46_022625	Total/NA	Water	8260D	
240-219641-3	MW-66_022625	Total/NA	Water	8260D	
MB 240-647081/9	Method Blank	Total/NA	Water	8260D	
LCS 240-647081/5	Lab Control Sample	Total/NA	Water	8260D	
240-219469-A-6 MS	Matrix Spike	Total/NA	Water	8260D	
240-219469-A-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 647554

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219641-2	MW-46_022625	Total/NA	Water	8260D SIM	
240-219641-3	MW-66_022625	Total/NA	Water	8260D SIM	
MB 240-647554/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-647554/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-219643-E-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-219643-E-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

4

5

6

6

9

10

11

12

13

4 /

Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-219641-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_94

Lab Sample ID: 240-219641-1 Date Collected: 02/26/25 00:00 **Matrix: Water**

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed 8260D EET CLE 03/06/25 19:37 Total/NA Analysis 647081 НМВ

Client Sample ID: MW-46_022625 Lab Sample ID: 240-219641-2

Date Collected: 02/26/25 11:35 **Matrix: Water**

Date Received: 02/28/25 08:00

Date Received: 02/28/25 08:00

Batch Batch Dilution Batch Prepared Prep Type Method Run Factor Number Analyst or Analyzed Туре Lab Total/NA 8260D HMB EET CLE 03/06/25 20:59 Analysis 647081 Total/NA Analysis 8260D SIM R5XG **EET CLE** 03/11/25 02:20 1 647554

Client Sample ID: MW-66_022625 Lab Sample ID: 240-219641-3

Date Collected: 02/26/25 13:40 **Matrix: Water**

Date Received: 02/28/25 08:00

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** or Analyzed Lab 03/06/25 21:26 Total/NA 8260D EET CLE Analysis 647081 HMB 8260D SIM 03/11/25 02:43 Total/NA Analysis 647554 R5XG EET CLE 1

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: 240-219641-1

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

4

5

7

10

11

13

8/	12
/	۱ <u> </u>

<u>TestAmerica</u>

190 Tes	tAmerica Labora	tory location:	Farmingto	n Hills — 38	855 Hills	Tech Dr	ive, Sui	ite 600, F	armingt	ton Hill	ls 4833	1					THE LEADER IN ENVIRONMENTAL TESTI
Client Contact	Regulat	ory program:	ſ	DW	⊢ N	PDES	Æ	RCRA	Γ	Othe	er						
Company Name: Arcadis	Client Project	Manager: Mega	n Meckley		Site Co	ontact:	Samant	ha Szpai	ichler		- II	ah Co	ntact: M	ike Del	Monice	0	 TestAmerica Laboratories, In COC No:
Address: 28550 Cabot Drive, Suite 500																	
City/State/Zip: Novi, M1, 48377	Telephone: 248	-994-2240				none: 24						етерпо	ne: 330-				1 of 1 COCs
Phone: 248-994-2240	Email: kristoff	er.hinskey@are	adis.com		Ai	nalysis	Turnaro	und Tim	9			-	-	A	nalys	es	For lab use only
	Sampler Name	:	2		TAT in	different fi											Walk-in client
Project Name: Ford LTP	K	ont k	, -652	01	10	day	☐ 3 W		- 10								Lab sampling
Project Number: 30206169.0401.03	Method of Ship	ment/Carrier:	- 4		7		☐ 1 w	veck lavs	2)=C			e			SIS I	
PO # US3460021848	Shipping/Track	cing No:					ſ 1 d	lay	ole (V /	/Grab	GDS	8260D	SE 826		e 8260	8260D	Job/SDG No:
			N	Astrix		ontainer	rs & Pres	servatives	S. E.S.	ite	826	SC.	2-DG	8260D	forid	gane	
Sample Identification	Sample Date	Sample Time	Air	Solid Other:	H2SO4	IICI	NaOH	Unpres Other:	Filtered Sample (Y / N)	Composite=C/Grab=G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D PCE 8260D	TCE 82	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM	Sample Specific Notes / Special Instructions:
TRIP BLANK_ 94			1			1				1 G	Х	x :	x x	Х	Х		1 Trip Blank
	2/24/25	1135	6			6			7	U G	X	χ -	x x	١ ٢	×	χ	3 VOAs for 8260D
MW-46 022625	2/21/25	1340	6			6			'n	36			X 3		χ	χ	1
	12010	.,															
																MAKE T	
														T	240)-219641 COC	
														T			
Possible Hazard Identification Non-Hazard Clammable Gin Irrita	ant Poise	n B	Jnknown		San		rn to Cli	A fee may	y be asse Disp				etained l Archiv		han I r	month) Months	
C. LIV. C. CO.D. L. C. C. C. C.	nsite	ALD .	Jikilowii			Actu	in to Cir	Cin .	2130	0341 25	Lao		700111		-	Woman	
Submit all results through Cadena at jtomalia@cadenacd Level IV Reporting requested.		203728	WK.														
Relinquished by:	Company:	dis is	Date/7	Time: 125	/5	83	Receive	d by:	C	10	15	61	م يمد	Com	y C	cdis	Date/Time: 2/26/25 1503
Relinquished by Company of the Compa	Company:		Date/1	27/25	- 142	0		4	T.	A	44	cute	E	E	E	A	742725 (C/2)
Relinquished by:	Company	A	Date/T	Time: 127/25	14.	22	Receive	E 2,2	E'at M	URi	ďsk	0			Pany:	\	Date Time: 2 257

02005, TestAmerica Laboratories, Inc., All rights reserved, TestAmerica & Design "* are trademarks of TestAmerica Laboratories, Inc.

VOA Sample Preservation - Date/Time VOAs Frozen.
erved Preservative(s) added/Lot number(s)
Sample(s)were further preserved in the laboratory
20. SAMPLE PRESERVATION
Sample(s) were received with bubble >6 mm in diameter (Notify PM)
The second secon
19 SAMPLE CONDITION were received after the recommended holding time had expired.
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
Concerning
Contacted PM Date by via Verbal Voice Mail Other
Was a LL Hg or Me Hg trip blank present?
Were air bubbles >6 mm in any VOA vials? Larger than this. Was a VOA trin blank present in the cooler(s)? Trin Blank I at #COX YOYO A
13 Were all preserved sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# HC448976 14 Were VOAs on the COC?
12. Are these work share samples and all listed on the COC? If yes, Questions 13-17 have been checked at the originating laboratory
Sufficient quantity received to perform indicated analyses?
9 For each sample, does the COC specify preservatives (YN), # of containers (YN), and sample type of grab/comp(YN)? 10 Were correct hottle(s) used for the test(s) indicated?
Could all bottle labels (ID/Date/Time) be reconciled with the COC?
Was/were the person(s) who collected the samples clearly identified on the COC?
Were the custody papers accompany the sample(s)? Were the custody papers relinquished & signed in the appropriate place? (Yes) No
-Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised?
2 Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Va. No.
perature upon receipt See Multiple Cooler Form
Packing material used. But of Wrap Foam Plastic Bag None Other COOLANT: Well be Blue Ice Dry Ice Water None
ox Client Cooler Box
Receipt After-hours Drop-off Date/Time Storage Location
alasias opened on alasias
Site Name
Eurofins—Cleveland Sample Receipt Form/Narrative — Login # : — — — — — — — — — — — — — — — — — —

Page 20 of 22

See Temperature Excursion Form	☐ See Tem						
Wet ice Blue ice Dry ice Water Nane			IR GUN #:	Other	Вох	Client	EC.
Wellce Bluelce Drylce Water None			IR GUN #:	Other	Box	Client	E.
Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Other	Вох	Cilent	r.
Wet Ice Slue Ice Dry Ice Water None			IR GUN #:	Other	Box	Client	EC
Wet ice Blue Ice Dry Ice Water None	dimension and significant		JR GUN #	Other	Вох	Client	EC
Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Other	Вох	Client	EC.
Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Other	Вох	Cllent	EC
Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Other	Вох	Cllent	EC
Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Other	Вох	Client	E.C.
Wet ice Blue ice Dry ice Water None			IR GUN #:	Other	Вох	Cllent	ا
Wet ice Blue ice Dry ice Water None		And the second s	IR GUN #:	Other	Вох	Client	EC
Wet Ice Blue Ice Dry Ice Water None		ACATION AND ACATION AND ACATION AND ACATION AND ACATION AND ACATION AC	IR GUN #:	Other	Вох	Client	EC.
Wet ice Blue ice Dry ice Water None		and the second s	IR GUN #:	Other	Box	Client	EC
Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Other	Вох	Client	EC
Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Other	Вох	Client	EC
Wet ice Blue ice Dry ice Water None			IR GUN #:	Other	Вох	Client	۳.
Wet ice Bive ice Dry Ice Water None			IR GUN #:	Other	Вох	Client	EC
Wet ice Bive ice Dry Ice Water None			IR GUN #:	Other	Box	Client	77
Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Other	Box	Client	2
Wet ice Blue ice Dry Ice Water None			IR GUN #:	Other	Вох	Client	ñ
Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Other	Вох	Client	E
Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Other	Вох	Client	23
Wet ice Blue ice Dry ice Water None			IR GUN #:	Olher	Вох	Client	E.C
Wet ice Blue ice Dry ice Water None			IR GUN #:	Other	Box	Client	EC
Wet ice Blue ice Dry Ice Water None		- VOO:	IR GUN #:	Other	Box	Client	EC
Wet Ice Blue Ice Dry Ice Water None	TO OF STATE OF THE PERSONNEL MANAGEMENT OF THE PERSONNEL M		IR GUN #:	Other	Вох	Cllent	E.C
- I	, description		IR GUN #:	Other	Box	Client	E.C
Wet Ice Blue Ice Day Ice Water None		**************************************	IR GUN #:	Other	Вох	Client	r.
Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Other	Вох	Client	EC .
Wet ice Blue ice Dry ice Water None		e province de la constante de	IR GUN #:	Other	Вох	Client	EC.
Wet Ice Blue Ice Dry Ice Wafer None	<u> </u>		IR GUN #:	Other	Вох	Cllent	23
Wet Ice Blue Ice Dry Ice Water None	TOTAL STATE OF THE	•	IR GUN #:	Other	Вох	Client	EC.
Wet Ice Blue Ice Dry Ice Water None		1,6	IR GUN #: +>	Other	Вох	Client	EC.
Wet ice Blue ice Dry ice Water None	•	-	IR GUN #:	Other	Box	Cllent	ξ.
Coolant (Circle)	Observed Corrected Temp °C Temp °C	Observed Temp °C	IR Gun # (Circle)	otion	r Descrip (Circle)	Cooler Description (Circle)	ဂ္ဂ
The second of th		C (C					

WI-NC-099 Cooler Receipt Form Page 2 Multiple Coolers

Page 21 of 22 3/12/2025

2/28/2025

Temperature readings

Login Container Summary Report

240-219641

Client Sample ID	<u>Lab ID</u>	Container Type	Container Preservation Preservation pH Temp Added Lot Number
TRIP BLANK_94	240-219641-A-1	Voa Vıal 40ml - Hydrochloric Acid	The state of the s
MW-46_022625	240-219641-A-2	Voa Vial 40ml - Hydrochloric Acıd	
MW-46_022625	240-219641-B-2	Voa Vial 40ml - Hydrochloric Acid	
MW-46_022625	240-219641-C-2	Voa Vial 40ml - Hydrochloric Acid	
MW-46_022625	240-219641-D-2	Voa Vıal 40ml - Hydrochloric Acid	
MW-46_022625	240-219641-E-2	Voa Vial 40ml - Hydrochloric Acid	
MW-46_022625	240-219641-F-2	Voa Vial 40ml - Hydrochloric Acid	
MW-66_022625	240-219641-A-3	Voa Vial 40ml - Hydrochloric Acıd	***************************************
MW-66_022625	240-219641-B-3	Voa Vial 40ml - Hydrochloric Acid	***************************************
MW-66_022625	240-219641-C-3	Voa Vial 40ml - Hydrochloric Acid	
MW-66_022625	240-219641-D-3	Voa Vıal 40ml - Hydrochloric Acid	
MW-66_022625	240-219641-E-3	Voa Vial 40ml - Hydrochloric Acid	
MW-66_022625	240-219641-F-3	Voa Vial 40ml - Hydrochloric Acid	

Page 1 of 1

DATA VERIFICATION REPORT



March 12, 2025

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

CADENA project ID: E203728

Project: Ford Livonia Transmission Plant - ON-SITE Soil Gas, Ground Water and Soil

Project number: 30251157.401.04 (vapor 301.04) 30206169.0401.04

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

Laboratory submittal: 219641-1 Sample date: 2025-02-26

Report received by CADENA: 2025-03-12

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

Number of Samples: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.

The following minor QC exceptions or missing information were noted:

GCMS VOC QC batch MS/MSD recovery outliers were not determined using a client sample so qualification was not required based on these sample-specific QC outliers.

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

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

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

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at http://clms.cadenaco.com/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
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: 219641-1

		Sample Name:	TRIP BLANK_94				MW-46_	022625						
		Lab Sample ID:	240219	6411			240219	6412						
		Sample Date:	2/26/20	25			2/26/20	25			2/26/20	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-82	60D													
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		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	
	trans-1,2-Dichloroethene	156-60-5	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	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		3.3	1.0	ug/l		2.6	1.0	ug/l	
OSW-82	60DSIM													
	1,4-Dioxane	123-91-1					1.8	2.0	ug/l	J	2.5	2.0	ug/l	