PREPARED FOR

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

Generated 5/19/2025 7:27:00 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-224127-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

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Job Notes

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Authorization

Generated 5/19/2025 7:27:00 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: 240-224127-1

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Definitions/Glossary

Client: Arcadis US Inc.

Job ID: 240-224127-1

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

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Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-224127-1 Eurofins Cleveland

Job Narrative 240-224127-1

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 5/9/2025 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 3 coolers at receipt time were 1.5°C, 2.0°C and 2.1°C.

GC/MS VOA

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

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Job ID: 240-224127-1

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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-224127-1

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

5

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8

4.0

11

12

Sample Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-224127-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-224127-1	TRIP BLANK_67	Water	05/06/25 00:00	05/09/25 08:00
240-224127-2	MW-193S_050625	Water	05/06/25 09:55	05/09/25 08:00

Detection Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-224127-1

Client Sample ID: TRIP BLANK_67

No Detections.

Lab Sample ID: 240-224127-1

No Detections.

1

5

7

10

40

13

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-224127-1

Project/Site: Ford LTP

Date Received: 05/09/25 08:00

Client Sample ID: TRIP BLANK_67

Lab Sample ID: 240-224127-1 Date Collected: 05/06/25 00:00

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 1.0 1,1-Dichloroethene 1.0 U 0.49 ug/L 05/15/25 20:58 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 05/15/25 20:58 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 05/15/25 20:58 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 05/15/25 20:58 Trichloroethene 1.0 U 1.0 0.44 ug/L 05/15/25 20:58 Vinyl chloride 0.45 ug/L 1.0 U 1.0 05/15/25 20:58 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 112 62 - 137 05/15/25 20:58 4-Bromofluorobenzene (Surr) 89 05/15/25 20:58 56 - 136 78 - 122 05/15/25 20:58 Toluene-d8 (Surr) 101 Dibromofluoromethane (Surr) 108 73 - 120 05/15/25 20:58

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-224127-1

Project/Site: Ford LTP

Client Sample ID: MW-193S_050625

Date Collected: 05/06/25 09:55 Date Received: 05/09/25 08:00

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Lab Sample ID: 240-224127-2

05/16/25 07:32

05/16/25 07:32

05/16/25 07:32

05/16/25 07:32

Matrix: Water

Method: SW846 8260D SIM - '	Volatile 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			05/14/25 04:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		68 - 127			-		05/14/25 04:20	1
- Method: SW846 8260D - Volat	tile 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			05/16/25 07:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/16/25 07:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/16/25 07:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/16/25 07:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/16/25 07:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/16/25 07:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

62 - 137

56 - 136

78 - 122

73 - 120

110

90

101

Surrogate Summary

Client: Arcadis US Inc. Job ID: 240-224127-1 Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Su	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-224127-1	TRIP BLANK_67	112	89	101	108
240-224127-2	MW-193S_050625	110	90	101	110
240-224130-C-2 MS	Matrix Spike	97	101	103	99
240-224130-C-2 MSD	Matrix Spike Duplicate	94	97	97	93
240-224135-A-2 MS	Matrix Spike	99	105	104	100
240-224135-A-2 MSD	Matrix Spike Duplicate	96	101	100	95
LCS 240-656137/5	Lab Control Sample	101	107	104	102
LCS 240-656137/6	Lab Control Sample	97	92	92	98
LCS 240-656215/2	Lab Control Sample	97	103	102	99
LCSD 240-656215/3	Lab Control Sample Dup	100	104	104	102
MB 240-656137/10	Method Blank	107	92	99	102
MB 240-656215/6	Method Blank	106	90	99	103

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)	
240-224127-2	MW-193S_050625	84	
240-224130-E-2 MS	Matrix Spike	79	
240-224130-E-2 MSD	Matrix Spike Duplicate	83	
LCS 240-655848/2	Lab Control Sample	80	
MB 240-655848/4	Method Blank	80	
Surrogate Legend			
DCA = 1,2-Dichloroetha	ne-d4 (Surr)		

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Job ID: 240-224127-1

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

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

Lab Sample ID: MB 240-656137/10

Matrix: Water

Analysis Batch: 656137

Client Samp	le ID:	Method	Blank
	Dron	Tunor To	to I/NI A

Prep Type: Total/NA

l		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			05/15/25 13:08	1
I	cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/15/25 13:08	1
	Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/15/25 13:08	1
I	trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/15/25 13:08	1
I	Trichloroethene	1.0	U	1.0	0.44	ug/L			05/15/25 13:08	1
	Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/15/25 13:08	1
ı										

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 107 62 - 137 05/15/25 13:08 4-Bromofluorobenzene (Surr) 92 56 - 136 05/15/25 13:08 05/15/25 13:08 Toluene-d8 (Surr) 99 78 - 122 Dibromofluoromethane (Surr) 102 73 - 120 05/15/25 13:08

Lab Sample ID: LCS 240-656137/5

Matrix: Water

Analysis Batch: 656137

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	19.3		ug/L		96	63 - 134	
cis-1,2-Dichloroethene	20.0	19.6		ug/L		98	77 - 123	
Tetrachloroethene	20.0	18.7		ug/L		94	76 - 123	
trans-1,2-Dichloroethene	20.0	19.7		ug/L		99	75 - 124	
Trichloroethene	20.0	18.4		ug/L		92	70 - 122	
Vinyl chloride	20.0	15.7		ug/L		78	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		62 - 137
4-Bromofluorobenzene (Surr)	107		56 ₋ 136
Toluene-d8 (Surr)	104		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

Lab Sample ID: LCS 240-656137/6

Matrix: Water

Analysis Batch: 656137

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	92		56 - 136
Toluene-d8 (Surr)	92		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

Matrix: Water

Analysis Batch: 656137

Lab Sample ID: 240-224130-C-2 MS 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	1.0	U	20.0	17.9		ug/L		89	56 - 135	
cis-1,2-Dichloroethene	1.0	U	20.0	18.6		ug/L		93	66 - 128	

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QC Sample Results

Client: Arcadis US Inc. Job ID: 240-224127-1

Project/Site: Ford LTP

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

Lab Sample ID: 240-224130-C-2 MS **Matrix: Water**

Analysis Batch: 656137

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier %Rec Limits Analyte Unit D U 18.0 62 - 131 Tetrachloroethene 10 20.0 ug/L 90 trans-1,2-Dichloroethene 1.0 U 20.0 18.6 ug/L 93 56 - 136 Trichloroethene 20.0 16.6 83 1.0 U ug/L 61 - 124Vinyl chloride 1.0 U 20.0 15.1 ug/L 76 43 - 157

MS MS

1.0 U

1.0 U

1.0 U

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

Lab Sample ID: 240-224130-C-2 MSD Client Sample ID: Matrix Spike Duplicate

20.0

20.0

20.0

Matrix: Water

Analysis Batch: 656137

trans-1,2-Dichloroethene

Trichloroethene

Vinyl chloride

Prep Type: Total/NA

56 - 136

61 - 124

43 - 157

89

82

69

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 16.6 ug/L 83 56 - 135 26 cis-1,2-Dichloroethene 1.0 U 20.0 18.3 ug/L 92 66 - 12814 Tetrachloroethene 1.0 U 20.0 16.9 ug/L 84 62 - 131 20

17.8

16.5

13 9

ug/L

ug/L

ug/L

MSD MSD Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 94 62 - 137

4-Bromofluorobenzene (Surr) 97 56 - 136 Toluene-d8 (Surr) 97 78 - 122 93 73 - 120 Dibromofluoromethane (Surr)

Lab Sample ID: MB 240-656215/6 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 656215

MB MB Result Qualifier RL MDL Unit Prepared Dil Fac Analyte D Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 05/16/25 00:29 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 05/16/25 00:29 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 05/16/25 00:29 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 05/16/25 00:29 Trichloroethene 10 U 1.0 05/16/25 00:29 0.44 ug/L Vinyl chloride 1.0 U 1.0 0.45 ug/L 05/16/25 00:29

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 05/16/25 00:29 1,2-Dichloroethane-d4 (Surr) 106 62 - 137 4-Bromofluorobenzene (Surr) 90 56 - 136 05/16/25 00:29 78 - 122 05/16/25 00:29 Toluene-d8 (Surr) 99 Dibromofluoromethane (Surr) 103 73 - 120 05/16/25 00:29

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15

Client: Arcadis US Inc. Job ID: 240-224127-1

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

Lab Sample ID: LCS 240-656215/2

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 656215

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

	Spike	LCS	LCS			%Rec	
Analyte	Added	Result	Qualifier Uni	it D	%Rec	Limits	
1,1-Dichloroethene	20.0	17.5	ug/	L	87	63 - 134	
cis-1,2-Dichloroethene	20.0	18.5	ug/	L	93	77 - 123	
Tetrachloroethene	20.0	17.0	ug/	L	85	76 - 123	
trans-1,2-Dichloroethene	20.0	18.2	ug/	L	91	75 - 124	
Trichloroethene	20.0	17.9	ug/	L	90	70 - 122	
Vinyl chloride	20.0	15.0	ug/	L	75	60 - 144	

LCS	LCS	
%Recovery	Qualifier	Limits
97		62 - 137
103		56 - 136
102		78 - 122
99		73 - 120
	%Recovery 97 103 102	103 102

Lab Sample ID: LCSD 240-656215/3

Client Sample ID: Lab Control Sample Dup
Matrix: Water

Prep Type: Total/NA

Analysis Batch: 656215

Vinyl chloride

%Rec Spike LCSD LCSD RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit 1,1-Dichloroethene 20.0 18.9 94 63 - 134 35 ug/L 8 20.0 95 77 - 123 cis-1,2-Dichloroethene 19.1 ug/L 3 35 Tetrachloroethene 20.0 17.3 87 76 - 123 ug/L 2 35 trans-1,2-Dichloroethene 20.0 18.9 ug/L 95 75 - 124 35 4 Trichloroethene 20.0 17.7 ug/L 88 70 - 122 2 35

15.7

ug/L

79

60 - 144

35

	LCSD LC	CSD
Surrogate	%Recovery Qu	ualifier Limits
1,2-Dichloroethane-d4 (Surr)	100	62 - 137
4-Bromofluorobenzene (Surr)	104	56 - 136
Toluene-d8 (Surr)	104	78 - 122
Dibromofluoromethane (Surr)	102	73 - 120

20.0

Lab Sample ID: 240-224135-A-2 MS

Matrix: Water

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

Analysis Batch: 656215

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	20.0	19.8		ug/L		99	56 - 135	
cis-1,2-Dichloroethene	1.0	U	20.0	19.1		ug/L		95	66 - 128	
Tetrachloroethene	1.0	U	20.0	19.3		ug/L		96	62 - 131	
trans-1,2-Dichloroethene	1.0	U	20.0	19.4		ug/L		97	56 - 136	
Trichloroethene	1.0	U	20.0	17.3		ug/L		87	61 - 124	
Vinyl chloride	1.0	U	20.0	15.8		ug/L		79	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		62 - 137
4-Bromofluorobenzene (Surr)	105		56 - 136
Toluene-d8 (Surr)	104		78 ₋ 122

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5/19/2025

Job ID: 240-224127-1

Project/Site: Ford LTP

Client: Arcadis US Inc.

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

Lab Sample ID: 240-224135-A-2 MS

Matrix: Water

Analysis Batch: 656215

Dibromofluoromethane (Surr)

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS Surrogate

%Recovery Qualifier Limits 100 73 - 120

Lab Sample ID: 240-224135-A-2 MSD

Matrix: Water

Analysis Batch: 656215

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

MSD MSD %Rec RPD Sample Sample Spike RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Limit 1,1-Dichloroethene 1.0 U 20.0 18.8 ug/L 94 56 - 135 26 cis-1,2-Dichloroethene 1.0 U 20.0 92 66 - 128 18 4 ug/L 14 Tetrachloroethene 1.0 U 20.0 19.1 ug/L 95 62 - 131 20 trans-1,2-Dichloroethene 1.0 U 20.0 18.7 ug/L 94 56 - 136 15 Trichloroethene 1.0 U 20.0 17.6 ug/L 88 61 - 124 15 Vinyl chloride 1.0 U 20.0 16.0 ug/L 43 - 157 24

MSD MSD

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	100		78 - 122
Dibromofluoromethane (Surr)	95		73 - 120

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

Lab Sample ID: MB 240-655848/4

Matrix: Water

Analysis Batch: 655848

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Type: Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L	_		05/14/25 00:01	1
	МВ	МВ							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 80 68 - 127 05/14/25 00:01

Lab Sample ID: LCS 240-655848/2

Matrix: Water

Analysis Batch: 655848

•		Spike	LCS	LCS			%Rec	
Analyte		Added	Result	Qualifier Ur	nit D	%Rec	Limits	
1,4-Dioxane	· · ·	10.0	8.87	uc	/L	89	75 - 121	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	80	68 - 127

Lab Sample ID

Matrix: Water

Analysis Batch: 655848

D: 240-224130-E-2 MS	Client Sample ID: Matrix Spike
	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 9.76 ug/L 98 20 - 180

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QC Sample Results

Client: Arcadis US Inc. Job ID: 240-224127-1

Project/Site: Ford LTP

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

%Recovery Qualifier

83

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	79		68 - 127

Lab Sample	e ID: 24	0-224130	-E-2 MSD

Matrix: Water

Surrogate

Analysis Batch: 655848

1,2-Dichloroethane-d4 (Surr)

	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	9.74		ug/L		97	20 - 180	0	20
	MSD	MSD									

Limits

68 - 127

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

QC Association Summary

Client: Arcadis US Inc. Job ID: 240-224127-1 Project/Site: Ford LTP

GC/MS VOA

Analysis Batch: 655848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224127-2	MW-193S_050625	Total/NA	Water	8260D SIM	
MB 240-655848/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-655848/2	Lab Control Sample	Total/NA	Water	8260D SIM	
240-224130-E-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-224130-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 656137

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bate
240-224127-1	TRIP BLANK_67	Total/NA	Water	8260D	
MB 240-656137/10	Method Blank	Total/NA	Water	8260D	
LCS 240-656137/5	Lab Control Sample	Total/NA	Water	8260D	
LCS 240-656137/6	Lab Control Sample	Total/NA	Water	8260D	
240-224130-C-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-224130-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 656215

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-224127-2	MW-193S_050625	Total/NA	Water	8260D	_
MB 240-656215/6	Method Blank	Total/NA	Water	8260D	
LCS 240-656215/2	Lab Control Sample	Total/NA	Water	8260D	
LCSD 240-656215/3	Lab Control Sample Dup	Total/NA	Water	8260D	
240-224135-A-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-224135-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-224127-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_67

Lab Sample ID: 240-224127-1 Date Collected: 05/06/25 00:00

Matrix: Water

Date Received: 05/09/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	656137	AJS	EET CLE	05/15/25 20:58

Client Sample ID: MW-193S_050625 Lab Sample ID: 240-224127-2

Date Collected: 05/06/25 09:55 Matrix: Water

Date Received: 05/09/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	656215	AJS	EET CLE	05/16/25 07:32
Total/NA	Analysis	8260D SIM		1	655848	R5XG	EET CLE	05/14/25 04:20

Laboratory References:

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

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Accreditation/Certification Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-224127-1

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	r 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			

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Chain of Custody Record

TestAmerica Laboratory location: Farmington Hills --- 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331

1/32

Client Contact	Regulat	ory program		ים ה	w	☐ NP	DES	1	RC	RA	┌ (Other			cope resonance (ex-	promise an inte	onge to selection								
Company Name: Arcadis	Client Project	Client Project Manager: Megan Meckley			Site Co	Site Contact: Samantha Szpaichler						Lab	Conta	ct: Mi	ce Del	Monic	0		+			estAmerica I	_aboratories.	Inc.	
Address: 28550 Cabot Drive, Suite 500	T-1	004 3340				<u></u>						-	T.J. 220 407 0206						+			ᅴ			
City/State/Zip: Novi, MI, 48377	1 elephone: 248-	Telephone: 248-994-2240			1 elepho	Telephone: 248-994-2240					1 ele	Telephone: 330-497-9396							1 of 1	COCs	ゴ				
Phone: 248-994-2240	Email: megan.r	neckley@arca	dis.com			An	llysis I	Turnai	round 1	ime		-		Analyses						F	or lab use only				
I-none: 248-994-2240	Sampler Name:					TATifd	fferent fr	from belo	ow		1 1											ν	Valk-in client	H	
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Project Number: 30251157.401.04	Method of Ship		,			10 d	ay	€ 1	week days		2	۲		8			۵	SIM					ab sampling		
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Coolant (Circle)	Corrected Temp °C	Observed Corrected Temp °C Temp °C	IR Gun # (Circle)	Cooler Description (Circle)	Coole

Login#

Temperature readings

Login Container Summary Report

240-224127

Client Sample ID	<u>Lab ID</u>	Container Type	Container Preservation Preservation pH Temp Added Lot Number
TRIP BLANK_67	240-224127-A-1	Voa Viał 40ml - Hydrochloric Acid	
MW-193S_050625	240-224127-A-2	Voa Vıal 40ml - Hydrochloric Acid	
MW-193S_050625	240-224127-B-2	Voa Vial 40ml - Hydrochloric Acid	***************************************
MW-193S_050625	240-224127-C-2	Voa Vial 40ml - Hydrochloric Acid	Automotivation and a second and
MW-193S_050625	240-224127-D-2	Voa Vial 40ml - Hydrochloric Acid	
MW-193S_050625	240-224127-E-2	Voa Vial 40ml - Hydrochloric Acid	The state of the s
MW-193S_050625	240-224127-F-2	Voa Vial 40ml - Hydrochloric Acid	

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Page 1 of 1

DATA VERIFICATION REPORT



May 19, 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: 224127-1 Sample date: 2025-05-06

Report received by CADENA: 2025-05-19

Initial Data Verification completed by CADENA: 2025-05-19

Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC

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

There were no significant QC anomalies or exceptions to report.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, 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 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: 224127-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BL/ 240224 5/6/202	1271 5			MW-193 240224 5/6/202	1272 5	25	
	Analyte	Cas No.	Result	Report Limit	Unite	Valid Qualifier	Pocult	Report	Unite	Valid Qualifier
	Allatyte	Cas No.	nesutt	Lilling	Oilits	Quanner	nesutt	Lilling	Oilits	Quantier
GC/MS VOC										
OSW-8260	<u>)D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-8260	<u>DDSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-224127-1

CADENA Verification Report: 2025-05-19 Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 59606R Review Level: Tier III Project: 30251157.401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-224127-1 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	raient Sample	voc	VOC SIM
TRIP BLANK_67	240-224127-1	Water	05/06/2025		Х	
MW-193S_050625	240-224127-2	Water	05/06/2025		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	
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Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Febin J S

SIGNATURE:

DATE: June 13, 2025

PEER REVIEW: Andrew Korycinski

DATE: June 16, 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

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Client Contact	Regulat	ory program		ים ה	w	☐ NP	DES	1	RC	RA	┌ C	Other			gu manmani m.	and the second	ongo to parl messare								
Company Name: Arcadis	Client Project	danager: Meg	an Mecki	ley		Site Co	ntact:	Samai	ntha Sz	paichler			Lab	Contac	t: Mil	e Del	Monic	0		-			stAmerica DC No:	Laboratorio	es, Inc.
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	004 3340				<u></u>		10.001	22.40				- T.		220 4					_		+			
City/State/Zip: Novi, MI, 48377	1 elephone: 248-	994-2240				Telepho	ne: 24	18-994	-2240				lele	phone:	330-1	97-93	10					上	1 of 1	COC	s
Phone: 248-994-2240	Email: megan.r	neckley@arca	dis.com			An	llysis I	Turnai	round 1	ime		_		_		A	nalys	es				Fo	r lab use only		
I-none: 248-994-2240	Sampler Name:					TATifd	fferent fr	from belo	ow													w	alk-in client		-
Project Name: Ford LTP		ch Do	ر مرمر	ie				□ 3	weeks weeks																
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Definitions/Glossary

Client: Arcadis US Inc.

Job ID: 240-224127-1

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-224127-1

Project/Site: Ford LTP

Date Received: 05/09/25 08:00

Client Sample ID: TRIP BLANK_67

Lab Sample ID: 240-224127-1 Date Collected: 05/06/25 00:00

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 1.0 1,1-Dichloroethene 1.0 U 0.49 ug/L 05/15/25 20:58 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 05/15/25 20:58 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 05/15/25 20:58 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 05/15/25 20:58 Trichloroethene 1.0 U 1.0 0.44 ug/L 05/15/25 20:58 Vinyl chloride 0.45 ug/L 1.0 U 1.0 05/15/25 20:58 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 112 62 - 137 05/15/25 20:58 4-Bromofluorobenzene (Surr) 89 05/15/25 20:58 56 - 136 78 - 122 05/15/25 20:58 Toluene-d8 (Surr) 101 Dibromofluoromethane (Surr) 108 73 - 120 05/15/25 20:58

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-224127-1

Project/Site: Ford LTP

Client Sample ID: MW-193S_050625

Date Collected: 05/06/25 09:55 Date Received: 05/09/25 08:00

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Lab Sample ID: 240-224127-2

05/16/25 07:32

05/16/25 07:32

05/16/25 07:32

05/16/25 07:32

Matrix: Water

Method: SW846 8260D SIM - '	Volatile 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			05/14/25 04:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		68 - 127			-		05/14/25 04:20	1
- Method: SW846 8260D - Volat	tile 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			05/16/25 07:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/16/25 07:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/16/25 07:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/16/25 07:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/16/25 07:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/16/25 07:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

62 - 137

56 - 136

78 - 122

73 - 120

110

90

101

PREPARED FOR

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

Generated 5/12/2025 7:31:39 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-223790-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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

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

Laboratory Job ID: 240-223790-1

Table of Contents

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Definitions/Glossary

Client: Arcadis US Inc.

Job ID: 240-223790-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*_	LCS and/or LCSD is outside acceptance limits, low biased.
	la disease the complete company of the book and detected

J 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 Quantitatio

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

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Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-223790-1 Eurofins Cleveland

Job Narrative 240-223790-1

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 5/7/2025 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 2.7°C and 2.9°C.

GC/MS VOA

Method 8260D: No Parent, MS, and MSD due to instrument stopping.

TRIP BLANK_18 (240-223790-1)

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-655302 was outside the method criteria for the following analyte(s): Tetrachloroethene and Vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The laboratory control sample (LCS) analyzed in batch 240-655302 was below the recovery control criteria for the following analyte(s): Tetrachloroethene. This variance only affects results measured above the reporting limit. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. This demonstrates the analyte reporting limit is valid, and it is acceptable to report ND results (non-detects). The samples associated with the LCS were non-detects for the affected analytes; therefore, the results were reported. The following samples are impacted: TRIP BLANK_18 (240-223790-1) and (LCS 240-655302/4).

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

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Job ID: 240-223790-1

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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-223790-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CLE
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET CLE
5030C	Purge and Trap	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

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Sample Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-223790-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-223790-1	TRIP BLANK_18	Water	05/02/25 00:00	05/07/25 08:00
240-223790-2	MW-89S_050225	Water	05/02/25 09:35	05/07/25 08:00

Detection Summary

Client: Arcadis US Inc. Job ID: 240-223790-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_18 Lab Sample ID: 240-223790-1

No Detections.

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
cis-1,2-Dichloroethene	2.5	1.0	0.46 ug/L	1	8260D	Total/NA

1

4

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-223790-1

Project/Site: Ford LTP

Date Received: 05/07/25 08:00

Client Sample ID: TRIP BLANK_18

Lab Sample ID: 240-223790-1 Date Collected: 05/02/25 00:00

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 1.0 1,1-Dichloroethene 1.0 U 0.49 ug/L 05/09/25 03:36 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 05/09/25 03:36 Tetrachloroethene 1.0 U *-1.0 0.44 ug/L 05/09/25 03:36 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 05/09/25 03:36 Trichloroethene 1.0 U 1.0 0.44 ug/L 05/09/25 03:36 Vinyl chloride 0.45 ug/L 1.0 U 1.0 05/09/25 03:36 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 92 62 - 137 05/09/25 03:36 4-Bromofluorobenzene (Surr) 83 05/09/25 03:36 56 - 136 92 78 - 122 05/09/25 03:36 Toluene-d8 (Surr) Dibromofluoromethane (Surr) 97 73 - 120 05/09/25 03:36

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-223790-1

Project/Site: Ford LTP

Client Sample ID: MW-89S_050225

Lab Sample ID: 240-223790-2 Date Collected: 05/02/25 09:35

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			05/08/25 17:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			68 - 127			_		05/08/25 17:05	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		68 - 127			-		05/08/25 17:05	1
- Method: SW846 8260D - Volati	ile 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			05/08/25 19:06	1
cis-1,2-Dichloroethene	2.5		1.0	0.46	ug/L			05/08/25 19:06	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/08/25 19:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/08/25 19:06	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/08/25 19:06	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/08/25 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		62 - 137			-		05/08/25 19:06	1
	2.4		50 400					05/00/05 10 00	

Surrogate	%Recovery C	Qualifier Lin	nits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92	62	- 137		05/08/25 19:06	1
4-Bromofluorobenzene (Surr)	81	56	- 136		05/08/25 19:06	1
Toluene-d8 (Surr)	90	78	- 122		05/08/25 19:06	1
Dibromofluoromethane (Surr)	95	73	- 120		05/08/25 19:06	1

Surrogate Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-223790-1

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)
240-223790-1	TRIP BLANK_18	92	83	92	97
240-223790-2	MW-89S_050225	92	81	90	95
240-223800-D-3 MSD	Matrix Spike Duplicate	90	91	95	95
240-223800-E-3 MS	Matrix Spike	100	91	94	98
LCS 240-655247/5	Lab Control Sample	97	90	93	96
LCS 240-655302/4	Lab Control Sample	98	90	94	99
MB 240-655247/9	Method Blank	97	85	91	96
MB 240-655302/8	Method Blank	94	84	93	98

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)	
240-223703-A-5 MS	Matrix Spike	113	
240-223703-A-5 MSD	Matrix Spike Duplicate	116	
240-223790-2	MW-89S_050225	111	
LCS 240-655190/4	Lab Control Sample	107	
MB 240-655190/6	Method Blank	109	

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

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Client: Arcadis US Inc. Job ID: 240-223790-1

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

Lab Sample ID: MB 240-655247/9

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 655247

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 05/08/25 14:14 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 05/08/25 14:14 1.0 U 1.0 0.44 ug/L 05/08/25 14:14 Tetrachloroethene trans-1,2-Dichloroethene 1.0 U 1.0 05/08/25 14:14 0.51 ug/L Trichloroethene 1.0 U 1.0 0.44 ug/L 05/08/25 14:14 Vinyl chloride 1.0 U 1.0 0.45 ug/L 05/08/25 14:14

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137		05/08/25 14:14	1
4-Bromofluorobenzene (Surr)	85		56 - 136		05/08/25 14:14	1
Toluene-d8 (Surr)	91		78 - 122		05/08/25 14:14	1
Dibromofluoromethane (Surr)	96		73 - 120		05/08/25 14:14	1

Lab Sample ID: LCS 240-655247/5

Matrix: Water

Analysis Batch: 655247

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	12.5	10.8	-	ug/L		86	63 - 134	
cis-1,2-Dichloroethene	12.5	11.1		ug/L		89	77 - 123	
Tetrachloroethene	12.5	11.5		ug/L		92	76 - 123	
trans-1,2-Dichloroethene	12.5	11.5		ug/L		92	75 - 124	
Trichloroethene	12.5	11.4		ug/L		91	70 - 122	
Vinyl chloride	12.5	9.98		ug/L		80	60 - 144	

LCS LCS

Surrogate	%Recovery Quality	ier Limits
1,2-Dichloroethane-d4 (Surr)	97	62 - 137
4-Bromofluorobenzene (Surr)	90	56 ₋ 136
Toluene-d8 (Surr)	93	78 - 122
Dibromofluoromethane (Surr)	96	73 - 120

Lab Sample ID: 240-223800-D-3 MSD

Matrix: Water

Analysis Batch: 655247

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	1.0	U	12.5	10.2		ug/L		82	56 - 135	0	26
cis-1,2-Dichloroethene	1.0	U	12.5	10.4		ug/L		83	66 - 128	3	14
Tetrachloroethene	1.0	U	12.5	10.1		ug/L		81	62 - 131	7	20
trans-1,2-Dichloroethene	1.0	U	12.5	10.3		ug/L		83	56 - 136	8	15
Trichloroethene	1.0	U	12.5	10.5		ug/L		84	61 - 124	8	15
Vinyl chloride	1.0	U	12.5	8.90		ug/L		71	43 - 157	2	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		62 - 137
4-Bromofluorobenzene (Surr)	91		56 - 136
Toluene-d8 (Surr)	95		78 ₋ 122

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Client: Arcadis US Inc. Job ID: 240-223790-1

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

Lab Sample ID: 240-223800-D-3 MSD

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 655247

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

MSD MSD

%Recovery Qualifier Surrogate Limits Dibromofluoromethane (Surr) 95 73 - 120

Lab Sample ID: 240-223800-E-3 MS

Matrix: Water

Analysis Batch: 655247

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	1.0	U	12.5	10.3		ug/L		82	56 - 135	
cis-1,2-Dichloroethene	1.0	U	12.5	10.1		ug/L		80	66 - 128	
Tetrachloroethene	1.0	U	12.5	9.49		ug/L		76	62 - 131	
trans-1,2-Dichloroethene	1.0	U	12.5	9.58		ug/L		77	56 - 136	
Trichloroethene	1.0	U	12.5	9.72		ug/L		78	61 - 124	
Vinyl chloride	1.0	U	12.5	9.09		ug/L		73	43 - 157	

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		62 - 137
4-Bromofluorobenzene (Surr)	91		56 - 136
Toluene-d8 (Surr)	94		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

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

Matrix: Water

Analysis Batch: 655302

Lab Sample ID: MB 240-655302/8

MB MB

l .									
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 02:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/09/25 02:48	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/09/25 02:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/09/25 02:48	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/09/25 02:48	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/09/25 02:48	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137		05/09/25 02:48	1
4-Bromofluorobenzene (Surr)	84		56 - 136		05/09/25 02:48	1
Toluene-d8 (Surr)	93		78 - 122		05/09/25 02:48	1
Dibromofluoromethane (Surr)	98		73 - 120		05/09/25 02:48	1

Lab Sample ID: LCS 240-655302/4

Matrix: Water

Analysis Batch: 655302

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	12.5	11.2		ug/L		90	63 - 134
cis-1,2-Dichloroethene	12.5	10.5		ug/L		84	77 - 123
Tetrachloroethene	12.5	9.18	*-	ug/L		73	76 - 123
trans-1,2-Dichloroethene	12.5	9.96		ug/L		80	75 - 124
Trichloroethene	12.5	10.4		ug/L		84	70 - 122

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5/12/2025

Client: Arcadis US Inc. Job ID: 240-223790-1

Project/Site: Ford LTP

Lab Sample ID: LCS 240-655302/4 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA Analysis Batch: 655302

			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Vinyl chloride			12.5	9.23		ug/L		74	60 - 144	
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							

		LCS	LCS	
Surrogate		%Recovery	Qualifier	Limits
1,2-Dichloroetha	ne-d4 (Surr)	98		62 _ 137
4-Bromofluorobe	enzene (Surr)	90		56 ₋ 136
Toluene-d8 (Surr	r)	94		78 - 122
Dibromofluorome	ethane (Surr)	99		73 - 120

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

Lab Sample ID: MB 240-655190/6 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 655190

Allalysis Datell. 000 100									
	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 10:03	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		68 - 127			_		05/08/25 10:03	1

Lab Sample ID: LCS 240-655190/4 **Client Sample ID: Lab Control Sample Matrix: Water** Prep Type: Total/NA

Analysis Batch: 655190

	Sį	ike LC					%Rec	
Analyte	Ad	ded Resu	lt Qualifier	Unit	D	%Rec	Limits	
1.4-Dioxane		0.0 7.9	7 ———— 7	ua/L	_	80	75 - 121	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		68 - 127

Lab Sample ID: 240-223703-A-5 MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Water

Analysis Batch: 655190

,	Sample Sample	Spike	MS	MS				%Rec
Analyte	Result Qualifie	r Added	Result	Qualifier	Unit	D	%Rec	Limits
1,4-Dioxane	2.0 U	10.0	8.18		ug/L		82	20 - 180

1,4-Dioxane	2.0	U	10.0	8.18	ug/L
	MS	MS			
Surrogate	%Recovery	Qualifier	Limits		
1,2-Dichloroethane-d4 (Surr)	113		68 - 127		

Lab Sample ID: 240-223703-A-5 MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Analysis Batch: 655190

	Sample	Sample	Spike	MSD	MSD			%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	8.65		ug/L	86	20 - 180	6	20

Eurofins Cleveland

Prep Type: Total/NA

5/12/2025

QC Sample Results

Client: Arcadis US Inc. Job ID: 240-223790-1 Project/Site: Ford LTP

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

Lab Sample ID: 240-223703-A-5 MSD

Matrix: Water

Analysis Batch: 655190

MSD MSD

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 116 68 - 127 **Client Sample ID: Matrix Spike Duplicate**

Prep Type: Total/NA

QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-223790-1

GC/MS VOA

Analysis Batch: 655190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep	Batch
240-223790-2	MW-89S_050225	Total/NA	Water	8260D SIM	
MB 240-655190/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-655190/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-223703-A-5 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-223703-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 655247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223790-2	MW-89S_050225	Total/NA	Water	8260D	
MB 240-655247/9	Method Blank	Total/NA	Water	8260D	
LCS 240-655247/5	Lab Control Sample	Total/NA	Water	8260D	
240-223800-D-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
240-223800-E-3 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 655302

Lab Sample ID 240-223790-1	Client Sample ID TRIP BLANK_18	Prep Type Total/NA	Water	Method 8260D	Prep Batch
MB 240-655302/8	Method Blank	Total/NA	Water	8260D	
LCS 240-655302/4	Lab Control Sample	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-223790-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_18

Lab Sample ID: 240-223790-1 Date Collected: 05/02/25 00:00

Matrix: Water

Date Received: 05/07/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	655302	R5XG	EET CLE	05/09/25 03:36

Client Sample ID: MW-89S_050225 Lab Sample ID: 240-223790-2

Date Collected: 05/02/25 09:35 Matrix: Water

Date Received: 05/07/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	655247	R5XG	EET CLE	05/08/25 19:06
Total/NA	Analysis	8260D SIM		1	655190	R5XG	EET CLE	05/08/25 17:05

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: 240-223790-1

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

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Chain of Custody Record

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Tes	tAmerica Labor:	atory location:	Far	mingto	n Hills	388	55 Hills	Tec	h Dri	ve, S	Suite	600, F	armin	gton	Hills	4833	1								1	THE LEADER IN ENVIRO	NMENTAL TE	ESTING
Client Contact	Regular	tory program:			- DW	v	F 2	NPD	ES		_ F	RCRA		<u>-</u> (Other			i-telev	**********	-	confeet at	endant.						
Company Name: Arcadis	Client Project	Manager: Meg	an M	eckley			Site C	Cont	act: S	Sama	ntha	Szpaic	chler			li	ab C	ntac	t: Mil	e Del	Monic	0	—		-	TestAmerica La	boratories	s, Inc.
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	*					Telep									\perp	eleph								-			
City/State/Zip: Novi, MI, 48377												d Time		_			СССР	one.	330-4		naiy	06			_	1 of 1	COCs	
Phone: 248-994-2240	Email: megan.	meckley@arca	dis.co	m				Mary	313 1	W 11.2	i ven	u rnuc				Т	- 1		-	_^	mary:		\neg	-	+	For lab use only		
Project Name: Ford LTP	Sampler Name		M	W . 46			TAT			□ 3	wee		\exists													Walk-in client		
Project Number: 30251157.401.04	Method of Ship	oment/Carrier:	111	μ.)		┨ 10	day			wee	k		وا	ي			۵				SIM				Lab sampling		
PO # US3460023914	Shipping/Track	king No:					1			T 1	day:	•		le (V/)	/Grab	ا ۾	7560D	E 8260			8260D	8260D S				Job/SDG No:		
					Matrix			Cont	ainera	3 & P	reser	ratives	=	Samp	lte=C	8260	OCE 8	2-DC	30D	30D	loride	ane 8						
Sample Identification	Sample Date	Sample Time	٦Ļ	Aqueous	Sediment	Other:	112504	HNO3	I]	NaOH	NaOH 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 8260D	Vinyl Chloride	1,4-Dioxane				Sample Spec Special Ins		′
TRIP BLANK_				1					1				Ī	N	G	x	X	X	X	Х	Х					1 Trip Blar	nk	
TRIP BLANK_ \8	15/02/18	9:35		Ç					Ġ					N	t i	K	Y	χ	×	7	X	Y				3 VOAs for 8 3 VOAs for 8		IM
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Possible Hazard Identification Non-Hazard Tammable sin Irrita	ınt Poiso	on B	Jnk	nown	'	•	Sa		Disp				be ass						ed lo		han 1	month) Mo	nths					
Special Instructions/QC Requirements & Comments: Submit all results through Cadena at jtomalia@cadenac	40 Beac	<i>on</i>																										
Level IV Reporting requested.	o.com. Cadena wi	203726																										
Relinquished by: J. My(s)	Company:	adi3		Date/	1021	125	14	130	,	Recei	ved b	y:	(0)	ld	5	ton	IIL.			Comp		rack.	5			Date/Time:	14:3	SO
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5/12/2025

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VOA Sample Preservation - Date/Time VOAs Frozen:	VOA Sa
Sample(s)were further preserved in the laboratory. Time preserved:Preservative(s) added/Lot number(s):were further preserved in the laboratory.	Sample(s) Time pres
20. SAMPLE PRESERVATION	20. SAI
19. SAMPLE CONDITION were received after the recommended holding time had expired. were received after the recommended holding time had expired. were received in a broken container. were received with bubble > 6 mm in diameter. (Notify PM)	19. SAMI Sample(s) Sample(s) Sample(s)
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Ladditional next page Labeled by: ///////////////////////////////////	18. CH
reming	Concerning
Contacted PM Date by via Verbal Voice Mail Other	Contacto
Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #Yes No Was a LL Hg or Me Hg trip blank present?	
Were VOAs on the COC? Were VOAs on the COC? Were VOAs on the COC?	13. Wer 14. We
11. Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC? 15 yes Onestions 13-17 have been checked at the originating laborator.	12. Are
), # of containers(YN), and san	9. For a
Were the custody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC? **Eee No	
<u> </u>	
promised? Yes No NA	
d d	2. Wer
IR GUN # / (CF 7.5 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C	
Cooler temperature upon receipt ,	1. Coo
sed: Bubble Wrap Foam Plastic Bag	Pac
Receipt After-hours: Drop-off Date/Time Storage Location Eurofins Cooler # Foam Box Client Cooler Box Other	Receipt Eurofins
kp_UPS_FAS (Waypoint) Client Drop Off E	FedEx: 1
Chient Mr Cod'S Site Name Cooler unpacked by: Cooler Received on 5-7-25 Onened on 5-7-25	Client
ample Receipt Form/NarrativeLogin # !: "	Eurofin Barbert

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Wellice Bluelice Drylice Water None							
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e Ice None	がめ		IR GUN #: [3	Other	Box	Client	E.
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		Observed Temp °C	IR Gun # (Circle) IR GUN #: IR GUN #: IR GUN #:	iption Other Other		Desci lircle lo lo	

5/7/2025

Login Container Summary Report

240-223790

Temperature readings.

MW-89S_050225	MW-89S_050225	MW-89S_050225	MW-89S_050225	MW-89S_050225	MW-89S_050225	TRIP BLANK_18	Client Sample ID	
240-223790-F-2	240-223790-E-2	240-223790-D-2	240-223790-C-2	240-223790-B-2	240-223790-A-2	240-223790-A-1	<u>Lab ID</u>	
Voa Vial 40ml - Hydrochloric Acid	Container Type							
							Container Preservation Preservation pH Temp Added Lot Number	

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Chain of Custody Record

TestAmerica
The LEADER IN ENVIRONMENTAL TEBTING

TestA	merica Labora	tory location:	Harn	nington	Hills -	3885	5 Hill	siec	n Dri	ve, S	suite 6	500, F	Farmır	ngtor	n Hills	483	31				_				80	HE LEADER IN ENVI	RONMENTAL	TESTING
Client Contact	Regulat	ory program:		Г	DW			NPD	ES		┌ R	CRA		5	Other	r				and the same		~ ~ ~ ~						
Company Name: Arcadis	Client Project !	Manager: Mega	nn Mo	ckley			Site	Cont	act: 5	Sama	ntha	Szpal	ichler			_	Lab C	ontac	t: Mik	c Dell	Monic	0	—			TestAmerica I	aboratori	es, Inc.
Address: 28550 Cabot Drive, Suite 500	<u> </u>	,					L									_												
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240					Tele	phon	e: 24	8-99-	4-2240)					Telep	hone:	330-49	97-939	96					1 of 1	COC	×
	Email: megan.r	neckley@arcad	dis.co	m				Anal	ysis I	Ú)	rous	Tim	E							Α	nalys	es				For lab use only		
Phone: 248-994-2240	Sumpler Nume:		_		_		TAT	r ir diff	crent fr	om he	low	_														Walk-in client		
Project Name: Ford LTP) ecom	W	V115				0 da		□ 3	3 week 2 week															Lab sampling		
Project Number: 30251157.401.04	Method of Ship	ment/Carrier:		-			1		,	Γ :	l week	•		2	9			8				SIM				Car manping		
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Sample Identification	Sample Date	Sample Time	Nr.	Aqueous	PileS	Other:	112504	HNO3	HCI	HOH	Zalo NaOH	Japres Jiher:		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 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM					pecific Note	
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TRIP BLANK_ \8				1					1					Ν	G	Х	Х	Х	Х	Х	Х					1 Trip Bl	ank	
MU-895_050225	15/02/18	9:35		6					6					N	Ł	7	Y	χ	×	1	X	Y				3 VOAs fo		SIM
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Possible Hazard Identification Non-Hazard flammable in Irritant	☐ Poisc	on B	Jnk	nown	1	J	s				l (A f		y be a						ned lo		han 1		n) onths			-		
Special Instructions/OC Requirements & Comments:	. 0																									- · <u>-</u>		
Submit all results through Cadena at Jtomalia@cadenaco. Level IV Reporting requested.	O () 64 Com, Cadena #E	203728																										
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5/7/2025

Login Container Summary Report

240-223790

TRIP BLANK_18 MW-89S_050225 MW-89S_050225 MW-89S_050225 MW-89S_050225 MW-89S_050225 MW-89S_050225 Client Sample ID Temperature readings 240-223790-E-2 240-223790-D-2 240-223790-C-2 240 223790-B-2 Lab ID 240-223790-F-2 240-223790-A-2 240-223790-A-1 Voa Vial 40ml - Hydrochloric Acid Container Type Container pH Temp Temp Preservation Preservation Added Lot Number

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Page 1 of 1

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: 223790-1 Sample date: 2025-05-02

Report received by CADENA: 2025-05-12

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

Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC

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

The following minor QC exceptions or missing information were noted:

LCS - GCMS VOC QC batch LCS recovery was outlying biased low for the following analyte: TETRACHLOROETHENE. The following client sample results should be considered to be estimated and qualified with a UJ flag if non-detect: -001.

GCMS VOC QC batch CCV response outliers as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

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 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.

Qualified Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 223790-1

Sample Name: TRIP BLANK_18 Lab Sample ID: 2402237901

Sample Date: 5/2/2025

Report Valid

Analyte Cas No. Result Limit Units Qualifier

GC/MS VOC

OSW-8260D

Tetrachloroethene 127-18-4 ND 1.0 ug/l UJ

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 223790-1

		Sample Name:	TRIP BL	ANK_18			MW-899	S_05022	.5	
		Lab Sample ID:	240223	7901			240223	7902		
		Sample Date:	5/2/202	5			5/2/202	25		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260	<u>0D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		2.5	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l	UJ	ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-8260	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-223790-1

CADENA Verification Report: 2025-05-12

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 59458R Review Level: Tier III Project: 30251157.401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-223790-1 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	ysis	
Salliple ID	Labib	IVIALITIX	Collection Date	raieiit Saiiipie	voc	VOC SIM	
TRIP BLANK_18	240-223790-1	Water	05/02/2025		Х		
MW-89S_050225	240-223790-2	Water	05/02/2025		X	X	

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Perfor Accep	mance otable	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		
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 calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample ID	Initial /Continuing	Compound	CCV (%D)
TDID DI ANIZ 40	Continuing Calibration Verification %D	Vinyl chloride	-24.5%
TRIP BLANK_18	Continuing Calibration Verification %D	Tetrachloroethene	-24.0%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification				
	RRF <0.05	Non-detect	R				
	RRF <0.05	Detect	J				
Initial and Continuing Calibration	DDE 40 041	Non-detect	R				
Calibration	RRF <0.01 ¹	Detect					
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action				

Initial/Continuing	Criteria	Sample Result	Qualification			
		Detect				
	%RSD > 20% or a correlation coefficient <0.99	Non-detect	UJ			
Initial Calibration	%RSD > 20% of a correlation coefficient <0.99	Detect	J			
	0/ DCD > 000/	Non-detect	R			
	%RSD > 90%	Detect	J			
	0/ D > 200/ (in an ana in an aiti it)	Non-detect	UJ			
	%D >20% (increase in sensitivity)	Detect	J			
Continuina Calibration	0/ D > 200/ (daaraaaa in aanaiti ita)	Non-detect	UJ			
Continuing Calibration	%D >20% (decrease in sensitivity)	>20% (decrease in sensitivity) Detect				
	0/ D > 000/ (in an and identity)	Non-detect	R			
	%D > 90% (increase/decrease in sensitivity)	Detect	J			

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.

All identified compounds met the specified criteria.

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

VOCs: 8260D/8260D-SIM	Rep	orted	Perfor Acce	Not Required	
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation			·		
System performance and column resolution		X		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х	Х		
Instrument tune and performance check		Х		Х	
lon abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	X				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	
•• .					

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Febin J S

SIGNATURE:

DATE: June 4, 2025

PEER REVIEW: Andrew Korycinski

DATE: June 6, 2025

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record

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Address: 28550 Cabot Drive, Suite 500	Telephone: 248	*					Telephone: 248-994-2240 Telephone: 330-497-9396																					
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Special Instructions/QC Requirements & Comments: Submit all results through Cadena at jtomalia@cadenac.	40 Beac	<i>on</i>																										
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5/12/2025

R

Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-223790-1 Project/Site: Ford LTP

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*_	LCS and/or LCSD is outside acceptance limits, low biased.
	la disease the complete company of the book and detected

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

Contains Free Liquid CFL CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dilution Factor Dil Fac

Detection Limit (DoD/DOE) DL

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCI MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML MPN Most Probable Number MQL Method Quantitation Limit

Not Calculated NC

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) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Page 4 of 26

5/12/2025

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-223790-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_18

Date Received: 05/07/25 08:00

Lab Sample ID: 240-223790-1 Date Collected: 05/02/25 00:00

Matrix: Water

Method: SW846 8260D - Volati Analyte	•	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
1.1-Dichloroethene	1.0		1.0		ug/L	— <u>-</u> -	Tropulou	05/09/25 03:36	1
cis-1,2-Dichloroethene	1.0		1.0		ug/L			05/09/25 03:36	1
Tetrachloroethene	1.0	U*- UJ	1.0	0.44	ug/L			05/09/25 03:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/09/25 03:36	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/09/25 03:36	1
Vinyl chloride	1.0	₩ UJ	1.0	0.45	ug/L			05/09/25 03:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		62 - 137			-		05/09/25 03:36	1
4-Bromofluorobenzene (Surr)	83		56 ₋ 136					05/09/25 03:36	1
Toluene-d8 (Surr)	92		78 - 122					05/09/25 03:36	1
Dibromofluoromethane (Surr)	97		73 - 120					05/09/25 03:36	1

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-223790-1

Project/Site: Ford LTP

Client Sample ID: MW-89S_050225

Lab Sample ID: 240-223790-2 Date Collected: 05/02/25 09:35

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			05/08/25 17:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			68 - 127			_		05/08/25 17:05	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		68 - 127			-		05/08/25 17:05	1
- Method: SW846 8260D - Volati	ile 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			05/08/25 19:06	1
cis-1,2-Dichloroethene	2.5		1.0	0.46	ug/L			05/08/25 19:06	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/08/25 19:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/08/25 19:06	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/08/25 19:06	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/08/25 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		62 - 137			-		05/08/25 19:06	1
	2.4		50 400					05/00/05 10 00	

Surrogate	%Recovery C	Qualifier Lin	nits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92	62	- 137		05/08/25 19:06	1
4-Bromofluorobenzene (Surr)	81	56	₋ 136		05/08/25 19:06	1
Toluene-d8 (Surr)	90	78	- 122		05/08/25 19:06	1
Dibromofluoromethane (Surr)	95	73	- 120		05/08/25 19:06	1