ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 2/27/2025 7:08:45 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-219307-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

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Job Notes

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Authorization

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

Laboratory Job ID: 240-219307-1

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-219307-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA	
Qualifier	Qualifier Description

S1+ Surrogate recovery exceeds control limits, high biased.
U Indicates the analyte was analyzed for but not detected.

Glossary

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)

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: 240-219307-1 Eurofins Cleveland

Job Narrative 240-219307-1

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

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

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

Receipt

The samples were received on 2/22/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C.

GC/MS VOA

Method 8260D: Surrogate recovery for the following samples were outside the upper control limit: TRIP BLANK_19 (240-219307-1), MW-97S_022025 (240-219307-2) and MW-96S_022025 (240-219307-3). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219307-1

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: 240-219307-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-219307-1	TRIP BLANK_19	Water	02/20/25 00:00	02/22/25 08:00
240-219307-2	MW-97S_022025	Water	02/20/25 10:55	02/22/25 08:00
240-219307-3	MW-96S_022025	Water	02/20/25 13:20	02/22/25 08:00

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Detection Summary

Project/Site: Ford LTP Client Sample ID: TRIP BLANK_19 Lab Sample ID: 240-219307-1 No Detections. Client Sample ID: MW-97S_022025 Lab Sample ID: 240-219307-2 No Detections. Client Sample ID: MW-96S_022025 Lab Sample ID: 240-219307-3

Job ID: 240-219307-1

No Detections.

Client: Arcadis US Inc.

Client: Arcadis US Inc. Job ID: 240-219307-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_19

Lab Sample ID: 240-219307-1 Date Collected: 02/20/25 00:00

Matrix: Water

Date Received: 02/22/25 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/25/25 18:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/25/25 18:34	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 18:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/25/25 18:34	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 18:34	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/25/25 18:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	131		62 - 137					02/25/25 18:34	1
4-Bromofluorobenzene (Surr)	81		56 ₋ 136					02/25/25 18:34	1
Toluene-d8 (Surr)	93		78 - 122					02/25/25 18:34	1
Dibromofluoromethane (Surr)	132	S1+	73 - 120					02/25/25 18:34	1

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Client: Arcadis US Inc. Job ID: 240-219307-1

Project/Site: Ford LTP

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Client Sample ID: MW-97S_022025

Date Collected: 02/20/25 10:55 Date Received: 02/22/25 08:00 Lab Sample ID: 240-219307-2

02/25/25 22:33

02/25/25 22:33

02/25/25 22:33

02/25/25 22:33

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			02/25/25 21:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		68 - 127			-		02/25/25 21:51	1
- Method: SW846 8260D - Volat	tile Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/25/25 22:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/25/25 22:33	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 22:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/25/25 22:33	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 22:33	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/25/25 22:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

62 - 137

56 - 136

78 - 122

73 - 120

134

76

88

134 S1+

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Client: Arcadis US Inc. Job ID: 240-219307-1

Project/Site: Ford LTP

Client Sample ID: MW-96S_022025

Lab Sample ID: 240-219307-3 Date Collected: 02/20/25 13:20

Matrix: Water

Date Received: 02/22/25 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/25/25 22:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		68 - 127			-		02/25/25 22:14	1
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/25/25 22:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/25/25 22:53	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 22:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/25/25 22:53	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 22:53	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/25/25 22:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	134		62 - 137			-		02/25/25 22:53	1
4-Bromofluorobenzene (Surr)	77		56 ₋ 136					02/25/25 22:53	1
Toluene-d8 (Surr)	85		78 - 122					02/25/25 22:53	1
Dibromofluoromethane (Surr)	134	S1+	73 - 120					02/25/25 22:53	1

Surrogate Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219307-1

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

Matrix: Water Prep Type: Total/NA

				Percent Sui	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-219307-1	TRIP BLANK_19	131	81	93	132 S1+
240-219307-2	MW-97S_022025	134	76	88	134 S1+
240-219307-3	MW-96S_022025	134	77	85	134 S1+
240-219307-3 MS	MW-96S-MS_022025	93	96	90	93
240-219307-3 MSD	MW-96S-MSD_022025	94	101	93	94
LCS 240-646031/4	Lab Control Sample	95	116	108	98
MB 240-646031/9	Method Blank	112	82	89	113

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

		DCA	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(68-127)	
240-219307-2	MW-97S_022025	97	
240-219307-3	MW-96S_022025	100	
240-219307-3 MS	MW-96S-MS_022025	96	
240-219307-3 MSD	MW-96S-MSD_022025	98	
LCS 240-646026/5	Lab Control Sample	100	
MB 240-646026/7	Method Blank	99	

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

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Client: Arcadis US Inc. Job ID: 240-219307-1

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

Lab Sample ID: MB 240-646031/9

Matrix: Water

Analyte

Project/Site: Ford LTP

Analysis Batch: 646031

Client 9	Sample ID: Method Blank	
	Pren Type: Total/NA	

MB MB Dil Fac Result Qualifier RL MDL Unit D Prepared Analyzed 1.0 U 1.0 0.49 ug/L 02/25/25 16:14 1.0 U 1.0 0.46 ug/L 02/25/25 16:14

1,1-Dichloroethene cis-1,2-Dichloroethene 1.0 U Tetrachloroethene 1.0 0.44 ug/L 02/25/25 16:14 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 02/25/25 16:14 Trichloroethene 1.0 U 1.0 0.44 ug/L 02/25/25 16:14 Vinyl chloride 1.0 U 1.0 02/25/25 16:14 0.45 ug/L

MB MB

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112	62 - 13	7	02/25/25 16:14	1
4-Bromofluorobenzene (Surr)	82	56 - 13	5	02/25/25 16:14	1
Toluene-d8 (Surr)	89	78 - 12	2	02/25/25 16:14	1
Dibromofluoromethane (Surr)	113	73 - 12)	02/25/25 16:14	1

Lab Sample ID: LCS 240-646031/4

Matrix: Water

Analysis Batch: 646031

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike	LCS	LCS				%Rec	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
25.0	23.4		ug/L		94	63 - 134	
25.0	25.0		ug/L		100	77 - 123	
25.0	25.1		ug/L		100	76 - 123	
25.0	23.9		ug/L		96	75 - 124	
25.0	24.1		ug/L		96	70 - 122	
25.0	23.8		ug/L		95	60 - 144	
	Added 25.0 25.0 25.0 25.0 25.0 25.0	Added Result 25.0 23.4 25.0 25.0 25.0 25.1 25.0 23.9 25.0 24.1	Added Result Qualifier 25.0 23.4 25.0 25.0 25.0 25.1 25.0 23.9 25.0 24.1	Added Result Qualifier Unit 25.0 23.4 ug/L 25.0 25.0 ug/L 25.0 25.1 ug/L 25.0 23.9 ug/L 25.0 24.1 ug/L	Added Result Qualifier Unit D 25.0 23.4 ug/L ug/L 25.0 25.0 ug/L ug/L 25.0 25.1 ug/L 25.0 23.9 ug/L 25.0 24.1 ug/L	Added Result Qualifier Unit D %Rec 25.0 23.4 ug/L 94 25.0 25.0 ug/L 100 25.0 25.1 ug/L 100 25.0 23.9 ug/L 96 25.0 24.1 ug/L 96	Added Result Qualifier Unit D %Rec Limits 25.0 23.4 ug/L 94 63 - 134 25.0 25.0 ug/L 100 77 - 123 25.0 25.1 ug/L 100 76 - 123 25.0 23.9 ug/L 96 75 - 124 25.0 24.1 ug/L 96 70 - 122

LCS LCS

Surrogate	%Recovery	Qualifier	Limits	
1,2-Dichloroethane-d4 (Surr)	95		62 - 137	
4-Bromofluorobenzene (Surr)	116		56 ₋ 136	
Toluene-d8 (Surr)	108		78 - 122	
Dibromofluoromethane (Surr)	98		73 - 120	

Lab Sample ID: 240-219307-3 MS

Matrix: Water

Analysis Batch: 646031

Client Sample ID: MW-96S-MS_022025 Prep Type: Total/NA

Sample Sample Spike MS MS %Rec Result Qualifier Analyte Added Result Qualifier Limits Unit %Rec 1,1-Dichloroethene 1.0 U 25.0 20.9 ug/L 84 56 - 135 cis-1,2-Dichloroethene 1.0 U 25.0 23.6 ug/L 94 66 - 128 Tetrachloroethene 1.0 U 25.0 197 ug/L 79 62 - 131trans-1,2-Dichloroethene 1.0 U 25.0 22.4 ug/L 89 56 - 136 Trichloroethene 25.0 1.0 U 22.2 ug/L 89 61 - 124 Vinyl chloride 1.0 U 25.0 22.6 43 - 157 ug/L

Surrogate	%Recovery Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93	62 - 137
4-Bromofluorobenzene (Surr)	96	56 - 136
Toluene-d8 (Surr)	90	78 - 122

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Job ID: 240-219307-1

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

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

Lab Sample ID: 240-219307-3 MS

Matrix: Water

Analysis Batch: 646031

Client Sample ID: MW-96S-MS_022025

Prep Type: Total/NA

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 93 73 - 120

Lab Sample ID: 240-219307-3 MSD Client Sample ID: MW-96S-MSD_022025

Matrix: Water

Analysis Batch: 646031

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	25.0	21.5		ug/L		86	56 - 135	3	26
cis-1,2-Dichloroethene	1.0	U	25.0	24.2		ug/L		97	66 - 128	3	14
Tetrachloroethene	1.0	U	25.0	20.9		ug/L		84	62 - 131	6	20
trans-1,2-Dichloroethene	1.0	U	25.0	22.2		ug/L		89	56 - 136	1	15
Trichloroethene	1.0	U	25.0	22.6		ug/L		90	61 - 124	2	15
Vinyl chloride	1.0	U	25.0	22.6		ug/L		91	43 - 157	0	24

MSD MSD Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 94 62 - 137 101 4-Bromofluorobenzene (Surr) 56 - 136 Toluene-d8 (Surr) 93 78 - 122 Dibromofluoromethane (Surr) 94 73 - 120

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

MR MR

Lab Sample ID: MB 240-646026/7

Matrix: Water

Analysis Batch: 646026

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			02/25/25 14:48	1
	МВ	МВ							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 99 68 - 127 02/25/25 14:48

Lab Sample ID: LCS 240-646026/5

Matrix: Water

Analysis Batch: 646026

-		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane		10.0	8.74		ug/L		87	75 - 121	

LCS LCS %Recovery Qualifier Surrogate

Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 100

Lab Sample ID: 240-219307-3 MS Client Sample ID: MW-96S-MS 022025

Matrix: Water

Analysis Batch: 646026

7 7 2	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1.4-Dioxane	2.0	U	10.0	9 84		ua/l		98	20 - 180	

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Prep Type: Total/NA

QC Sample Results

Client: Arcadis US Inc. Job ID: 240-219307-1

Project/Site: Ford LTP

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		68 - 127

Lab Sample ID: 240-219307-3 MSD	Client Sample ID: MW-96S-MSD_022025
Matrix: Water	Prep Type: Total/NA

Analysis Batch: 646026

	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	9.94		ug/L		99	20 - 180	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		68 - 127

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QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219307-1

GC/MS VOA

Analysis Batch: 646026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219307-2	MW-97S_022025	Total/NA	Water	8260D SIM	
240-219307-3	MW-96S_022025	Total/NA	Water	8260D SIM	
MB 240-646026/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-646026/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-219307-3 MS	MW-96S-MS_022025	Total/NA	Water	8260D SIM	
240-219307-3 MSD	MW-96S-MSD_022025	Total/NA	Water	8260D SIM	

Analysis Batch: 646031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
240-219307-1	TRIP BLANK_19	Total/NA	Water	8260D	
240-219307-2	MW-97S_022025	Total/NA	Water	8260D	
240-219307-3	MW-96S_022025	Total/NA	Water	8260D	
MB 240-646031/9	Method Blank	Total/NA	Water	8260D	
LCS 240-646031/4	Lab Control Sample	Total/NA	Water	8260D	
240-219307-3 MS	MW-96S-MS_022025	Total/NA	Water	8260D	
240-219307-3 MSD	MW-96S-MSD_022025	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-219307-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_19

Lab Sample ID: 240-219307-1 Date Collected: 02/20/25 00:00

Matrix: Water

Date Received: 02/22/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	646031	R5XG	EET CLE	02/25/25 18:34

Client Sample ID: MW-97S_022025 Lab Sample ID: 240-219307-2

Date Collected: 02/20/25 10:55 Matrix: Water

Date Received: 02/22/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	646031	R5XG	EET CLE	02/25/25 22:33
Total/NA	Analysis	8260D SIM		1	646026	R5XG	EET CLE	02/25/25 21:51

Client Sample ID: MW-96S_022025 Lab Sample ID: 240-219307-3

Date Collected: 02/20/25 13:20 Matrix: Water

Date Received: 02/22/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	646031	R5XG	EET CLE	02/25/25 22:53
Total/NA	Analysis	8260D SIM		1	646026	R5XG	EET CLE	02/25/25 22:14

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. Job ID: 240-219307-1 Project/Site: Ford LTP

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
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
lowa	State	421	06-01-25
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-27-25
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	04-02-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25



Chain of Custody Record MICHIO

<u>TestAmerica</u>

estAmerica I aboratory location. Farmington Hills — 38855 Hills Tech Drive. Suite 600. Farmington Hills 48331

Client Contact	Regulat	ory program:			DW		□ NE	PDES		_ R	CRA	1	Othe	er											
Company Name: Arcadis	Client Project N	Managan Man	n Maa	Irlan		l	Site Co		. 6	antha	Szpaichl	1			li ab (Contro	t: Mik	a Dall	Annie		_				TestAmerica Laboratories, I COC No:
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City/State/Zip: Novi, MI, 48377	Telephone: 248-	-994-2240					Teleph-	one: 2	48-99	94-2240					Telep	hone:	330-49	7-939	6					-	1 of 1 COCs
	Email: kristoffe	er.hinskey@ar	cadis.co	om			An	alysis	Turn	aroun	Time	1			_			Aı	alys	:s			_		For lab use only
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Q2008, TestAmerica Laboratories, Inc., All rights reserved, TestAmerica & Design ** are trademarks of TestAmerica Laboratories, Inc.

VOA Sample Preservation - Date/Time VOAs Frozen. Time preserved Sample(s) Sample(s) Sample(s) Sample(s) Client HRCADIS Eurofins—Cleveland Sample Receipt Form/Narrative
Barberton Facility . * 19. SAMPLE CONDITION 16. 17 15 00 700 4 'n __ Cooler Received on Concerning Contacted PM 14. 12 Eurofins Cooler# Receipt After-hours Drop-off Date/Time

Eurofins Cooler # C.C. Fram P FedEx: 1st Grd Exp SAMPLE PRESERVATION CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Sufficient quantity received to perform indicated analyses? Was a VOA trip blank present in the cooler(s)? Were all preserved sample(s) at the correct pH upon receipt? Were correct bottle(s) used for the test(s) indicated? For each sample, does the COC specify preservatives (YNN), # of containers Are these work share samples and all listed on the COC? Did all bottles arrive in good condition (Unbroken)? Was/were the person(s) who collected the samples clearly identified on the COC? Shippers' packing slip attached to the cooler(s)? Was a LL Hg or Me Hg trip blank present? Were air bubbles >6 mm in any VOA vials? Were VOAs on the COC? Could all bottle labels (ID/Date/Time) be reconciled with the COC? Were the custody papers relinquished & signed in the appropriate place? Did custody papers accompany the sample(s)? If yes, Questions 13-17 have been checked at the originating laboratory Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity IR GUN# Cooler temperature upon fecespt Packing material used. -Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised? COOLANT 2122125 Wenloe Ę Bubble Wrap
Rlue Ice (CF +),1 Preservative(s) added/Lot number(s): FAS Date Foam Box Waypoint _°C) Observed Cooler Temp. Foam Client Cooler were received after the recommended holding time had expired Dry Ice Opened on_ Site Name Client Drop Off Trip Blank Lot # 6 Plastic Bag were received with bubble >6 mm in diameter (Notify PM) Ã Water 2/22/25 additional next page Box See Multiple Cooler Form None None Eurofins Courser Storage Location Other 0 were received in a broken container via Verbal Voice Mail Other (YN), and sample type of grab/comp(YN)? Other Login # . were further preserved in the laboratory റ് Yes) No (<u>@</u> Corrected Cooler Temp. Other **∌**₹ 3787 ö Samples processed by ä 7 ö K ö Cooler unpacked by: JMOROSKO (Z) X X X pH Strap Lot# HC448976 Oil and Grease TOC Receiving: checked for pH by Tests that are not _ 2

Page 20 of 21

2/22/2025

Login Container Summary Report

240-219307

2/27/2025

Temperature readings

MW-96S_022025	MW-96S_022025	MW-96S_022025	MW-96S_022025	MW-96S_022025	MW-96S_022025	MW-96S_022025	MW-96S_022025	MW-96S_022025	MW-96S_022025	MW-96S_022025	MW-96S_022025	MW-96S_022025	MW-96S_022025	MW-96S_022025	MW-96S_022025	MW-96S_022025	MW-96S_022025	MW-97S_022025	MW-97S_022025	MW-97S_022025	MW-97S_022025	MW-97S_022025	MW-97S_022025	TRIP BLANK_19	Chent Sample ID
240-219307-F-3 M	240-219307-F-3 MS	240-219307-F-3	240-219307-E-3 MSD	240-219307-E-3 MS	240-219307-E-3	240-219307-D-3 MSD	240-219307-D-3 MS	240-219307-D-3	240-219307-C-3 MSD	240-219307-C-3 MS	240-219307-C-3	240-219307-B-3 MSD	240-219307-B-3 MS	240-219307-B-3	240-219307-A-3 MSD	240-219307-A-3 MS	240-219307-A-3	240-219307-F-2	240-219307-E-2	240-219307-D-2	240-219307-C-2	240-219307-B-2	240-219307-A-2	240-219307-A-1	<u>Lab ID</u>
240-219307-F-3 MSDVoa Vial 40ml - Hydrochloric Acid	S Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	S Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acıd	S Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	S Voa Vıal 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acıd	Voa Vial 40ml - Hydrochloric Acid	S Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	S Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acıd	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Container Type
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DATA VERIFICATION REPORT



February 27, 2025

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

CADENA project ID: E203728

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

Project number: 30251157.401.04 (vapor 301.04) 30206169.0401.04

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

Laboratory submittal: 219307-1 Sample date: 2025-02-20

Report received by CADENA: 2025-02-27

Initial Data Verification completed by CADENA: 2025-02-27

Number of Samples:3 Sample Matrices:Water Test Categories:GCMS VOC

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

The following minor QC exceptions or missing information were noted:

GCMS VOC samples -001, -002, -003 SURROGATE recoveries were outliers biased high for at least 1 surrogate. Associated client sample results were non-detect so qualification was not required based on these high bias QC outliers.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 219307-1

		Sample Name:	TRIP BL	ANK_19			MW-97	S_02202	5		MW-969	S_02202	5	
		Lab Sample ID:	240219	3071			240219	3072			240219	3073		
		Sample Date:	2/20/20	25			2/20/20	25			2/20/20	25		
				Report		Valid		Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC														
OSW-8260D														
1,1-	Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
cis-	1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
Tetr	achloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
tran	s-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
Tric	hloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
Viny	/l chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
OSW-8260DSIN	<u>1</u>													
1,4-	Dioxane	123-91-1					ND	2.0	ug/l		ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-219307-1

CADENA Verification Report: 2025-02-27

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 58456R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-219307-1 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	Lab ID	IVIALITX	Collection Date	Farent Sample	voc	VOC SIM
TRIP BLANK_19	240-219307-1	Water	02/20/2025		Х	
MW-97S_022025	240-219307-2	Water	02/20/2025		Х	X
MW-96S_022025	240-219307-3	Water	02/20/2025		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 Required
	No	Yes	No	Yes	Required
Sample receipt condition		Х		X	
2. Requested analyses and sample results		X		X	
Master tracking list		Х		Х	
4. Methods of analysis		X		Х	
5. Reporting limits		X		Х	
6. Sample collection date		X		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		X		Х	
9. Sample preparation/extraction/analysis dates		Х		X	
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)
TRIP BLANK_19 MW-97S_022025 MW-96S_022025	Initial Calibration Verification %D	Vinyl chloride	-21.4%

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
	PDE -0.05	Non-detect	R
Initial and Continuing Calibration	RRF <0.05	Detect	J
	RRF <0.01 ¹	Non-detect	R

Initial/Continuing	Criteria	Sample Result	Qualification				
		Detect	J				
	RRF >0.05 or RRF >0.01 ¹	Non-detect					
	RRF >0.05 01 RRF >0.01	Detect	No Action				
	0/ DCD - 200/ or a portalation coefficient -0.00	Non-detect	UJ				
Initial Calibration	%RSD > 20% or a correlation coefficient <0.99	Detect	J				
Initial Calibration	%RSD > 90%	Non-detect	R				
	%RSD > 90%	Detect	J				
	0/D 200/ (in process in page stirity)	Non-detect	UJ				
	%D >20% (increase in sensitivity)	Detect	J				
Continuing Calibration	0/D 200/ (dagged in consistivity)	Non-detect	UJ				
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J				
	0/ D . 000/ /in anagar/daggaranin agaritisit.	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.

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

VOCs: 8260D/8260D-SIM	Rep	orted	Perfo 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		Х		Х	
Initial calibration %RSDs		X		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		X	Х		
Instrument tune and performance check		Х		Х	
Ion abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				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		Х		Х	
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: March 21, 2025

PEER REVIEW: Andrew Korycinski

DATE: March 26, 2025

CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record MICHIO

<u>TestAmerica</u>

estAmerica I aboratory location. Farmington Hills — 38855 Hills Tech Drive. Suite 600. Farmington Hills 48331

Client Contact	Regulat	ory program:			DW		□ NE	PDES		_ R	CRA	1	Othe	r [
Company Name: Arcadis	Client Project N	4 M	n Maa	ldas		- 1	Site Co		. 6	antha	Szpaichl			_	I ab C	`antaa	. Mil	. Dall	Annia	_					<u> FestAmerica Laboratories, I</u> COC No:
ddress: 28550 Cabot Drive, Suite 500	Chefit Project i	ranager: weg	in Mec	Kiey			site Cu	ntact.	. Sam	Janua	5zpaicii	iei			Lab Contact: Mike DelMonico					`	70C 110.				
City/State/Zip: Novi, MI, 48377	Telephone: 248-	994-2240					Telephone: 248-994-2240				Telephone: 330-497-9396					-	1 of 1 COCs								
	Email: kristoffe	r.hinskey@ar	adis.co	om			Analysis Turnaround Time				Analyses					For lab use only									
Phone: 248-994-2240	C. J. N						TAT if different from below 3 weeks 10 day 2 weeks 1 week								,	Walk-in client									
roject Name: Ford LTP	Sampler Name:	Seceny	N	140	(5																				
roject Number: 30206169.0401.03	Method of Ship		J¥	145	1										ľ	Lab sampling									
O # US3460021848	Shinning/Tunel	Shipping/Tracking No:						2 days 1 day		Z/N	4		8	2601			G09	SOC				,	lob/SDG No:		
O # 037400021046	Shipping/11ack									Filtered Sample (Y / N)	Composite=C/Grab=G	00g	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D		-	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM				ľ	507555 110		
				Ma	trix		HNO3 HNO3 HNO3 NAOH NAOH				CE	.2-D(G09	900	lorid	cane				ŀ					
				Aqueous Sediment		ij	H2SO4		ΙΞ	e =	Other:	fered	iod m	DCE	1.2-1	ns-1	PCE 8260D	TCE 8260D	호	ê					Sample Specific Notes / Special Instructions:
Sample Identification	Sample Date	Sample Time	ξ	Skd ib	Solid	ā	HZSO-	豆	ž	ZnAc/ NaOH	8	E.	ပိ	1.1	cis-	Tra	2	흔	Š	1,4			\sqcup	\perp	Special fisti uctions.
TRIP BLANK_ \9			T.	1				1				N	G	Χ	Х	Х	Х	х	Х						1 Trip Blank
MW-975-022025	02/20/25	10:55		6				Co				N	6	χ	X	X	X	X	X	又				T	3 VOAs for 8260D 3 VOAs for 8260D SIM
MU-965_022025	อปนาห	13.20		G				6				N	G	γ	X	Y	X	X	X	X					
MW-965-MS_022025	02/20125	13.20		6				Q				N	Ú	\checkmark	Υ	X	X	Χ	\times	X					Rusimso
MV-965-MSD-022025	वरीयीय	13:21		G				6				N	E	\star	X	×	X	X	×	X.		la .			MS/MSOL
																								\perp	
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																								\bot	240-219307 COC
Possible Hazard Identification Non-Hazard Clammable Cin In	ritant Poiso	n B	Jnkno	own			Sam			al (A fe Client	e may b	e assess Dispos			les are		red lor rchive		an I n) onths				
pecial Instructions/QC Requirements & Comments: Submit all results through Cadena at jtomalia@cadena.evel IV Reporting requested.												•													
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Relinquished by:	Company			Date/Tin		5 1	357)	Rec	eived in	SSE	tory b	ÒR	05	KO			Comp	eny:	بحر	2)		1	Date/Time: 2/25 500

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-219307-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA	
Qualifier	Qualifier Description

S1+ Surrogate recovery exceeds control limits, high biased.
U Indicates the analyte was analyzed for but not detected.

Glossary

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
\times	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)

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

2/27/2025

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Client: Arcadis US Inc. Job ID: 240-219307-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_19

Date Received: 02/22/25 08:00

Lab Sample ID: 240-219307-1 Date Collected: 02/20/25 00:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/25/25 18:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/25/25 18:34	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 18:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/25/25 18:34	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 18:34	1
Vinyl chloride	1.0	–u− UJ	1.0	0.45	ug/L			02/25/25 18:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	131		62 - 137			-		02/25/25 18:34	1
4-Bromofluorobenzene (Surr)	81		56 ₋ 136					02/25/25 18:34	1
Toluene-d8 (Surr)	93		78 - 122					02/25/25 18:34	1
Dibromofluoromethane (Surr)	132	S1+	73 - 120					02/25/25 18:34	1

Client: Arcadis US Inc. Job ID: 240-219307-1

Project/Site: Ford LTP

Date Received: 02/22/25 08:00

Client Sample ID: MW-97S_022025

Lab Sample ID: 240-219307-2 Date Collected: 02/20/25 10:55

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			02/25/25 21:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		68 - 127			-		02/25/25 21:51	1
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/25/25 22:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/25/25 22:33	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 22:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/25/25 22:33	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 22:33	1
Vinyl chloride	-1.0	-u- UJ	1.0	0.45	ug/L			02/25/25 22:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	134		62 - 137			-		02/25/25 22:33	1
4-Bromofluorobenzene (Surr)	76		56 - 136					02/25/25 22:33	1
Toluene-d8 (Surr)	88		78 - 122					02/25/25 22:33	1
Dibromofluoromethane (Surr)	134	S1+	73 - 120					02/25/25 22:33	1

2/27/2025

Client: Arcadis US Inc. Job ID: 240-219307-1

Project/Site: Ford LTP

Date Received: 02/22/25 08:00

Client Sample ID: MW-96S_022025

Lab Sample ID: 240-219307-3 Date Collected: 02/20/25 13:20

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/25/25 22:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		68 - 127			-		02/25/25 22:14	1
- Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	C/MS						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/25/25 22:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/25/25 22:53	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 22:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/25/25 22:53	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 22:53	1
Vinyl chloride	1.0	-∪ UJ	1.0	0.45	ug/L			02/25/25 22:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	134		62 - 137			-		02/25/25 22:53	1
4-Bromofluorobenzene (Surr)	77		56 ₋ 136					02/25/25 22:53	1
Toluene-d8 (Surr)	85		78 - 122					02/25/25 22:53	1
Dibromofluoromethane (Surr)	134	S1+	73 - 120					02/25/25 22:53	1