PREPARED FOR

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

Generated 5/12/2025 7:30:17 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-223789-1

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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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: 240-223789-1

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-223789-1

Project/Site: Ford LTP

Qualifiers

GC/MS V	OA
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Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

Gloccary

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
\(\tilde{\pi} \)	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)

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

MDL Method Detection Limit MLMinimum 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**

Relative Error Ratio (Radiochemistry) RER

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: 240-223789-1

Project: Ford LTP

Job Narrative 240-223789-1

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_21 (240-223789-1)

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_21 (240-223789-1) 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: 240-223789-1

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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-223789-1

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

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: 240-223789-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-223789-1	TRIP BLANK_21	Water	05/02/25 00:00	05/07/25 08:00
240-223789-2	MW-97S_050225	Water	05/02/25 13:45	05/07/25 08:00

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Detection Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-223789-1

Client Sample ID: TRIP BLANK_21 Lab Sample ID: 240-223789-1

No Detections.

Client Sample ID: MW-97S_050225 Lab Sample ID: 240-223789-2

No Detections.

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-223789-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_21

Date Received: 05/07/25 08:00

Lab Sample ID: 240-223789-1 Date Collected: 05/02/25 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			05/09/25 03:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/09/25 03:12	1
Tetrachloroethene	1.0	U *-	1.0	0.44	ug/L			05/09/25 03:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/09/25 03:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/09/25 03:12	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/09/25 03:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137			-		05/09/25 03:12	1
4-Bromofluorobenzene (Surr)	81		56 ₋ 136					05/09/25 03:12	1
Toluene-d8 (Surr)	90		78 - 122					05/09/25 03:12	1
Dibromofluoromethane (Surr)	94		73 - 120					05/09/25 03:12	1

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-223789-1

Project/Site: Ford LTP

Date Received: 05/07/25 08:00

Client Sample ID: MW-97S_050225

Lab Sample ID: 240-223789-2 Date Collected: 05/02/25 13:45

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/08/25 16:42	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	124		68 - 127			_		05/08/25 16:42	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	DII Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/08/25 18:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/08/25 18:41	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/08/25 18:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/08/25 18:41	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/08/25 18:41	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/08/25 18:41	1
Surrogate	%Recovery	Qualifier	Limits			_	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137					05/08/25 18:41	1

Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102	62 - 137	_		05/08/25 18:41	1
4-Bromofluorobenzene (Surr)	85	56 ₋ 136			05/08/25 18:41	1
Toluene-d8 (Surr)	91	78 - 122			05/08/25 18:41	1
Dibromofluoromethane (Surr)	100	73 - 120			05/08/25 18:41	1

Surrogate Summary

Client: Arcadis US Inc. Job ID: 240-223789-1 Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)				
		DCA	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)	
240-223789-1	TRIP BLANK_21	91	81	90	94	
240-223789-2	MW-97S_050225	102	85	91	100	
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	
240-223789-2	MW-97S_050225	124	
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: 240-223789-1

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							
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 14:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/08/25 14:14	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/08/25 14:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/08/25 14:14	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/08/25 14:14	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/08/25 14:14	1

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

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 Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 97 62 - 137 4-Bromofluorobenzene (Surr) 56 - 136 90 Toluene-d8 (Surr) 93 78 - 122 73 - 120 Dibromofluoromethane (Surr) 96

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: 240-223789-1

Project/Site: Ford LTP

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

Matrix: Water

Analysis Batch: 655247

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

MSD MSD

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

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

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

Matrix: Water

Analysis Batch: 655247

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

MS MS %Rec Result Qualifier Unit %Rec Limits

Sample Sample Spike Analyte Result Qualifier Added 1,1-Dichloroethene 1.0 U 12.5 10.3 ug/L 82 56 - 135 cis-1,2-Dichloroethene 1.0 U 12.5 80 66 - 128 10.1 ug/L 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 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

Lab Sample ID: MB 240-655302/8 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 655302

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1.0 U 1.0 1,1-Dichloroethene 0.49 ug/L 05/09/25 02:48 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 05/09/25 02:48 Tetrachloroethene 05/09/25 02:48 1.0 U 1.0 0.44 ug/L trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 05/09/25 02:48 1.0 U 1.0 05/09/25 02:48 Trichloroethene 0.44 ug/L Vinyl chloride 1.0 U 1.0 0.45 ug/L 05/09/25 02:48

MB MB

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 Client Sample ID: Lab Control Sample **Matrix: Water**

Analysis Batch: 655302

•	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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Prep Type: Total/NA

Client: Arcadis US Inc.

Job ID: 240-223789-1

Client: Arcadis US Inc. Job ID: 240-223789-1
Project/Site: Ford LTP

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	
Vinyl chloride			12.5	9.23		ug/L		74	60 - 144	
	LCS	LCS								
Surrogate	%Recovery	Qualifier	l imite							

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		62 _ 137
4-Bromofluorobenzene (Surr)	90		56 ₋ 136
Toluene-d8 (Surr)	94		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

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

Lab Sample ID: MB 240-655190/6

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 655190

Allalysis Datcil. 000100									
	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
	МВ	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

Matrix: Water

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

Analysis Batch: 655190

	Бріке	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	10.0	7.97		ug/L	_	80	75 - 121	

 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

Matrix: Water

Prep Type: Total/NA

Matrix. Water

Analysis Batch: 655190

7 manyone Batom econor									
	Sample S	Sample	Spike	MS	MS				%Rec
Analyte	Result (Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,4-Dioxane	2.0	U	10.0	8.18		ug/L		82	20 - 180

 Surrogate
 %Recovery 1,2-Dichloroethane-d4 (Surr)
 Qualifier 213
 Limits 68 - 127

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

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

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

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ep Type: Total/N/

QC Sample Results

Client: Arcadis US Inc. Job ID: 240-223789-1

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: 240-223789-1

GC/MS VOA

Analysis Batch: 655190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223789-2	MW-97S_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 Batc
240-223789-2	MW-97S_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	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223789-1	TRIP BLANK_21	Total/NA	Water	8260D	
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: 240-223789-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_21

Lab Sample ID: 240-223789-1 Date Collected: 05/02/25 00:00

Matrix: Water

Dilution Batch Batch Batch Prepared Method Prep Type Туре Run Factor **Number Analyst** Lab or Analyzed Total/NA 8260D 655302 R5XG EET CLE 05/09/25 03:12 Analysis

Client Sample ID: MW-97S_050225 Lab Sample ID: 240-223789-2

Date Collected: 05/02/25 13:45 **Matrix: Water**

Date Received: 05/07/25 08:00

Date Received: 05/07/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	655247	R5XG	EET CLE	05/08/25 18:41
Total/NA	Analysis	8260D SIM		1	655190	R5XG	EET CLE	05/08/25 16:42

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: 240-223789-1 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
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











MICHIGAN 190

Chain of Custody Record

5/10	
	<u>TestAmerica</u>

TestA	merica Labora	itory location:	Farr	ningto	n Hil	is 388	355 Hil	lls Te	ch Dr	rive, S	Suite 60	0, Farn	ningto	n Hil	ls 483	31								Ti	HE LEADER IN ENVIRONMENTAL TESTING
Client Contact	Regulat	tory program:		ſ	T D	w	_	NPD	ES		┌ RC	RA		Oth	er [
ompany Name: Arcadis	Client Project	Manager: Mega	an Me	eckley	_		Site	e Con	tact:	Same	antha S	zpaichle	er		_	Lab C	ontac	: Mike	Dell	Monico	a		+	+-	TestAmerica Laboratories, Inc.
ddress: 28550 Cabot Drive, Suite 500	Telephone: 248	2-994-2240					Tel	enhor	no: 24	48-99.	4-2240					Teleni	hone	330-49	7_039					-	
ty/State/Zip: Novi, MI, 48377												Dominion .	_			тегер	none	,,,,,,							1 of 1 COCs
none: 248-994-2240	Email: megan.	meckley@arcad	lis.co	m				ADAI	ysts 1	urna	around `	I ime	-						An	nalys	es		+	\top	For lab use only
roject Name: Ford LTP	Sampler Name			И.			TAT	Tifdin	ferent f		clow 3 weeks	Ш	7												Walk-in client
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oject Number: 30251157.401.04	Method of Ship	ment/Carrier:									1 week 2 days		Z	PEG			000			ا ۾	SIM				
D # US3460023914	Shipping/Track	cing No:								F 1	1 day		y) ald	/ Gra	g	32600	E 826			9 8260	32600				Job/SDG No:
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Sample Identification	Sample Date	Sample Time	ş	Aqueous	Sediment	Solid Other:	112504	HNO3	HCI	NaOH	ZaAci 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 8260D	1,4-Dioxane 8260D				Sample Specific Notes / Special Instructions:
TRIP BLANK_ 2\			Ħ	1	7		Ť	Ť	1		-	Ť	_	G	X					X	_		#		1 Trip Blank
MW-975_050225	05/02/25	13:45	П	Ç	\dagger	+			6	\sqcap			N	16	Х	X	X	X	×	×	X				3 VOAs for 8260D 3 VOAs for 8260D SIM
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pecial Instructions/QC Requirements & Comments: 0510 ubmit all results through Cadena at itomalia@cadenaco.oevel IV Reporting requested.	n Post	RON																							
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TestAmenca & Design " are tracemuray of TestAmenca Laboratories, Inc

VOA Sample Preservation - Date/Time VOAs Frozen:
erved: Preservative(s) added/Lot number(s):
Sample(s)were further preserved in the laboratory.
20. SAMPLE PRESERVATION
Sample(s)were received with bubble >6 mm in diameter. (Notify PM)
19. SAMPLE CONDITION were received after the recommended holding time had expired.
Labels Verified by:
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Labeled by:
Concerning
Contacted PM Date by via Verbal Voice Mail Other
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Yes No 17. Was a LL Hg or Me Hg trip blank present? Yes No
Were VOAs on the COC?
Were all preserved sample(s) at the correct pH upon receipt?
SS CO
10. Were correct bottle(s) used for the test(s) indicated?
Did all bottles arrive in good condition (Unbroken)?
Did custody papers accompany the sample(s)?
g/MeHg)? Yes
-Were the seals on the outside of the cooler(s) signed & dated? -Were the seals on the outside of the cooler(s) signed & dated? -Were the seals on the outside of the cooler(s) signed & dated?
IR GUN # (CF W) Observed Cooler Temp. °C Co
pt See Multiple Cool
COOLANT: Wet Ice Blue Ice Dry Ice Water
Packing material used: Bubble Wrap Foam Plastic Bag None Other
urs: Drop-off Date/Time Stor
xpUPS_FAS_(Waypoint) Client Drop
Received on S-7-25
Client Cooler unpacked by:
Barberton Facility

Page 20 of 26

		Т

	EC Client Box Other R GUN #:	EC Client Box Other R GUN #:	EC Client Box Other R GUN #:	EC Client Box Other IR GUN #	EC Client Box Other IR GUN #:	EC Client Box Other IR GUN #-	EC Client Box Other IR GUN #	EC Client Box Other IR GUN #:	EC Client Box Other IR GUN 4:	S S	EC Client Box Other IR GUN #-	EC Client Box Other IR GUN #:	EC Client Box Other R GUN #:	EC Client Box Other IR GUN #:	EC Client Box Other IR GUN #:	EC Client Box Other IR GUN #:	EC Client Box Other IR GUN #:	EC Client Box Other R GUN #:	EC Client Box Other IR GUN #:	EC Client Box Other IR GUN #:	EC Client Box Other IR GUN #:	EC Client Box Other R GUN #:	EC Client box Other IR GUN #:	EC Client Box Other RGDN #:	EC Client Box Other IR GUN #:	EC Client Box Other IR GUN #:	EC Client Box Other IR GUN #:	EC Client Box Other IR GUN #:	EC Client Box Other IR GUN #:	EC Client Box Other RGUN#:	EC Client Box Other IR GUN ‡:	EC Client Box Other RGUN≠:	EC Client—box Other— RGUN #:).	Cooler Description R Gun # Observed Corrected (Circle) (Circle) Temp °C Temp °C
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Temperature readings

5/12/2025

Login Container Summary Report

MW-9/S_050225	MW-97S_050225	MW-97S_050225	MW-97S_050225	MW-97S_050225	MW-97S_050225	TRIP BLANK_21	Client Sample ID
240-223789-F-2	240-223789-E-2	240-223789-D-2	240-223789-C-2	240-223789-B-2	240-223789-A-2	240-223789-A-1	<u>Lab ID</u>
Voa Vial 40ml - Hydrochloric Acıd	Voa Vial 40ml - Hydrochloric Acid	Container Type					
							Container Preservation Preserva

Page 1 of 1

MICHIGAN 190

Chain of Custody Record

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Client Contact	Regulat	ory program:			DW	ſ	NP	DES		┌ RC	RA	Ot	her										TestAmerica L	
	Client Project	Manager: Mega	n Meci	kley		S	ite Co	ntact:	Sama	antha S	paichle	r	_	Lab (Contac	t: Mik	e Dell	Monico			-		COC No:	aboratories,
ddress: 28550 Cabot Drive, Suite 500	Telephone: 248	004 2240					alamba		18 00	4-2240				Talan	h.n	330-49	7 020							
ity/State/Zip: Novi, MI, 48377														Telep	none:	330-43							1 of 1	COCs
hone: 248-994-2240	Email: megan.i	neckley@arcad	lis.com			-	Am	lysis	Turns	around	Time	-	\vdash	7			A	nalys	:5			_	For lab use only	
	Sampler Name		44			Т	AT if d	ifferent				1											Walk-in client	
roject Name; Ford LTP		Jerny	M	YWO	5		10 d	av		3 weeks 2 weeks													Lab sampling	
roject Number: 30251157.401.04	Method of Ship	ment/Carrier:						•		l week		2 9		1	_				N N					
D # US3460023914	Shipping/Track	ing No:								2 days 1 day		ا الله		8260D	8260			3260D	G09				Job/SDG No:	
				Ma	trix		Ce	ntainc	mál	Preserva	tives		, j	E 82	DCE	٥	0	ride (ne 82		-			
Sample Identification	Sample Date	Sample Time	Alr	Aqueous	Selid	Other:	HNO3	HCI	NaOH	Zatel Natifi Unpres	Oiber:	Filtered Sample (V / N)	1,1-DCE 8260D	cis-1,2-DCE	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM					ecific Notes /
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Possible Hazard Identification Non-Hazard Tammable Cin Irritant	Poise	on B	Jnkno	own						il (A fee Client		assessed Disposal				ined los Vrchive		han l r) onths				
pecial Instructions/QC Requirements & Comments: 🙀 🔒	D -4	0 - 1																						
ubmit all results through Cadena at jtomalia@cadenaco.evel IV Reporting requested.	on Po54 com. Cadena #	203728																						
J.MyB	Company:	dis		ote/Tir	3115	5 1	415	30	Reco	eived by	A	Cold	5/	1144	ı		Comp	A/	eide	ď			Date/Time:	5 1403
clinquished by:	Company:	1015			:12	.5	152	4		eived by		M	U	CL		-	Comp		E	AKS	r _		Date/Times	25 150
elinquished by:	Company:	70	5	Date Tir	ne	- 13			Rec	cived in	Labora	tory by:	1	Z///			Com	oany:	-	-			Date/Time:	75 8

VOA Sample Preservation - Date/Time VOAs Frozen:
erved:Preservative(s) added/Lot number(s):
Sample(s) were further preserved in the laboratory.
20. SAMPLE PRESERVATION
Sample(s)were received with bubble >6 mm in diameter. (Notify PM)
Sample(s) were received in a broken container.
19. SAMPLE CONDITION were received after the recommended holding time had expired.
Labels Verified by: JM020 W
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES [additional next page Labeled by: /////
Concerning
Contacted PM Date by via Verbal Voice Mail Other
15. Were air bubbles >0 min in any VOA viais? Trip Blank Lot # Ces No
Were VOAs on the COC?
If yes, Questions 13-17 have been checked at the originating laboratory. 13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot HC457151
Yes
- ^
(V/N), # of containers (Y/N), a
-
6. Was/were the person(s) who collected the samples clearly identified on the COC?
Did custody papers accompany the sample(s)?
Shippers' packing slip attached to the cooler(s)?
-Were tamper/custody seals in tact and uncompromised? -Were tamper/custody seals in tact and uncompromised? -Were tamper/custody seals in tact and uncompromised?
-Were the seals on the outside of the cooler(s) signed & dated?
he outside of the cooler(s)? If Yes Quantity
IR GUN # 13 (CF 15.5°C) Observed Cooler
COOLANT: Wet Ice Blue Ice Dry Ice Water None Cooler femmerature upon receipt K See Multiple Cooler Form
sed: Pubble Wrap Foam Plastic Bag
Eurofins Cooler # Foam Box Client Cooler Box Other
aypoint/ Client Drop Off E
5-7-25 Opened on 5-7-25
Site Name
Euroims - Cleveland Sample Receipt Form/Narranive Logiu # :
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Temp °C Temp °C Corrected Coolant Temp °C Temp °C Wellee Silve Ice	אפוורה ממפורה בוץ זרה	Waite		IX GON #	x Other	Client Box	ñ
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「一日の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本	Coolant (Circle)	Corrected Temp °C	Observed Temp °C	IR Gun # (Circle)	ription)	oler Desc (Circle	Coc

5/7/2025

Login Container Summary Report

240-223789

MW-97S_050225 MW-97S_050225 MW-97S_050225 MW-97S_050225 M,W-97S_050225 TRIP BLANK_21 Client Sample ID Temperature readings 240-2237 240-2237 240 2237 240-223 240-223 240-223 Lab ID Container

240-223789-F-2	240-223789-E-2	240-223789-D-2	240 223789-C-2	240-223789-B-2	240-223789-A-2	240-223789-A-1	
Voa Vial 40ml - Hydrochloric Acid	Voa Vıal 40ml - Hydrochloric Acıd	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	
							•

MW-97S_050225

<u>er Type</u> l 40ml - Hydrochloric Acid	pH Con	Container Preser pH Temp Added	Preservation Preservation Added Lot Number	Preservation Lot Number
40ml - Hydrochloric Acid				
40ml - Hydrochloric Acid				
40ml - Hydrochloric Acıd				
40ml - Hydrochloric Acid				
40ml - Hydrochloric Acid				
40ml - Hydrochloric Acıd				

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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: 223789-1 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: 223789-1

Sample Name: TRIP BLANK_21 Lab Sample ID: 2402237891

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: 223789-1

		Sample Name:	TRIP BL	ANK_21			MW-975	5_05022	.5	
		Lab Sample ID:	240223	7891			240223	7892		
		Sample Date:	5/2/202	5			5/2/202	.5		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	<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		ND	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-826	<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 # 240-223789-1

CADENA Verification Report: 2025-05-12

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 59457R Review Level: Tier III Project: 30251157.401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-223789-1 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	raieiit Saiiipie	voc	VOC SIM
TRIP BLANK_21	240-223789-1	Water	05/02/2025		Х	
MW-97S_050225	240-223789-2	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 24	Continuing Calibration Verification %D	Vinyl chloride	-24.5%
TRIP BLANK_21	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
Campidatori	RRF <0.01 ¹	Detect	J
	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
Initial Calibration	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 Colibration	0/ D > 200/ (daaraaaa in aanaiti ita)	Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
	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.

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		rmance ptable	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

MICHIGAN 190

Chain of Custody Record

5/10	
	<u>TestAmerica</u>

TestA	merica Labora	itory location:	Farr	ningto	n Hil	is 388	355 Hil	lls Te	ch Dr	rive, S	Suite 60	0, Farn	ningto	n Hil	ls 483	31								Ti	HE LEADER IN ENVIRONMENTAL TESTING
Client Contact	Regulat	tory program:		ſ	T D	w	_	NPD	ES		┌ RC	RA		Oth	er [
ompany Name: Arcadis	Client Project	Manager: Mega	an Me	eckley	_		Site	e Con	tact:	Same	antha S	zpaichle	er		_	Lab C	ontac	: Mike	Dell	Monico	a		+	+-	TestAmerica Laboratories, Inc.
ddress: 28550 Cabot Drive, Suite 500	Telephone: 248	2-994-2240					Tel	enhor	no: 24	48-99.	4-2240					Teleni	hone	330_40	7_039					-	
ty/State/Zip: Novi, MI, 48377								Analysis Turnaround Time				Telephone: 330-497-9396 Analyses							1 of 1 COCs						
none: 248-994-2240	Email: megan.	meckley@arcad	lis.co	m			Analysis I at all built I stic				Allaryous						\top	For lab use only							
roject Name: Ford LTP	Sampler Name			И.			TAT	TAT if different from below 3 weeks													Walk-in client				
		Jellay 1 (1867) 10 day 2 weeks												Lab sampling											
oject Number: 30251157.401.04	Method of Shipment/Carrier:			er:							OD SIM														
D # US3460023914	Shipping/Tracking No:			OD OD				32600	E 826			9 8260	32600				Job/SDG No:								
·				M	datri	K	\perp	Con	taine	rs & P	Preserval	tives	Sam	Ite=C	826	CE	2-DC	9	90	loride	ane (
Sample Identification	Sample Date	Sample Time	ş	Aqueous	Sediment	Solid Other:	112504	HNO3	HCI	NaOH	ZaAci 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 8260D	1,4-Dioxane 8260D				Sample Specific Notes / Special Instructions:
TRIP BLANK_ 2\			Ħ	1	7		Ť	Ť	1		-	Ť	_	G	X					X	_		#		1 Trip Blank
MW-975_050225	05/02/25	13:45	П	Ç	\dagger	+			6	\sqcap			N	16	Х	X	X	X	×	×	X				3 VOAs for 8260D 3 VOAs for 8260D SIM
	100/15		\Box		†	+	\top		Ħ	\Box		+	1	Ť	-				\exists			\Box	#		
																									240-223789 COC
Possible Hazard Identification F Non-Hazard F lammable	☐ Poiso	on B	Jnk	nown			1				l (A fee Client	may be	asses Dispo					ed lon		ian 1 r) onths			
pecial Instructions/QC Requirements & Comments: 0510 ubmit all results through Cadena at itomalia@cadenaco.oevel IV Reporting requested.	n Post	RON																							
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TestAmenca & Design " are tracemuray of TestAmenca Laboratories, Inc

Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-223789-1

Project/Site: Ford LTP

Qualifiers

GC/MS V	OA
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Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

Gloccary

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)

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

MDL Method Detection Limit MLMinimum 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**

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Cleveland

Page 4 of 26

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-223789-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_21

Date Received: 05/07/25 08:00

Lab Sample ID: 240-223789-1 Date Collected: 05/02/25 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			05/09/25 03:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/09/25 03:12	1
Tetrachloroethene	1.0	U * UJ	1.0	0.44	ug/L			05/09/25 03:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/09/25 03:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/09/25 03:12	1
Vinyl chloride	1.0	₩ UJ	1.0	0.45	ug/L			05/09/25 03:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137			-		05/09/25 03:12	1
4-Bromofluorobenzene (Surr)	81		56 ₋ 136					05/09/25 03:12	1
Toluene-d8 (Surr)	90		78 - 122					05/09/25 03:12	1
Dibromofluoromethane (Surr)	94		73 - 120					05/09/25 03:12	1

5/12/2025

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-223789-1

Project/Site: Ford LTP

Analyte

Client Sample ID: MW-97S_050225

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Result Qualifier

Date Collected: 05/02/25 13:45 Date Received: 05/07/25 08:00 Lab Sample ID: 240-223789-2

Analyzed

Prepared

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 16:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			68 - 127			_		05/08/25 16:42	1

RL

MDL Unit

1,1-Dichloroethene	1.0	U	1.0	0.49 ug/L		05/08/25 18:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46 ug/L		05/08/25 18:41	1
Tetrachloroethene	1.0	U	1.0	0.44 ug/L		05/08/25 18:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51 ug/L		05/08/25 18:41	1
Trichloroethene	1.0	U	1.0	0.44 ug/L		05/08/25 18:41	1
Vinyl chloride	1.0	U	1.0	0.45 ug/L		05/08/25 18:41	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137			05/08/25 18:41	1
4-Bromofluorobenzene (Surr)	85		56 ₋ 136			05/08/25 18:41	1
Toluene-d8 (Surr)	91		78 - 122			05/08/25 18:41	1
Dibromofluoromethane (Surr)	100		73 - 120			05/08/25 18:41	1

3

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6

8

Dil Fac

10

11

12