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ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 2/26/2025 6:58:32 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-219101-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



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Job Notes

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Authorization

Generated 2/26/2025 6:58:32 AM

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: 240-219101-1

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-219101-1

Project/Site: Ford LTP

Qualifiers GC/MS VOA

Qualifier **Qualifier Description**

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U Indicates the analyte was analyzed for but not detected.

Glossarv

C.CCC.	
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" MCI

MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

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

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

TNTC Too Numerous To Count

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Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-219101-1

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Job ID: 240-219101-1

Job Narrative 240-219101-1

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 2/18/2025 11:20 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 3.5°C.

GC/MS VOA

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

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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219101-1

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: 240-219101-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-219101-1	TRIP BLANK_18	Water	02/14/25 00:00	02/18/25 11:20
240-219101-2	MW-141S_021425	Water	02/14/25 08:50	02/18/25 11:20
240-219101-3	MW-79D_021425	Water	02/14/25 10:05	02/18/25 11:20
240-219101-4	MW-79SR_021425	Water	02/14/25 11:27	02/18/25 11:20
240-219101-5	DUP-11	Water	02/14/25 00:00	02/18/25 11:20

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Detection Summary

Project/Site: Ford LTP Client Sample ID: TRIP BLANK_18 Lab Sample ID: 240-219101-1 No Detections. Client Sample ID: MW-141S_021425 Lab Sample ID: 240-219101-2 No Detections. Client Sample ID: MW-79D_021425 Lab Sample ID: 240-219101-3 RL Analyte MDL Unit Dil Fac D Method Result Qualifier **Prep Type** Vinyl chloride 1.8 1.0 0.45 ug/L 8260D Total/NA Client Sample ID: MW-79SR_021425 Lab Sample ID: 240-219101-4 Analyte Result Qualifier RLMDL Unit Dil Fac D Method **Prep Type** Vinyl chloride 0.76 1.0 0.45 ug/L 8260D Total/NA

RL

1.0

MDL Unit

0.45 ug/L

Result Qualifier

2.0

13

Job ID: 240-219101-1

Lab Sample ID: 240-219101-5

Prep Type

Total/NA

Method

8260D

Dil Fac D

14

Client: Arcadis US Inc.

Client Sample ID: DUP-11

Analyte

Vinyl chloride

Client: Arcadis US Inc. Job ID: 240-219101-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_18

Lab Sample ID: 240-219101-1 Date Collected: 02/14/25 00:00

Matrix: Water

Date Received: 02/18/25 11:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/24/25 13:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/24/25 13:01	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 13:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/24/25 13:01	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 13:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/24/25 13:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137					02/24/25 13:01	1
4-Bromofluorobenzene (Surr)	89		56 ₋ 136					02/24/25 13:01	1
Toluene-d8 (Surr)	92		78 - 122					02/24/25 13:01	1
Dibromofluoromethane (Surr)	95		73 - 120					02/24/25 13:01	1

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Client: Arcadis US Inc. Job ID: 240-219101-1

Project/Site: Ford LTP

Client Sample ID: MW-141S_021425

Date Collected: 02/14/25 08:50 Date Received: 02/18/25 11:20

Dibromofluoromethane (Surr)

Lab Sample ID: 240-219101-2

02/24/25 13:48

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			02/20/25 20:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		68 - 127			-		02/20/25 20:13	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			02/24/25 13:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/24/25 13:48	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 13:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/24/25 13:48	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 13:48	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/24/25 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137			_		02/24/25 13:48	1
4-Bromofluorobenzene (Surr)	89		56 - 136					02/24/25 13:48	1
Toluene-d8 (Surr)	96		78 - 122					02/24/25 13:48	1

73 - 120

Client: Arcadis US Inc. Job ID: 240-219101-1

Project/Site: Ford LTP

Date Received: 02/18/25 11:20

Client Sample ID: MW-79D_021425

Lab Sample ID: 240-219101-3 Date Collected: 02/14/25 10:05

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			02/20/25 20:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		68 - 127			-		02/20/25 20:37	1
- Method: SW846 8260D - Volati	ile Organic Comp	ounds by G	SC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/24/25 14:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/24/25 14:12	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 14:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/24/25 14:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 14:12	1
Vinyl chloride	1.8		1.0	0.45	ug/L			02/24/25 14:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137			-		02/24/25 14:12	1
4-Bromofluorobenzene (Surr)	93		56 ₋ 136					02/24/25 14:12	1
Toluene-d8 (Surr)	100		78 - 122					02/24/25 14:12	1
Dibromofluoromethane (Surr)	100		73 - 120					02/24/25 14:12	1

Client: Arcadis US Inc. Job ID: 240-219101-1

Project/Site: Ford LTP

Date Received: 02/18/25 11:20

Client Sample ID: MW-79SR_021425

Lab Sample ID: 240-219101-4 Date Collected: 02/14/25 11:27

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			02/20/25 21:00	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		68 - 127					02/20/25 21:00	
- Method: SW846 8260D - Volat	tile Organic Comp	ounds by C	SC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1.1-Dichloroethene			1.0		ua/l			02/24/25 14:35	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/24/25 14:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/24/25 14:35	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 14:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/24/25 14:35	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 14:35	1
Vinyl chloride	0.76	J	1.0	0.45	ug/L			02/24/25 14:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137	_		02/24/25 14:35	1
4-Bromofluorobenzene (Surr)	87		56 - 136			02/24/25 14:35	1
Toluene-d8 (Surr)	94		78 - 122			02/24/25 14:35	1
Dibromofluoromethane (Surr)	93		73 - 120			02/24/25 14:35	1

Client: Arcadis US Inc. Job ID: 240-219101-1

Project/Site: Ford LTP

Client Sample ID: DUP-11 Lab Sample ID: 240-219101-5 Date Collected: 02/14/25 00:00

Matrix: Water

Date Received: 02/18/25 11:20

Method: SW846 8260D SIM - Vo	latile Organic C	ompounds	(GC/MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/20/25 21:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		68 - 127			_		02/20/25 21:24	1
Method: SW846 8260D - Volatile	Organic Comp	ounds by G	GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/24/25 14:58	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/24/25 14:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/24/25 14:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 14:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/24/25 14:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 14:58	1
Vinyl chloride	2.0		1.0	0.45	ug/L			02/24/25 14:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93	62 - 137		02/24/25 14:58	1
4-Bromofluorobenzene (Surr)	90	56 ₋ 136		02/24/25 14:58	1
Toluene-d8 (Surr)	94	78 - 122		02/24/25 14:58	1
Dibromofluoromethane (Surr)	95	73 - 120		02/24/25 14:58	1

Surrogate Summary

Client: Arcadis US Inc. Job ID: 240-219101-1 Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

			Po				
		DCA	BFB	TOL	DBFM		
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)		
240-219101-1	TRIP BLANK_18	91	89	92	95		
240-219101-2	MW-141S_021425	96	89	96	95		
240-219101-3	MW-79D_021425	97	93	100	100		
240-219101-4	MW-79SR_021425	91	87	94	93		
240-219101-5	DUP-11	93	90	94	95		
240-219215-E-2 MS	Matrix Spike	90	99	97	93		
240-219215-E-2 MSD	Matrix Spike Duplicate	96	101	103	99		
LCS 240-645778/5	Lab Control Sample	101	106	104	99		
MB 240-645778/9	Method Blank	90	88	94	91		

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)	
240-219101-2	MW-141S_021425	94	
240-219101-3	MW-79D_021425	100	
240-219101-4	MW-79SR_021425	99	
240-219101-5	DUP-11	101	
240-219101-5 MS	DUP-11	99	
240-219101-5 MSD	DUP-11	95	
LCS 240-645582/5	Lab Control Sample	98	
MB 240-645582/7	Method Blank	100	

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

Client: Arcadis US Inc. Job ID: 240-219101-1

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

Lab Sample ID: MB 240-645778/9

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 645778

	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			02/24/25 11:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/24/25 11:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 11:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/24/25 11:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 11:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/24/25 11:17	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepa	ared Analyze	d Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		62 - 137		02/24/25 1	1:17 1
4-Bromofluorobenzene (Surr)	88		56 ₋ 136		02/24/25 1	1:17 1
Toluene-d8 (Surr)	94		78 - 122		02/24/25 1	1:17 1
Dibromofluoromethane (Surr)	91		73 - 120		02/24/25 1	1:17 1
	1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)	Surrogate %Recovery 1,2-Dichloroethane-d4 (Surr) 90 4-Bromofluorobenzene (Surr) 88 Toluene-d8 (Surr) 94	1,2-Dichloroethane-d4 (Surr) 90 4-Bromofluorobenzene (Surr) 88 Toluene-d8 (Surr) 94	Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 90 62 - 137 4-Bromofluorobenzene (Surr) 88 56 - 136 Toluene-d8 (Surr) 94 78 - 122	Surrogate %Recovery Qualifier Limits Prepared 1,2-Dichloroethane-d4 (Surr) 90 62 - 137 4-Bromofluorobenzene (Surr) 88 56 - 136 Toluene-d8 (Surr) 94 78 - 122	Surrogate %Recovery Qualifier Limits Prepared Analyze 1,2-Dichloroethane-d4 (Surr) 90 62 - 137 02/24/25 1 4-Bromofluorobenzene (Surr) 88 56 - 136 02/24/25 1 Toluene-d8 (Surr) 94 78 - 122 02/24/25 1

Lab Sample ID: LCS 240-645778/5

Matrix: Water

Analysis Batch: 645778

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	17.8		ug/L		89	63 - 134	
cis-1,2-Dichloroethene	20.0	18.8		ug/L		94	77 - 123	
Tetrachloroethene	20.0	18.8		ug/L		94	76 - 123	
trans-1,2-Dichloroethene	20.0	18.7		ug/L		93	75 - 124	
Trichloroethene	20.0	19.0		ug/L		95	70 - 122	
Vinyl chloride	20.0	22.0		ug/L		110	60 - 144	

	LCS		
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		62 _ 137
4-Bromofluorobenzene (Surr)	106		56 ₋ 136
Toluene-d8 (Surr)	104		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

Analysis Batch: 645778

_	
Lab Sample ID: 240-219215-E-2 MS	Client Sample ID: Matrix Spike
Matrix: Water	Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	20.0	17.8		ug/L		89	56 - 135	
cis-1,2-Dichloroethene	1.0	U	20.0	17.8		ug/L		89	66 - 128	
Tetrachloroethene	1.0	U	20.0	18.9		ug/L		94	62 - 131	
trans-1,2-Dichloroethene	1.0	U	20.0	17.7		ug/L		88	56 - 136	
Trichloroethene	1.0	U	20.0	18.4		ug/L		92	61 - 124	
Vinyl chloride	1.0	U	20.0	22.0		ug/L		110	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	97		78 - 122

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Job ID: 240-219101-1

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

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

Matrix: Water

Analysis Batch: 645778

Lab Sample ID: 240-219215-E-2 MS

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

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

Lab Sample ID: 240-219215-E-2 MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Analysis Batch: 645778

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	20.0	18.6		ug/L		93	56 - 135	4	26
cis-1,2-Dichloroethene	1.0	U	20.0	18.4		ug/L		92	66 - 128	4	14
Tetrachloroethene	1.0	U	20.0	19.8		ug/L		99	62 - 131	5	20
trans-1,2-Dichloroethene	1.0	U	20.0	18.6		ug/L		93	56 - 136	5	15
Trichloroethene	1.0	U	20.0	18.8		ug/L		94	61 - 124	2	15
Vinyl chloride	1.0	U	20.0	23.3		ug/L		117	43 - 157	6	24

MSD MSD Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 96 62 - 137 101 4-Bromofluorobenzene (Surr) 56 - 136 Toluene-d8 (Surr) 103 78 - 122 Dibromofluoromethane (Surr) 99 73 - 120

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

MR MR

Lab Sample ID: MB 240-645582/7

Matrix: Water

Analysis Batch: 645582

Client Sample ID: Method Blank

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			02/20/25 15:32	1
	МВ	МВ							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 100 68 - 127 02/20/25 15:32

Lab Sample ID: LCS 240-645582/5

Matrix: Water			•	Prep Type: Total/NA
Analysis Batch: 645582				
	Spike	LCS LCS	%	Rec

Analyte Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 10.0 9.72 ug/L 97 75 - 121

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

Lab Sample ID: 240-219101-5 MS **Client Sample ID: DUP-11** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 645582

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	10.3		ug/L		103	20 - 180	

Eurofins Cleveland

2/26/2025

Client Sample ID: Lab Control Sample

QC Sample Results

Client: Arcadis US Inc. Job ID: 240-219101-1

Project/Site: Ford LTP

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		68 - 127

Lab Sample ID: 240-219101-5 MSD	Client Sample ID: DUP-11
Matrix: Water	Prep Type: Total/NA

Analysis Batch: 645582

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	11.2		ug/L		112	20 - 180	9	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		68 - 127

QC Association Summary

Client: Arcadis US Inc. Job ID: 240-219101-1 Project/Site: Ford LTP

GC/MS VOA

Analysis Batch: 645582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219101-2	MW-141S_021425	Total/NA	Water	8260D SIM	
240-219101-3	MW-79D_021425	Total/NA	Water	8260D SIM	
240-219101-4	MW-79SR_021425	Total/NA	Water	8260D SIM	
240-219101-5	DUP-11	Total/NA	Water	8260D SIM	
MB 240-645582/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-645582/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-219101-5 MS	DUP-11	Total/NA	Water	8260D SIM	
240-219101-5 MSD	DUP-11	Total/NA	Water	8260D SIM	

Analysis Batch: 645778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219101-1	TRIP BLANK_18	Total/NA	Water	8260D	<u> </u>
240-219101-2	MW-141S_021425	Total/NA	Water	8260D	
240-219101-3	MW-79D_021425	Total/NA	Water	8260D	
240-219101-4	MW-79SR_021425	Total/NA	Water	8260D	
240-219101-5	DUP-11	Total/NA	Water	8260D	
MB 240-645778/9	Method Blank	Total/NA	Water	8260D	
LCS 240-645778/5	Lab Control Sample	Total/NA	Water	8260D	
240-219215-E-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-219215-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Job ID: 240-219101-1

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

Client Sample ID: TRIP BLANK_18

Lab Sample ID: 240-219101-1 Date Collected: 02/14/25 00:00

Matrix: Water

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** Lab or Analyzed 8260D 02/24/25 13:01 Total/NA Analysis 645778 AJS EET CLE

Client Sample ID: MW-141S_021425 Lab Sample ID: 240-219101-2

Date Collected: 02/14/25 08:50 **Matrix: Water**

Date Received: 02/18/25 11:20

Date Received: 02/18/25 11:20

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	645778	AJS	EET CLE	02/24/25 13:48
Total/NA	Analysis	8260D SIM		1	645582	R5XG	EET CLE	02/20/25 20:13

Client Sample ID: MW-79D_021425 Lab Sample ID: 240-219101-3

Date Collected: 02/14/25 10:05 **Matrix: Water**

Date Received: 02/18/25 11:20

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	645778	AJS	EET CLE	02/24/25 14:12
Total/NA	Analysis	8260D SIM		1	645582	R5XG	EET CLE	02/20/25 20:37

Client Sample ID: MW-79SR_021425 Lab Sample ID: 240-219101-4

Date Collected: 02/14/25 11:27 **Matrix: Water**

Date Received: 02/18/25 11:20

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	645778	AJS	EET CLE	02/24/25 14:35
Total/NA	Analysis	8260D SIM		1	645582	R5XG	EET CLE	02/20/25 21:00

Client Sample ID: DUP-11 Lab Sample ID: 240-219101-5

Date Collected: 02/14/25 00:00 **Matrix: Water**

Date Received: 02/18/25 11:20

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	645778	AJS	EET CLE	02/24/25 14:58
Total/NA	Analysis	8260D SIM		1	645582	R5XG	EET CLE	02/20/25 21:24

Laboratory References:

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

Eurofins Cleveland

Accreditation/Certification Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219101-1

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
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

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Chain of Custody Record

MICHIGAN 190

<u>TestAmerica</u>

extAmerica Laboratory location. Farmington Hills — 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331

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City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240					Tel	epho	ne: 24	8-994-	2240				Т	elepi	hone:	330-4	97-939	96					1	of 1 COCs
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hone: 248-994-2240			_				77.4				-	_	7													
roject Name: Ford LTP	Sampler Name:	FOSTILL									weeks														Walk-in	The second
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Sample Identification	Sample Date	Sample Time	Air	Aquesus	Sediment	Other:	H2504	HNO3	HCI	NaOH	Vapres	Other:	Pittered Sample (Y / N)	Composite-C/Grab	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM					mple Specific Notes / pecial Instructions:
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MW-79D-021425	2-14-25	1005		6					6				N	Ġ	X	X	χ	X	X	x	×					
MW-795R_021425	2-14-25	11270	1	6					6				N	Ĺ	X	K	Κ	κ	X	X	X					
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Possible Hazard Identification			λ				-	Samo	le Dis	posal	(A fee	may be	auxeus 1	ed if	sample	are	retai	ned la	nger t	han 1	month				OF COC	
Non-Hazard Tammable Tin Irritant	Poiso	on B	Jnk	nown				("		rn to C			Dispos					rchive				lonths				
pecial Instructions/QC Requirements & Comments:	Bost	ON PUST		RO	W		-																			
ubmit all results through Cadena at jtomalia@cadenaco.c evel IV Reporting requested.	om. Cadena #E	203728																								
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by
PLE CONDITION PLE PRESERVATION PLE PRESERVATION PLE PRESERVATION PLE PRESERVATION PLE PRESERVATION
PMDate
via Verbal Voi Pladditional next page SM 2 18 COC SCUM PSE
via Verbal Voi
Was a LL Hg or Me Hg trip blank present?by
Was a LL Hg or Me Hg trip blank present?byby
Was a LL Hg or Me Hg trap blank present?
10 Were correct bottle(s) used for the test(s) indicated? 11 Sufficient quantity received to perform indicated analyses? 12 Are these work share samples and all listed on the COC? 13 Are these work share samples and all listed on the COC? 14 Are these oneshors 13-17 have been checked at the originating laboratory
Did all bottles arrive in good condition (Unbroken)? Could all bottle labels (ID/Date/Time) be reconciled with the COC? For each sample, does the COC specify preservatives (JN), # of containers (YN), and san
7777
-Were tamper/custody seals on the bottle(s) or bottle kats (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised? (Yes) No
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity (Yes No NA Tests that are not Labeled for He by
IR GUN# (CF O) °C) Observed Cooler
Ice Dry I
Eurofins Cooler # EC Foam Box Client Cooler Box Other Packing material used: Bubble Wrsp Foam Plastic Bag None Other
Date/Time Storage Location
Cooler Received on 2)18/25 Opened on 2/18/125 OPIORO
Site Name
Euroins = Cleveland Sample Receipt Form/Naffailve Logue, : Barberton Facility

WI NC-099-123124 Cooler Receipt Form.doc

2/18/2025

Login Container Summary Report

240-219101

Temperature readings 2/26/2025

	Voa Vial 40ml - Hydrochloric Acid	240-219101-F-5	DUP-11
	Voa Vial 40ml - Hydrochloric Acid	240-219101-E-5	DUP-11
	Voa Vıal 40ml - Hydrochloric Acid	240-219101-D-5	DUP-11
	Voa Vial 40ml - Hydrochloric Acid	240-219101-C-5	DUP-11
	Voa Vial 40ml - Hydrochloric Acid	240-219101-B-5	DUP-11
	Voa Vial 40ml - Hydrochloric Acid	240-219101-A-5	DUP-11
Pag	Voa Vial 40ml - Hydrochloric Acid	240-219101-E-4	MW-79SR_021425
 	Voa Vial 40ml - Hydrochloric Acid	240-219101-D-4	MW-79SR_021425
3 of	Voa Vıal 40ml - Hydrochloric Acid	240-219101-C-4	MW-79SR_021425
23	Voa Vial 40ml - Hydrochloric Acid	240-219101-B-4	MW-79SR_021425
	Voa Vial 40ml - Hydrochloric Acid	240-219101-A-4	MW-79SR_021425
	Voa Vial 40ml - Hydrochloric Acid	240-219101-F-3	MW-79D_021425
	Voa Vıal 40ml - Hydrochloric Acıd	240-219101-E-3	MW-79D_021425
	Voa Vial 40ml - Hydrochloric Acid	240-219101-D-3	MW-79D_021425
	Voa Vial 40ml - Hydrochloric Acid	240-219101-C-3	MW-79D_021425
	Voa Vial 40ml - Hydrochloric Acid	240-219101-B-3	MW-79D_021425
	Voa Vıal 40ml - Hydrochloric Acid	240-219101-A-3	MW 79D_021425
	Voa Vial 40ml - Hydrochloric Acıd	240-219101-F-2	MW-141S_021425
	Voa Vial 40ml - Hydrochloric Acid	240-219101-E-2	MW-141S_021425
	Voa Vial 40ml - Hydrochloric Acid	240-219101-D-2	MW-141S_021425
	Voa Vial 40ml - Hydrochloric Acid	240-219101-C-2	MW-141S_021425
	Voa Vial 40ml - Hydrochloric Acid	240-219101-B-2	MW-141S_021425
	Voa Vial 40ml - Hydrochloric Acid	240-219101-A-2	MW-141S_021425
	Voa Vial 40ml - Hydrochloric Acid	240-219101-A-1	TRIP BLANK_18
Container Preservation Preservation pH Temp Added Lot Number	Container Type	<u>Lab ID</u>	Chent Sample ID
Value and the second se			- C

DATA VERIFICATION REPORT



February 26, 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: 219101-1 Sample date: 2025-02-14

Report received by CADENA: 2025-02-26

Initial Data Verification completed by CADENA: 2025-02-26

Number of Samples:5 Sample Matrices:Water Test Categories:GCMS VOC

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

There were no significant QC anomalies or exceptions to report.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, 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 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: 219101-1

		Sample Name:	TRIP BL	ANK_18			MW-14	LS_0214	25		MW-791	0_02142	25		MW-79	SR_0214	25		DUP-11			
		Lab Sample ID:	240219	1011			240219	1012			240219	1013			240219	1014			240219	1015		
		Sample Date:	2/14/20	25			2/14/20	25			2/14/20	25			2/14/20	25			2/14/20	25		
				Report		Valid		Report		Valid		Report		Valid		Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC																						
OSW-8260)D																					
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l		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		ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		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		1.8	1.0	ug/l		0.76	1.0	ug/l	J	2.0	1.0	ug/l	
OSW-8260	<u>DDSIM</u>																					
	1,4-Dioxane	123-91-1					ND	2.0	ug/l		ND	2.0	ug/l		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 # 240-219101-1

CADENA Verification Report: 2025-02-26

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 58375R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-219101-1 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	Barant Sampla	Ana	lysis
Sample ID	Lab ID	Widtrix	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_18	240-219101-1	Water	02/14/2025		Х	
MW-141S_021425	240-219101-2	Water	02/14/2025		Х	Х
MW-79D_021425	240-219101-3	Water	02/14/2025		Х	Х
MW-79SR_021425	240-219101-4	Water	02/14/2025		Х	Х
DUP-11	240-219101-5	Water	02/14/2025	MW-79D_021425	Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

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

ORGANIC ANALYSIS INTRODUCTION

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

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

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

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

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

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

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

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

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

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field

duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-79D_021425 / DUP-11	Vinyl chloride	1.8	2.0	AC

The calculated RPDs between the parent sample and field duplicate were acceptable.

6. Compound Identification

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

All identified compounds met the specified criteria.

7. System Performance and Overall Assessment

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

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	oorted		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		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		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 18, 2025

PEER REVIEW: Andrew Korycinski

DATE: March 19, 2025

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record

MICHIGAN 190

<u>TestAmerica</u>

extAmerica Laboratory location. Farmington Hills — 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-219101-1

Project/Site: Ford LTP

Qualifiers GC/MS VOA

Qualifier **Qualifier Description**

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U Indicates the analyte was analyzed for but not detected.

Glossarv

C.000	
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" MCI

MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Cleveland

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2/26/2025

Client: Arcadis US Inc. Job ID: 240-219101-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_18

Lab Sample ID: 240-219101-1 Date Collected: 02/14/25 00:00

Matrix: Water

Date Received: 02/18/25 11:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/24/25 13:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/24/25 13:01	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 13:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/24/25 13:01	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 13:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/24/25 13:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137					02/24/25 13:01	1
4-Bromofluorobenzene (Surr)	89		56 ₋ 136					02/24/25 13:01	1
Toluene-d8 (Surr)	92		78 - 122					02/24/25 13:01	1
Dibromofluoromethane (Surr)	95		73 - 120					02/24/25 13:01	1

Eurofins Cleveland

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Client: Arcadis US Inc. Job ID: 240-219101-1

Project/Site: Ford LTP

Client Sample ID: MW-141S_021425

Date Collected: 02/14/25 08:50 Date Received: 02/18/25 11:20

Dibromofluoromethane (Surr)

Lab Sample ID: 240-219101-2

02/24/25 13:48

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			02/20/25 20:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		68 - 127			-		02/20/25 20:13	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			02/24/25 13:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/24/25 13:48	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 13:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/24/25 13:48	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 13:48	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/24/25 13:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137			_		02/24/25 13:48	1
4-Bromofluorobenzene (Surr)	89		56 - 136					02/24/25 13:48	1
Toluene-d8 (Surr)	96		78 - 122					02/24/25 13:48	1

73 - 120

Client: Arcadis US Inc. Job ID: 240-219101-1

Project/Site: Ford LTP

Client Sample ID: MW-79D_021425

Lab Sample ID: 240-219101-3 Date Collected: 02/14/25 10:05

Matrix: Water

02/24/25 14:12

Date Received: 02/18/25 11:20

Dibromofluoromethane (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/20/25 20:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		68 - 127			-		02/20/25 20:37	1
Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	iC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/24/25 14:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/24/25 14:12	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 14:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/24/25 14:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 14:12	1
Vinyl chloride	1.8		1.0	0.45	ug/L			02/24/25 14:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137			-		02/24/25 14:12	1
4-Bromofluorobenzene (Surr)	93		56 - 136					02/24/25 14:12	1
Toluene-d8 (Surr)	100		78 - 122					02/24/25 14:12	1

73 - 120

Client: Arcadis US Inc. Job ID: 240-219101-1

Project/Site: Ford LTP

Date Received: 02/18/25 11:20

Client Sample ID: MW-79SR_021425

Lab Sample ID: 240-219101-4 Date Collected: 02/14/25 11:27

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			02/20/25 21:00	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		68 - 127					02/20/25 21:00	
- Method: SW846 8260D - Volat	tile Organic Comp	ounds by G	SC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1.1-Dichloroethene			1.0		ua/l			02/24/25 14:35	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/24/25 14:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/24/25 14:35	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 14:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/24/25 14:35	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 14:35	1
Vinyl chloride	0.76	J	1.0	0.45	ug/L			02/24/25 14:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137	_		02/24/25 14:35	1
4-Bromofluorobenzene (Surr)	87		56 ₋ 136			02/24/25 14:35	1
Toluene-d8 (Surr)	94		78 - 122			02/24/25 14:35	1
Dibromofluoromethane (Surr)	93		73 - 120			02/24/25 14:35	1

Client: Arcadis US Inc. Job ID: 240-219101-1

Project/Site: Ford LTP

Tetrachloroethene

trans-1,2-Dichloroethene

Client Sample ID: DUP-11 Lab Sample ID: 240-219101-5 Date Collected: 02/14/25 00:00

Matrix: Water

02/24/25 14:58

02/24/25 14:58

Date Received: 02/18/25 11:20

	/olatile Organic C	ompounds	(GC/IVIS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/20/25 21:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		68 - 127			•		02/20/25 21:24	1
- Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	iC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result 1.0		RL	MDL 0.49		<u>D</u>	Prepared	Analyzed 02/24/25 14:58	Dil Fac

1.0

1.0

0.44 ug/L

0.51 ug/L

Trichloroethene	1.0	U	1.0	0.44	ug/L		02/24/25 14:58	1
Vinyl chloride	2.0		1.0	0.45	ug/L		02/24/25 14:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		62 - 137				02/24/25 14:58	1
4-Bromofluorobenzene (Surr)	90		56 ₋ 136				02/24/25 14:58	1
Toluene-d8 (Surr)	94		78 - 122				02/24/25 14:58	1
Dibromofluoromethane (Surr)	95		73 - 120				02/24/25 14:58	1

1.0 U

1.0 U

2/26/2025