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ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 2/20/2025 7:55:11 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-218883-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



Eurofins Cleveland

Job Notes

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Authorization

Generated 2/20/2025 7:55:11 AM

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

Laboratory Job ID: 240-218883-1

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-218883-1

Project/Site: Ford LTP

Qualifiers GC/MS VOA

Qualifier **Qualifier Description**

F2 MS/MSD RPD exceeds control limits

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

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

Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-218883-1 Eurofins Cleveland

Job Narrative 240-218883-1

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 2/13/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.9°C.

GC/MS VOA

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

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Job ID: 240-218883-1

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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-218883-1

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: 240-218883-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-218883-1	TRIP BLANK_60	Water	02/10/25 00:00	02/13/25 08:00
240-218883-2	MW-93S_021025	Water	02/10/25 13:25	02/13/25 08:00

Detection Summary

Client: Arcadis US Inc. Job ID: 240-218883-1 Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_60 Lab Sample ID: 240-218883-1

No Detections.

Client Sample ID: MW-93S_021025 Lab Sample ID: 240-218883-2

No Detections.

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-218883-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_60

Date Received: 02/13/25 08:00

Lab Sample ID: 240-218883-1 Date Collected: 02/10/25 00:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/15/25 13:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/15/25 13:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/15/25 13:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/15/25 13:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/15/25 13:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/15/25 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		02/15/25 13:58	1
4-Bromofluorobenzene (Surr)	89		56 ₋ 136					02/15/25 13:58	1
Toluene-d8 (Surr)	98		78 - 122					02/15/25 13:58	1
Dibromofluoromethane (Surr)	102		73 - 120					02/15/25 13:58	1

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-218883-1

Project/Site: Ford LTP

Client Sample ID: MW-93S_021025

Date Collected: 02/10/25 13:25

Date Received: 02/13/25 08:00

Lab	Sample	ID: 240-218883-2
		Motrice Weter

Method: SW846 8260D SIM - V	olatile 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			02/18/25 13:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		68 - 127			_		02/18/25 13:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/16/25 00:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/16/25 00:53	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/16/25 00:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/16/25 00:53	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/16/25 00:53	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/16/25 00:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualify	ier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112	62 - 137		02/16/25 00:53	1
4-Bromofluorobenzene (Surr)	86	56 - 136		02/16/25 00:53	1
Toluene-d8 (Surr)	96	78 - 122		02/16/25 00:53	1
Dibromofluoromethane (Surr)	101	73 - 120		02/16/25 00:53	1

2/20/2025

Surrogate Summary

Client: Arcadis US Inc. Job ID: 240-218883-1 Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Sui	rrogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-218828-A-8 MS	Matrix Spike	105	97	101	100
240-218828-A-8 MSD	Matrix Spike Duplicate	115	92	91	105
240-218828-C-1 MS	Matrix Spike	102	95	97	98
240-218828-C-1 MSD	Matrix Spike Duplicate	101	97	97	98
240-218883-1	TRIP BLANK_60	112	89	98	102
240-218883-2	MW-93S_021025	112	86	96	101
LCS 240-644941/6	Lab Control Sample	101	95	100	99
LCS 240-644951/4	Lab Control Sample	100	97	103	97
MB 240-644941/12	Method Blank	110	91	99	100
MB 240-644951/10	Method Blank	109	86	98	100

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-218883-2	MW-93S_021025	98	
240-218897-C-4 MS	Matrix Spike	101	
240-218897-C-4 MSD	Matrix Spike Duplicate	99	
LCS 240-645195/4	Lab Control Sample	98	
MB 240-645195/7	Method Blank	97	
Surrogate Legend			

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Client: Arcadis US Inc. Job ID: 240-218883-1

Project/Site: Ford LTP Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 240-644941/12

Matrix: Water

Analysis Batch: 644941

Client Sample	ID:	Method	Blank
D.	on'	Type: To	tol/NIA

Prep Type: Total/NA

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/15/25 12:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/15/25 12:47	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/15/25 12:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/15/25 12:47	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/15/25 12:47	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/15/25 12:47	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 02/15/25 12:47 110 4-Bromofluorobenzene (Surr) 91 56 - 136 02/15/25 12:47 02/15/25 12:47 Toluene-d8 (Surr) 99 78 - 122 Dibromofluoromethane (Surr) 100 73 - 120 02/15/25 12:47

Lab Sample ID: LCS 240-644941/6

Matrix: Water

Analysis Batch: 644941

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	25.0	24.3		ug/L		97	63 - 134	
cis-1,2-Dichloroethene	25.0	24.6		ug/L		98	77 - 123	
Tetrachloroethene	25.0	26.2		ug/L		105	76 - 123	
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	75 - 124	
Trichloroethene	25.0	24.1		ug/L		96	70 - 122	
Vinyl chloride	25.0	23.6		ug/L		94	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 101 62 - 137 4-Bromofluorobenzene (Surr) 56 - 136 95 Toluene-d8 (Surr) 100 78 - 122 73 - 120 Dibromofluoromethane (Surr) 99

Analysis Batch: 644941

Lab Sample ID: 240-218828-C-1 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	5.0	U	125	113		ug/L		91	56 - 135	
cis-1,2-Dichloroethene	9.2		125	132		ug/L		99	66 - 128	
Tetrachloroethene	120		125	223		ug/L		80	62 - 131	
trans-1,2-Dichloroethene	5.0	U	125	122		ug/L		98	56 - 136	
Trichloroethene	13		125	127		ug/L		91	61 - 124	
Vinyl chloride	5.0	U	125	112		ug/L		90	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		62 - 137
4-Bromofluorobenzene (Surr)	95		56 - 136
Toluene-d8 (Surr)	97		78 - 122

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Client: Arcadis US Inc. Job ID: 240-218883-1

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

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 644941

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

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

Lab Sample ID: 240-218828-C-1 MSD

Lab Sample ID: 240-218828-C-1 MS

Matrix: Water

Analysis Batch: 644941

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	5.0	U	125	115		ug/L		92	56 - 135	2	26
cis-1,2-Dichloroethene	9.2		125	130		ug/L		97	66 - 128	2	14
Tetrachloroethene	120		125	213		ug/L		72	62 - 131	4	20
trans-1,2-Dichloroethene	5.0	U	125	120		ug/L		96	56 - 136	2	15
Trichloroethene	13		125	126		ug/L		91	61 - 124	1	15
Vinyl chloride	5.0	U	125	114		ug/L		92	43 - 157	2	24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		62 - 137
4-Bromofluorobenzene (Surr)	97		56 - 136
Toluene-d8 (Surr)	97		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

Client Sample ID: Method Blank

Prep Type: Total/NA

Analysis Batch: 644951

Matrix: Water

Lab Sample ID: MB 240-644951/10

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/16/25 00:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/16/25 00:30	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/16/25 00:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/16/25 00:30	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/16/25 00:30	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/16/25 00:30	1

MB MB

Surrogate	%Recovery (Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109	62 - 137		02/16/25 00:30	1
4-Bromofluorobenzene (Surr)	86	56 - 136		02/16/25 00:30	1
Toluene-d8 (Surr)	98	78 - 122		02/16/25 00:30	1
Dibromofluoromethane (Surr)	100	73 - 120		02/16/25 00:30	1

Lab Sample ID:

Matrix: Water

Analysis Batch:

: LCS 240-644951/4	Client Sample ID: Lab Control Sample
	Prep Type: Total/NA
ı: 644951	

	Spike	LCS	LCS			%Rec	
Analyte	Added	Result	Qualifier	Unit	D %Rec	Limits	
1,1-Dichloroethene	25.0	22.2		ug/L	89	63 - 134	
cis-1,2-Dichloroethene	25.0	23.7		ug/L	95	77 - 123	
Tetrachloroethene	25.0	23.8		ug/L	95	76 - 123	
trans-1,2-Dichloroethene	25.0	23.4		ug/L	93	75 - 124	
Trichloroethene	25.0	22.7		ug/L	91	70 - 122	

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QC Sample Results

Client: Arcadis US Inc. Job ID: 240-218883-1

Project/Site: Ford LTP

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

Lab Sample ID: LCS 240-644951/4 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water Analysis Batch: 644951

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Vinyl chloride 25.0 21.3 85 60 - 144 ug/L

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 100 62 - 137 56 - 136 4-Bromofluorobenzene (Surr) 97 Toluene-d8 (Surr) 78 - 122 103 Dibromofluoromethane (Surr) 97 73 - 120

Lab Sample ID: 240-218828-A-8 MS

Analysis Batch: 644951

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

Sample Sample Spike MS MS %Rec Result Qualifier babbA Result Qualifier %Rec Limits Analyte Unit 1,1-Dichloroethene 5.0 U 125 96.8 ug/L 77 56 - 135 20 125 cis-1,2-Dichloroethene 134 ug/L 91 66 - 128 trans-1,2-Dichloroethene 5.0 U 125 109 87 56 - 136 ug/L 37 F2 75 Trichloroethene 125 130 ug/L 61 - 124 Vinyl chloride 125 82 5.0 UF2 103 ug/L 43 - 157

MS MS Surrogate %Recovery Qualifier Limits 62 - 137 1,2-Dichloroethane-d4 (Surr) 105 4-Bromofluorobenzene (Surr) 97 56 - 136 Toluene-d8 (Surr) 101 78 - 122 73 - 120 Dibromofluoromethane (Surr)

100

Lab Sample ID: 240-218828-A-8 MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Analysis Batch: 644951

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	5.0	U	125	121		ug/L		97	56 - 135	22	26
cis-1,2-Dichloroethene	20		125	152		ug/L		106	66 - 128	13	14
trans-1,2-Dichloroethene	5.0	U	125	118		ug/L		94	56 - 136	8	15
Trichloroethene	37	F2	125	162	F2	ug/L		101	61 - 124	22	15
Vinyl chloride	5.0	U F2	125	141	F2	ug/L		113	43 - 157	31	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	115		62 - 137
4-Bromofluorobenzene (Surr)	92		56 - 136
Toluene-d8 (Surr)	91		78 - 122
Dibromofluoromethane (Surr)	105		73 - 120

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Prep Type: Total/NA

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

Job ID: 240-218883-1

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

Lab Sample ID: MB 240-645195/7 Client Sample ID: Method Blank

Matrix: Water Prep Type: Total/NA

Analysis Batch: 645195

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/18/25 12:03	1

MB MB

MD MD

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 68 - 127 02/18/25 12:03 1,2-Dichloroethane-d4 (Surr) 97

Lab Sample ID: LCS 240-645195/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 645195

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	10.0	9.49		ug/L		95	75 - 121	

LCS LCS

2.1

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

Client Sample ID: Matrix Spike Lab Sample ID: 240-218897-C-4 MS Prep Type: Total/NA

Matrix: Water

Analysis Batch: 645195									·	
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	

11.7

ug/L

97

20 - 180

Prep Type: Total/NA

10.0

MS MS

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

Lab Sample ID: 240-218897-C-4 MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Water

1,4-Dioxane

Analysis Batch: 645195

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1.4-Dioyane	2 1		10.0	11.8		ua/l		97	20 180		20

MSD MSD

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

QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-218883-1

GC/MS VOA

Analysis Batch: 644941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch	
240-218883-1	TRIP BLANK_60	Total/NA	Water	8260D	
MB 240-644941/12	Method Blank	Total/NA	Water	8260D	
LCS 240-644941/6	Lab Control Sample	Total/NA	Water	8260D	
240-218828-C-1 MS	Matrix Spike	Total/NA	Water	8260D	
240-218828-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 644951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
240-218883-2	MW-93S_021025	Total/NA	Water	8260D	_
MB 240-644951/10	Method Blank	Total/NA	Water	8260D	
LCS 240-644951/4	Lab Control Sample	Total/NA	Water	8260D	
240-218828-A-8 MS	Matrix Spike	Total/NA	Water	8260D	
240-218828-A-8 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 645195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-218883-2	MW-93S_021025	Total/NA	Water	8260D SIM	- <u> </u>
MB 240-645195/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-645195/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-218897-C-4 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-218897-C-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-218883-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_60

Lab Sample ID: 240-218883-1 Date Collected: 02/10/25 00:00

Matrix: Water

Date Received: 02/13/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	644941	MS	EET CLE	02/15/25 13:58

Client Sample ID: MW-93S_021025 Lab Sample ID: 240-218883-2

Date Collected: 02/10/25 13:25 Matrix: Water

Date Received: 02/13/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	644951	MS	EET CLE	02/16/25 00:53
Total/NA	Analysis	8260D SIM		1	645195	R5XG	EET CLE	02/18/25 13:14

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis US Inc. Job ID: 240-218883-1 Project/Site: Ford LTP

Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
lowa	State	421	06-01-25
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

MICHIGAN 190

1.9/1.9

Chain of Custody Record

TestAmeric	a
THE RESIDENCE OF STREET, STREE	11015

TestAmerica Laboratory location: Farmington Hills — 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331 Client Contact ☐ RCRA Regulatory program: NPDES Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Megan Meckley Site Contact: Samantha Szpaichler Lab Contact: Mike DelMonico COC No: Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 330-497-9396 Telephone: 248-994-2240 1 of 1 COCs City/State/Zip: Novi, MI, 48377 Analysis Turnaround Time Analyses For lab use only Email: kristoffer.hinskey@arcadis.com Phone: 248-994-2240 Walk-in client Sampler Name: Project Name: Ford LTP 3 weeks JOE FOUTIK ✓ 2 weeks Lab sampling Project Number: 30206169.0401.03 1 week 1,4-Dioxane 8260D SIM Frans-1,2-DCE 8260D 2 days Vinyl Chloride 8260D PO # US3460021848 Shipping/Tracking No: 「 1 day Job/SDG No Containers & Preservatives PCE 8260D TCE 8260D Sample Specific Notes / NaOH ZnAt/ NaOH Unpres HNO3 Solid Special Instructions: Ε Sample Date | Sample Time Sample Identification TRIP BLANK_ 60 NGXXX 1 Trip Blank 3 VOAs for 8260D MW-935_020025 6 6 2/10/25 1325 $\times \times$ 3 VOAs for 8260D SIM 240-218883 COC Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client

Disposal By Lab Archive For Mo Possible Hazard Identification in Irritant Poison B "lammable Non-Hazard Special Instructions/QC Requirements & Comments: 11775 BOSTON POST Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728 evel IV Reporting requested. Relinquished by: 1500 2/10/25 NOVI Relinquished by 2/12/25 Date/Time: Received in Laboratory by: Relinquished by

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 after the recommended holding time had expired. Sample(s)were received in a broken container
19 SAMPLE CONDITION
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
Concerning
Contacted PM Date by via Verbal Voice Mail Other
17 Was a LL Hg or Me Hg trip blank present? Yes (No
Were aur bubbles >6 mm in any VOA vials? Larger than this. Yes
Yes See
If yes, Questions 13-17 have been checked at the originating laboratory
Were correct bottle(s) used for the test(s) indicated?
Could all bottle labels (ID/Date/Time) be reconciled with the COC? (Co) (Co)
7 Did all bottles arrive in good condition (Unbroken)?
Were the custody papers relinquished & signed in the appropriate place?
Did custody papers accompany the sample(s)?
-Were tamper/custody seals intact and uncompromised? 3 Shinners' packing slip attached to the cooler(s)? Yes (No.) Your Property of the cooler (s)?
g/MeHg)? Yes A
YES NO NA
Observed Cooler Temp. 167
COOLANT: Wet Ice Blue Ice Dry Ice Water None
Chent Cooler Box Oth
Drop-off Date/Time Storage Location
xp UPS FAS Waypoint
Received on 2-13-25 Opened on 2-13-25
Chent Arma (Cooley, uppacked by
Eurolins Cleveland Sample Receipt Form/Narrative Login # :: Batherton Pacility

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Login Container Summary Report

240-218883

Temperature readings

MW-93S_021025	MW-93S_021025	MW-93S_021025	MW-93S_021025	MW-93S_021025	MW-93S_021025	TRIP BLANK_60	Client Sample ID
240-218883-G-2	240-218883-E-2	240-218883-D-2	240-218883-C-2	240-218883-B-2	240-218883-A-2	240-218883-A-1	<u>Lab ID</u>
Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acıd	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Container Type			
						The state of the s	Container Preservation Preservation pH Temp Added Lot Number

Page 21 of 21 2/20/2025

Page 1 of 1

DATA VERIFICATION REPORT



February 20, 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: 218883-1 Sample date: 2025-02-10

Report received by CADENA: 2025-02-20

Initial Data Verification completed by CADENA: 2025-02-20

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:

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

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

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

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 $48108\ 517\text{-}819\text{-}0356$

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 218883-1

		Sample Name:	TRIP BLA	ANK_60			MW-939	5_02102	5	
		Lab Sample ID:	240218	8831			240218	8832		
		Sample Date:	2/10/20	25			2/10/20	25		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260	<u>)D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-8260	<u>DSIM</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 # 240-218883-1

CADENA Verification Report: 2025-02-20

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 58357R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-218883-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Parent Sample	Ana	lysis
Sample ID	Labib	Watrix	Collection Date	raient Sample	voc	VOC SIM
TRIP BLANK_60	240-218883-1	Water	02/10/2025		Х	
MW-93S_021025	240-218883-2	Water	02/10/2025		Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

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

ORGANIC ANALYSIS INTRODUCTION

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

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

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

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

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

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

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

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

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

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

6. Compound Identification

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

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

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

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	Reported		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		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: March 17, 2025

PEER REVIEW: Andrew Korycinski

DATE: March 19, 2025

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

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1.9/1.9

Chain of Custody Record

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TestAmerica Laboratory location: Farmington Hills — 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331 Client Contact ☐ RCRA Regulatory program: NPDES Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Megan Meckley Site Contact: Samantha Szpaichler Lab Contact: Mike DelMonico COC No: Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 330-497-9396 Telephone: 248-994-2240 1 of 1 COCs City/State/Zip: Novi, MI, 48377 Analysis Turnaround Time Analyses For lab use only Email: kristoffer.hinskey@arcadis.com Phone: 248-994-2240 Walk-in client Sampler Name: Project Name: Ford LTP 3 weeks JOE FOUTIK ✓ 2 weeks Lab sampling Project Number: 30206169.0401.03 1 week 1,4-Dioxane 8260D SIM Frans-1,2-DCE 8260D 2 days Vinyl Chloride 8260D PO # US3460021848 Shipping/Tracking No: 「 1 day Job/SDG No Containers & Preservatives PCE 8260D TCE 8260D Sample Specific Notes / NaOH ZnAt/ NaOH Unpres HNO3 Solid Special Instructions: Ε Sample Date | Sample Time Sample Identification TRIP BLANK_ 60 NGXXX 1 Trip Blank 3 VOAs for 8260D MW-935_020025 6 6 2/10/25 1325 $\times \times$ 3 VOAs for 8260D SIM 240-218883 COC Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client

Disposal By Lab Archive For Mo Possible Hazard Identification in Irritant Poison B "lammable Non-Hazard Special Instructions/QC Requirements & Comments: 11775 BOSTON POST Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728 evel IV Reporting requested. Relinquished by: 1500 2/10/25 NOVI Relinquished by 2/12/25 Date/Time: Received in Laboratory by: Relinquished by

Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-218883-1

Project/Site: Ford LTP

Qualifiers GC/MS VOA

Qualifier **Qualifier Description**

F2 MS/MSD RPD exceeds control limits

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

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

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-218883-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_60

Date Received: 02/13/25 08:00

Lab Sample ID: 240-218883-1 Date Collected: 02/10/25 00:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/15/25 13:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/15/25 13:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/15/25 13:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/15/25 13:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/15/25 13:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/15/25 13:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		02/15/25 13:58	1
4-Bromofluorobenzene (Surr)	89		56 ₋ 136					02/15/25 13:58	1
Toluene-d8 (Surr)	98		78 - 122					02/15/25 13:58	1
Dibromofluoromethane (Surr)	102		73 - 120					02/15/25 13:58	1

Eurofins Cleveland

2/20/2025

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-218883-1

Project/Site: Ford LTP

Client Sample ID: MW-93S_021025

Date Collected: 02/10/25 13:25

Date Received: 02/13/25 08:00

Lab	Sample	ID: 240-218883-2
		Motrice Weter

Method: SW846 8260D SIM - V	olatile 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			02/18/25 13:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		68 - 127			_		02/18/25 13:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/16/25 00:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/16/25 00:53	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/16/25 00:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/16/25 00:53	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/16/25 00:53	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/16/25 00:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualify	ier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112	62 - 137		02/16/25 00:53	1
4-Bromofluorobenzene (Surr)	86	56 - 136		02/16/25 00:53	1
Toluene-d8 (Surr)	96	78 - 122		02/16/25 00:53	1
Dibromofluoromethane (Surr)	101	73 - 120		02/16/25 00:53	1

2/20/2025