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# **ANALYTICAL REPORT**

# PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 3/5/2025 7:10:08 AM

# **JOB DESCRIPTION**

Ford LTP

# **JOB NUMBER**

240-219441-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



# **Eurofins Cleveland**

# **Job Notes**

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

# **Authorization**

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

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

Laboratory Job ID: 240-219441-1

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# **Definitions/Glossary**

Client: Arcadis US Inc. Job ID: 240-219441-1

Project/Site: Ford LTP

# **Qualifiers**

		MAC	VOA	
U	U	IVIO	VUA	

Qualifier

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

**Qualifier Description** 

# Glossary

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
<del>\tilde</del>	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)

DLO	Doddon Lover Concontration (Made
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)

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

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

NC Not Calculated

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

 NEG
 Negative / Absent

 POS
 Positive / Present

 PQL
 Practical Quantitation Limit

PRES Presumptive

QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

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# **Case Narrative**

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-219441-1 Eurofins Cleveland

Job Narrative 240-219441-1

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 2/26/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.7°C and 5.0°C.

### GC/MS VOA

Method 8260D: The surrogates are outside the QC limit but is reported as batch QC.

(240-219441-C-2 MS) and (240-219441-F-2 MSD)

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: 240-219441-1

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# **Method Summary**

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219441-1

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: 240-219441-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-219441-1	TRIP BLANK_63	Water	02/21/25 00:00	02/26/25 08:00
240-219441-2	MW-172S_022125	Water	02/21/25 11:50	02/26/25 08:00

# **Detection Summary**

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219441-1

Client Sample ID: TRIP BLANK\_63 Lab Sample ID: 240-219441-1

No Detections.

Client Sample ID: MW-172S\_022125 Lab Sample ID: 240-219441-2

No Detections.

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# **Client Sample Results**

Client: Arcadis US Inc. Job ID: 240-219441-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK\_63

Date Received: 02/26/25 08:00

Lab Sample ID: 240-219441-1 Date Collected: 02/21/25 00:00

**Matrix: Water** 

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 1.0 1,1-Dichloroethene 1.0 U 0.49 ug/L 03/03/25 11:52 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 03/03/25 11:52 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 03/03/25 11:52 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 03/03/25 11:52 Trichloroethene 1.0 U 1.0 0.44 ug/L 03/03/25 11:52 Vinyl chloride 0.45 ug/L 1.0 U 1.0 03/03/25 11:52 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 116 62 - 137 03/03/25 11:52 4-Bromofluorobenzene (Surr) 105 03/03/25 11:52 56 - 136 78 - 122 03/03/25 11:52 Toluene-d8 (Surr) 103 Dibromofluoromethane (Surr) 102 73 - 120 03/03/25 11:52

# **Client Sample Results**

Client: Arcadis US Inc. Job ID: 240-219441-1

Project/Site: Ford LTP

Date Received: 02/26/25 08:00

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Client Sample ID: MW-172S\_022125

Lab Sample ID: 240-219441-2 Date Collected: 02/21/25 11:50

99

99

100

Matrix: Water

03/03/25 12:15

03/03/25 12:15

03/03/25 12:15

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/03/25 12:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		68 - 127					03/03/25 12:29	1
Method: SW846 8260D - Volat	ile 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			03/03/25 12:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/03/25 12:15	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 12:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/03/25 12:15	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 12:15	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/03/25 12:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		03/03/25 12:15	

56 - 136

78 - 122

73 - 120

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# **Surrogate Summary**

Client: Arcadis US Inc.

Job ID: 240-219441-1

Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-219441-1	TRIP BLANK_63	116	105	103	102
240-219441-2	MW-172S_022125	115	99	99	100
240-219441-2 MS	MW-172S_022125	130	130	126 S1+	121 S1+
240-219441-2 MSD	MW-172S_022125	132	132	128 S1+	126 S1+
LCS 240-646571/4	Lab Control Sample	104	103	101	99
MB 240-646571/7	Method Blank	120	101	101	108

# 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)	
240-219441-2	MW-172S_022125	97	
240-219499-B-3 MS	Matrix Spike	100	
240-219499-B-3 MSD	Matrix Spike Duplicate	99	
LCS 240-646573/5	Lab Control Sample	99	
MB 240-646573/7	Method Blank	96	

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

**Eurofins Cleveland** 

Client: Arcadis US Inc. Job ID: 240-219441-1

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

Lab Sample ID: MB 240-646571/7

**Matrix: Water** Analysis Batch: 646571

Project/Site: Ford LTP

Client Sample ID: Method Blank

Prep Type: Total/NA

ı		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			03/03/25 11:06	1
	cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/03/25 11:06	1
	Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 11:06	1
	trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/03/25 11:06	1
	Trichloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 11:06	1
	Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/03/25 11:06	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 03/03/25 11:06 120 4-Bromofluorobenzene (Surr) 101 56 - 136 03/03/25 11:06 03/03/25 11:06 Toluene-d8 (Surr) 101 78 - 122 Dibromofluoromethane (Surr) 108 73 - 120 03/03/25 11:06

Lab Sample ID: LCS 240-646571/4

**Matrix: Water** 

Analysis Batch: 646571

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	23.2		ug/L		93	63 - 134	
cis-1,2-Dichloroethene	25.0	23.9		ug/L		96	77 - 123	
Tetrachloroethene	25.0	22.5		ug/L		90	76 - 123	
trans-1,2-Dichloroethene	25.0	23.0		ug/L		92	75 - 124	
Trichloroethene	25.0	23.1		ug/L		92	70 - 122	
Vinyl chloride	12.5	11.5		ug/L		92	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 104 62 - 137 4-Bromofluorobenzene (Surr) 103 56 - 136 Toluene-d8 (Surr) 101 78 - 122 73 - 120 Dibromofluoromethane (Surr) 99

**Matrix: Water** 

Analysis Batch: 646571

Lab Sample ID: 240-219441-2 MS Client Sample ID: MW-172S\_022125 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	25.0	21.4		ug/L		85	56 - 135	
cis-1,2-Dichloroethene	1.0	U	25.0	22.1		ug/L		88	66 - 128	
Tetrachloroethene	1.0	U	25.0	19.5		ug/L		78	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	21.9		ug/L		88	56 - 136	
Trichloroethene	1.0	U	25.0	20.4		ug/L		82	61 - 124	
Vinyl chloride	1.0	U	12.5	11.5		ug/L		92	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	130		62 - 137
4-Bromofluorobenzene (Surr)	130		56 - 136
Toluene-d8 (Surr)	126	S1+	78 - 122

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Job ID: 240-219441-1

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

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

MS MS

Lab Sample ID: 240-219441-2 MS Client Sample ID: MW-172S\_022125

**Matrix: Water** 

Analysis Batch: 646571

Prep Type: Total/NA

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 121 S1+ 73 - 120

Lab Sample ID: 240-219441-2 MSD Client Sample ID: MW-172S 022125 Prep Type: Total/NA

**Matrix: Water** 

Analysis Batch: 646571

_	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0	U	25.0	21.9		ug/L		87	56 - 135	2	26
cis-1,2-Dichloroethene	1.0	U	25.0	22.9		ug/L		92	66 - 128	4	14
Tetrachloroethene	1.0	U	25.0	21.1		ug/L		84	62 - 131	8	20
trans-1,2-Dichloroethene	1.0	U	25.0	22.5		ug/L		90	56 - 136	3	15
Trichloroethene	1.0	U	25.0	20.7		ug/L		83	61 - 124	1	15
Vinyl chloride	1.0	U	12.5	10.8		ug/L		86	43 - 157	6	24

MSD MSD %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 132 62 - 137 4-Bromofluorobenzene (Surr) 132 56 - 136 Toluene-d8 (Surr) 128 S1+ 78 - 122 Dibromofluoromethane (Surr) 126 S1+ 73 - 120

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

**Matrix: Water** 

Analysis Batch: 646573

Lab Sample ID: MB 240-646573/7

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/03/25 10:45	1

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 96 68 - 127 03/03/25 10:45

Lab Sample ID: LCS 240-646573/5

**Matrix: Water** 

Analysis Batch: 646573

	Spike	LCS LCS				%Rec
Analyte	Added	Result Qualifie	r Unit	D	%Rec	Limits
1.4-Dioyane		9 28	ua/l		93	75 121

LCS LCS

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

Lab Sample ID: 240-219499-B-3 MS

**Matrix: Water** 

Analysis Batch: 646573										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1.4-Dioxane	2.0	U	10.0	9.61		ua/L		96	20 - 180	

Prep Type: Total/NA

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

Client Sample ID: Method Blank

# **QC Sample Results**

Client: Arcadis US Inc. Job ID: 240-219441-1

Project/Site: Ford LTP

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

%Recovery Qualifier

99

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		68 - 127

Lab Sam	ple ID:	240-2	19499-B-	3 MSD
Lub Ouiii	PIC 10		10400 0	0 11100

**Matrix: Water** 

Surrogate

1,2-Dichloroethane-d4 (Surr)

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	9.63		ug/L		96	20 - 180	0	20
	MSD	MSD									

Limits

68 - 127

**Prep Type: Total/NA** 

**Client Sample ID: Matrix Spike Duplicate** 

# **QC Association Summary**

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219441-1

GC/MS VOA

# Analysis Batch: 646571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219441-1	TRIP BLANK_63	Total/NA	Water	8260D	
240-219441-2	MW-172S_022125	Total/NA	Water	8260D	
MB 240-646571/7	Method Blank	Total/NA	Water	8260D	
LCS 240-646571/4	Lab Control Sample	Total/NA	Water	8260D	
240-219441-2 MS	MW-172S_022125	Total/NA	Water	8260D	
240-219441-2 MSD	MW-172S_022125	Total/NA	Water	8260D	

# Analysis Batch: 646573

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219441-2	MW-172S_022125	Total/NA	Water	8260D SIM	
MB 240-646573/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-646573/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-219499-B-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-219499-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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# **Lab Chronicle**

Client: Arcadis US Inc. Job ID: 240-219441-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK\_63

Lab Sample ID: 240-219441-1 Date Collected: 02/21/25 00:00

Matrix: Water

Date Received: 02/26/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	646571	LEE	EET CLE	03/03/25 11:52

Client Sample ID: MW-172S\_022125 Lab Sample ID: 240-219441-2

Date Collected: 02/21/25 11:50 Matrix: Water

Date Received: 02/26/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	646571	LEE	EET CLE	03/03/25 12:15
Total/NA	Analysis	8260D SIM		1	646573	R5XG	EET CLE	03/03/25 12:29

Laboratory References:

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

# **Accreditation/Certification Summary**

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219441-1

# **Laboratory: Eurofins Cleveland**

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

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

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# Chain of Custody Record



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

		,												-														
Client Contact	Regulat	ory program:			)W		NPD	ES		┌ RC	RA	Γ-	Othe	er														
Company Name: Arcadis	Client Project	Manager: Meg	an Mecki	ley		Site	Cont	act: S	Sama	ntha S	zpaichle	er		_	Lab (	Contac	t: Mik	e Dell	Monic	D	+				TestAmer COC No:	ica Labor	atories,	, Inc.
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	904 2240				Tal		24		4-2240				_	Telephone: 330-497-9396					$\dashv$			_	$\dashv$				
City/State/Zip: Novi, MI, 48377	i elephone: 248	-774-2240													гелер	none:	330-47	_						_	1 0	f 1	COCs	
Phone: 248-994-2240	Email: kristoff	er.hinskey@are	cadis.con	n		-	Amal	yeas T	urna	round	Time							A	nalys	es		_		_	For lab use	only		
FHUNC: 240-774-2240	Sampler Name	:				TA	r ir ditt	erent fro	om bel	low														ŀ	Walk-in cli	ent		
Project Name: Ford LTP	l R	lbeara	Co	shì	aan	.   .	10 da			weeks weeks						İ									Lab sampli	ng	and and	
Project Number: 30206169.0401.03	Method of Ship			U						week days		2	Ö			9				SIM								14
PO # US3460021848	Shipping/Track	ting No:							F 1			mple (Y / N)	/Grat	QC	3260D	E 8260D			8260	3260D				þ	Job/SDG N	0:		
				Matr	iX.		Con	tainers	& P	reserva	tives		Î	826	SE	2-DC	9	8	oride	ane (			i	- }		Topics.		
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Possible Hazard Identification  Non-Hazard Tammable Sin Irritant	Poiso	n B	Jnknow	/n		8		e Disp Returr			may be	Dispos	sed if sal By	sampi Lab	es are		ed lon		an I r		onths							
Special Instructions/QC Requirements & Comments:	1 Rocto	n Doct																				_						$\neg$
Submit all results through Cadena at jtomalia@cadenaco.co	Boston om. Cadena #E	203728																										
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reservation - Da
Sample(s) were further preserved in the laboratory  Time preserved Preservative(s) added/Lot number(s).
20. SAMPLE PRESERVATION
were received with bu
Sample(s) were received after the recommended holding time had expired.  Sample(s) were received in a broken container
PLE CONDITION
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
Concerning
Contacted PMDatebyvia Verbal Voice Mail Other
17 Was a LL Hg or Me Hg trip blank present? Yes No
Were air bubbles >6 mm in any VOA vials?  Was a VOA trin blank present in the cooler(s)? Trin Blank I of #
13 Were all preserved sample(s) at the correct pH upon receipt?  Yes No (NA) pH Strip Lot# HC448976  Were VOAs on the COC?
12 Are these work share samples and all listed on the COC?  If ves. Ouestions 13-17 have been checked at the originating laboratory
Sufficient quantity received to perform indicated analyses?
(Q/N), # of contamers (Y/N), a
Was/were the person(s) who collected the samples clearly identified on the COC?
4 Did custody papers accompany the sample(s)?  5 Were the custody papers relinquished & signed in the appropriate place?  Yes No
Shippers' packing slip attached to the cooler(s)?  Yes (10)
-Were tamper/custody seals in tact and uncompromised?  -Were tamper/custody seals intact and uncompromised?  -Were tamper/custody seals intact and uncompromised?  -Wese No. NA
Were the seals on the outside of the cooler(s) signed & dated?
er/custody seals on the outside of the cooler(s)? If Yes Onanhty
IR GUN# (CF 'C) Observed Cooler Temp °C Corrected Cooler Temp °C
COOLANT Wet Ice Blue Ice Dry Ice Water None
Packing material used Childre Wran > Foam Plastic Bag None Other
urs' Drop-off Date/Time
FedEx: 1 <sup>st</sup> Grd Exp UPS FAS (Waypoint) Client Drop Off Eurofins, Courter Other
O-O'-O' Site Name
Armi'
id Sample Receip

Page 19 of 21

R GUN #:	Other IR G	Box	C Client	
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Wet ice   Wet				
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IR GUN # Wel ice Blue ice Dry ice Water None	Other IR 6	† Box	C Client	D3
IR GUN #: Wel ice Blue ice Dry ice Water None	Other IR G	f Box	C Client	<del>ا</del> ر
IR GUN #: Weltice Blue ice Dry ice Water None	Other IR G	† Box	C Client	23
Wel Ice	Other IR 6	t Box	C Client	EC
	Other IR G	t box	C Client	EC
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16 2.7 Mellow Mal	Other IR G	Box	Client	(F)
2) 3A SO Western	Other IR G	box t	) cli	(G)
IR Gun # Observed Corrected Coolant (Circle) Temp °C (Circle)		Cooler Description (Circle)	Cooler I	

WI-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

Page 20 of 21 3/5/2025

2/26/2025

# **Login Container Summary Report**

240-219441

MW-172S_022125	MW-172S_022125	MW-172S_022125	MW-172S_022125	MW-172S_022125	MW-172S_022125	TRIP BLANK_63	Chent Sample ID	Temperature readings
240-219441-F-2	240-219441-E-2	240-219441-D-2	240-219441-C-2	240-219441-B-2	240-219441-A-2	240-219441-A-1	<u>Lab ID</u>	
Voa Vial 40ml - Hydrochloric Acid	Voa Vıal 40ml - Hydrochlorıc Acıd	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vıal 40ml - Hydrochloric Acıd	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Container Type	
							Container Preservation Preservation pH Temp Added Lot Number	

Page 21 of 21 3/5/2025

Page 1 of 1

# DATA VERIFICATION REPORT



March 05, 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: 219441-1 Sample date: 2025-02-21

Report received by CADENA: 2025-03-05

Initial Data Verification completed by CADENA: 2025-03-05

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 -002MS/MSD SURROGATE recoveries were outliers biased high for at least 1 surrogate. Associated client sample results were non-detect so qualification was not required based on these high bias QC outliers.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

# Project Scientist

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

# **CADENA Valid Qualifiers**

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

# **Analytical Results Summary**

**CADENA Project ID:** E203728

**Laboratory:** Eurofins Environment Testing LLC - Cleveland

**Laboratory Submittal:** 219441-1

		Sample Name:	TRIP BL	ANK_63			MW-172	2S_0221	.25	
		Lab Sample ID:	240219	4411			240219	4412		
		Sample Date:	2/21/2025			2/21/20				
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	<u>0D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-826	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



# Ford Motor Company – Livonia Transmission Project

# **Data Review**

# Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-219441-1

CADENA Verification Report: 2025-03-05

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 58471R Review Level: Tier III Project: 30206169.0401.02

# **SUMMARY**

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-219441-1 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	e ID Lab ID		Matrix Sample F		Analysis			
Sample ID	Labib	Watrix	Collection Date	Parent Sample	voc	VOC SIM		
TRIP BLANK_63	240-219441-1	Water	02/21/2025		Х			
MW-172S_022125	240-219441-2	Water	02/21/2025		X	X		

# **ANALYTICAL DATA PACKAGE DOCUMENTATION**

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

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

### ORGANIC ANALYSIS INTRODUCTION

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

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

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

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

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

# **VOLATILE ORGANIC COMPOUND (VOC) ANALYSES**

# 1. Holding Times

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

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

All samples were analyzed within the specified holding time criteria.

# 2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

### 3. Calibration

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

# 3.1 Initial Calibration

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

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

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

# 3.2 Continuing Calibration

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

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

# 4. Internal Standard Performance

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

All internal standard responses were within control limits.

### 5. Field Duplicate Analysis

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

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

# 6. Compound Identification

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

No compounds were detected in the samples within this SDG.

# 7. System Performance and Overall Assessment

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

# **DATA VALIDATION CHECKLIST FOR VOCs**

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		X		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	X				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

# Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Febin J S

SIGNATURE:

DATE: March 21, 2025

PEER REVIEW: Andrew Korycinski

DATE: March 26, 2025

# NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



# Chain of Custody Record



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

		,												_														
Client Contact	Regulat	ory program:		_ I	w		NPD	ES	ſ	RC	RA	Γ-	Other															
Company Name: Arcadis	Client Project	Manager: Meg	an Mecki	ley		Site	ite Contact: Samantha Szpaichler Lab Contact: Mike DelMo							DelMonico						TestAmerica Laboratories, Inc. COC No:			i, Inc.					
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	904 2240				Telephone: 248-994-2240 Telephone: 330-497-9396											$\dashv$				$\dashv$							
City/State/Zip: Novi, MI, 48377	i elephone: 248	-774-2240													eiepa	one: 3	:: 330-477-7376						_	1.0	of 1	COCs	$\equiv$	
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FHUNC: 240-774-2240	Sampler Name	Sampler Name:				TAT	if diffe	rent fro	m belo	w														ŀ	Walk-in cl	ient		
Project Name: Ford LTP	Rebeca Costigan Method of Shipment/Carrier:			1	0 day			weeks weeks						İ									Lab sampli	ing	-	ACCE		
Project Number: 30206169.0401.03						1	1 2	week days		2	2		ı	9				SIM										
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Sample Identification	Sample Date	Sample Time	Air	Sediment	Solid Other:	H2504	HNO3	HCI	NaOH ZaAci	NaOH	Other:	Filtered S	Composite=C/Grab=G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM						ple Specif ecial Instr		'
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Special Instructions/QC Requirements & Comments:	Rocto	n Doct																										$\neg$
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# **Definitions/Glossary**

Client: Arcadis US Inc. Job ID: 240-219441-1

Project/Site: Ford LTP

# **Qualifiers**

GC/MS V	OA
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Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

# Gloccary

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present PQL Practical Quantitation Limit

**PRES** Presumptive QC **Quality Control** 

Relative Error Ratio (Radiochemistry) RER

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

**TNTC** Too Numerous To Count

**Eurofins Cleveland** 

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# **Client Sample Results**

Client: Arcadis US Inc. Job ID: 240-219441-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK\_63

Date Received: 02/26/25 08:00

Lab Sample ID: 240-219441-1 Date Collected: 02/21/25 00:00

**Matrix: Water** 

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 1.0 1,1-Dichloroethene 1.0 U 0.49 ug/L 03/03/25 11:52 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 03/03/25 11:52 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 03/03/25 11:52 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 03/03/25 11:52 Trichloroethene 1.0 U 1.0 0.44 ug/L 03/03/25 11:52 Vinyl chloride 0.45 ug/L 1.0 U 1.0 03/03/25 11:52 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 116 62 - 137 03/03/25 11:52 4-Bromofluorobenzene (Surr) 105 03/03/25 11:52 56 - 136 78 - 122 03/03/25 11:52 Toluene-d8 (Surr) 103 Dibromofluoromethane (Surr) 102 73 - 120 03/03/25 11:52

# **Client Sample Results**

Client: Arcadis US Inc. Job ID: 240-219441-1

Project/Site: Ford LTP

Client Sample ID: MW-172S\_022125

Lab Sample ID: 240-219441-2 Date Collected: 02/21/25 11:50

115

99

99

100

Matrix: Water

03/03/25 12:15

03/03/25 12:15

03/03/25 12:15

03/03/25 12:15

Date Received: 02/26/25 08:00

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/03/25 12:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		68 - 127			-		03/03/25 12:29	1
- Method: SW846 8260D - Volat	tile Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/03/25 12:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/03/25 12:15	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 12:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/03/25 12:15	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 12:15	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/03/25 12:15	1

62 - 137

56 - 136

78 - 122

73 - 120