PREPARED FOR

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

Generated 3/5/2025 7:27:55 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-219457-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

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

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

Laboratory Job ID: 240-219457-1

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-219457-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

DLC

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 Decision Level Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin) EDL 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 **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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: 240-219457-1 Eurofins Cleveland

Job Narrative 240-219457-1

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: NO MS/MSD in batch 646572 due to an instrument error.

TRIP BLANK_149 (240-219457-1) and MW-161S_022125 (240-219457-2)

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: 240-219457-1

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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219457-1

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

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

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Sample Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219457-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-219457-1	TRIP BLANK_149	Water	02/21/25 00:00	02/26/25 08:00
240-219457-2	MW-161S_022125	Water	02/21/25 15:25	02/26/25 08:00

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Detection Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219457-1

Client Sample ID: TRIP BLANK_149

Lab Sample ID: 240-219457-1

No Detections.

No Detections.

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-219457-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_149

Date Received: 02/26/25 08:00

Lab Sample ID: 240-219457-1 Date Collected: 02/21/25 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			03/03/25 13:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/03/25 13:05	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 13:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/03/25 13:05	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 13:05	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/03/25 13:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137			-		03/03/25 13:05	1
4-Bromofluorobenzene (Surr)	92		56 ₋ 136					03/03/25 13:05	1
Toluene-d8 (Surr)	102		78 - 122					03/03/25 13:05	1
Dibromofluoromethane (Surr)	106		73 - 120					03/03/25 13:05	1

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3/5/2025

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-219457-1

Project/Site: Ford LTP

Dibromofluoromethane (Surr)

Client Sample ID: MW-161S_022125

Date Collected: 02/21/25 15:25 Date Received: 02/26/25 08:00 Lab Sample ID: 240-219457-2

03/03/25 13:23

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			02/27/25 20:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		68 - 127			-		02/27/25 20:38	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 13:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/03/25 13:23	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 13:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/03/25 13:23	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 13:23	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/03/25 13:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		62 - 137			_		03/03/25 13:23	1
4-Bromofluorobenzene (Surr)	76		56 - 136					03/03/25 13:23	1
Toluene-d8 (Surr)	90		78 ₋ 122					03/03/25 13:23	1

73 - 120

Surrogate Summary

Client: Arcadis US Inc. Job ID: 240-219457-1 Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

_		Percent Surrogate Recovery (Acce					
		DCA	BFB	TOL	DBFM		
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)		
240-219457-1	TRIP BLANK_149	100	92	102	106		
240-219457-2	MW-161S_022125	92	76	90	93		
LCS 240-646572/4	Lab Control Sample	84	105	104	93		
MB 240-646572/7	Method Blank	88	84	92	87		

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)	
240-219435-A-3 MS	Matrix Spike	99	
240-219435-A-3 MSD	Matrix Spike Duplicate	102	
240-219457-2	MW-161S_022125	102	
LCS 240-646307/4	Lab Control Sample	106	
MB 240-646307/5	Method Blank	100	

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

Client: Arcadis US Inc. Job ID: 240-219457-1

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

Lab Sample ID: MB 240-646572/7

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 646572

Client Sample ID: Method Blank

Prep Type: Total/NA

	МВ	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 10:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/03/25 10:29	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 10:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/03/25 10:29	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 10:29	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/03/25 10:29	1

MB MB Qualifier %Recovery Prepared Dil Fac Surrogate Limits Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 03/03/25 10:29 88 03/03/25 10:29 4-Bromofluorobenzene (Surr) 84 56 - 136 Toluene-d8 (Surr) 92 78 - 122 03/03/25 10:29 Dibromofluoromethane (Surr) 87 73 - 120 03/03/25 10:29

Lab Sample ID: LCS 240-646572/4

Matrix: Water

Analysis Batch: 646572

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	23.8	-	ug/L		95	63 - 134	
cis-1,2-Dichloroethene	25.0	24.9		ug/L		99	77 - 123	
Tetrachloroethene	25.0	21.0		ug/L		84	76 - 123	
trans-1,2-Dichloroethene	25.0	24.6		ug/L		98	75 - 124	
Trichloroethene	25.0	24.2		ug/L		97	70 - 122	
Vinyl chloride	12.5	12.8		ug/L		102	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 84 62 - 137 4-Bromofluorobenzene (Surr) 105 56 - 136 Toluene-d8 (Surr) 104 78 - 122 Dibromofluoromethane (Surr) 73 - 120 93

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

Lab Sample ID: MB 240-646307/5 Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 646307

	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			02/27/25 13:12	1
	МВ	MB							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 100 68 - 127 02/27/25 13:12

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QC Sample Results

Client: Arcadis US Inc. Job ID: 240-219457-1

Project/Site: Ford LTP

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

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

Prep Type: Total/NA

Lab Sample ID: LCS 240-646307/4 **Matrix: Water**

Analysis Batch: 646307

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	10.0	9.80		ug/L		98	75 - 121	

LCS LCS

Surrogate %Recovery Qualifier Limits 68 - 127 1,2-Dichloroethane-d4 (Surr) 106

Lab Sample ID: 240-219435-A-3 MS Client Sample ID: Matrix Spike

Matrix: Water

Analysis Batch: 646307

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	10.0		ug/L		100	20 - 180	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1.2-Dichloroethane-d4 (Surr)	99		68 - 127							

Lab Sample ID: 240-219435-A-3 MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Water

Analysis Batch: 646307

	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	9.98		ug/L		100	20 - 180	0	20

MSD MSD Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 102 68 - 127

Eurofins Cleveland

QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219457-1

GC/MS VOA

Analysis Batch: 646307

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219457-2	MW-161S_022125	Total/NA	Water	8260D SIM	
MB 240-646307/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-646307/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-219435-A-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-219435-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 646572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
240-219457-1	TRIP BLANK_149	Total/NA	Water	8260D
240-219457-2	MW-161S_022125	Total/NA	Water	8260D
MB 240-646572/7	Method Blank	Total/NA	Water	8260D
LCS 240-646572/4	Lab Control Sample	Total/NA	Water	8260D

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-219457-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_149

Lab Sample ID: 240-219457-1 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			646572	LEE	EET CLE	03/03/25 13:05

Client Sample ID: MW-161S_022125 Lab Sample ID: 240-219457-2

Date Collected: 02/21/25 15:25 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	646572	LEE	EET CLE	03/03/25 13:23
Total/NA	Analysis	8260D SIM		1	646307	MDH	EET CLE	02/27/25 20:38

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: 240-219457-1 Project/Site: Ford LTP

Laboratory: Eurofins Cleveland

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

Authority Program		Identification Number	Expiration Date
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	08-31-25
lowa	State	421	06-01-25
Kansas	NELAP	E-10336	01-31-26
Kentucky (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



Chain of Custody Record



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

Client Contact	Regulat	ory program	:	D	w	□ N	PDES	6	_ F	CRA	F	Oth	ег										
Company Name: Arcadis	Client Project !	Manager: Meg	an Meck	lev		Site C	ontac	t: Sai	mantha	Szpaichl	ler			Lab (Contac	t: Mil	e Del	Monic	0				TestAmerica Laboratories, II
Address: 28550 Cabot Drive, Suite 500									_														
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240				Telep	hone:	248-	994-224	,				lelep	none:	ne: 330-497-9396						1 of 1 COCs	
	Email: kristoffer.hinskey@arcadis.com				^	nalysi	ysis Turnaround Time					Analyses							For lab use only				
Phone: 248-994-2240	Sampler Name					TAT	f differer	at from	below	L			l										Walk-in client
Project Name: Ford LTP	1Kq-	The V	eRoo			1 10	day	-	3 wee 2 wee				ı										Lab sampling
Project Number: 30206169.0401.03	Method of Ship					1 "	uuy	5	1 wee	(z	٢	1		٥				ΣIS				
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0 - 1 14 - 15 - 11 -	Sample Date	Sample Time	ir.	=	Other:		HN03	Т		Unpres Other:	Filtered Sample (Y / N)	Composite-C / Grab-G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM				Sample Specific Notes / Special Instructions:
Sample Identification	Sample Date	Sample Time			, 10	+=+		_	NZ	-	-	+							_		_	+-	
TRIP BLANK_ JUG (1495)			1				1				$ \mathbb{I}^{\mathbb{N}} $	1 G	X	Х	Х	Х	Х	X					1 Trip Blank
MW-1615_022125	2/21/25	1525	6			П	6	,			N	G	χ	>	7-	X	×	K	×				3 VOAs for 8260D 3 VOAs for 8260D SIM
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Possible Hazard Identification Non-Hazard Tammable finitri	tant Poiso	on B	Jnkno	wn		Sa			to Client	ee may b	Dispo					rchive		nan i		onths			
Special Instructions/QC Requirements & Comments: 3 U	851 Beac	UN																					
Submit all results through Cadena at jtomalia@cadenac	-																						
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VOA Sample Preservation - Date/Time VOAs Frozen.	VOA Sample
Preservative(s) added/Lot number(s).	Time preserved
were further preserved in the laboratory	Sample(s)
20. SAMPLE PRESERVATION	20. SAMPL
were received with bubble >6 mm in diameter (Notify PM)	Sample(s)
were received in a broken container	Sample(s)
19. SAMPLE CONDITION	19. SAMPL
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	18. CHAIN
	Concerning_
Date by via Verbal Voice Mail Other	Contacted PM
n any VOA vials? Larger than this. sent in the cooler(s)? Trip Blank Lot #	15 Were air 16 Was a V
Were all preserved sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lott HC448976 Were VOAs on the COC? Yes No	13 Were all J
If yes, Questions 13-17 have been checked at the originating laboratory	
s?	11 Sufficient
), if of confidences (J/N), and san	0
Could all bottle labels (ID/Date/Time) be reconciled with the COC? The substitute of the COC months reconciled with the COC? The substitute of the COC months reconciled with the COC?	8 Could all
learly identified on the COC? (Test)	
Did custody papers accompany the sample(s)? Were the custody papers relinquished & signed in the appropriate place? Yes No TOC	
Yes (%)	3 Shippers'
g/MeHg)?	-Were
Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Yes No Yes No NA Tests that are not checked for nH by	2. Were tan -Were t
H (CF 1/1/ °C) Observed Cooler	IR GUN#
upon receipt	1 Cooler te
Packing material used. Subble Wrap Foam Plastic Bag None Other COOLANT: Wet Ice Blue Ice Dry Ice Water None	Packing
Foam Box Client Cooler Box	Eurofins Cooler#
ours Drop-off Date/Time Storage Location	Receipt After
TIPS EAS Waymoin Client Drop Off	Cooler Received on
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Eurofins — Cleveland Sample Receipt Form/Narrative Login # :	Eurofins — Clevelan Barberton Facility

Page 18 of 24

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Observed Corrected Temp °C Temp °C		Cooler Description (Circle)	Cooler ((

2/26/2025

Login Container Summary Report

240-219457

3/5/2025

Temperature readings			3/
Client Sample ID	<u>Lab ID</u>	Container Type	Container Preservation Preservation pH Temp Added Lot Number
TRIP BLANK_149	240-219457-A-1	Voa Vial 40ml - Hydrochloric Acid	
MW-1618_022125	240-219457-A-2	Voa Vial 40ml - Hydrochloric Acid	Andrews of the second s
MW-1618_022125	240-219457-B-2	Voa Vial 40ml - Hydrochloric Acid	
MW-161S_022125	240-219457-C-2	Voa Vial 40ml - Hydrochloric Acıd	
MW-161S_022125	240-219457-D-2	Voa Vial 40ml - Hydrochloric Acid	And the state of t
MW-161S_022125	240-219457-E-2	Voa Vial 40ml - Hydrochloric Acid	
MW-161S_022125	240-219457-F-2	Voa Vial 40ml - Hydrochloric Acid	

Page 1 of 1



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Chain of Custody Record

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TestAmerica Laboratory location: Farmington Hills — 38855 Hills Tech Drive, Suite 600, Farmington Hills 48331 Client Contact Regulatory program: Other TestAmerica Laboratories, Inc. Company Name: Arcadis Lab Contact: Mike DelMonico Client Project Manager: Megan Meckley Site Contact: Samantha Szpaichler Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 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: FAT if different from below Project Name: Ford LTP Kaples Peroo 3 weeks ₹ 2 weeks Lab sampling 8260D SIM Project Number: 30206169.0401.03 1 week ☐ 2 days Vinyl Chloride 8260D ☐ I day PO # US3460021848 Job/SDG No Shipping/Tracking No: Containers & Preservatives rce 8260D Sample Specific Notes / HN03 Special Instructions: Sample Time Sample Identification Sample Date NIG $X \mid X$ Χ 1 Trip Blank 3 VOAs for 8260D 6 2/21/25 1525 MW-1615_022125 X × K × 3 VOAs for 8260D SIM 240-219457 COC Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Non-Hazard (lammable in Irritant Poison B ☐ Jnknown Return to Client Disposal By Lab Special Instructions/QC Requirements & Comments: 34851 Bequir ubmit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728 evel IV Reporting requested. Relinquished by: Ymfll Company: Arcadis Received by Company: 2/21/25/1700 Wovi Arradis Received by Received in Labor

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3/5/2025

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VOA Sample Preservation - Date/Time VOAs Frozen.
Sample(s)were further preserved in the laboratory Time preservedPreservative(s) added/Lot number(s)were further preserved in the laboratory
20. SAMPLE PRESERVATION
19. SAMPLE CONDITION were received after the recommended holding time had expired
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
Concerning oy via verbal voice Mail Office
atacted DM Date
Were air bubbles >6 mm in any VOA vials? Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Yes Yes Yes
13 Were all preserved sample(s) at the correct pH upon receipt? Yes No (NA) pH Strip Lot# HC448976 Were VOAs on the COC? Yes) No
Are these work share samples and all listed on the COC? If was Overstone 13-17 have been checked at the commentum laborators.
), # of contamers (WN), a
Were the custody papers reimquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC?
Yes (%)
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Eurofins - Cleveland Sample Receipt Form/Narrative Login#:

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Temperature readings				3/
Client Sample ID	<u>Lab ID</u>	Container Type	Container Preservation Preservation pH Temp Added Lot Number	
TRIP BLANK_149	240-219457-A-1	Voa Vial 40ml - Hydrochloric Acid		*
MW-161S_022125	240-219457-A-2	Voa Vıal 40ml - Hydrochloric Acid		
MW 161S_022125	240-219457-B-2	Voa Vial 40ml - Hydrochloric Acid		
MW-161S_022125	240-219457-C-2	Voa Vial 40ml - Hydrochloric Acid		
MW-161S_022125	240-219457-D-2	Voa Vial 40ml - Hydrochloric Acid	The state of the s	
MW-161S_022125	240-219457-E-2	Voa Vial 40ml - Hydrochloric Acid		
MW-161S_022125	240-219457-F-2	Voa Vial 40ml - Hydrochloric Acid		

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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: 219457-1 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.

There were no significant QC anomalies or exceptions to report.

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 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: 219457-1

		Sample Name: Lab Sample ID: Sample Date:		4571 25			MW-161 240219 2/21/20	4572 25		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC	OD.									
	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>DDSIM</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 # 240-219457-1

CADENA Verification Report: 2025-03-05

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 58501R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-219457-1 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	Analysis				
Sample ID	Labib	Watrix	Collection Date	raient Sample	voc	VOC SIM			
TRIP BLANK_149	240-219457-1	Water	02/21/2025		Х				
MW-161S_022125	240-219457-2	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		Х		Х	
2. Requested analyses and sample results		Х		Х	
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	orted		rmance ptable	Not Required		
	No	Yes	No	Yes	Required		
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)						
Tier II Validation							
Holding times/Preservation		Х		Х			
Tier III Validation			'	'			
System performance and column resolution		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	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 24, 2025

PEER REVIEW: Andrew Korycinski

DATE: March 27, 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	:	D	w	□ N	PDES	6	_ F	CRA	F	Oth	ег										
Company Name: Arcadis	Client Project !	Manager: Meg	an Meck	lev		Site C	ontac	t: Sai	mantha	Szpaichl	ler			Lab (Contac	t: Mil	e Del	Monic	0				TestAmerica Laboratories, II
Address: 28550 Cabot Drive, Suite 500									_														
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240				Telep	hone:	248-	994-224	,				lelep	hone:	330-4	97-93	76					1 of 1 COCs
	Email: kristoff	er.hinskey@ar	cadis.co	m		^	nalysi	s Tur	rnaroun	Time			\vdash		Analyses							For lab use only	
Phone: 248-994-2240	Sampler Name					TAT	f differer	at from	below	L			l										Walk-in client
Project Name: Ford LTP	1Kq-	The V	eRoo			1 10	day	-	3 wee 2 wee				ı										Lab sampling
Project Number: 30206169.0401.03	Method of Ship					1 "	uuy	5	1 wee	(z	٢	1		٥				ΣIS				
PO # US3460021848	Shipping/Track	ing No:		,		1			2 days		ર્ડ	9		300	8260			2601	90D				Job/SDG No:
				Matri			Contair	ners d	k Preserv	atives		Ş	0092	82	CE		_	ide 8	e 82				
0 - 1 14 - 15 - 11 -	Sample Date	Sample Time	ir.	=	Other:		HN03	Т		Unpres Other:	Filtered Sample (Y / N)	Composite-C / Grab-G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM				Sample Specific Notes / Special Instructions:
Sample Identification	Sample Date	Sample Time			, 10	+=+		_	NZ	-	-	+							_		_	+-	
TRIP BLANK_ JUG (1495)			1				1				$ \mathbb{I}^{\mathbb{N}} $	1 G	X	X	Х	Х	Х	X					1 Trip Blank
MW-1615_022125	2/21/25	1525	6			П	6	,			N	G	χ	>	7-	X	×	K	×				3 VOAs for 8260D 3 VOAs for 8260D SIM
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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-219457-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

DLC

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 Decision Level Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin) EDL 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 **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-219457-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_149

Date Received: 02/26/25 08:00

Lab Sample ID: 240-219457-1 Date Collected: 02/21/25 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			03/03/25 13:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/03/25 13:05	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 13:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/03/25 13:05	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 13:05	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/03/25 13:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137			-		03/03/25 13:05	1
4-Bromofluorobenzene (Surr)	92		56 ₋ 136					03/03/25 13:05	1
Toluene-d8 (Surr)	102		78 - 122					03/03/25 13:05	1
Dibromofluoromethane (Surr)	106		73 - 120					03/03/25 13:05	1

Eurofins Cleveland

3/5/2025

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-219457-1

Project/Site: Ford LTP

Dibromofluoromethane (Surr)

Client Sample ID: MW-161S_022125

Date Collected: 02/21/25 15:25 Date Received: 02/26/25 08:00 Lab Sample ID: 240-219457-2

03/03/25 13:23

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			02/27/25 20:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		68 - 127			-		02/27/25 20:38	1
Method: SW846 8260D - Volati	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 13:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/03/25 13:23	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 13:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/03/25 13:23	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/03/25 13:23	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/03/25 13:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		62 - 137			-		03/03/25 13:23	1
4-Bromofluorobenzene (Surr)	76		56 - 136					03/03/25 13:23	1
Toluene-d8 (Surr)	90		78 ₋ 122					03/03/25 13:23	1

73 - 120