PREPARED FOR

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

Generated 2/21/2025 7:43:12 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-218940-1

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 <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396

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

Laboratory Job ID: 240-218940-1

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-218940-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

EDL

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)

LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA

Estimated Detection Limit (Dioxin)

MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit ML Minimum Level (Dioxin)

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

PQL Practical Quantitation Limit

PRES Presumptive **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: 240-218940-1 Eurofins Cleveland

Job Narrative 240-218940-1

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 2/14/2025 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 2.3°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: 240-218940-1

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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-218940-1

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: 240-218940-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-218940-1	TRIP BLANK_11	Water	02/13/25 00:00	02/14/25 08:00
240-218940-2	MW-176S 021325	Water	02/13/25 10:05	02/14/25 08:00

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Detection Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-218940-1

Client Sample ID: TRIP BLANK_11

No Detections.

Lab Sample ID: 240-218940-1

Client Sample ID: MW-176S_021325 Lab Sample ID: 240-218940-2

No Detections.

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-218940-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_11

Date Received: 02/14/25 08:00

Lab Sample ID: 240-218940-1 Date Collected: 02/13/25 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			02/17/25 15:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/17/25 15:34	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/17/25 15:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/17/25 15:34	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/17/25 15:34	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/17/25 15:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137			-		02/17/25 15:34	1
4-Bromofluorobenzene (Surr)	96		56 ₋ 136					02/17/25 15:34	1
Toluene-d8 (Surr)	98		78 - 122					02/17/25 15:34	1
Dibromofluoromethane (Surr)	101		73 - 120					02/17/25 15:34	1

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2/21/2025

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-218940-1

Project/Site: Ford LTP

Surrogate

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: MW-176S_021325

Date Collected: 02/13/25 10:05 Date Received: 02/14/25 08:00 Lab Sample ID: 240-218940-2

Prepared

Matrix: Water

Dil Fac

Analyzed

02/17/25 17:42

02/17/25 17:42

02/17/25 17:42

02/17/25 17:42

Method: SW846 8260D SIM - \	Volatile 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			02/19/25 18:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 127					02/19/25 18:13	1
Analyte	Result	Qualifier	RL_	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0		1.0		ug/L		гтератец	02/17/25 17:42	
•					•				' '
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/17/25 17:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/17/25 17:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/17/25 17:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/17/25 17:42	1
Vinvl chloride	1.0	U	1.0	0.45	ua/L			02/17/25 17:42	1

Limits

62 - 137

56 - 136

78 - 122

73 - 120

%Recovery Qualifier

97

92

99

Surrogate Summary

Client: Arcadis US Inc.

Job ID: 240-218940-1

Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Sui	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-218778-B-7 MS	Matrix Spike	98	94	97	100
240-218778-B-7 MSD	Matrix Spike Duplicate	101	98	100	102
240-218940-1	TRIP BLANK_11	99	96	98	101
240-218940-2	MW-176S_021325	97	92	99	95
LCS 240-644989/5	Lab Control Sample	101	99	99	98
MB 240-644989/10	Method Blank	101	95	98	95

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)	
240-218940-2	MW-176S_021325	103	
240-218947-G-2 MS	Matrix Spike	99	
240-218947-G-2 MSD	Matrix Spike Duplicate	100	
LCS 240-645425/4	Lab Control Sample	99	
MB 240-645425/7	Method Blank	99	
Surrogate Legend			

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

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Client: Arcadis US Inc. Job ID: 240-218940-1

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

Lab Sample ID: MB 240-644989/10

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 644989

Client Samp	ole ID:	Method	Blank
	Pron	Type: To	tal/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/17/25 14:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/17/25 14:25	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/17/25 14:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/17/25 14:25	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/17/25 14:25	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/17/25 14:25	1

MB MB Qualifier Dil Fac Surrogate %Recovery Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 02/17/25 14:25 101 4-Bromofluorobenzene (Surr) 95 56 - 136 02/17/25 14:25 Toluene-d8 (Surr) 98 78 - 122 02/17/25 14:25 Dibromofluoromethane (Surr) 95 73 - 120 02/17/25 14:25

Lab Sample ID: LCS 240-644989/5

Matrix: Water

Analysis Batch: 644989

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	20.0	17.6	-	ug/L		88	63 - 134	
cis-1,2-Dichloroethene	20.0	18.6		ug/L		93	77 - 123	
Tetrachloroethene	20.0	19.8		ug/L		99	76 - 123	
trans-1,2-Dichloroethene	20.0	18.0		ug/L		90	75 - 124	
Trichloroethene	20.0	20.4		ug/L		102	70 - 122	
Vinyl chloride	20.0	16.2		ug/L		81	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 101 62 - 137 4-Bromofluorobenzene (Surr) 56 - 136 99 78 - 122 Toluene-d8 (Surr) 99 73 - 120 Dibromofluoromethane (Surr) 98

Analysis Batch: 644989

Lab Sample ID: 240-218778-B-7 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	4.0	U	80.0	67.6		ug/L		85	56 - 135	
cis-1,2-Dichloroethene	67		80.0	143		ug/L		96	66 - 128	
Tetrachloroethene	91		80.0	164		ug/L		92	62 - 131	
trans-1,2-Dichloroethene	4.0	U	80.0	70.2		ug/L		88	56 - 136	
Trichloroethene	12		80.0	91.4		ug/L		99	61 - 124	
Vinyl chloride	15		80.0	77.7		ug/L		79	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		62 - 137
4-Bromofluorobenzene (Surr)	94		56 - 136
Toluene-d8 (Surr)	97		78 - 122

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

Job ID: 240-218940-1

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

Lab Sample ID: 240-218778-B-7 MS

Matrix: Water

Analysis Batch: 644989

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

MS MS Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 100 73 - 120

Lab Sample ID: 240-218778-B-7 MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Water**

Analysis Batch: 644989

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	4.0	U	80.0	69.8		ug/L		87	56 - 135	3	26
cis-1,2-Dichloroethene	67		80.0	145		ug/L		98	66 - 128	1	14
Tetrachloroethene	91		80.0	176		ug/L		106	62 - 131	7	20
trans-1,2-Dichloroethene	4.0	U	80.0	70.0		ug/L		87	56 - 136	0	15
Trichloroethene	12		80.0	96.3		ug/L		105	61 - 124	5	15
Vinyl chloride	15		80.0	79.4		ug/L		81	43 - 157	2	24

MSD MSD Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 101 62 - 137 4-Bromofluorobenzene (Surr) 98 56 - 136 Toluene-d8 (Surr) 100 78 - 122 Dibromofluoromethane (Surr) 102 73 - 120

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

Lab Sample ID: MB 240-645425/7 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 645425

Prep Type: Total/NA

Result Qualifier Analyte RL **MDL** Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 02/19/25 14:41

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 99 68 - 127 02/19/25 14:41

Lab Sample ID: LCS 240-645425/4 Client Sample ID: Lab Control Sample

MR MR

Matrix: Water

Analysis Batch: 645425

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 10.0 9.96 ug/L 100 75 - 121

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

Lab Sample ID: 240-218947-G-2 MS Client Sample ID: Matrix Spike

Matrix: Water

Analysis Batch: 645425

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	9.12		ug/L		91	20 - 180	

Eurofins Cleveland

Prep Type: Total/NA

Prep Type: Total/NA

QC Sample Results

10.0

Client: Arcadis US Inc. Job ID: 240-218940-1

Project/Site: Ford LTP

Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued))
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	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		68 - 127

Lab Sample ID: 240-218947-G-2 MSD

Matrix: Water

Analyte

1,4-Dioxane

Analysis Batch: 645425

								Prep Typ	oe: Tota	al/NA
Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit

9.32

ug/L

MSD MSD

 Surrogate
 %Recovery
 Qualifier
 Limits

 1,2-Dichloroethane-d4 (Surr)
 100
 68 - 127

. 240-210540-1

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Client Sample ID: Matrix Spike Duplicate

20 - 180

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QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-218940-1

GC/MS VOA

Analysis Batch: 644989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
240-218940-1	TRIP BLANK_11	Total/NA	Water	8260D	
240-218940-2	MW-176S_021325	Total/NA	Water	8260D	
MB 240-644989/10	Method Blank	Total/NA	Water	8260D	
LCS 240-644989/5	Lab Control Sample	Total/NA	Water	8260D	
240-218778-B-7 MS	Matrix Spike	Total/NA	Water	8260D	
240-218778-B-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 645425

Lab Sample ID 240-218940-2	Client Sample ID MW-176S_021325	Prep Type Total/NA	Water	Method 8260D SIM	Prep Batch
MB 240-645425/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-645425/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-218947-G-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-218947-G-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-218940-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_11

Lab Sample ID: 240-218940-1 Date Collected: 02/13/25 00:00

Matrix: Water

Date Received: 02/14/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D			644989	AJS	EET CLE	02/17/25 15:34

Client Sample ID: MW-176S_021325 Lab Sample ID: 240-218940-2

Date Collected: 02/13/25 10:05 Matrix: Water

Date Received: 02/14/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	644989	AJS	EET CLE	02/17/25 17:42
Total/NA	Analysis	8260D SIM		1	645425	R5XG	EET CLE	02/19/25 18:13

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: 240-218940-1 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



<u>TestAmerica</u>

Client Contact	Regulat	ory program:	:	1	DW	/	5	NPDE	S		RCI	RA	-	Othe	er 「												
Company Name: Arcadis	Gii i Di i i i						In:		_						1				_								Laboratories,
Address: 28550 Cabot Drive, Suite 500	Client Project !	Manager: Meg	an Mo	eckley			Site	Contac	ct: Sa	mant	ha Sz	paichle	er			Lab (ontac	t: Mik	e Del	Monic	0				C	DC No:	
City/State/Zip: Novi, M1, 48377	Telephone: 248	-994-2240					Tele	phone:	248-	994-2	240					Telep	hone:	330-49	7-93	96					F	1 of	l COCs
	Email: kristoff	er.hinskey@ar	cadis.	com				Analys	is T	raaro	und I	ime	1						A	nalys	es				Fe	r lab use only	
Phone: 248-994-2240	Sampler Name				_		TAT	if differe	nt from	n below			-												w	alk-in client	The same
Project Name: Ford LTP		FOST	14				Ι.	0 dav		3 w																	300
Project Number: 30206169.0401.03	Method of Ship						1 '	U Gay	Г	1 w	/cck		2	ي			۵				₹				٦	b sampling	
PO # US3460021848	Shipping/Track	ting No:					ł			2 d			(V)	Grab	۵	260D	8260			8260D	8260D SIM				Jo	b/SDG No:	A.E.
				M	atrix			Conta	Bers é	& Pres	ervati	ves	Samp	Ų.	8260	CE 8	S-DCE	9	00	oride	ane 8,				ŀ	10000	200-00
Sample Identification	Sample Date	Sample Time	Air	Aqueous	Solid	Other:	H2SO4	HNO3	NaOH	ZnAci	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						pecific Notes / Instructions:
TRIP BLANK_ 11				1			П	1	$\overline{}$				N	G	X	Х	Х	Х	Х	Х					T	1 Trip BI	ank
MW-1765_021325	2-13-25	1005		6			Г	(٥	1	T		N	+	×	*	×		×	×	×					3 VOAs fo	
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									1								/									W X	
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	3

rofins – Cleveland Sample Receipt Form/Narrative Login #	
rberton Facility	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
ent Arcadis Site Name	Cooler unpacked by:
oler Received on 2114 25 Opened on 2114 25	Martin
dEx. 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other	Other
ceipt After-hours Drop-off Date/Time Storage Location	And provided in the Annual Provided in the Control of the Control
rofins Cooler # EC Foam Box Client Cooler Box Other	
Packing material used. Buttble-Wrap Foam Plastic Bag None Other	data in company de la comp
COOLANT Welle Blue Ice Dry Ice Water None	

Š Ē B [7

Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN# (CF 400 Ç Observed Cooler Temp 2 W C Corrected Cooler Temp. 2 W

Ŋ Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity -Were the seals on the outside of the cooler(s) signed & dated? 3 AN

-Were tamper/custody seals intact and uncompromised? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?

NA A

Receiving. checked for pH by Tests that are not

Oil and Grease TOC

VOAs

- 20040 Shippers' packing slip attached to the cooler(s)?
- Did custody papers accompany the sample(s)?
- Were the custody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC?
- Did all bottles arrive in good condition (Unbroken)?
- 9 Could all bottle labels (ID/Date/Time) be reconciled with the COC?
- 11 For each sample, does the COC specify preservatives (WN), # of containers (WN), and sample type of grab/comp(NN)?

 Were correct bottle(s) used for the test(s) indicated?

 Sufficient quantity received to perform indicated analyses?

 Are these work share samples and all listed on the COC?

 Yes (No)
- Are these work share samples and all listed on the COC?
- 13 Were all preserved sample(s) at the correct pH upon receipt? If yes, Questions 13-17 have been checked at the originating laboratory
- 15 14 Were VOAs on the COC?
- 16 17 Were air bubbles >6 mm in any VOA vials?
- Was a LL Hg or Me Hg trip blank present? Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 012

Yes Z

pH Strip Lo# HC448976

01256015

666 X

Date ই via Verbal Voice Mail Other

Concerning

Contacted PM

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

additional next page Samples processed by

19 SAMPLE CONDITION

Sample(s) Sample(s) Sample(s) were received after the recommended holding time had expired
were received in a broken container were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

VOA Sample Preservation -Time preserved. Sample(s) Date/Time VOAs Frozen. Preservative(s) added/Lot number(s): were further preserved in the laboratory

<u>Lab ID</u>	Container Type	Container Preservation Preservation pH Temp Added Lot Number
240-218940-A-I	Voa Vial 40ml - Hydrochloric Acid	
240-218940-A-2	Voa Vial 40ml - Hydrochloric Acid	
240-218940-B-2	Voa Vial 40ml - Hydrochloric Acid	
240-218940-C-2	Voa Vial 40ml - Hydrochloric Acid	
240-218940-D-2	Voa Vial 40ml - Hydrochloric Acid	And the state of t
240-218940-E-2	Voa Vial 40ml - Hydrochloric Acid	Applications of the state of th
240-218940-G-2	Voa Vial 40ml - Hydrochloric Acıd	The second secon
	Lab ID 240-218940-A-1 240-218940-A-2 240-218940-B-2 240-218940-C-2 240-218940-D-2 240-218940-E-2 240-218940-G-2	

2/21/2025

DATA VERIFICATION REPORT



February 21, 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: 218940-1 Sample date: 2025-02-13

Report received by CADENA: 2025-02-21

Initial Data Verification completed by CADENA: 2025-02-21

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: 218940-1

		Sample Name:	TRIP BL	ANK_11			MW-176	6S_0213	25	
		Lab Sample ID:	240218	9401			240218	9402		
		Sample Date:	2/13/20	25			2/13/20	25		
				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 # 240-218940-1

CADENA Verification Report: 2025-02-21

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 58360R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-218940-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Parent Sample	Ana	lysis
Sample ID	Labib	Watrix	Collection Date	raieiit Saiiipie	voc	VOC SIM
TRIP BLANK_11	240-218940-1	Water	02/13/2025		Х	
MW-176S_021325	240-218940-2	Water	02/13/2025		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		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	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	Х				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		Х		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



<u>TestAmerica</u>

Client Contact	Regulat	ory program:	:	1	DW	/	5	NPDE	S		RCI	RA	-	Othe	er 「												
Company Name: Arcadis	Gii i Di i i i						In:		_						1				_								Laboratories,
Address: 28550 Cabot Drive, Suite 500	Client Project !	Manager: Meg	an Mo	eckley			Site	Contac	ct: Sa	mant	ha Sz	paichle	er			Lab (ontac	t: Mik	e Del	Monic	0				C	DC No:	
City/State/Zip: Novi, M1, 48377	Telephone: 248	-994-2240					Tele	phone:	248-	994-2	240					Telep	hone:	330-49	7-93	96					F	1 of	l COCs
	Email: kristoff	er.hinskey@ar	cadis.	com				Analys	is T	raaro	und I	ime	1						A	nalys	es				Fe	r lab use only	
Phone: 248-994-2240	Sampler Name				_		TAT	if differe	nt from	n below			-												w	alk-in client	The same
Project Name: Ford LTP		FOST	14				Ι.	0 dav		3 w																	300
Project Number: 30206169.0401.03	Method of Ship						1 '	U Gay	Г	1 w	/cck		2	ي			۵				₹				٦	b sampling	
PO # US3460021848	Shipping/Track	ting No:					ł			2 d			(V)	Grab	۵	260D	8260			8260D	8260D SIM				Jo	b/SDG No:	A.E.
				M	atrix			Conta	Bers é	& Pres	ervati	ves	Samp	Ų.	8260	CE 8	S-DCE	9	00	oride	ane 8,				ŀ	10000	200-00
Sample Identification	Sample Date	Sample Time	Air	Aqueous	Solid	Other:	H2SO4	HNO3	NaOH	ZnAci	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						pecific Notes / Instructions:
TRIP BLANK_ 11				1			П	1	$\overline{}$				N	G	X	Х	Х	Х	Х	Х					T	1 Trip BI	ank
MW-1765_021325	2-13-25	1005		6			Г	(٥	1	T		N	+	×	*	×		×	×	×					3 VOAs fo	
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Special Instructions/QC Requirements & Comments:	Thank F0130		-		2	:05T	04				-111		Dispo	sai by	Lab		_^	ichive .	OI I		IVI	onuis				-	
Submit all results through Cadena at jtomalia@caden evel IV Reporting requested.	aco.com. Cadena #E	203728	٠ ر	-	12		٠.٠	•	1																		
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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-218940-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

DL, RA, RE, IN

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)

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

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

Eurofins Cleveland

Page 4 of 20

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13

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-218940-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_11

Date Received: 02/14/25 08:00

Lab Sample ID: 240-218940-1 Date Collected: 02/13/25 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			02/17/25 15:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/17/25 15:34	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/17/25 15:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/17/25 15:34	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/17/25 15:34	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/17/25 15:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137			-		02/17/25 15:34	1
4-Bromofluorobenzene (Surr)	96		56 ₋ 136					02/17/25 15:34	1
Toluene-d8 (Surr)	98		78 - 122					02/17/25 15:34	1
Dibromofluoromethane (Surr)	101		73 - 120					02/17/25 15:34	1

Eurofins Cleveland

2/21/2025

Page 9 of 20

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-218940-1

Project/Site: Ford LTP

Surrogate

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: MW-176S_021325

Date Collected: 02/13/25 10:05 Date Received: 02/14/25 08:00 Lab Sample ID: 240-218940-2

Prepared

Matrix: Water

Dil Fac

Analyzed

02/17/25 17:42

02/17/25 17:42

02/17/25 17:42

02/17/25 17:42

Method: SW846 8260D SIM - \	Volatile 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			02/19/25 18:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 127					02/19/25 18:13	1
Analyte	Result	Qualifier	RL_	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0		1.0		ug/L		гтератец	02/17/25 17:42	
•					•				' '
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/17/25 17:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/17/25 17:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/17/25 17:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/17/25 17:42	1
Vinvl chloride	1.0	U	1.0	0.45	ua/L			02/17/25 17:42	1

Limits

62 - 137

56 - 136

78 - 122

73 - 120

%Recovery Qualifier

97

92

99