ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 8/7/2024 7:49:02 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-208612-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



Eurofins Cleveland

Job Notes

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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

Generated 8/7/2024 7:49:02 AM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: Arcadis U.S., Inc. Project/Site: Ford LTP

Laboratory Job ID: 240-208612-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	15
Lab Chronicle	16
Certification Summary	17
Chain of Custody	18

6

4

6

8

9

11

12

Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 240-208612-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

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

DLC Decision Level Concentration (Radiochemistry)

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

EPA recommended "Maximum Contaminant Level" MCL 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)

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

Case Narrative

Client: Arcadis U.S., Inc. Project: Ford LTP

Job ID: 240-208612-1 Eurofins Cleveland

Job Narrative 240-208612-1

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 8/1/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.3°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: 240-208612-1

Page 5 of 20 8/7/2024

Method Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208612-1

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 U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208612-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
240-208612-1	TRIP BLANK_142	Water	07/29/24 00:00	08/01/24 08:00	
240-208612-2	MW-126S_072924	Water	07/29/24 14:25	08/01/24 08:00	

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Detection Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208612-1

Client Sample ID: TRIP BLANK_142

Lab Sample ID: 240-208612-1

No Detections.

Client Sample ID: MW-126S_072924 Lab Sample ID: 240-208612-2

No Detections.

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208612-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_142

Lab Sample ID: 240-208612-1 Date Collected: 07/29/24 00:00 Matrix: Water

Date Received: 08/01/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/03/24 11:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/03/24 11:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/03/24 11:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/03/24 11:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/03/24 11:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/03/24 11:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137			-		08/03/24 11:43	1
4-Bromofluorobenzene (Surr)	99		56 ₋ 136					08/03/24 11:43	1
Toluene-d8 (Surr)	101		78 - 122					08/03/24 11:43	1
Dibromofluoromethane (Surr)	102		73 - 120					08/03/24 11:43	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208612-1

Project/Site: Ford LTP

Date Received: 08/01/24 08:00

Dibromofluoromethane (Surr)

Client Sample ID: MW-126S_072924

Lab Sample ID: 240-208612-2 Date Collected: 07/29/24 14:25

101

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			08/05/24 11:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		68 - 127			-		08/05/24 11:32	1
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/03/24 14:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/03/24 14:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/03/24 14:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/03/24 14:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/03/24 14:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/03/24 14:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			_		08/03/24 14:42	1
4-Bromofluorobenzene (Surr)	95		56 ₋ 136					08/03/24 14:42	1
Toluene-d8 (Surr)	100		78 ₋ 122					08/03/24 14:42	1

73 - 120

08/03/24 14:42

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 240-208612-1 Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Surrogate Reco	
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-208612-1	TRIP BLANK_142	104	99	101	102
240-208612-2	MW-126S_072924	107	95	100	101
240-208618-B-2 MS	Matrix Spike	100	99	98	97
240-208618-B-2 MSD	Matrix Spike Duplicate	106	104	102	102
LCS 240-622195/5	Lab Control Sample	100	100	99	97
LCS 240-622195/6	Lab Control Sample	101	98	96	99
MB 240-622195/9	Method Blank	102	97	98	101

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)	
240-208612-2	MW-126S_072924	110	
240-208618-E-2 MS	Matrix Spike	110	
240-208618-F-2 MSD	Matrix Spike Duplicate	109	
LCS 240-622256/4	Lab Control Sample	105	
MB 240-622256/6	Method Blank	97	

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

Job ID: 240-208612-1

Client: Arcadis U.S., Inc. Project/Site: Ford LTP

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

Lab Sample ID: MB 240-622195/9

Matrix: Water

Analysis Batch: 622195

Client Sample ID: Method Blank

Prep Type: Total/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			08/03/24 11:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/03/24 11:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/03/24 11:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/03/24 11:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/03/24 11:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/03/24 11:17	1

MB MB

Surrogate	%Recovery	Qualifier Lin	nits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102	62	_ 137		08/03/24 11:17	1
4-Bromofluorobenzene (Surr)	97	56	<i>-</i> 136		08/03/24 11:17	1
Toluene-d8 (Surr)	98	78	- 122		08/03/24 11:17	1
Dibromofluoromethane (Surr)	101	73	- 120		08/03/24 11:17	1

Lab Sample ID: LCS 240-622195/5 Client Sample ID: Lab Control Sample

Matrix: Water

Analysis Batch: 622195

		Prep Type: Total/NA	
Spike	LCS LCS	%Rec	

	Spike	LUS	LUS				70Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	19.8		ug/L		99	63 - 134	
cis-1,2-Dichloroethene	20.0	17.7		ug/L		89	77 - 123	
Tetrachloroethene	20.0	19.6		ug/L		98	76 - 123	
trans-1,2-Dichloroethene	20.0	18.1		ug/L		90	75 - 124	
Trichloroethene	20.0	18.6		ug/L		93	70 - 122	
Vinyl chloride	20.0	17.8		ug/L		89	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits	
1,2-Dichloroethane-d4 (Surr)	100		62 - 137	
4-Bromofluorobenzene (Surr)	100		56 ₋ 136	
Toluene-d8 (Surr)	99		78 - 122	
Dibromofluoromethane (Surr)	97		73 - 120	

Lab Sample ID: LCS 240-622195/6 **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 622195

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		62 - 137
4-Bromofluorobenzene (Surr)	98		56 - 136
Toluene-d8 (Surr)	96		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

Matrix: Water

Analysis Batch: 622195

Lab Sample ID: 240-208618-B-2 MS Client Sample ID: Matrix Spike Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	20.0	19.2		ug/L		96	56 - 135	
cis-1,2-Dichloroethene	1.0	U	20.0	17.9		ug/L		90	66 - 128	

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Page 12 of 20

8/7/2024

Client: Arcadis U.S., Inc. Job ID: 240-208612-1

Project/Site: Ford LTP

Lab Sample ID: 240-208618-B-2 MS

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

Matrix: Water

Analysis Batch: 622195

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Tetrachloroethene	1.0	U	20.0	16.9		ug/L		84	62 - 131
trans-1,2-Dichloroethene	1.0	U	20.0	17.7		ug/L		89	56 - 136
Trichloroethene	1.0	U	20.0	16.4		ug/L		82	61 - 124
Vinyl chloride	1.0	U	20.0	17.6		ug/L		88	43 - 157

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

Lab Sample ID: 240-208618-B-2 MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Analysis Batch: 622195

Prep Type: Total/NA

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit 1,1-Dichloroethene 1.0 U 56 - 135 20.0 20.4 ug/L 102 6 26 1.0 U 20.0 66 - 128 cis-1,2-Dichloroethene 18.0 ug/L 90 0 14 Tetrachloroethene 1.0 U 20.0 18.4 ug/L 92 62 - 131 20 trans-1,2-Dichloroethene 1.0 U 20.0 18.4 92 56 - 136 ug/L 15 Trichloroethene 1.0 U 20.0 17.4 ug/L 87 61 - 124 15 1.0 U Vinyl chloride 20.0 19.3 43 - 157 ug/L 24

MSD MSD

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		62 - 137
4-Bromofluorobenzene (Surr)	104		56 ₋ 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

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

Lab Sample ID: MB 240-622256/6

Matrix: Water

Analysis Batch: 622256

Client Sample ID: Method Blank Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Dil Fac Analyte Result Qualifier RL MDL Unit Prepared Analyzed 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 08/05/24 10:45

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 97 68 - 127 08/05/24 10:45

Lab Sample ID: LCS 240-622256/4

Matrix: Water

Analysis Batch: 622256

Alialysis Datcii. 022230							
	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,4-Dioxane	10.0	9.91		ua/L		99	75 - 121

Prep Type: Total/NA

QC Sample Results

Client: Arcadis U.S., Inc.

Job ID: 240-208612-1

Project/Site: Ford LTP

Lab Sample ID: LCS 240-622256/4

Matrix: Water

Analysis Batch: 622256

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

LCS LCS

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

 Surrogate
 %Recovery
 Qualifier
 Limits

 1,2-Dichloroethane-d4 (Surr)
 105
 68 - 127

Lab Sample ID: 240-208618-E-2 MS

Matrix: Water

Analysis Batch: 622256

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 2.0 U 10.0 9.53 ug/L 95 20 - 180

MS MS

 Surrogate
 %Recovery
 Qualifier
 Limits

 1,2-Dichloroethane-d4 (Surr)
 110
 68 - 127

Lab Sample ID: 240-208618-F-2 MSD

Matrix: Water

Analysis Batch: 622256

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Limits RPD Limit Unit D %Rec 1,4-Dioxane 2.0 U 10.0 9.68 ug/L 97 20 - 180

MSD MSD
Surrogate %Recovery Qualifier

 Surrogate
 %Recovery
 Qualifier
 Limits

 1,2-Dichloroethane-d4 (Surr)
 109
 68 - 127

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Page 14 of 20

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Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA

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8/7/2024

QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208612-1

GC/MS VOA

Analysis Batch: 622195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208612-1	TRIP BLANK_142	Total/NA	Water	8260D	
240-208612-2	MW-126S_072924	Total/NA	Water	8260D	
MB 240-622195/9	Method Blank	Total/NA	Water	8260D	
LCS 240-622195/5	Lab Control Sample	Total/NA	Water	8260D	
LCS 240-622195/6	Lab Control Sample	Total/NA	Water	8260D	
240-208618-B-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-208618-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 622256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-208612-2	MW-126S_072924	Total/NA	Water	8260D SIM	
MB 240-622256/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-622256/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-208618-E-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-208618-F-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-208612-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_142

Lab Sample ID: 240-208612-1 Date Collected: 07/29/24 00:00

Matrix: Water

Date Received: 08/01/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	622195	AJS	EET CLE	08/03/24 11:43

Client Sample ID: MW-126S_072924 Lab Sample ID: 240-208612-2

Date Collected: 07/29/24 14:25 Matrix: Water

Date Received: 08/01/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	622195	AJS	EET CLE	08/03/24 14:42
Total/NA	Analysis	8260D SIM		1	622256	MDH	EET CLE	08/05/24 11:32

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208612-1

Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
lowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-28-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

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Chain of Custody Record

MICHIGAN	TestAmerica 7
190	THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: Brighton — 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

												_						100						
Client Contact	Regulat	ory program:		DV	/	□ NI	PDES		□ RC	RA	C Ot	her												
Company Name: Arcadis	Client Project 7	Manager: Kris l	Hinskey			Site Co	ntact:	Chri	istina W	caver			Lab (Contac	t: Mik	e Dell	Monico	-				America l No:	Laborat	ories, inc
Address: 28550 Cabot Drive, Suite 500	-					L								ohone:							_			
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240				Teleph							1 elep	onone:	330-43							1 of 1	С	OCs
Phone: 248-994-2240	Email: kristoff	er.hinskey@arc	cadis.com			An	alysis	Turn	around	ime		_	1	1		Ai	nalys	es	_		For l	b use only		
rnone: 248-994-2240	Sampler Name	:				TATif	isfferent t											Í			Walk	in client		
Project Name: Ford LTP	Gas	rett L	So K			10 0	lav		3 weeks 2 weeks												Lab	ampling		-
Project Number: 30206169.0401.03	Method of Ship					1 "``	,	1"	1 week 2 days		EY			e				SIS						
PO # US3410018772	Shipping/Track	ing No:				1			l day		le (Y /	٥	8260D	E 8260D			8260	260D			Job/S	DG No		
				Matrix		C	ontaine	rs &	Preservat	ives		8260	SE 8	P	g	<u>e</u>	ride	ne 8						
6 - 1 11 - 25 - 2	Summer Date	Sample Time	Air Aqueous	Sediment	Other:	H2SO4	HCI	NaOH	ZaAci NaOli Unpres	Other:	Filtered Sample (Y/N)	1,1-DCE 8260D	cis-1,2-DCE	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D				Sample Special I		
Sample Identification	Sample Date	Sample Time	4 4	S S	10	= =	=	Z.	22.5	1°	2 0	-	1 2		۵	_	-	-	+	+				
TRIP BLANK_ 142			1				1				NG	X	X	Х	Х	Χ	Х				1	Trip Bl	ank	
TRIP BLANK_ 142 MW-1265_ 072924	7/29/24	1425	6				0				NE	n ×	×	X	×	X	X	X				VOAs fo		
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Possible Hazard Identification Non-Hazard lammable sin Irritant	Poise		Jnknown			f"	Retu	ım to			assessed Disposal I				rchive		ian i r	Month)	iths			240-20861		
Special Instructions/QC Requirements & Comments: 3 4	166 51	andish	St	Li	Ven	ia,	M	\														.4		
Submit all results through Cadena at jtomalia@cadenaco.c Level IV Reporting requested.	om. Cadena #E	203728																						
Relinquished by Barrett Link	Company:	t DIS	7	/Time:	24	163	+	٨	eived by:	Co	10 5	۲o	144	و		Comp	1120	AD	15			Time: 2/29/	24	1637
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Relinquished by	Company: EETA		Date	Time: 31 /2	4	4.650	um	Rec	eived in l	Labora						Comp	ano.	2			Parke	Time:	8) OC

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Barbeston Facility Cleve Eand Sample Receipt Form/Narrative: Barbeston Facility Coler Receipt Affect S Cooler Received on OS-/- Opened on S-/- N Cooler Receipt After-hours. Drop-off Date/Time Eurofins Cooler # C Foam Box Client Cooler Box Other Packing material used. Babble Wrap Foam Plastic Bag None Other COOLANT Wester Blue Ice Dry Ice Water None Cooler temperature upon receipt Cooler temperature upon receipt
--

Ы Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity R GUN# -Were the seals on the outside of the cooler(s) signed & dated? <u>`</u> ပ္ Observed Cooler Temp. See Multiple Cooler Form °C Corrected Cooler Temp. FO Z X

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

Shippers' packing slip attached to the cooler(s)? -Were tamper/custody seals intact and uncompromised?

Did custody papers accompany the sample(s)?

Were the custody papers relinquished & signed in the appropriate place?

7.5 Was/were the person(s) who collected the samples clearly identified on the COC?

Did all bottles arrive in good condition (Unbroken)?

For each sample, does the COC specify preservatives (WN), # of containers (WN), and sample type of grab/comp(YNN)?

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

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?

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Z

VOAs
Oil and Grease

TOC

Tests that are not checked for pH by

Receiving:

क्ष इ

If yes, Questions 13-17 have been checked at the originating laboratory

끕 Were all preserved sample(s) at the correct pH upon receipt?

ฆ Were air bubbles >6 mm in any VOA vials? Were VOAs on the COC?

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장

(NA) pH Strip Lo# HC442471

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888 X X X

Was a VOA trip blank present in the cooler(s)?
Was a LL Hg or Me Hg trip blank present? Trip Blank Lot# Larger than this

Contacted PM á

via Verbal Voice Mail Other

Concerning

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 with bubble >6 mm m diameter (Notify PM) were received in a broken container

20. SAMPLE PRESERVATION

Sample(s)
Time preserved. Preservative(s) added/Lot number(s). were further preserved in the laboratory

VOA Sample Preservation -Date/Time VOAs Frozen.

WI-NC-099-062024 Cooler Receipt Form.doc

Temperature readings			8
Client Sample ID	<u>Lab ID</u>	Container Type	Container Preservation Preservation pH Temp Added Lot Number
TRIP BLANK_142	240-208612-A-1	Voa Vial 40ml - Hydrochloric Acıd	
MW-126S_072924	240-208612-A-2	Voa Vial 40ml - Hydrochloric Acid	
MW-126S_072924	240-208612-B-2	Voa Vial 40ml - Hydrochloric Acid	ORDINATE STATE OF THE STATE OF
MW-126S_072924	240-208612-C-2	Voa Vial 40ml - Hydrochloric Acid	Name of the state
MW-126S_072924	240-208612-D-2	Voa Vial 40ml - Hydrochloric Acid	
MW-126S_072924	240-208612-E-2	Voa Vial 40ml - Hydrochloric Acid	
MW-126S_072924	240-208612-F-2	Voa Vial 40ml - Hydrochloric Acid	am manuta paradaja aprikani, da jakinani andana kana kana kana kana kana kana ka

Page 20 of 20

Page 1 of 1

DATA VERIFICATION REPORT



August 07, 2024

Megan Meckley Arcadis 28550 Cabot Drive Suite 500 Novi, MI US 48377

CADENA project ID: E203728

Project: Ford Livonia Transmission Plant - Soil Gas, Ground Water and Soil

Project number: 30206169.0401.04

Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 208612-1 Sample date: 2024-07-29

Report received by CADENA: 2024-08-07

Initial Data Verification completed by CADENA: 2024-08-07

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: 208612-1

		Sample Name: TRIP BLANK_142 Lab Sample ID: 2402086121 Sample Date: 7/29/2024 Report Val					MW-126 240208 7/29/20			
				-		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260		75.05.4	NID	4.0	. 11		ND	4.0	. //	
	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 # 240-208612-1

CADENA Verification Report: 2024-08-07

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 55464R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-208612-1 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			lysis
Sample 10	Labib	Wallix	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_142	240-208612-1	Water	07/29/2024		Х	
MW-126S_072924	240-208612-2	Water	07/29/2024		Х	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance otable	Not
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
Requested analyses and sample results		X		Х	
Master tracking list		X		Х	
4. Methods of analysis		X		Х	
5. Reporting limits		X		Х	
6. Sample collection date		Х		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
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	Perfo	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: Bindu Sree M B

SIGNATURE: BAShims

DATE: August 27, 2024

PEER REVIEW: Andrew Korycinski

DATE: September 7, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record

MICHIGAN Test Americ

TestAmerica Laboratory location: Brighton --- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 Client Contact NPDES RCRA Regulatory program: Company Name: Arcadis TestAmerica Laboratories, Inc. COC No: Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico Address: 28550 Cabot Drive, Suite 500 Telephone: 330-497-9396 Telephone: 248-994-2240 Telephone: 248-994-2240 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 TAT if different from below Garrett Link Project Name: Ford LTP 3 weeks 2 weeks Lab sampling 10 day Project Number: 30206169.0401.03 1 week 8260D SIM 8260D 8260D 2 days PO # US3410018772 Shipping/Tracking No: □ 1 day Job/SDG No Vinyl Chloride Containers & Preservatives PCE 8260D **ICE 8260D** Sample Specific Notes / H2S04 HNO3 Special Instructions: Sample Date Sample Time Sample Identification G X Х Х TRIP BLANK_ Ν 1 Trip Blank 3 VOAs for 8260D MW-1265_072924 3 VOAs for 8260D SIM 6 Chain Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Possible Hazard Identification Disposal By Lab sin Irritant Non-Hazard lammable Special Instructions/QC Requirements & Comments: 34966 Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728 Level IV Reporting requested. Date/Time Company: Relinquished by ARCADIS ARCADIS Date/Time: Relinquished 7/31/24 Relinguished by ompany: 7/31/24 11:65am

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EETA

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208612-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_142

Lab Sample ID: 240-208612-1 Date Collected: 07/29/24 00:00 **Matrix: Water**

Date Received: 08/01/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/03/24 11:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/03/24 11:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/03/24 11:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/03/24 11:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/03/24 11:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/03/24 11:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137			_		08/03/24 11:43	1
4-Bromofluorobenzene (Surr)	99		56 ₋ 136					08/03/24 11:43	1
Toluene-d8 (Surr)	101		78 - 122					08/03/24 11:43	1
Dibromofluoromethane (Surr)	102		73 - 120					08/03/24 11:43	1

Client Sample ID: MW-126S_072924

Date Collected: 07/29/24 14:25	Matrix: Water
Date Received: 08/01/24 08:00	
Mathada CNACAC COCCOR CNA Valatila Organia Compranda (CC/MC)	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/05/24 11:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		68 - 127			-		08/05/24 11:32	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			08/03/24 14:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/03/24 14:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/03/24 14:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/03/24 14:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/03/24 14:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/03/24 14:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			_		08/03/24 14:42	1
4-Bromofluorobenzene (Surr)	95		56 - 136					08/03/24 14:42	1
Toluene-d8 (Surr)	100		78 - 122					08/03/24 14:42	1
Dibromofluoromethane (Surr)	101		73 - 120					08/03/24 14:42	1

Lab Sample ID: 240-208612-2