ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/27/2024 11:50:55 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-215292-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



Eurofins Cleveland

Job Notes

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

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

Authorization

Generated 11/27/2024 11:50:55 AM

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

Laboratory Job ID: 240-215292-1

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

3

4

R

9

1 U 1 A

12

13

Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-215292-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description					
*+	LCS and/or LCSD is outside acceptance limits, high biased.					
F2	MS/MSD RPD exceeds control limits					

U Indicates the analyte was analyzed for but not detected.

Glossary

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

DLC Decision Level Concentration (Radiochemistry) EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) 100 MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry) MDL Method Detection Limit

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

NC Not Calculated

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 QC **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) TEQ Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count TNTC

Eurofins Cleveland

Page 4 of 20

Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-215292-1 Eurofins Cleveland

Job Narrative 240-215292-1

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 11/20/2024 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 1.5°C and 1.9°C.

GC/MS VOA

Method 8260D: The laboratory control sample (LCS) for analytical batch 240-636481 recovered outside control limits for the following analytes: cis-1,2-Dichloroethene and Trichloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

Eurofins Cleveland

Job ID: 240-215292-1

Page 5 of 20 11/27/2024

Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215292-1

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

3

4

5

8

3

11

12

Sample Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215292-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-215292-1	TRIP BLANK_140	Water	11/18/24 00:00	11/20/24 08:00
240-215292-2	MW-223S_111824	Water	11/18/24 15:20	11/20/24 08:00

1

3

4

_

9

10

13

Detection Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215292-1

Client Sample ID: TRIP BLANK_140

Lab Sample ID: 240-215292-1

No Detections.

No Detections.

-1

3

4

5

7

0

10

11

13

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-215292-1

Project/Site: Ford LTP

Date Received: 11/20/24 08:00

Client Sample ID: TRIP BLANK_140

Lab Sample ID: 240-215292-1 Date Collected: 11/18/24 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			11/23/24 19:33	1
cis-1,2-Dichloroethene	1.0	U *+	1.0	0.46	ug/L			11/23/24 19:33	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 19:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/24 19:33	1
Trichloroethene	1.0	U *+	1.0	0.44	ug/L			11/23/24 19:33	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/23/24 19:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137			_		11/23/24 19:33	1
4-Bromofluorobenzene (Surr)	93		56 ₋ 136					11/23/24 19:33	1
Toluene-d8 (Surr)	98		78 - 122					11/23/24 19:33	1
Dibromofluoromethane (Surr)	96		73 - 120					11/23/24 19:33	1

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-215292-1

Project/Site: Ford LTP

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Result Qualifier

1.0 U

Client Sample ID: MW-223S_111824

Date Received: 11/20/24 08:00

Analyte

1,1-Dichloroethene

Lab Sample ID: 240-215292-2 Date Collected: 11/18/24 15:20

Matrix: Water

Analyzed

11/23/24 23:30

Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/25/24 16:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		68 - 127			_		11/25/24 16:33	

RL

1.0

MDL Unit

0.49 ug/L

Prepared

cis-1,2-Dichloroethene	1.0	U *+	1.0	0.46	ug/L		11/23/24 23:30	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L		11/23/24 23:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L		11/23/24 23:30	1
Trichloroethene	1.0	U *+	1.0	0.44	ug/L		11/23/24 23:30	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L		11/23/24 23:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137				11/23/24 23:30	1
4-Bromofluorobenzene (Surr)	95		56 ₋ 136				11/23/24 23:30	1
Toluene-d8 (Surr)	109		78 - 122				11/23/24 23:30	1
Dibromofluoromethane (Surr)	98		73 - 120				11/23/24 23:30	1

Surrogate Summary

Client: Arcadis US Inc. Job ID: 240-215292-1 Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Su	rrogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-215292-1	TRIP BLANK_140	94	93	98	96
240-215292-2	MW-223S_111824	96	95	109	98
240-215294-B-2 MS	Matrix Spike	94	88	93	99
240-215294-B-2 MSD	Matrix Spike Duplicate	93	103	99	97
LCS 240-636481/5	Lab Control Sample	100	104	108	105
MB 240-636481/9	Method Blank	95	93	99	97

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	
Client Sample ID	(68-127)	
MW-223S_111824	105	
Matrix Spike	107	
Matrix Spike Duplicate	95	
Lab Control Sample	102	
Method Blank	97	
	MW-223S_111824 Matrix Spike Matrix Spike Duplicate Lab Control Sample	Client Sample ID (68-127) MW-223S_111824 105 Matrix Spike 107 Matrix Spike Duplicate 95 Lab Control Sample 102

Client: Arcadis US Inc. Job ID: 240-215292-1

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

Lab Sample ID: MB 240-636481/9

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 636481

Client	Sample	ID:	Method	Blank
	D.	an 1	Denoi To	to I/NI A

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			11/23/24 18:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/23/24 18:45	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 18:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/24 18:45	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 18:45	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/23/24 18:45	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 11/23/24 18:45 95 4-Bromofluorobenzene (Surr) 93 56 - 136 11/23/24 18:45 Toluene-d8 (Surr) 99 78 - 122 11/23/24 18:45 Dibromofluoromethane (Surr) 97 73 - 120 11/23/24 18:45

Lab Sample ID: LCS 240-636481/5

Matrix: Water

Analysis Batch: 636481

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	23.1	-	ug/L		116	63 - 134	
cis-1,2-Dichloroethene	20.0	24.8	*+	ug/L		124	77 - 123	
Tetrachloroethene	20.0	23.4		ug/L		117	76 - 123	
trans-1,2-Dichloroethene	20.0	23.1		ug/L		116	75 - 124	
Trichloroethene	20.0	24.6	*+	ug/L		123	70 - 122	
Vinyl chloride	20.0	25.7		ug/L		128	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 100 62 - 137 4-Bromofluorobenzene (Surr) 56 - 136 104 Toluene-d8 (Surr) 108 78 - 122 73 - 120 Dibromofluoromethane (Surr) 105

Matrix: Water

Analysis Batch: 636481

Lab Sample ID: 240-215294-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	17.6		ug/L		88	56 - 135	
cis-1,2-Dichloroethene	1.0	U F2 *+	20.0	18.8		ug/L		94	66 - 128	
Tetrachloroethene	1.0	U	20.0	18.3		ug/L		91	62 - 131	
trans-1,2-Dichloroethene	1.0	U F2	20.0	17.5		ug/L		88	56 - 136	
Trichloroethene	1.0	U F2 *+	20.0	18.8		ug/L		94	61 - 124	
Vinyl chloride	1.0	U F2	20.0	19.5		ug/L		98	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	88		56 - 136
Toluene-d8 (Surr)	93		78 - 122

Page 12 of 20

Job ID: 240-215292-1

Project/Site: Ford LTP

Client: Arcadis US Inc.

MSD MSD

21.6

21.2

23.2 F2

21.3 F2

22.8 F2

25.6 F2

ug/L

ug/L

Result Qualifier

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

Lab Sample ID: 240-215294-B-2 MS

Matrix: Water

Analysis Batch: 636481

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

Spike

Added

20.0

20.0

20.0

20.0

20.0

20.0

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 99 73 - 120

Lab Sample ID: 240-215294-B-2 MSD

Matrix: Water

1,1-Dichloroethene

Tetrachloroethene

Trichloroethene

Vinyl chloride

cis-1,2-Dichloroethene

trans-1.2-Dichloroethene

Analyte

Analysis Batch: 636481

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

61 - 124

43 - 157

RPD %Rec Unit D %Rec Limits RPD Limit ug/L 108 56 - 135 20 26 66 - 128 ug/L 116 21 14 ug/L 106 62 - 131 20 15 15 ug/L 107 56 - 136 19

114

128

1.0 U F2 MSD MSD

Sample Sample

1.0 U

1.0 U

1.0 UF2

1.0 U F2 *+

MR MR

Result Qualifier

1.0 U F2 *+

Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 93 62 - 137 103 4-Bromofluorobenzene (Surr) 56 - 136 Toluene-d8 (Surr) 99 78 - 122 Dibromofluoromethane (Surr) 97 73 - 120

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

Lab Sample ID: MB 240-636646/8

Matrix: Water

Analysis Batch: 636646

Client Sample ID: Method Blank

Prep Type: Total/NA

19

27

Analyte Result Qualifier RL MDL Unit Analyzed Dil Fac Prepared 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 11/25/24 13:26 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 97 68 - 127 11/25/24 13:26

Lab Sample ID: LCS 240-636646/6

Matrix: Water

Analysis Batch: 636646

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 10.0 8.93 ug/L 89 75 - 121

LCS LCS

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

Lab Sample ID: 240-215294-E-2 MS

Matrix: Water

Analysis Batch: 636646

Analysis Daton. 000040										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	7.45		ug/L		74	20 - 180	

Eurofins Cleveland

11/27/2024

Prep Type: Total/NA

Client Sample ID: Matrix Spike

15

24

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

QC Sample Results

Client: Arcadis US Inc. Job ID: 240-215292-1

Project/Site: Ford LTP Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		68 - 127

1,2 Biomorodinano a i (Gan)	, , ,
Lab Sample ID: 240-215294-E-2 MSD	

Matrix: Water

Analysis Batch: 636646

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Sample Sample Spike MSD MSD %Rec RPD Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec 2.0 U 1,4-Dioxane 10.0 8.72 87 20 - 180 ug/L 16

20 MSD MSD

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 95 68 - 127

QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215292-1

GC/MS VOA

Analysis Batch: 636481

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
240-215292-1	TRIP BLANK_140	Total/NA	Water	8260D	
240-215292-2	MW-223S_111824	Total/NA	Water	8260D	
MB 240-636481/9	Method Blank	Total/NA	Water	8260D	
LCS 240-636481/5	Lab Control Sample	Total/NA	Water	8260D	
240-215294-B-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-215294-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 636646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-215292-2	MW-223S_111824	Total/NA	Water	8260D SIM	
MB 240-636646/8	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-636646/6	Lab Control Sample	Total/NA	Water	8260D SIM	
240-215294-E-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-215294-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

3

4

6

1

0

10

11

IJ

Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-215292-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_140

Lab Sample ID: 240-215292-1 Date Collected: 11/18/24 00:00

Matrix: Water

Date Received: 11/20/24 08:00

ı		Batch	Batch		Dilution	Batch			Prepared
	Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
ı	Total/NA	Analysis	8260D		1	636481	CS	EET CLE	11/23/24 19:33

Client Sample ID: MW-223S_111824 Lab Sample ID: 240-215292-2

Date Collected: 11/18/24 15:20 Matrix: Water

Date Received: 11/20/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	636481	CS	EET CLE	11/23/24 23:30
Total/NA	Analysis	8260D SIM		1	636646	R5XG	EET CLE	11/25/24 16:33

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215292-1

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
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
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Hampshire	NELAP	225024	09-30-25
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	02-27-25
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	12-31-24

4

5

7

8

9

10

12

13



Test America Laboratory location - Brighton - 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

Chain of Custody Record

Client Contact	Regulat	ory program:			DW		┌ N	PDES		_ I	RCRA		Otl	her											
Company Name: Arcadis	Client Project	Manager: Kris	Hinsk	ey	_		Site Co	ontact:	Chr	istina	Weaver	r			Lab	Contac	t: Mik	e Dell	Monic)					TestAmerica Laboratories, Inc COC No:
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	004 2240					T		10.01	24.004						,	220.4							_	
City/State/Zip: Novi, MI, 48377	1 elephone: 248	-994-2240					ı elebi	ione: 2	48-9	94-224	10				Telephone: 330-497-9396									1 of 1 COCs	
Phone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.	com			A	alysis	Ter	MITORI	d Time		T					A	nalys	es				\Box	For lab use only
Phone: 248-994-2240	Sampler Name	:	_				TATir	different	from b	below	_	\dashv													Walk-in client
Project Name: Ford LTP		2000 (in	ha	m			day		3 wee															
Project Number: 30206169.0401.03	Method of Ship		100	J			10	uay	Γ	1 wee	ek	9	ڀ							W.					Lab sampling
PO # US3410018772	Shipping/Track	cing No:								2 day 1 day		Filtered Sample (V / N)	Composite-C/Grab-G		9	Trans-1,2-DCE 8260D			Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM					Job/SDG No
	 				latrix		_	ontaine	ere &	Preser	vatives	- 1 함	ڈا ڈ	1.1-DCE 8260D	cis-1,2-DCE 8260D	CE			de 8	9 8 26					
	1								1				i i	E 82	DCE	1.2-[8	009Z	hlori	xan					
				58000	Solid	her:	112504	QI QI	5	ZAAU	Unpres	Į į	9	i o	1.2	ans-	PCE 8260D	TCE 8260D	Jyl C	4-Dio					Sample Specific Notes / Special Instructions:
Sample Identification	Sample Date	Sample Time	2	y i	ž S	ŏ	2 :	i i	ž	12	≛ ర	12	: 0	-	1.2	12	PC	<u> </u>	3	-	_				
TRIP BLANK_ /40			Н	1				1				IN	1 G	X	X	X	х	Χ	Х						1 Trip Blank
TRIP BLANK_140 MW-2235_111824	11/18/24	1520	П	0				(0		П		1	V (-	X	X	X	X	X	У	X					3 VOAs for 8260D 3 VOAs for 8260D SIM
				Ť				1	\vdash				+		1					, ,				П	
	-	-	+	-	+		-	+-	+	\vdash	_	-	+	+-	-	-	-						-	=	
	+		Ш																_						
			\forall	=					†	П			+	-											
			Ш	-			\Rightarrow	_			=	\perp		\bot	—	<u> </u>								_	
							-				+	+	4	\bot											
				7					+	\vdash	_		+	+				_							
			1																		lin	44:			
																					1				
			+	+	+-	-	\vdash	+	+	\vdash	-	+	+	+-	+-	+	-		H	ı		1			
																				240		-			
RCIVISIZII																				- 70-,	21525	92 C	oc		
Possible Hazard Identification		<u> </u>					Sar	nnle D	ivnor	nl (A	fee may	be ave	evacd	if same	oler ar	e retni	ned lo	acr t							
Non-Hazard lammable sin Irrita	nt Pois	on B	Jnk	nown			34.			o Clien	it F	Disp	osal	By Lab	,,,,		rchive				onths				
Special Instructions/QC Requirements & Comments: 350	OO Plym	rotto																							
Submit all results through Cadena at jtomalia@cadenaco Level IV Reporting requested.	.com. Caderra #	E203728																							
Relinquished by:	Company: A	- 11-	_	Date/	Time:		1,		Rec	eived	by:	0.1	10	01-				Com	pany:		14				Date/Timq:
Men Man	A	readis		11/	18/-	<u> </u>	10	45	1_	_/	vovi		V	St	Ω	OSC.				100	ndi:	<u>S</u>			Date/Time: 11/18/24 1045
Relinquished by:	Company	cades		Date/	19	24	117	0		邦	r-	~	0.	re	1	\sim	_	ŧ	É	A					Date/Time:
Reinstrictory Wer	Company			Date/	Time	24	12	50	Re	ceived	in Lab					_		Com	The contract of the contract o	_					Date/Time: 11-20 82
							•				-		1									_			- - / /
©2006, TestAmerica Laboratories, Inc. All rights reserved, TestAmerica & Design ¹⁰ are trademarks of TestAmerica Laboratories, Inc.											//	//													

VOA Sample Preservation - Date/Time VOAs Frozen.
Sample(s) were further preserved in the laboratory [ime preserved. Preservative(s) added/Lot number(s):
10 SAMPLE PRESERVATION
were received with bu
Sample(s)were received after the recommended holding time had expired. Sample(s)were received after the recommended holding time had expired.
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
Concerning
Contacted PM Date by via Verbal Voice Mail Other
Was a LL Hg or Me Hg trip blank present?
15 Were air bubbles >6 mm in any VOA vials? Larger than this 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #
Yes Yes
11 Sufficient quantity received to perform indicated analyses?
For each sample, does the COC specify preservatives (MN), # of containers (MN), a
7 Did all bottles arrive in good condition (Unbroken)? 8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
Te se
promised? Xes No NA
\$
s Quantity 六 💥
+O. / °C) Observed Cooler
COOLANT Westige Blue see Dry see Water None Cooler temperature upon receipt See Multiple Cooler Form
rial used. Bubble Wrap Foam Plastic Bag None
Receipt After-hours Drog-off Date/Time Storage Location Foam Box Client Cooler Box Other
aypoint Client Drop Off E
Cooler Received on 1-20-31 Opened on 1-20-29
TOTAL PARTY AND A STATE OF THE

Page 19 of 20

Cooler Receipt Form Page 2 - Multiple Cooler

Page 20 of 20 11/27/2024

DATA VERIFICATION REPORT



November 27, 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_WA-03

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

Laboratory submittal: 215292-1 Sample date: 2024-11-18

Report received by CADENA: 2024-11-27

Initial Data Verification completed by CADENA: 2024-11-27

Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC

Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

The following minor QC exceptions or missing information were noted:

GCMS VOC QC batch LCS recoveries were outliers biased high for the following analytes: CIS-1,2-DICHLOROETHENE and TRICHLOROETHENE. Associated client sample results were non-detect so qualification was not required based on these high bias QC outliers.

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

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 215292-1

		Sample Name: Lab Sample ID: Sample Date:	2402152921 11/18/2024				MW-223S_111824 2402152922 11/18/2024			
				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>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 # 240-215292-1

CADENA Verification Report: 2024-11-27

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 56939R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-215292-1 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	Wallix	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_140	240-215292-1	Water	11/18/2024		Х	
MW-223S_111824	240-215292-2	Water	11/18/2024		X	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Reported		Perfor Accep		Not Required	
	No	Yes	No	Yes	Required	
Sample receipt condition		Х		Х		
2. Requested analyses and sample results		Х		X		
Master tracking list		Х		X		
4. Methods of analysis		X		X		
5. Reporting limits		X		Х		
6. Sample collection date		X		Х		
7. Laboratory sample received date		Х		Х		
8. Sample preservation verification (as applicable)		Х		Х		
Sample preparation/extraction/analysis dates		X		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	Х				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Bindu Sree M B

SIGNATURE: BAShims

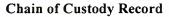
DATE: December 16, 2024

PEER REVIEW: Andrew Korycinski

DATE: December 19, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS







TestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 Client Contact Regulatory program: NPDES RCRA Other TestAmerica Laboratories, Inc. Company Name: Arcadis Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico COC No: Address: 28550 Cabot Drive, Suite 500 Telephone: 330-497-9396 Telephone: 248-994-2240 Telephone: 248-994-2240 City/State/Zip: Novi, MI, 48377 COCs Analyses Analysis Turnaround Time Email: kristoffer.hinskey@arcadis.com For lab use only Phone: 248-994-2240 Walk-in client TAT if different from below Sampler Name: Project Name: Ford LTP ☐ 3 weeks ✓ 2 weeks Lab sampling Project Number: 30206169.0401.03 1 week 4-Dioxane 8260D SIM Composite=C/Grab=G 2 days Vinyl Chloride 8260D cis-1,2-DCE 8260D Job/SDG No PO # US3410018772 ☐ 1 day Shipping/Tracking No: Containers & Preservatives TCE 8260D Sample Specific Notes / HNO3 NaOH Special Instructions: Ξ Sample Identification Sample Date Sample Time TRIP BLANK_ 140 G Χ X 1 Trip Blank 3 VOAs for 8260D 0 MW-2238_111824 11/18/24 1520 3 VOAs for 8260D SIM 240-215292 COC RCIVISIZE Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Non-Hazard in Irritant ☐ Jnknown Return to Client Disposal By Lab Archive For Special Instructions/QC Requirements & Comments: 35000 Plyfrouth
Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728 Level IV Reporting requested. Relinquished by Arcadis 1645 Amadis 11/18/24 11/18/24 1045 11/19/24 1120 Company

©2008, TestAmerica Laboratories, Inc. All rights reserved.

Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-215292-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

U	Indicates the analyte was analyzed for but not detected.
Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
₩	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
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

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-215292-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_140

Lab Sample ID: 240-215292-1 Date Collected: 11/18/24 00:00 **Matrix: Water**

Date Received: 11/20/24 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			11/23/24 19:33	1
cis-1,2-Dichloroethene	1.0	U ⁴⊷	1.0	0.46	ug/L			11/23/24 19:33	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 19:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/24 19:33	1
Trichloroethene	1.0	U * ⊷	1.0	0.44	ug/L			11/23/24 19:33	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/23/24 19:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137			_		11/23/24 19:33	1
4-Bromofluorobenzene (Surr)	93		56 ₋ 136					11/23/24 19:33	1
Toluene-d8 (Surr)	98		78 - 122					11/23/24 19:33	1
Dibromofluoromethane (Surr)	96		73 - 120					11/23/24 19:33	1

Client Sample ID: MW-223S_111824

Date Collected: 11/18/24 15:20

1,4-Dioxane

Date Received: 11/20/24 0	8:00						
Method: SW846 8260D S	IM - Volatile Organic Compounds (GC	C/MS)					
Analyte	Posult Qualifier	PI	MDI Unit	n	Dronarod	Analyzod	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.2-Dichloroethane-d4 (Surr)	105	68 - 127		11/25/24 16:33	1

2.0

0.86 ug/L

Method: SW846 8260D	- Volatile	Organic Com	pounds by	/ GC/MS

2.0 U

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/23/24 23:30	1
cis-1,2-Dichloroethene	1.0	U →	1.0	0.46	ug/L			11/23/24 23:30	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 23:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/24 23:30	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 23:30	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/23/24 23:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137		11/23/24 23:30	1
4-Bromofluorobenzene (Surr)	95		56 - 136		11/23/24 23:30	1
Toluene-d8 (Surr)	109		78 - 122		11/23/24 23:30	1
Dibromofluoromethane (Surr)	98		73 - 120		11/23/24 23:30	1

Lab Sample ID: 240-215292-2

11/25/24 16:33

Matrix: Water