PREPARED FOR

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

Generated 5/13/2025 6:44:01 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-223577-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

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Authorized for release by Michael DelMonico, Project Manager I Michael.DelMonico@et.eurofinsus.com (330)966-9783 Client: Arcadis US Inc. Project/Site: Ford LTP

Laboratory Job ID: 240-223577-1

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-223577-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA	
Qualifier	Qualifier Description

F2 MS/MSD RPD exceeds control limits

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

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Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-223577-1 Eurofins Cleveland

Job Narrative 240-223577-1

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 5/3/2025 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 5.1°C.

GC/MS VOA

Method 8260D_SIM: Not reporting Parent, MS, or MSD due to analyst oversight not spiking the MS and MSD. reanalysis is in process.

MW-72_050125 (240-223577-2), MW-72S_050125 (240-223577-3), MW-73SR_050125 (240-223577-4), MW-73D_050125 (240-223577-5), MW-74_050125 (240-223577-6) and MW-74S_050125 (240-223577-7)

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: 240-223577-1

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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-223577-1

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

Eurofins Cleveland

Sample Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-223577-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-223577-1	TRIP BLANK_57	Water	05/01/25 00:00	05/03/25 08:00
240-223577-2	MW-72_050125	Water	05/01/25 10:05	05/03/25 08:00
240-223577-3	MW-72S_050125	Water	05/01/25 11:05	05/03/25 08:00
240-223577-4	MW-73SR_050125	Water	05/01/25 12:05	05/03/25 08:00
240-223577-5	MW-73D_050125	Water	05/01/25 13:05	05/03/25 08:00
240-223577-6	MW-74_050125	Water	05/01/25 14:05	05/03/25 08:00
240-223577-7	MW-74S 050125	Water	05/01/25 15:05	05/03/25 08:00

Detection Summary

Client: Arcadis US Inc. Job ID: 240-223577-1 Project/Site: Ford LTP Client Sample ID: TRIP BLANK_57 Lab Sample ID: 240-223577-1 No Detections. Client Sample ID: MW-72_050125 Lab Sample ID: 240-223577-2 Result Qualifier RL **MDL** Unit Dil Fac D Method Prep Type Vinyl chloride 0.83 J 1.0 0.45 ug/L 8260D Total/NA Client Sample ID: MW-72S 050125 Lab Sample ID: 240-223577-3 No Detections. Client Sample ID: MW-73SR_050125 Lab Sample ID: 240-223577-4 Result Qualifier RL MDL Unit Dil Fac D Method **Prep Type** cis-1,2-Dichloroethene 1.9 1.0 0.46 ug/L 8260D Total/NA Client Sample ID: MW-73D_050125 Lab Sample ID: 240-223577-5 Analyte Result Qualifier RL MDL Unit Dil Fac D Method **Prep Type** 1,4-Dioxane 2.7 2.0 0.86 ug/L 8260D SIM Total/NA Client Sample ID: MW-74_050125 Lab Sample ID: 240-223577-6 Dil Fac D Analyte Result Qualifier RL MDL Unit Method **Prep Type**

2.0

1.0

RL

1.0

0.86

MDL

0.46 ug/L

0.45 ug/L

ug/L

Unit

1.9

3.8

Result Qualifier

0.94 J

Prep Type Total/NA

Total/NA

Total/NA

Dil Fac D Method

Lab Sample ID: 240-223577-7

8260D SIM

8260D

1

8260D

This Detection Summary does not include radiochemical test results.

1,4-Dioxane

Vinyl chloride

cis-1,2-Dichloroethene

Analyte

Client Sample ID: MW-74S_050125

Client: Arcadis US Inc. Job ID: 240-223577-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_57

Lab Sample ID: 240-223577-1 Date Collected: 05/01/25 00:00 **Matrix: Water**

Date Received: 05/03/25 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			05/08/25 18:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/08/25 18:10	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/08/25 18:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/08/25 18:10	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/08/25 18:10	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/08/25 18:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137			_		05/08/25 18:10	1
4-Bromofluorobenzene (Surr)	104		56 ₋ 136					05/08/25 18:10	1
Toluene-d8 (Surr)	104		78 - 122					05/08/25 18:10	1
Dibromofluoromethane (Surr)	103		73 - 120					05/08/25 18:10	1

Client: Arcadis US Inc. Job ID: 240-223577-1

Project/Site: Ford LTP

Client Sample ID: MW-72_050125

Date Collected: 05/01/25 10:05 Date Received: 05/03/25 08:00

Dibromofluoromethane (Surr)

Lab Sample ID: 240-223577-2

05/08/25 19:56

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			05/07/25 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		68 - 127			-		05/07/25 13:03	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			05/08/25 19:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/08/25 19:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/08/25 19:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/08/25 19:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/08/25 19:56	1
Vinyl chloride	0.83	J	1.0	0.45	ug/L			05/08/25 19:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		05/08/25 19:56	1
4-Bromofluorobenzene (Surr)	96		56 ₋ 136					05/08/25 19:56	1
Toluene-d8 (Surr)	98		78 ₋ 122					05/08/25 19:56	1

73 - 120

Client: Arcadis US Inc. Job ID: 240-223577-1

Project/Site: Ford LTP

Client Sample ID: MW-72S_050125

Lab Sample ID: 240-223577-3 Date Collected: 05/01/25 11:05

Matrix: Water

05/08/25 20:22

05/08/25 20:22

05/08/25 20:22

Date Received: 05/03/25 08:00

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/07/25 13:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		68 - 127			-		05/07/25 13:27	1
- Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/08/25 20:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/08/25 20:22	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/08/25 20:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/08/25 20:22	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/08/25 20:22	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/08/25 20:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		05/08/25 20:22	

56 - 136

78 - 122

73 - 120

97

99

98

Client: Arcadis US Inc. Job ID: 240-223577-1

Project/Site: Ford LTP

Date Received: 05/03/25 08:00

Dibromofluoromethane (Surr)

Client Sample ID: MW-73SR_050125

Lab Sample ID: 240-223577-4 Date Collected: 05/01/25 12:05

100

Matrix: Water

05/08/25 20:49

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/07/25 13:50	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2-Dichloroethane-d4 (Surr)	106		68 - 127			_		05/07/25 13:50	

1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L		05/08/25 20:49	1
cis-1,2-Dichloroethene	1.9		1.0	0.46	ug/L		05/08/25 20:49	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L		05/08/25 20:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L		05/08/25 20:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L		05/08/25 20:49	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L		05/08/25 20:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137				05/08/25 20:49	1
4-Bromofluorobenzene (Surr)	91		56 ₋ 136				05/08/25 20:49	1
Toluene-d8 (Surr)	97		78 ₋ 122				05/08/25 20:49	1

73 - 120

Client: Arcadis US Inc. Job ID: 240-223577-1

Project/Site: Ford LTP

Client Sample ID: MW-73D_050125

Lab Sample ID: 240-223577-5 Date Collected: 05/01/25 13:05

Matrix: Water

Date Received: 05/03/25 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.7		2.0	0.86	ug/L			05/07/25 14:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		68 - 127			_		05/07/25 14:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/08/25 21:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/08/25 21:15	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/08/25 21:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/08/25 21:15	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/08/25 21:15	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/08/25 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137			_		05/08/25 21:15	1
4-Bromofluorobenzene (Surr)	89		56 136					05/08/25 21:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137		05/08/25 21:15	1
4-Bromofluorobenzene (Surr)	89		56 - 136		05/08/25 21:15	1
Toluene-d8 (Surr)	95		78 - 122		05/08/25 21:15	1
Dibromofluoromethane (Surr)	99		73 - 120		05/08/25 21:15	1

Client: Arcadis US Inc. Job ID: 240-223577-1

Project/Site: Ford LTP

Client Sample ID: MW-74_050125

Date Collected: 05/01/25 14:05 Date Received: 05/03/25 08:00

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Lab Sample ID: 240-223577-6

05/11/25 03:29

05/11/25 03:29 05/11/25 03:29

05/11/25 03:29

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.9	J	2.0	0.86	ug/L			05/07/25 14:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 127			-		05/07/25 14:37	1
Analyte 1,1-Dichloroethene	Result	Qualifier U	RL		Unit ug/L	D	Prepared	Analyzed 05/11/25 03:29	Dil Fac
Method: SW846 8260D - Volat		•		MDI	l lmi4	Б	Dunnanad	Amakanad	Dil Fac
cis-1,2-Dichloroethene	1.0		1.0		ug/L			05/11/25 03:29	1
Tetrachloroethene	1.0		1.0		ug/L			05/11/25 03:29	1
trans-1.2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/11/25 03:29	1
trans-1,2-Dichloroethene									
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/11/25 03:29	1
,	1.0 3.8	U	1.0 1.0		ug/L ug/L			05/11/25 03:29 05/11/25 03:29	1

62 - 137

56 - 136

78 - 122

73 - 120

105

98

104

103

Client: Arcadis US Inc. Job ID: 240-223577-1

Project/Site: Ford LTP

Analyte

Date Received: 05/03/25 08:00

Client Sample ID: MW-74S_050125

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

Result Qualifier

Lab Sample ID: 240-223577-7 Date Collected: 05/01/25 15:05

Matrix: Water

Analyzed

Prepared

Method: SW846 8260D SIM - Vol	atile 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			05/07/25 15:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		68 - 127			_		05/07/25 15:00	1

RL

MDL Unit

1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L		05/11/25 03:55	1
cis-1,2-Dichloroethene	0.94	J	1.0	0.46	ug/L		05/11/25 03:55	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L		05/11/25 03:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L		05/11/25 03:55	1
Trichloroethene	1.0	U	1.0	0.44	ug/L		05/11/25 03:55	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L		05/11/25 03:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137				05/11/25 03:55	1
4-Bromofluorobenzene (Surr)	94		56 ₋ 136				05/11/25 03:55	1
Toluene-d8 (Surr)	97		78 - 122				05/11/25 03:55	1
Dibromofluoromethane (Surr)	99		73 - 120				05/11/25 03:55	1

5/13/2025

Dil Fac

Surrogate Summary

Client: Arcadis US Inc. Job ID: 240-223577-1 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)
240-223577-1	TRIP BLANK_57	105	104	104	103
240-223577-2	MW-72_050125	101	96	98	99
240-223577-3	MW-72S_050125	102	97	99	98
240-223577-4	MW-73SR_050125	103	91	97	100
240-223577-5	MW-73D_050125	102	89	95	99
240-223577-6	MW-74_050125	105	98	104	103
240-223577-7	MW-74S_050125	101	94	97	99
240-223608-B-2 MS	Matrix Spike	97	95	98	
240-223608-B-2 MSD	Matrix Spike Duplicate	98	98	99	
240-223617-F-6 MS	Matrix Spike	98	99	100	98
240-223617-F-6 MSD	Matrix Spike Duplicate	94	98	99	96
LCS 240-655251/5	Lab Control Sample	101	106	105	101
LCS 240-655526/5	Lab Control Sample	94	100	102	97
MB 240-655251/9	Method Blank	98	95	96	98
MB 240-655526/9	Method Blank	105	101	105	105

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)

Prep Type: Total/NA **Matrix: Water**

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-223577-2	MW-72_050125	105	
240-223577-3	MW-72S_050125	108	
240-223577-4	MW-73SR_050125	106	
240-223577-5	MW-73D_050125	109	
240-223577-6	MW-74_050125	104	
240-223577-7	MW-74S_050125	110	
LCS 240-655005/4	Lab Control Sample	101	
MB 240-655005/6	Method Blank	106	

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

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Client: Arcadis US Inc. Job ID: 240-223577-1

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

Lab Sample ID: MB 240-655251/9

Matrix: Water

Analyte

Project/Site: Ford LTP

Analysis Batch: 655251

Client Samp	e ID: Method Blank
	rep Type: Total/NA

MB MB Dil Fac Result Qualifier RLMDL Unit D Prepared Analyzed 1.0 U 1.0 0.49 ug/L 05/08/25 15:05

1,1-Dichloroethene cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 05/08/25 15:05 1.0 U 1.0 0.44 ug/L 05/08/25 15:05 Tetrachloroethene trans-1,2-Dichloroethene 1.0 U 1.0 05/08/25 15:05 0.51 ug/L Trichloroethene 1.0 U 1.0 0.44 ug/L 05/08/25 15:05 Vinyl chloride 1.0 U 1.0 0.45 ug/L 05/08/25 15:05

MB MB

Surrogate	%Recovery	Qualifier Lin	nits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98	62	_ 137		05/08/25 15:05	1
4-Bromofluorobenzene (Surr)	95	56	- 136		05/08/25 15:05	1
Toluene-d8 (Surr)	96	78	- 122		05/08/25 15:05	1
Dibromofluoromethane (Surr)	98	73	- 120		05/08/25 15:05	1

Lab Sample ID: LCS 240-655251/5

Matrix: Water

Analysis Batch: 655251

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	22.5		ug/L		90	63 - 134	
cis-1,2-Dichloroethene	25.0	23.7		ug/L		95	77 - 123	
Tetrachloroethene	25.0	23.1		ug/L		92	76 - 123	
trans-1,2-Dichloroethene	25.0	23.4		ug/L		94	75 - 124	
Trichloroethene	25.0	22.8		ug/L		91	70 - 122	
Vinyl chloride	25.0	19.6		ug/L		78	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		62 _ 137
4-Bromofluorobenzene (Surr)	106		56 - 136
Toluene-d8 (Surr)	105		78 - 122
Dibromofluoromethane (Surr)	101		73 - 120

Lab Sample ID: 240-223608-B-2 MS

Matrix: Water

Analysis Batch: 655251

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	
cis-1,2-Dichloroethene	530		5000	5050		ug/L		90	66 - 128	
Tetrachloroethene	200	U	5000	4070		ug/L		81	62 - 131	
trans-1,2-Dichloroethene	200	U	5000	4470		ug/L		89	56 - 136	
Trichloroethene	200	U	5000	4200		ug/L		84	61 - 124	
Vinyl chloride	6000		5000	9000		ug/L		61	43 - 157	

MS MS

Surrogate	%Recovery Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97	62 - 137
4-Bromofluorobenzene (Surr)	95	56 ₋ 136
Toluene-d8 (Surr)	98	78 - 122

Eurofins Cleveland

Client: Arcadis US Inc. Job ID: 240-223577-1 Project/Site: Ford LTP

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

Lab Sample ID: 240-223608-B-2 MSD

Matrix: Water

Analysis Batch: 655251

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

Sample Sample MSD MSD %Rec RPD Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits RPD Limit cis-1,2-Dichloroethene 530 5000 4940 ug/L 88 66 - 128 2 14 Tetrachloroethene 200 U 5000 3990 ug/L 80 62 - 131 2 20 200 U 5000 4380 56 - 136 trans-1,2-Dichloroethene ug/L 88 2 15 5000 4050 Trichloroethene 200 U ug/L 81 61 - 124 15 Vinyl chloride 6000 5000 8510 ug/L 43 - 157

MSD MSD

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

Lab Sample ID: MB 240-655526/9

Matrix: Water

Analysis Batch: 655526

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

MR MR Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 05/11/25 02:36 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 05/11/25 02:36 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 05/11/25 02:36 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 05/11/25 02:36 Trichloroethene 1.0 U 1.0 0.44 ug/L 05/11/25 02:36 Vinyl chloride 1.0 U 1.0 0.45 ug/L 05/11/25 02:36

MB MB

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105	62 - 137		05/11/25 02:36	1
4-Bromofluorobenzene (Surr)	101	56 - 136		05/11/25 02:36	1
Toluene-d8 (Surr)	105	78 - 122		05/11/25 02:36	1
Dibromofluoromethane (Surr)	105	73 - 120		05/11/25 02:36	1

Lab Sample ID: LCS 240-655526/5

Matrix: Water

Analysis Batch: 655526

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

	Spike	LCS	LCS			%Rec	
Analyte	Added	Result	Qualifier Un	nit D	%Rec	Limits	
1,1-Dichloroethene	25.0	22.4	ug	/L	90	63 - 134	
cis-1,2-Dichloroethene	25.0	22.7	ug	/L	91	77 - 123	
Tetrachloroethene	25.0	20.9	ug	/L	84	76 - 123	
trans-1,2-Dichloroethene	25.0	22.2	ug	/L	89	75 - 124	
Trichloroethene	25.0	20.7	ug	/L	83	70 - 122	
Vinyl chloride	25.0	15.9	ug	/L	64	60 - 144	

LCS LCS

%Recovery	Qualifier	Limits
94		62 - 137
100		56 ₋ 136
102		78 - 122
97		73 - 120
_	94 100 102	94 100 102

Eurofins Cleveland

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Client: Arcadis US Inc. Job ID: 240-223577-1 Project/Site: Ford LTP

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

Lab Sample ID: 240-223617-F-6 MS

Matrix: Water

Analysis Batch: 655526

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	25.0	24.4		ug/L		97	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	24.0		ug/L		96	66 - 128
Tetrachloroethene	1.0	U	25.0	23.5		ug/L		94	62 - 131
trans-1,2-Dichloroethene	1.0	U F2	25.0	23.8		ug/L		95	56 - 136
Trichloroethene	1.0	U	25.0	23.4		ug/L		94	61 - 124
Vinyl chloride	1.0	U	25.0	18.5		ug/L		74	43 - 157

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

Lab Sample ID: 240-223617-F-6 MSD

Matrix: Water

Analysis Batch: 655526

Client Sample ID: M	atrix Spike Duplicate
	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	1.0	U	25.0	19.6		ug/L		78	56 - 135	22	26
cis-1,2-Dichloroethene	1.0	U	25.0	23.1		ug/L		93	66 - 128	4	14
Tetrachloroethene	1.0	U	25.0	22.5		ug/L		90	62 - 131	4	20
trans-1,2-Dichloroethene	1.0	U F2	25.0	20.0	F2	ug/L		80	56 - 136	17	15
Trichloroethene	1.0	U	25.0	22.2		ug/L		89	61 - 124	5	15
Vinyl chloride	1.0	U	25.0	17.5		ug/L		70	43 - 157	5	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	98		56 ₋ 136
Toluene-d8 (Surr)	99		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

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

Lab Sample ID: MB 240-655005/6	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total/NA

Analysis Batch: 655005									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/07/25 09:09	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1 2-Dichloroethane-d4 (Surr)	106		68 127			-		05/07/25 09:09	

Eurofins Cleveland

QC Sample Results

Client: Arcadis US Inc. Job ID: 240-223577-1

Project/Site: Ford LTP

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

Lab Sample ID: LCS 240-655005/4	Client Sample ID: Lab Control Sample
Matrix: Water	Prep Type: Total/NA

Analysis Batch: 655005

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	10.0	7.90		ug/L		79	75 - 121	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		68 - 127

QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-223577-1

GC/MS VOA

Analysis Batch: 655005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223577-2	MW-72_050125	Total/NA	Water	8260D SIM	
240-223577-3	MW-72S_050125	Total/NA	Water	8260D SIM	
240-223577-4	MW-73SR_050125	Total/NA	Water	8260D SIM	
240-223577-5	MW-73D_050125	Total/NA	Water	8260D SIM	
240-223577-6	MW-74_050125	Total/NA	Water	8260D SIM	
240-223577-7	MW-74S_050125	Total/NA	Water	8260D SIM	
MB 240-655005/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-655005/4	Lab Control Sample	Total/NA	Water	8260D SIM	

Analysis Batch: 655251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-223577-1	TRIP BLANK_57	Total/NA	Water	8260D	<u> </u>
240-223577-2	MW-72_050125	Total/NA	Water	8260D	
240-223577-3	MW-72S_050125	Total/NA	Water	8260D	
240-223577-4	MW-73SR_050125	Total/NA	Water	8260D	
240-223577-5	MW-73D_050125	Total/NA	Water	8260D	
MB 240-655251/9	Method Blank	Total/NA	Water	8260D	
LCS 240-655251/5	Lab Control Sample	Total/NA	Water	8260D	
240-223608-B-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-223608-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 655526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
240-223577-6	MW-74_050125	Total/NA	Water	8260D	
240-223577-7	MW-74S_050125	Total/NA	Water	8260D	
MB 240-655526/9	Method Blank	Total/NA	Water	8260D	
LCS 240-655526/5	Lab Control Sample	Total/NA	Water	8260D	
240-223617-F-6 MS	Matrix Spike	Total/NA	Water	8260D	
240-223617-F-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Eurofins Cleveland

Client: Arcadis US Inc. Job ID: 240-223577-1 Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_57

Lab Sample ID: 240-223577-1 Date Collected: 05/01/25 00:00

Matrix: Water

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** Lab or Analyzed 8260D 05/08/25 18:10 Total/NA Analysis 655251 MS EET CLE

Client Sample ID: MW-72_050125 Lab Sample ID: 240-223577-2

Date Collected: 05/01/25 10:05 **Matrix: Water**

Date Received: 05/03/25 08:00

Date Received: 05/03/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D			655251	MS	EET CLE	05/08/25 19:56
Total/NA	Analysis	8260D SIM		1	655005	R5XG	EET CLE	05/07/25 13:03

Lab Sample ID: 240-223577-3 Client Sample ID: MW-72S_050125

Date Collected: 05/01/25 11:05 **Matrix: Water**

Date Received: 05/03/25 08:00

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** or Analyzed Lab 05/08/25 20:22 Total/NA 8260D MS Analysis 655251 EET CLE EET CLE 05/07/25 13:27 Total/NA Analysis 8260D SIM 655005 R5XG 1

Client Sample ID: MW-73SR 050125 Lab Sample ID: 240-223577-4

Date Collected: 05/01/25 12:05 **Matrix: Water**

Date Received: 05/03/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	655251	MS	EET CLE	05/08/25 20:49
Total/NA	Analysis	8260D SIM		1	655005	R5XG	EET CLE	05/07/25 13:50

Client Sample ID: MW-73D_050125 Lab Sample ID: 240-223577-5

Date Collected: 05/01/25 13:05 **Matrix: Water**

Date Received: 05/03/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	655251	MS	EET CLE	05/08/25 21:15
Total/NA	Analysis	8260D SIM		1	655005	R5XG	EET CLE	05/07/25 14:14

Client Sample ID: MW-74_050125 Lab Sample ID: 240-223577-6

Date Collected: 05/01/25 14:05 **Matrix: Water**

Date Received: 05/03/25 08:00

	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	8260D		1	655526	R5XG	EET CLE	05/11/25 03:29	
Total/NA	Analysis	8260D SIM		1	655005	R5XG	EET CLE	05/07/25 14:37	

Eurofins Cleveland

5/13/2025

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-223577-1

Project/Site: Ford LTP

Client Sample ID: MW-74S_050125

Date Received: 05/03/25 08:00

Lab Sample ID: 240-223577-7 Date Collected: 05/01/25 15:05

Matrix: Water

		Batch	Batch		Dilution	Batch			Prepared
F	Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Ī	otal/NA	Analysis	8260D			655526	R5XG	EET CLE	05/11/25 03:55
1	「otal/NA	Analysis	8260D SIM		1	655005	R5XG	EET CLE	05/07/25 15:00

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: 240-223577-1 Project/Site: Ford LTP

Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	08-31-25
lowa	State	421	06-01-25
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-28-26
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-01-26
North Dakota	State	R-244	02-27-26
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-28-26
Oregon	NELAP	4062	02-27-26
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
US Fish & Wildlife	US Federal Programs	A26406	02-28-26
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

MICHIGAN 190

Chain of Custody Record

4.6/5.1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact	Regula	tory program:		DW	NPDE	S RCRA	Other					
pany Name: Arcadis	Client Project	Manager: Mega	n Meckley		Site Conta	ct: Samantha Szpaicl	ıler	Lab Cont	tact: Mike DelMonico		TestAmerica Laboratories, I COC No:	
ress: 28550 Cabot Drive, Suite 500	Telephone: 248	L-994-2240			Telephone	: 248-994-2240		Telephon	ne: 330-497-9396		-	
/State/Zip: Novi, MI, 48377		l: megan,meckley@arcadis.com				is Turnaround Time			Analyse	1 of 1 COCs For lab use only		
ne: 248-994-2240												
ect Name: Ford LTP	Sampler Name	"Kaylee	Del	a.		ent from below 3 weeks					Walk-in client	
ect Number: 30251157.401.04	Method of Ship	ment/Carrier:	500	,,,,,	10 day	2 weeks1 week	وای			≥	Lab sampling	
US3460023914	Shipping/Track	king No:			-	2 days	(V/N	60D 8260D	260D	S 000 S	Job/SDG No:	
		1	M	latrix	Conta	iners & Preservatives		8260D CE 826	ide 8	e 826		
Sample Identification	Sample Date	Sample Time	Air	Solid Other:	HNO3	NaOH NaOH NaOH Unpres	Filtered Sample (V/N) Composite=C/Grab=G	1,1-DCE 8260D cis-1,2-DCE 8260D Trans-1,2-DCE 826	PCE 8260D TCE 8260D Vinyl Chloride 8260D	1.4-Dioxane 8260D SIM	Sample Specific Notes / Special Instructions:	
FRIP BLANK_ 57			1					x x x			1 Trip Blank	
MW-72_050125	5/1/25	1005	6			,	Wa		1)	X	3 VOAs for 8260D VOAs for 8260D SIM	
MW-725_050125		1105	6			o						
MW-735R_050125		1205	6			0					A COLOR OF THE PROPERTY OF THE	
MW-730_050125		1305	6			9					407233	
MW-74_050125		1405	6			e					°	
MW-745_050125	\\ \\	1505	4			4	77	1 1	1777	7		
		40	5/	1/25								
				<u> </u>								
ssible Hazard Identification					Sample	Disposal (A fue may)	a arrested if s	mples are ret	ained longer than 1 m	onth		
Non-Hazard Tammable Tin	Pelden ROW	on B	Jnknown				Disposal By I		Archive For	Months		
nit all results through Cadena at jtomalia@cader I IV Reporting requested.	naco.com, Cadena #E											
quished by: Myll O.Rot	Company:	dis	Date/Ti	ime:	700		old In	5/4 Je	Company: AV Ca	dබ	Date/Time: 5/1/25 1700	
quished by!	Company:	gradi	Date/T	12/2	5 1515	Received by:	more	2=,	Company:	TA	Date/Time: 5/2/25 15/0	
quidical by Mana	Company:	^	Date/Ti	ime:	1517	Received in Lahor	atory	W-	Company:		Date/Time: 35 80	

VOA Sample Preservation - Date/Time VOAs Frozen
Sample(s) were further preserved in the laboratory Time preserved Preservative(s) added/Lot number(s) were further preserved in the laboratory
20. SAMPLE PRESERVATION
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)
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Dadditional next page Labeled by: MM
 Concerning
 Contacted PM Date by via Verbal Voice Mail Other
 •
 If yes, Questions 13-17 have been checked at the originating laboratory 13 Were all preserved sample(s) at the correct pH upon receipt? 14 Were VOAs on the COC?
 Sufficient quantity received to perform indicated analyses? Are these work share samples and all listed on the COC?
 8 Could all bottle labels (LD/Date/Time) be reconciled with the COC? 9 For each sample, does the COC specify preservatives (YN), # of containers (YN), and sample type of grab/comp(YN)? 10 Were correct bottle(s) used for the test(s) indicated? Yes No
 Did custody papers accompany the sample(s)? Were the custody papers relinquished & signed in the appropriate place? Yes No
 -Were tamper/custody seals on the cooler(s) or pottic kits (LLrig/Meng)? -Were tamper/custody seals intact and uncompromised? -Were tamper/custody seals intact and uncompromised? -Were tamper/custody seals intact and uncompromised? -Wes (No) - Receiving
IR GUN # (CF + C) Observed Cooler Temp
Wrap Foam Plastic Bag Blue Ice Dry Ice Water
Foam Box Chent
UPS FAS Waypoint Chent Drop Off E
10000 7 5
Barberton Facility

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5/3/2025

Temperature readings

Login Container Summary Report

240-223577

5/13/2025

Client Sample ID	<u>Lab ID</u>	Container Type	Container Preservation pH Temp Added	Preservation Preservation Added Lot Number
TRIP BLANK_57	240-223577-A-1	Voa Vial 40ml - Hydrochloric Acid	and the state of t	
MW-72_050125	240-223 <i>577-</i> A-2	Voa Vial 40ml - Hydrochloric Acid		
MW-72_050125	240-223577-B-2	Voa Vial 40ml - Hydrochloric Acid		
MW-72_050125	240-223577-C-2	Voa Vial 40ml - Hydrochloric Acid		
MW-72_050125	240-223577-D-2	Voa Vial 40ml - Hydrochloric Acid		
MW-72_050125	240-223577-E-2	Voa Vial 40ml - Hydrochloric Acıd		
MW-72_050125	240-223577-F-2	Voa Vial 40ml - Hydrochloric Acid		
MW-72S_050125	240-223577-A-3	Voa Vial 40ml - Hydrochloric Acid		
MW-72S_050125	240-223577-B-3	Voa Vial 40ml - Hydrochloric Acid		
MW-72S_050125	240-223577-C-3	Voa Vial 40ml - Hydrochloric Acid	delication of the state of the	
MW-72S_050125	240-223577-D-3	Voa Vial 40ml - Hydrochloric Acıd		
MW-72S_050125	240-223577-E-3	Voa Vial 40ml - Hydrochloric Acid		
MW-72S_050125	240-223577-F-3	Voa Vıal 40ml - Hydrochloric Acid	***************************************	
MW-73SR_050125	240-223577-A-4	Voa Vial 40ml - Hydrochloric Acid		
MW-73SR_050125	240-223577-B-4	Voa Vial 40ml - Hydrochloric Acid	The state of the s	of 28
MW-73SR_050125	240-223577-D-4	Voa Vial 40ml - Hydrochloric Acid	***************************************	e 27
MW-73SR_050125	240-223577-E-4	Voa Vial 40ml - Hydrochloric Acid		Pag
MW-73SR_050125	240-223577-F-4	Voa Vial 40ml - Hydrochloric Acid		
MW-73D_050125	240-223577-A-5	Voa Vial 40ml - Hydrochloric Acid		
MW-73D_050125	240-223577-B-5	Voa Vial 40ml - Hydrochloric Acıd		
MW-73D_050125	240-223577-C-5	Voa Vial 40ml - Hydrochloric Acid		
MW-73D_050125	240-223 <i>577</i> -D-5	Voa Vial 40ml - Hydrochloric Acid	management was a state of the s	West of the second seco
MW-73D_050125	240-223577-E-5	Voa Vial 40ml - Hydrochloric Acid		
MW-73D_050125	240-223577-F-5	Voa Vial 40ml - Hydrochloric Acid		***
MW-74_050125	240-223577-A-6	Voa Vial 40ml - Hydrochloric Acid		
MW-74_050125	240-223577-B-6	Voa Vial 40ml - Hydrochloric Acid	ministration of the second	***
MW-74_050125	240-223577-C-6	Voa Vial 40ml - Hydrochloric Acıd		
MW-74_050125	240-223577-D-6	Voa Vial 40ml - Hydrochloric Acıd		
MW-74_050125	240-223577-E-6	Voa Vial 40ml - Hydrochloric Acid		
MW-74_050125	240-223577-F-6	Voa Vial 40ml - Hydrochloric Acid		
MW-74S_050125	240-223577 A-7	Voa Vial 40ml - Hydrochloric Acid		
MW-74S_050125	240-223 <i>577</i> -B-7	Voa Vial 40ml - Hydrochloric Acid	***************************************	
MW-74S_050125	240-223577-C-7	Voa Vial 40ml - Hydrochloric Acid		
MW-74S_050125	240-223577-D-7	Voa Vial 40ml - Hydrochloric Acid		

ContainerPreservationPreservationpHTempAddedLot Number

5/13/2025

DATA VERIFICATION REPORT



May 13, 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) Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 223577-1 Sample date: 2025-05-01

Report received by CADENA: 2025-05-13

Initial Data Verification completed by CADENA: 2025-05-13

Number of Samples:7 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 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.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

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: 223577-1

		Sample Name: Lab Sample ID: Sample Date:	240223 5/1/202	5771 25			MW-72_ 2402235 5/1/202	5772 5			MW-729 240223 5/1/202	5773 5	5		MW-73S 2402235 5/1/202	- 5774 5	25		MW-73[240223 5/1/202	5775 5			MW-74 240223 5/1/202	5776 5			MW-74S 2402235 5/1/202	- 5777 5	5	
	Analyte	Cas No.	Result	Report Limit		Valid Qualifier		Report Limit	Units	Valid Qualifier		Report Limit	Units	Valid Qualifier		Report Limit	Units	Valid Qualifier		Report Limit		Valid Qualifier		Report Limit		Valid Qualifier		Report Limit	Units C	Valid ualifier
GC/MS VOC																														
OSW-8260	<u>)D</u>																													
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		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		ND	1.0	ug/l		1.9	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		0.94	1.0	ug/l	J
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		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		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		0.83	1.0	ug/l	J	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		3.8	1.0	ug/l		ND	1.0	ug/l	
OSW-8260	DSIM																													
	1,4-Dioxane	123-91-1					ND	2.0	ug/l		ND	2.0	ug/l		ND	2.0	ug/l		2.7	2.0	ug/l		1.9	2.0	ug/l	J	ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-223577-1

CADENA Verification Report: 2025-05-13

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 59436R Review Level: Tier III Project: 30251157.401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-223577-1 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:

Samula ID	LabilD	Maduise	Sample	Doront Comple	Analysis				
Sample ID	Lab ID	Matrix	Collection Date	Parent Sample	VOC	VOC SIM			
TRIP BLANK_57	240-223577-1	Water	05/01/2025		Х				
MW-72_050125	240-223577-2	Water	05/01/2025		Х	Х			
MW-72S_050125	240-223577-3	Water	05/01/2025		Х	Х			
MW-73SR_050125	240-223577-4	Water	05/01/2025		Х	Х			
MW-73D_050125	240-223577-5	Water	05/01/2025		Х	Х			
MW-74_050125	240-223577-6	Water	05/01/2025		Х	Х			
MW-74S_050125	240-223577-7	Water	05/01/2025		Х	Х			

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DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance otable	Not Required		
	No	Yes	No	Yes	Required		
Sample receipt condition		Χ		X			
2. Requested analyses and sample results		Χ		Х			
Master tracking list		Х		Х			
4. Methods of analysis		Х		Х			
5. Reporting limits		Х		Х			
6. Sample collection date		Х		Х			
7. Laboratory sample received date		Х		Х			
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			

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DATA REVIEW

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.

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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.

DATA REVIEW

6. Compound Identification

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

All identified compounds met the specified criteria.

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 REVIEW

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	<u>'</u>				'	
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		
lon 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

DATA REVIEW

VALIDATION PERFORMED BY: Febin J S

SIGNATURE:

DATE: June 2, 2025

PEER REVIEW: Andrew Korycinski

DATE: June 5, 2025

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

MICHIGAN 190

Chain of Custody Record

4.6/5.1

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact	Regula	tory program:		DW	NPD	ES RCRA	Othe	r					
npany Name: Arcadis	Client Project	Manager: Mega	n Meckley		Site Conta	ict: Samantha Szpa	ichler	La	b Conta	et: Mik	e DelM	onico	TestAmerica Laboratorics, COC No:
lress: 28550 Cabot Drive, Suite 500	Telephone: 24	8-994-2240			Telephon	:: 248-994-2240		Te	lephone	: 330-49	7-9396		
/State/Zip: Novi, MI, 48377		.meckley@arcad	ie com	_		sis Turnaround Tin						alyses	 1 of 1 COCs For lab use only
ne: 248-994-2240												1	
ect Name: Ford LTP	Sampler Name	"Kusiee	Del	a.		rent from below 3 weeks	40.0						Walk-in client
ect Number: 30251157.401.04	Method of Ship	pment/Carrier:	<i>5</i> C¢	700	10 day	[I week	و ی					≥	Lab sampling
# US3460023914	Shipping/Trac	king No:			+	2 days	(V/N	5	8260D			260D 30D S	Job/SDG No:
			M	latrix	Cont	ainers & Preservative	- ja 7	8260D	DOE			ide 8.	Contract to the
Sample Identification	Sample Date	Sample Time	Air	Solid Other:	HN03	MCI NaOH Zakel NaOH Unpres	Filtered Sample (Y/N) Composite=C/Grab=G	1,1-DCE 8260D	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D 1,4-Dioxane 8260D SIM	Sample Specific Notes / Special Instructions:
FRIP BLANK_ 57			1			1	NG	XX	_		_	X	1 Trip Blank
MW-72_050125	5/1/25	1005	6			0	Wa			111		X	3 VOAs for 8260D VOAs for 8260D SIM
MW-725_050125		1165	6			6							
MW-735R_056125		1205	6			6							A LOCAL CONTROL OF THE PARTY OF
MW-730_050125		1305	6			(9)							 807233°
MW-74_050125		1405	6			4							V
MW-745_050125	<u> </u>	1505	4			4	1	\downarrow	V V	1	7	77	•
		40	5/	1/25									
											\downarrow		
ssible Hazard Identification					Sample	Disposal (A fee ma	y be assessed if	samples :	are reta	ined lon	ger tha	n 1 month)	
	Belden ROW	on B	Jnknown			leturn to Client	Disposal By	Lab		Archive	For	Months	
nit all results through Cadena at jtomalia@cade I IV Reporting requested.	naco,com, Cadena #I												
quished by: Mryll Okot	Company:	d'a	Date/T 5/1/	ime:	1700		Cold -	toras	ح.	ľ	Compar	readi)	 Date/Time: 5/1/25 1700
quished by!	Company:	Arradi	Date/I	12/2	5 1515	Received by:	Int.	2	-		Compar	ETA	Date/Time: 5/2/25 151
quid to de la company de la co	Company:	-^	Date/T	ime:	1517	Received in Laf	oratory	///			Compa		Date/Time: 35 80

Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-223577-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA	
Qualifier	Qualifier Description

F2 MS/MSD RPD exceeds control limits

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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

Eurofins Cleveland

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Client: Arcadis US Inc. Job ID: 240-223577-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_57

Lab Sample ID: 240-223577-1 Date Collected: 05/01/25 00:00 **Matrix: Water**

Date Received: 05/03/25 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			05/08/25 18:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/08/25 18:10	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/08/25 18:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/08/25 18:10	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/08/25 18:10	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/08/25 18:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137			_		05/08/25 18:10	1
4-Bromofluorobenzene (Surr)	104		56 ₋ 136					05/08/25 18:10	1
Toluene-d8 (Surr)	104		78 - 122					05/08/25 18:10	1
Dibromofluoromethane (Surr)	103		73 - 120					05/08/25 18:10	1

Client: Arcadis US Inc. Job ID: 240-223577-1

Project/Site: Ford LTP

Client Sample ID: MW-72_050125

Date Collected: 05/01/25 10:05 Date Received: 05/03/25 08:00

Dibromofluoromethane (Surr)

Lab Sample ID: 240-223577-2

05/08/25 19:56

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			05/07/25 13:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		68 - 127			-		05/07/25 13:03	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			05/08/25 19:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/08/25 19:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/08/25 19:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/08/25 19:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/08/25 19:56	1
Vinyl chloride	0.83	J	1.0	0.45	ug/L			05/08/25 19:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		05/08/25 19:56	1
4-Bromofluorobenzene (Surr)	96		56 ₋ 136					05/08/25 19:56	1
Toluene-d8 (Surr)	98		78 ₋ 122					05/08/25 19:56	1

73 - 120

Client: Arcadis US Inc. Job ID: 240-223577-1

Project/Site: Ford LTP

Client Sample ID: MW-72S_050125

Lab Sample ID: 240-223577-3 Date Collected: 05/01/25 11:05

Matrix: Water

05/08/25 20:22

05/08/25 20:22

05/08/25 20:22

Date Received: 05/03/25 08:00

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/07/25 13:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		68 - 127			-		05/07/25 13:27	1
- Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/08/25 20:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/08/25 20:22	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/08/25 20:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/08/25 20:22	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/08/25 20:22	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/08/25 20:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		05/08/25 20:22	

56 - 136

78 - 122

73 - 120

97

99

98

Client: Arcadis US Inc. Job ID: 240-223577-1

Project/Site: Ford LTP

Date Received: 05/03/25 08:00

Dibromofluoromethane (Surr)

Client Sample ID: MW-73SR_050125

Lab Sample ID: 240-223577-4 Date Collected: 05/01/25 12:05

100

Matrix: Water

05/08/25 20:49

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/07/25 13:50	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2-Dichloroethane-d4 (Surr)	106		68 - 127			_		05/07/25 13:50	

1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L		05/08/25 20:49	1
cis-1,2-Dichloroethene	1.9		1.0	0.46	ug/L		05/08/25 20:49	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L		05/08/25 20:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L		05/08/25 20:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L		05/08/25 20:49	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L		05/08/25 20:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137				05/08/25 20:49	1
4-Bromofluorobenzene (Surr)	91		56 ₋ 136				05/08/25 20:49	1
Toluene-d8 (Surr)	97		78 ₋ 122				05/08/25 20:49	1

73 - 120

Client: Arcadis US Inc. Job ID: 240-223577-1

Project/Site: Ford LTP

Client Sample ID: MW-73D_050125

Lab Sample ID: 240-223577-5 Date Collected: 05/01/25 13:05

Matrix: Water

Date Received: 05/03/25 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.7		2.0	0.86	ug/L			05/07/25 14:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		68 - 127			_		05/07/25 14:14	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/08/25 21:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/08/25 21:15	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/08/25 21:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/08/25 21:15	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/08/25 21:15	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/08/25 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137			_		05/08/25 21:15	1
4-Bromofluorobenzene (Surr)	89		56 136					05/08/25 21:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137		05/08/25 21:15	1
4-Bromofluorobenzene (Surr)	89		56 ₋ 136		05/08/25 21:15	1
Toluene-d8 (Surr)	95		78 - 122		05/08/25 21:15	1
Dibromofluoromethane (Surr)	99		73 - 120		05/08/25 21:15	1

Client: Arcadis US Inc. Job ID: 240-223577-1

Project/Site: Ford LTP

Client Sample ID: MW-74_050125

Date Collected: 05/01/25 14:05 Date Received: 05/03/25 08:00

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Lab Sample ID: 240-223577-6

05/11/25 03:29

05/11/25 03:29 05/11/25 03:29

05/11/25 03:29

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.9	J	2.0	0.86	ug/L			05/07/25 14:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 127			-		05/07/25 14:37	1
Analyte 1,1-Dichloroethene	Result	Qualifier U	RL		Unit ug/L	D	Prepared	Analyzed 05/11/25 03:29	Dil Fac
Method: SW846 8260D - Volat		•		MDI	l lmi4	Б	Duenesed	Amakanad	Dil Fac
cis-1,2-Dichloroethene	1.0		1.0		ug/L			05/11/25 03:29	1
Tetrachloroethene	1.0		1.0		ug/L			05/11/25 03:29	1
trans-1.2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/11/25 03:29	1
trans-1,2-Dichloroethene					,,			05/44/05 03:00	
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/11/25 03:29	1
,	1.0 3.8	U	1.0 1.0		ug/L ug/L			05/11/25 03:29	1

62 - 137

56 - 136

78 - 122

73 - 120

105

98

104

103

Client: Arcadis US Inc. Job ID: 240-223577-1

Project/Site: Ford LTP

Analyte

Date Received: 05/03/25 08:00

Client Sample ID: MW-74S_050125

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

Result Qualifier

Lab Sample ID: 240-223577-7 Date Collected: 05/01/25 15:05

Matrix: Water

Analyzed

Prepared

Method: SW846 8260D SIM - Vol	atile 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			05/07/25 15:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		68 - 127			_		05/07/25 15:00	1

RL

MDL Unit

1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L		05/11/25 03:55	1
cis-1,2-Dichloroethene	0.94	J	1.0	0.46	ug/L		05/11/25 03:55	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L		05/11/25 03:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L		05/11/25 03:55	1
Trichloroethene	1.0	U	1.0	0.44	ug/L		05/11/25 03:55	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L		05/11/25 03:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137				05/11/25 03:55	1
4-Bromofluorobenzene (Surr)	94		56 ₋ 136				05/11/25 03:55	1
Toluene-d8 (Surr)	97		78 - 122				05/11/25 03:55	1
Dibromofluoromethane (Surr)	99		73 - 120				05/11/25 03:55	1

5/13/2025

Dil Fac