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ANALYTICAL REPORT

PREPARED FOR

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

Generated 9/6/2025 3:43:27 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-231706-1

Eurofins Cleveland
180 S. Van Buren Avenue
Barberton OH 44203

See page two for job notes and contact information.

myEOL

Job Notes

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

Authorization

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

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Definitions/Glossary

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

Job ID: 240-231706-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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

Job Narrative
240-231706-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt
The samples were received on 8/27/2025 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 3.4°C.

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

Method Summary

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

Job ID: 240-231706-1

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

Sample Summary

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

Job ID: 240-231706-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
240-231706-1	TRIP BLANK_135	Water	08/22/25 00:00	08/27/25 08:00	Michigan
240-231706-2	MW-14_082225	Water	08/22/25 10:10	08/27/25 08:00	Michigan
240-231706-3	MW-09_082225	Water	08/22/25 11:15	08/27/25 08:00	Michigan
240-231706-4	MW-24_082225	Water	08/22/25 12:30	08/27/25 08:00	Michigan

Detection Summary

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

Job ID: 240-231706-1

Client Sample ID: TRIP BLANK_135 — Lab Sample ID: 240-231706-1

No Detections.

Client Sample ID: MW-14_082225 — Lab Sample ID: 240-231706-2

No Detections.

Client Sample ID: MW-09_082225 — Lab Sample ID: 240-231706-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.7		2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	1.7		1.0	0.45	ug/L	1		8260D	Total/NA

Client Sample ID: MW-24_082225 — Lab Sample ID: 240-231706-4

No Detections.

This Detection Summary does not include radiochemical test results.

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

Job ID: 240-231706-1

Client Sample ID: TRIP BLANK_135
Date Collected: 08/22/25 00:00
Date Received: 08/27/25 08:00

Lab Sample ID: 240-231706-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/29/25 23:51	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/29/25 23:51	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/29/25 23:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/29/25 23:51	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/29/25 23:51	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/29/25 23:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*103*		*62 - 137*		*08/29/25 23:51*	*1*
4-Bromofluorobenzene (Surr)	*74*		*56 - 136*		*08/29/25 23:51*	*1*
Toluene-d8 (Surr)	*84*		*78 - 122*		*08/29/25 23:51*	*1*
Dibromofluoromethane (Surr)	*104*		*73 - 120*		*08/29/25 23:51*	*1*

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

Job ID: 240-231706-1

Client Sample ID: MW-14_082225
Date Collected: 08/22/25 10:10
Date Received: 08/27/25 08:00

Lab Sample ID: 240-231706-2
Matrix: Water

Method: SW846 8260D SIM - Volatile Organic Compounds (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			09/04/25 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*68 - 127*		*09/04/25 16:30*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/30/25 02:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/30/25 02:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/30/25 02:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/30/25 02:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/30/25 02:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/30/25 02:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*62 - 137*		*08/30/25 02:13*	*1*
4-Bromofluorobenzene (Surr)	*76*		*56 - 136*		*08/30/25 02:13*	*1*
Toluene-d8 (Surr)	*85*		*78 - 122*		*08/30/25 02:13*	*1*
Dibromofluoromethane (Surr)	*103*		*73 - 120*		*08/30/25 02:13*	*1*

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

Job ID: 240-231706-1

Client Sample ID: MW-09_082225

Date Collected: 08/22/25 11:15
Date Received: 08/27/25 08:00

Lab Sample ID: 240-231706-3

Matrix: Water

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	**2.7**		2.0	0.86	ug/L			09/04/25 16:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*85*		*68 - 127*		*09/04/25 16:52*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/30/25 02:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/30/25 02:37	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/30/25 02:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/30/25 02:37	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/30/25 02:37	1
Vinyl chloride	**1.7**		1.0	0.45	ug/L			08/30/25 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*62 - 137*		*08/30/25 02:37*	*1*
4-Bromofluorobenzene (Surr)	*73*		*56 - 136*		*08/30/25 02:37*	*1*
Toluene-d8 (Surr)	*81*		*78 - 122*		*08/30/25 02:37*	*1*
Dibromofluoromethane (Surr)	*99*		*73 - 120*		*08/30/25 02:37*	*1*

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

Job ID: 240-231706-1

Client Sample ID: MW-24_082225
Date Collected: 08/22/25 12:30
Date Received: 08/27/25 08:00

Lab Sample ID: 240-231706-4
Matrix: Water

Method: SW846 8260D SIM - Volatile Organic Compounds (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			09/04/25 11:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*68 - 127*		*09/04/25 11:22*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/30/25 03:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/30/25 03:00	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/30/25 03:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/30/25 03:00	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/30/25 03:00	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/30/25 03:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*104*		*62 - 137*		*08/30/25 03:00*	*1*
4-Bromofluorobenzene (Surr)	*75*		*56 - 136*		*08/30/25 03:00*	*1*
Toluene-d8 (Surr)	*84*		*78 - 122*		*08/30/25 03:00*	*1*
Dibromofluoromethane (Surr)	*105*		*73 - 120*		*08/30/25 03:00*	*1*

Surrogate Summary

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

Job ID: 240-231706-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-231706-1	TRIP BLANK_135	103	74	84	104
240-231706-2	MW-14_082225	102	76	85	103
240-231706-2 MS	MW-14-MS_082225	86	86	88	88
240-231706-2 MSD	MW-14-MSD_082225	87	87	89	89
240-231706-3	MW-09_082225	98	73	81	99
240-231706-4	MW-24_082225	104	75	84	105
LCS 240-669901/3	Lab Control Sample	91	91	94	90
MB 240-669901/7	Method Blank	101	74	83	103

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		DCA
Lab Sample ID	Client Sample ID	(68-127)
240-231556-B-4 MSD	Matrix Spike Duplicate	102
240-231556-E-4 MS	Matrix Spike	101
240-231706-2	MW-14_082225	95
240-231706-2 MS	MW-14-MS_082225	95
240-231706-2 MSD	MW-14-MSD_082225	95
240-231706-3	MW-09_082225	85
240-231706-4	MW-24_082225	100
LCS 240-670407/5	Lab Control Sample	100
LCS 240-670486/5	Lab Control Sample	83
MB 240-670407/7	Method Blank	109
MB 240-670486/7	Method Blank	90

Surrogate Legend

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

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

Lab Sample ID: MB 240-669901/7
Matrix: Water
Analysis Batch: 669901

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/29/25 23:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/29/25 23:04	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/29/25 23:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/29/25 23:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/29/25 23:04	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/29/25 23:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*62 - 137*		*08/29/25 23:04*	*1*
4-Bromofluorobenzene (Surr)	*74*		*56 - 136*		*08/29/25 23:04*	*1*
Toluene-d8 (Surr)	*83*		*78 - 122*		*08/29/25 23:04*	*1*
Dibromofluoromethane (Surr)	*103*		*73 - 120*		*08/29/25 23:04*	*1*

Lab Sample ID: LCS 240-669901/3
Matrix: Water
Analysis Batch: 669901

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene			25.0	25.6		ug/L		102	63 - 134		
cis-1,2-Dichloroethene			25.0	22.5		ug/L		90	77 - 123		
Tetrachloroethene			25.0	22.9		ug/L		91	76 - 123		
trans-1,2-Dichloroethene			25.0	22.5		ug/L		90	75 - 124		
Trichloroethene			25.0	21.3		ug/L		85	70 - 122		
Vinyl chloride			25.0	22.7		ug/L		91	60 - 144		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*62 - 137*
4-Bromofluorobenzene (Surr)	*91*		*56 - 136*
Toluene-d8 (Surr)	*94*		*78 - 122*
Dibromofluoromethane (Surr)	*90*		*73 - 120*

Lab Sample ID: 240-231706-2 MS
Matrix: Water
Analysis Batch: 669901

Client Sample ID: MW-14-MS_082225
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
1,1-Dichloroethene	1.0	U	25.0	27.8		ug/L		111	56 - 135		
cis-1,2-Dichloroethene	1.0	U	25.0	23.1		ug/L		93	66 - 128		
Tetrachloroethene	1.0	U	25.0	21.5		ug/L		86	62 - 131		
trans-1,2-Dichloroethene	1.0	U	25.0	22.7		ug/L		91	56 - 136		
Trichloroethene	1.0	U	25.0	21.7		ug/L		87	61 - 124		
Vinyl chloride	1.0	U	25.0	23.1		ug/L		92	43 - 157		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*86*		*62 - 137*
4-Bromofluorobenzene (Surr)	*86*		*56 - 136*
Toluene-d8 (Surr)	*88*		*78 - 122*

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

Lab Sample ID: 240-231706-2 MS
Matrix: Water
Analysis Batch: 669901

Client Sample ID: MW-14-MS_082225
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	*88*		*73 - 120*

Lab Sample ID: 240-231706-2 MSD
Matrix: Water
Analysis Batch: 669901

Client Sample ID: MW-14-MSD_082225
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	1.0	U	25.0	29.2		ug/L		117	56 - 135	5	26
cis-1,2-Dichloroethene	1.0	U	25.0	23.8		ug/L		95	66 - 128	3	14
Tetrachloroethene	1.0	U	25.0	23.6		ug/L		94	62 - 131	9	20
trans-1,2-Dichloroethene	1.0	U	25.0	23.7		ug/L		95	56 - 136	4	15
Trichloroethene	1.0	U	25.0	22.9		ug/L		91	61 - 124	5	15
Vinyl chloride	1.0	U	25.0	23.4		ug/L		94	43 - 157	2	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*87*		*62 - 137*
4-Bromofluorobenzene (Surr)	*87*		*56 - 136*
Toluene-d8 (Surr)	*89*		*78 - 122*
Dibromofluoromethane (Surr)	*89*		*73 - 120*

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

Lab Sample ID: MB 240-670407/7
Matrix: Water
Analysis Batch: 670407

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			09/04/25 10:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*109*		*68 - 127*		*09/04/25 10:58*	*1*

Lab Sample ID: LCS 240-670407/5
Matrix: Water
Analysis Batch: 670407

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
1,4-Dioxane			10.0	9.32		ug/L		93	75 - 121		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*100*		*68 - 127*

Lab Sample ID: 240-231556-B-4 MSD
Matrix: Water
Analysis Batch: 670407

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2.0	U	10.0	9.15		ug/L		92	20 - 180	1	20

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

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

Lab Sample ID: 240-231556-E-4 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 670407

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.0	U	10.0	9.10		ug/L		91	20 - 180

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

Lab Sample ID: MB 240-670486/7 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 670486

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			09/04/25 13:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		68 - 127		09/04/25 13:39	1

Lab Sample ID: LCS 240-670486/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 670486

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane			10.0	7.61		ug/L		76	75 - 121

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		68 - 127

Lab Sample ID: 240-231706-2 MS — **Client Sample ID: MW-14-MS_082225**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 670486

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.0	U	10.0	8.21		ug/L		82	20 - 180

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

Lab Sample ID: 240-231706-2 MSD — **Client Sample ID: MW-14-MSD_082225**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 670486

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2.0	U	10.0	8.01		ug/L		80	20 - 180	2	20

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

Lab Sample ID: 240-231706-2 MSD
Matrix: Water
Analysis Batch: 670486

Client Sample ID: MW-14-MSD_082225
Prep Type: Total/NA

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

GC/MS VOA

Analysis Batch: 669901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-231706-1	TRIP BLANK_135	Total/NA	Water	8260D	
240-231706-2	MW-14_082225	Total/NA	Water	8260D	
240-231706-3	MW-09_082225	Total/NA	Water	8260D	
240-231706-4	MW-24_082225	Total/NA	Water	8260D	
MB 240-669901/7	Method Blank	Total/NA	Water	8260D	
LCS 240-669901/3	Lab Control Sample	Total/NA	Water	8260D	
240-231706-2 MS	MW-14-MS_082225	Total/NA	Water	8260D	
240-231706-2 MSD	MW-14-MSD_082225	Total/NA	Water	8260D	

Analysis Batch: 670407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-231706-4	MW-24_082225	Total/NA	Water	8260D SIM	
MB 240-670407/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-670407/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-231556-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	
240-231556-E-4 MS	Matrix Spike	Total/NA	Water	8260D SIM	

Analysis Batch: 670486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-231706-2	MW-14_082225	Total/NA	Water	8260D SIM	
240-231706-3	MW-09_082225	Total/NA	Water	8260D SIM	
MB 240-670486/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-670486/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-231706-2 MS	MW-14-MS_082225	Total/NA	Water	8260D SIM	
240-231706-2 MSD	MW-14-MSD_082225	Total/NA	Water	8260D SIM	

Lab Chronicle

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

Job ID: 240-231706-1

Client Sample ID: TRIP BLANK_135

Lab Sample ID: 240-231706-1
Matrix: Water
Date Collected: 08/22/25 00:00
Date Received: 08/27/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	669901	R5XG	EET CLE	08/29/25 23:51

Client Sample ID: MW-14_082225

Lab Sample ID: 240-231706-2
Matrix: Water
Date Collected: 08/22/25 10:10
Date Received: 08/27/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	669901	R5XG	EET CLE	08/30/25 02:13
Total/NA	Analysis	8260D SIM		1	670486	R5XG	EET CLE	09/04/25 16:30

Client Sample ID: MW-09_082225

Lab Sample ID: 240-231706-3
Matrix: Water
Date Collected: 08/22/25 11:15
Date Received: 08/27/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	669901	R5XG	EET CLE	08/30/25 02:37
Total/NA	Analysis	8260D SIM		1	670486	R5XG	EET CLE	09/04/25 16:52

Client Sample ID: MW-24_082225

Lab Sample ID: 240-231706-4
Matrix: Water
Date Collected: 08/22/25 12:30
Date Received: 08/27/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	669901	R5XG	EET CLE	08/30/25 03:00
Total/NA	Analysis	8260D SIM		1	670407	R5XG	EET CLE	09/04/25 11:22

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: 240-231706-1

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
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	08-31-26
Iowa	State	421	06-01-27
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	06-30-26
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	08-31-26
Texas	NELAP	T104704517	08-31-26
US Fish & Wildlife	US Federal Programs	A26406	02-28-26
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-15-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-26

MICHIGAN 190

Chain of Custody Record

3/5

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other

TestAmerica Laboratories, Inc.

Client Contact	Client Project Manager: Megan Meckley	Site Contact: Samantha Szpaichler	Lab Contact: Mike DelMonico	COC No:
Company Name: Arcadis				
Address: 28550 Cabot Drive, Suite 500	Telephone: 248-994-2240	Telephone: 248-994-2240	Telephone: 330-497-9396	1 of 1 COCs
City/State/Zip: Novi, MI, 48377	Email: megan.meckley@arcadis.com	Analysis Turnaround Time		For lab use only
Phone: 248-994-2240	Sampler Name: Maryam Hanani	TAT if different from below: ☐ 3 weeks ☑ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day; 10 day		Walk-in client: Lab sampling:
Project Name: Ford LTP	Method of Shipment/Carrier:			
Project Number: 30251157.401.04	Shipping/Tracking No:			Job/SDG No:
PO # US3460025888				

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite-C / Grab-G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM	Sample Specific Notes / Special Instructions:
TRIP BLANK_135	-----	---		1						1					N	G	X	X	X	X	X	X		1 Trip Blank
MW-14_082225	8/22/25	1010		6						6					N	G	X	X	X	X	X	X	X	3 VOAs for 8260D; 3 VOAs for 8260D SIM
MW-14-MS_082225	8/22/25	1010		6						6					N	G	X	X	X	X	X	X	X	Run MS/MSD
MW-14-MSD_082225	8/22/25	1010		6						6					N	G	X	X	X	X	X	X	X	Run MS/MSD
MW-09_082225	8/22/25	1115		6						6					N	G	X	X	X	X	X	X	X	
MW-24_082225	8/22/25	1230		6						6					N	G	X	X	X	X	X	X	X	

240-231706 COC

Possible Hazard Identification: ☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return to Client ☑ Disposal By Lab ☐ Archive For ☐ Months

Special Instructions/QC Requirements & Comments: Onsite

Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728
Level IV Reporting requested.

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Maryam Hanani	Arcadis	8/22/25 1425	Non Cold Storage	Arcadis	8/22/25 1425
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	ARCADIS	8/25/25 1241		EETA	8/25/25 1242
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
	EETA	8/25/25 1243	Martin	EUR	8/27/25 800

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Eurofins – Cleveland Sample Receipt Form/Narrative Login # _____
Barberton Facility

Client Arcadis Site Name _____ Cooler unpacked by: KMartin

Cooler Received on 8/27/25 Opened on 8/27/25

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other _____

Receipt After-hours Drop-off Date/Time _____ Storage Location _____

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used. Bubble Wrap Foam Plastic Bag None Other _____

COOLANT Wet Ice Blue Ice Dry Ice Water None

1 Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 13 (CF +0.2 °C) Observed Cooler Temp. 3.2 °C Corrected Cooler Temp 3.4 °C

2	Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes No
	-Were the seals on the outside of the cooler(s) signed & dated?	Yes No NA
	-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes No
	-Were tamper/custody seals intact and uncompromised?	Yes No NA
3	Shippers' packing slip attached to the cooler(s)?	Yes No
4	Did custody papers accompany the sample(s)?	Yes No
5	Were the custody papers relinquished & signed in the appropriate place?	Yes No
6	Was/were the person(s) who collected the samples clearly identified on the COC?	Yes No
7	Did all bottles arrive in good condition (Unbroken)?	Yes No
8	Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes No
9	For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?	
10	Were correct bottle(s) used for the test(s) indicated?	Yes No
11	Sufficient quantity received to perform indicated analyses?	Yes No
12	Are these work share samples and all listed on the COC?	Yes No
	If yes, Questions 13-17 have been checked at the originating laboratory	
13	Were all preserved sample(s) at the correct pH upon receipt?	Yes No NA pH Strip Lot# HC463162
14	Were VOAs on the COC?	Yes No
15	Were air bubbles >6 mm in any VOA vials? ● ← Larger than this.	Yes No NA
16	Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # N/A	Yes No
17	Was a LL Hg or Me Hg trip blank present? _____	Yes No

Tests that are not checked for pH by Receiving.

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page | Labeled by:
Labels Verified by

_____

_____

_____

_____

19 SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container

Sample(s) _____ were received with bubble >6 mm in diameter (Notify PM)

20 SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory

Time preserved. _____ Preservative(s) added/Lot number(s) _____

VOA Sample Preservation - Date/Time VOAs Frozen _____

8/27/2025

Login Container Summary Report

240-231706

9/6/2025

Temperature readings _____

Client Sample ID	Lab ID	Container Type	Container pH	Container Temp	Preservation Added	Preservation Lot Number
TRIP BLANK_135	240-231706-A-1	Voa Vial 40ml - Hydrochloric Acid				
MW 14_082225	240-231706 A 2	Voa Vial 40ml - Hydrochloric Acid				
MW-14-MS_082225	240-231706-A-2 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-14 MSD_082225	240-231706-A-2 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-14_082225	240-231706-B-2	Voa Vial 40ml - Hydrochloric Acid				
MW-14 MS_082225	240-231706-B-2 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-14-MSD_082225	240-231706-B-2 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-14_082225	240-231706-C-2	Voa Vial 40ml - Hydrochloric Acid				
MW-14-MS 082225	240-231706-C-2 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-14 MSD_082225	240-231706-C-2 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-14_082225	240-231706-D-2	Voa Vial 40ml - Hydrochloric Acid				
MW-14-MS 082225	240-231706-D-2 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-14-MSD_082225	240-231706-D-2 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-14 082225	240-231706-E-2	Voa Vial 40ml - Hydrochloric Acid				
MW-14 MS_082225	240-231706-E-2 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-14-MSD 082225	240-231706-E-2 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-14_082225	240-231706-F-2	Voa Vial 40ml Hydrochloric Acid				
MW-14-MS_082225	240-231706-F 2 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-14-MSD_082225	240-231706-F-2 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-09 082225	240-231706 A 3	Voa Vial 40ml - Hydrochloric Acid				
MW-09_082225	240-231706-B-3	Voa Vial 40ml - Hydrochloric Acid				
MW-09 082225	240 231706-C-3	Voa Vial 40ml - Hydrochloric Acid				
MW-09_082225	240-231706-D-3	Voa Vial 40ml - Hydrochloric Acid				
MW-09_082225	240-231706-E-3	Voa Vial 40ml - Hydrochloric Acid				
MW-09_082225	240-231706-F-3	Voa Vial 40ml - Hydrochloric Acid				
MW-24_082225	240-231706-A-4	Voa Vial 40ml - Hydrochloric Acid				
MW-24_082225	240-231706-B-4	Voa Vial 40ml - Hydrochloric Acid				
MW-24 082225	240-231706-C-4	Voa Vial 40ml - Hydrochloric Acid				
MW 24_082225	240-231706-D-4	Voa Vial 40ml - Hydrochloric Acid				
MW-24 082225	240 231706-E-4	Voa Vial 40ml - Hydrochloric Acid				
MW-24_082225	240-231706-F-4	Voa Vial 40ml Hydrochloric Acid				

Client Sample ID	Lab ID	Container Type	Container pH	Container Temp	Preservation Added	Preservation Lot Number

DATA VERIFICATION REPORT

September 06, 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 LTP
Event Specific Scope of Work References: Sample COC
Laboratory: Eurofins Environment Testing LLC - Cleveland
Laboratory submittal: 231706-1
Sample date: 2025-08-22
Report received by CADENA: 2025-09-06
Initial Data Verification completed by CADENA: 2025-09-06
Number of Samples:4
Sample Matrices:Water
Test Categories:GCMS VOC
Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
B	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.
E	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: 231706-1

		Sample Name:	TRIP BLANK_135				MW-14_082225				MW-09_082225				MW-24_082225			
		Lab Sample ID:	2402317061				2402317062				2402317063				2402317064			
		Sample Date:	8/22/2025				8/22/2025				8/22/2025				8/22/2025			
Analyte	Cas No.		Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
GC/MS VOC																		
OSW-8260D																		
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	---
cis-1,2-Dichloroethene	156-59-2		ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Tetrachloroethene	127-18-4		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	---
Trichloroethene	79-01-6		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	---	ND	1.0	ug/l	---	1.7	1.0	ug/l	---	ND	1.0	ug/l	---
OSW-8260DSIM																		
1,4-Dioxane	123-91-1						ND	2.0	ug/l	---	2.7	2.0	ug/l	---	ND	2.0	ug/l	---