

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-238062-1

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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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Definitions/Glossary

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

Job ID: 240-238062-1

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

Case Narrative

Client: Arcadis US Inc.
Project: Ford LTP

Job ID: 240-238062-1

Job ID: 240-238062-1

Eurofins Cleveland

Job Narrative 240-238062-1

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 11/19/2025 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 0.8°C.

GC/MS VOA

Method 8260D: Sample (240-237730-A-4), (240-237730-A-4 MS) and (240-237730-A-4 MSD) had to be re-run multiple times because of (sample matrix problems / instrument problems), and this consumed a large amount of sample. Therefore, it was necessary to use the vial opened for preservation confirmation for the final analysis

Method 8260D: The method requirement for no headspace was not met. The container (s) used for reanalysis of the following samples contained headspace: (240-237730-A-4), (240-237730-A-4 MS) and (240-237730-A-4 MSD). The sample container was received with headspace.

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

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Method Summary

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

Job ID: 240-238062-1

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: 240-238062-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
240-238062-1	TRIP BLANK_93	Water	11/14/25 00:00	11/19/25 08:00	Michigan
240-238062-2	MW-212S_111425	Water	11/14/25 12:40	11/19/25 08:00	Michigan

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

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

Job ID: 240-238062-1

Client Sample ID: TRIP BLANK_93 Lab Sample ID: 240-238062-1

No Detections.

Client Sample ID: MW-212S_111425 Lab Sample ID: 240-238062-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.7		1.0	0.46	ug/L	1		8260D	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 240-238062-1

Client Sample ID: TRIP BLANK_93

Lab Sample ID: 240-238062-1

Date Collected: 11/14/25 00:00

Matrix: Water

Date Received: 11/19/25 08:00

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			11/21/25 18:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/25 18:07	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 18:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/25 18:07	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 18:07	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/21/25 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137		11/21/25 18:07	1
4-Bromofluorobenzene (Surr)	96		56 - 136		11/21/25 18:07	1
Toluene-d8 (Surr)	90		78 - 122		11/21/25 18:07	1
Dibromofluoromethane (Surr)	88		73 - 120		11/21/25 18:07	1

Client Sample Results

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

Job ID: 240-238062-1

Client Sample ID: MW-212S_111425

Lab Sample ID: 240-238062-2

Date Collected: 11/14/25 12:40

Matrix: Water

Date Received: 11/19/25 08:00

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			11/24/25 15:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 136					11/24/25 15:08	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			11/22/25 14:38	1
cis-1,2-Dichloroethene	1.7		1.0	0.46	ug/L			11/22/25 14:38	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/22/25 14:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/22/25 14:38	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/22/25 14:38	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/22/25 14:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137					11/22/25 14:38	1
4-Bromofluorobenzene (Surr)	105		56 - 136					11/22/25 14:38	1
Toluene-d8 (Surr)	102		78 - 122					11/22/25 14:38	1
Dibromofluoromethane (Surr)	108		73 - 120					11/22/25 14:38	1

Surrogate Summary

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

Job ID: 240-238062-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (62-137)	BFB (56-136)	TOL (78-122)	DBFM (73-120)
240-237730-A-4 MS	Matrix Spike	97	108	105	102
240-237730-A-4 MSD	Matrix Spike Duplicate	97	108	103	103
240-237961-B-30 MS	Matrix Spike	89	100	90	87
240-237961-B-30 MSD	Matrix Spike Duplicate	94	104	92	92
240-238062-1	TRIP BLANK_93	95	96	90	88
240-238062-2	MW-212S_111425	101	105	102	108
LCS 240-681562/4	Lab Control Sample	87	99	90	91
LCS 240-681710/5	Lab Control Sample	93	104	102	102
MB 240-681562/8	Method Blank	93	95	89	88
MB 240-681710/10	Method Blank	102	104	102	106
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)			
Lab Sample ID	Client Sample ID	DCA (64-136)			
240-238062-2	MW-212S_111425	104			
240-238067-E-4 MS	Matrix Spike	110			
240-238067-E-4 MSD	Matrix Spike Duplicate	109			
LCS 240-681852/5	Lab Control Sample	96			
MB 240-681852/7	Method Blank	96			
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					

QC Sample Results

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

Job ID: 240-238062-1

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

Lab Sample ID: MB 240-681562/8

Matrix: Water

Analysis Batch: 681562

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			11/21/25 11:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/25 11:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 11:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/25 11:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 11:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/21/25 11:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		62 - 137		11/21/25 11:58	1
4-Bromofluorobenzene (Surr)	95		56 - 136		11/21/25 11:58	1
Toluene-d8 (Surr)	89		78 - 122		11/21/25 11:58	1
Dibromofluoromethane (Surr)	88		73 - 120		11/21/25 11:58	1

Lab Sample ID: LCS 240-681562/4

Matrix: Water

Analysis Batch: 681562

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	23.6		ug/L		94	63 - 134
cis-1,2-Dichloroethene	25.0	22.9		ug/L		92	77 - 123
Tetrachloroethene	25.0	22.9		ug/L		92	76 - 123
trans-1,2-Dichloroethene	25.0	21.6		ug/L		86	75 - 124
Trichloroethene	25.0	24.5		ug/L		98	70 - 122
Vinyl chloride	12.5	10.2		ug/L		82	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	90		78 - 122
Dibromofluoromethane (Surr)	91		73 - 120

Lab Sample ID: 240-237961-B-30 MS

Matrix: Water

Analysis Batch: 681562

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	500	U	12500	9860		ug/L		79	56 - 135
cis-1,2-Dichloroethene	6500		12500	17800		ug/L		90	66 - 128
Tetrachloroethene	1700		12500	11100		ug/L		75	62 - 131
trans-1,2-Dichloroethene	500	U	12500	10400		ug/L		83	56 - 136
Trichloroethene	1600		12500	12500		ug/L		87	61 - 124
Vinyl chloride	770		6250	5460		ug/L		75	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	90		78 - 122

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QC Sample Results

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

Job ID: 240-238062-1

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

Lab Sample ID: 240-237961-B-30 MS

Matrix: Water

Analysis Batch: 681562

Client Sample ID: Matrix Spike

Prep Type: Total/NA

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	87		73 - 120

Lab Sample ID: 240-237961-B-30 MSD

Matrix: Water

Analysis Batch: 681562

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
1,1-Dichloroethene	500	U	12500	11500		ug/L		92	56 - 135	15	26
cis-1,2-Dichloroethene	6500		12500	18500		ug/L		96	66 - 128	4	14
Tetrachloroethene	1700		12500	11500		ug/L		79	62 - 131	4	20
trans-1,2-Dichloroethene	500	U	12500	11100		ug/L		89	56 - 136	6	15
Trichloroethene	1600		12500	13200		ug/L		93	61 - 124	5	15
Vinyl chloride	770		6250	5320		ug/L		73	43 - 157	3	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	104		56 - 136
Toluene-d8 (Surr)	92		78 - 122
Dibromofluoromethane (Surr)	92		73 - 120

Lab Sample ID: MB 240-681710/10

Matrix: Water

Analysis Batch: 681710

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			11/22/25 11:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/22/25 11:54	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/22/25 11:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/22/25 11:54	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/22/25 11:54	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/22/25 11:54	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137		11/22/25 11:54	1
4-Bromofluorobenzene (Surr)	104		56 - 136		11/22/25 11:54	1
Toluene-d8 (Surr)	102		78 - 122		11/22/25 11:54	1
Dibromofluoromethane (Surr)	106		73 - 120		11/22/25 11:54	1

Lab Sample ID: LCS 240-681710/5

Matrix: Water

Analysis Batch: 681710

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	27.8		ug/L		111	63 - 134
cis-1,2-Dichloroethene	25.0	25.4		ug/L		102	77 - 123
Tetrachloroethene	25.0	23.6		ug/L		94	76 - 123
trans-1,2-Dichloroethene	25.0	26.5		ug/L		106	75 - 124
Trichloroethene	25.0	24.7		ug/L		99	70 - 122

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QC Sample Results

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

Job ID: 240-238062-1

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

Lab Sample ID: LCS 240-681710/5

Matrix: Water

Analysis Batch: 681710

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	25.0	26.3		ug/L		105	60 - 144

	LCS %Recovery	LCS Qualifier	Limits
Surrogate			
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	104		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

Lab Sample ID: 240-237730-A-4 MS

Matrix: Water

Analysis Batch: 681710

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	68		125	204		ug/L		109	56 - 135
cis-1,2-Dichloroethene	5.0	U	125	129		ug/L		103	66 - 128
Tetrachloroethene	10		125	130		ug/L		96	62 - 131
trans-1,2-Dichloroethene	5.0	U	125	133		ug/L		107	56 - 136
Trichloroethene	6.3		125	129		ug/L		98	61 - 124
Vinyl chloride	5.0	U	125	138		ug/L		110	43 - 157

	MS %Recovery	MS Qualifier	Limits
Surrogate			
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	108		56 - 136
Toluene-d8 (Surr)	105		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

Lab Sample ID: 240-237730-A-4 MSD

Matrix: Water

Analysis Batch: 681710

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
1,1-Dichloroethene	68		125	198		ug/L		104	56 - 135	3	26
cis-1,2-Dichloroethene	5.0	U	125	128		ug/L		103	66 - 128	0	14
Tetrachloroethene	10		125	121		ug/L		88	62 - 131	8	20
trans-1,2-Dichloroethene	5.0	U	125	131		ug/L		105	56 - 136	2	15
Trichloroethene	6.3		125	124		ug/L		94	61 - 124	4	15
Vinyl chloride	5.0	U	125	138		ug/L		110	43 - 157	0	24

	MSD %Recovery	MSD Qualifier	Limits
Surrogate			
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	108		56 - 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	103		73 - 120

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QC Sample Results

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

Job ID: 240-238062-1

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

Lab Sample ID: MB 240-681852/7

Matrix: Water

Analysis Batch: 681852

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			11/24/25 12:00	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		64 - 136					11/24/25 12:00	1

Lab Sample ID: LCS 240-681852/5

Matrix: Water

Analysis Batch: 681852

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	8.30		ug/L		83	68 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	96		64 - 136						

Lab Sample ID: 240-238067-E-4 MS

Matrix: Water

Analysis Batch: 681852

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.0	U	10.0	8.51		ug/L		85	45 - 145
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	110		64 - 136						

Lab Sample ID: 240-238067-E-4 MSD

Matrix: Water

Analysis Batch: 681852

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	8.67		ug/L		87	45 - 145	2	19
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	109		64 - 136								

QC Association Summary

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

Job ID: 240-238062-1

GC/MS VOA

Analysis Batch: 681562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-238062-1	TRIP BLANK_93	Total/NA	Water	8260D	
MB 240-681562/8	Method Blank	Total/NA	Water	8260D	
LCS 240-681562/4	Lab Control Sample	Total/NA	Water	8260D	
240-237961-B-30 MS	Matrix Spike	Total/NA	Water	8260D	
240-237961-B-30 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 681710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-238062-2	MW-212S_111425	Total/NA	Water	8260D	
MB 240-681710/10	Method Blank	Total/NA	Water	8260D	
LCS 240-681710/5	Lab Control Sample	Total/NA	Water	8260D	
240-237730-A-4 MS	Matrix Spike	Total/NA	Water	8260D	
240-237730-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 681852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-238062-2	MW-212S_111425	Total/NA	Water	8260D SIM	
MB 240-681852/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-681852/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-238067-E-4 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-238067-E-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Lab Chronicle

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

Job ID: 240-238062-1

Client Sample ID: TRIP BLANK_93
Date Collected: 11/14/25 00:00
Date Received: 11/19/25 08:00

Lab Sample ID: 240-238062-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681562	LEE	EET CLE	11/21/25 18:07

Client Sample ID: MW-212S_111425
Date Collected: 11/14/25 12:40
Date Received: 11/19/25 08:00

Lab Sample ID: 240-238062-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681710	MS	EET CLE	11/22/25 14:38
Total/NA	Analysis	8260D SIM		1	681852	R5XG	EET CLE	11/24/25 15:08

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: 240-238062-1

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	09-30-26
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	2250	09-30-26
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	02-27-26
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	09-30-26
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-26

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

[illegible]

Eurofins - Cleveland Sample Receipt Form/Narrative		Login # _____	
Barberton Facility			
Client <u>Aradis</u>	Site Name _____	Cooler unpacked by: <u>Marfin</u>	
Cooler Received on <u>11/19/25</u>	Opened on <u>11/19/25</u>		
FedEx 1 st Grd Exp <u>UPS</u> <u>PAS</u> <u>Wagon</u> Point	Client Drop Off	Eurofins Courier	Other _____
Receipt After-hours Drop-off Date/Time _____		Storage Location _____	
Eurofins Cooler # <u>EC</u>	Foam Box _____	Client Cooler _____	Box _____ Other _____
Packing material used. Bubble Wrap _____ Foam _____ Plastic Bag _____ None _____			
COOLANT <u>W/ice</u>	Blue Ice _____	Dry Ice _____	Water _____ None _____
Cooler temperature upon receipt ☐ See Multiple Cooler Form			
1	IR GUN # <u>13</u>	(CF <u>40.6</u> °C)	Observed Cooler Temp <u>0.2</u> °C Corrected Cooler Temp <u>0.8</u> °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u> ☒ 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 ☐ NA			
-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 <u>(NN)</u> , # of containers <u>(NN)</u> , and sample type of grab/comp <u>(NN)</u> ? ☒ Yes ☐ No		
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# HC567196		
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 # <u>NA</u> ☒ Yes ☐ No		
17	Was a LL Hg or Me Hg trip blank present? ☒ Yes ☐ No		
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. _____			

Temperature readings. _____

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservation</u> <u>Temp</u>	<u>Preservation</u> <u>Added</u>	<u>Preservation</u> <u>Lot Number</u>
TRIP BLANK_93	240-238062-A-1	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-212S_111425	240-238062-A-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-212S_111425	240-238062-B-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-212S_111425	240-238062-C-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-212S_111425	240-238062-D-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-212S_111425	240-238062-E-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-212S_111425	240-238062-F-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____

DATA VERIFICATION REPORT



November 26, 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: 238062-1

Sample date: 2025-11-14

Report received by CADENA: 2025-11-26

Initial Data Verification completed by CADENA: 2025-11-26

Number of Samples:2

Sample Matrices:Water

Test Categories:GCMS VOC

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

The following minor QC exceptions or missing information were noted:

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

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
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 contaminants) 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 contaminants) 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: 238062-1

Sample Name: TRIP BLANK_93

MW-212S_111425

Lab Sample ID: 2402380621

2402380622

Sample Date: 11/14/2025

11/14/2025

Analyte	Cas No.	Report		Valid	Units	Qualifier	Report		Valid	Units	Qualifier
		Result	Limit				Result	Limit			

GC/MS VOC

OSW-8260D

1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---	1.7	1.0	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Trichloroethene	79-01-6	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---

OSW-8260DSIM

1,4-Dioxane	123-91-1					ND	2.0	ug/l	---
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