

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-238057-1

Eurofins Cleveland

Job Notes

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

Authorization



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Definitions/Glossary

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

Job ID: 240-238057-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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

Case Narrative

Client: Arcadis US Inc.
Project: Ford LTP

Job ID: 240-238057-1

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Job Narrative 240-238057-1

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

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: 240-238057-1

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: 240-238057-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
240-238057-1	TRIP BLANK_130	Water	11/14/25 00:00	11/19/25 08:00	Michigan
240-238057-2	MW-40_111425	Water	11/14/25 12:45	11/19/25 08:00	Michigan
240-238057-3	MW-41_111425	Water	11/14/25 10:00	11/19/25 08:00	Michigan
240-238057-4	MW-42_111425	Water	11/14/25 08:55	11/19/25 08:00	Michigan
240-238057-5	MW-208S_111425	Water	11/14/25 11:30	11/19/25 08:00	Michigan

Detection Summary

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

Job ID: 240-238057-1

Client Sample ID: TRIP BLANK_130

Lab Sample ID: 240-238057-1

No Detections.

Client Sample ID: MW-40_111425

Lab Sample ID: 240-238057-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.0		1.0	0.46	ug/L	1		8260D	Total/NA
Vinyl chloride	1.2		1.0	0.45	ug/L	1		8260D	Total/NA

Client Sample ID: MW-41_111425

Lab Sample ID: 240-238057-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	13		2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	1.1		1.0	0.45	ug/L	1		8260D	Total/NA

Client Sample ID: MW-42_111425

Lab Sample ID: 240-238057-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.0		2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	0.71	J	1.0	0.45	ug/L	1		8260D	Total/NA

Client Sample ID: MW-208S_111425

Lab Sample ID: 240-238057-5

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 240-238057-1

Client Sample ID: TRIP BLANK_130

Lab Sample ID: 240-238057-1

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 23:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/25 23:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 23:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/25 23:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 23:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/21/25 23:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137		11/21/25 23:52	1
4-Bromofluorobenzene (Surr)	95		56 - 136		11/21/25 23:52	1
Toluene-d8 (Surr)	87		78 - 122		11/21/25 23:52	1
Dibromofluoromethane (Surr)	88		73 - 120		11/21/25 23:52	1

Client Sample Results

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

Job ID: 240-238057-1

Client Sample ID: MW-40_111425

Lab Sample ID: 240-238057-2

Date Collected: 11/14/25 12:45

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 12:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 136					11/24/25 12:24	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 00:16	1
cis-1,2-Dichloroethene	2.0		1.0	0.46	ug/L			11/22/25 00:16	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/22/25 00:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/22/25 00:16	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/22/25 00:16	1
Vinyl chloride	1.2		1.0	0.45	ug/L			11/22/25 00:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137					11/22/25 00:16	1
4-Bromofluorobenzene (Surr)	95		56 - 136					11/22/25 00:16	1
Toluene-d8 (Surr)	87		78 - 122					11/22/25 00:16	1
Dibromofluoromethane (Surr)	90		73 - 120					11/22/25 00:16	1

Client Sample Results

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

Job ID: 240-238057-1

Client Sample ID: MW-41_111425

Lab Sample ID: 240-238057-3

Date Collected: 11/14/25 10:00

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	13		2.0	0.86	ug/L			11/24/25 22:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 136					11/24/25 22:57	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 00:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/22/25 00:39	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/22/25 00:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/22/25 00:39	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/22/25 00:39	1
Vinyl chloride	1.1		1.0	0.45	ug/L			11/22/25 00:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137					11/22/25 00:39	1
4-Bromofluorobenzene (Surr)	98		56 - 136					11/22/25 00:39	1
Toluene-d8 (Surr)	88		78 - 122					11/22/25 00:39	1
Dibromofluoromethane (Surr)	89		73 - 120					11/22/25 00:39	1

Client Sample Results

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

Job ID: 240-238057-1

Client Sample ID: MW-42_111425

Lab Sample ID: 240-238057-4

Date Collected: 11/14/25 08:55

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		2.0	0.86	ug/L			11/24/25 23:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		64 - 136					11/24/25 23:21	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 01:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/22/25 01:02	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/22/25 01:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/22/25 01:02	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/22/25 01:02	1
Vinyl chloride	0.71	J	1.0	0.45	ug/L			11/22/25 01:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		62 - 137					11/22/25 01:02	1
4-Bromofluorobenzene (Surr)	96		56 - 136					11/22/25 01:02	1
Toluene-d8 (Surr)	89		78 - 122					11/22/25 01:02	1
Dibromofluoromethane (Surr)	88		73 - 120					11/22/25 01:02	1

Client Sample Results

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

Job ID: 240-238057-1

Client Sample ID: MW-208S_111425

Lab Sample ID: 240-238057-5

Date Collected: 11/14/25 11:30

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 23:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		64 - 136					11/24/25 23:44	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 01:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/22/25 01:25	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/22/25 01:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/22/25 01:25	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/22/25 01:25	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/22/25 01:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137					11/22/25 01:25	1
4-Bromofluorobenzene (Surr)	99		56 - 136					11/22/25 01:25	1
Toluene-d8 (Surr)	89		78 - 122					11/22/25 01:25	1
Dibromofluoromethane (Surr)	89		73 - 120					11/22/25 01:25	1

Surrogate Summary

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

Job ID: 240-238057-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (62-137)	BFB (56-136)	TOL (78-122)	DBFM (73-120)
240-238057-1	TRIP BLANK_130	94	95	87	88
240-238057-2	MW-40_111425	96	95	87	90
240-238057-3	MW-41_111425	94	98	88	89
240-238057-4	MW-42_111425	92	96	89	88
240-238057-5	MW-208S_111425	94	99	89	89
240-238067-B-4 MS	Matrix Spike	90	102	92	92
240-238067-B-4 MSD	Matrix Spike Duplicate	90	99	88	88
LCS 240-681659/4	Lab Control Sample	93	100	89	89
MB 240-681659/8	Method Blank	97	94	89	90

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (64-136)			
240-238057-2	MW-40_111425	102			
240-238057-3	MW-41_111425	102			
240-238057-4	MW-42_111425	108			
240-238057-5	MW-208S_111425	111			
240-238067-E-4 MS	Matrix Spike	110			
240-238067-E-4 MSD	Matrix Spike Duplicate	109			
240-238069-F-2 MS	Matrix Spike	102			
240-238069-F-2 MSD	Matrix Spike Duplicate	106			
LCS 240-681852/5	Lab Control Sample	96			
LCS 240-681920/2	Lab Control Sample	103			
MB 240-681852/7	Method Blank	96			
MB 240-681920/4	Method Blank	96			

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-238057-1

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

Lab Sample ID: MB 240-681659/8

Matrix: Water

Analysis Batch: 681659

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 23:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/25 23:29	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 23:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/25 23:29	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/25 23:29	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/21/25 23:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137		11/21/25 23:29	1
4-Bromofluorobenzene (Surr)	94		56 - 136		11/21/25 23:29	1
Toluene-d8 (Surr)	89		78 - 122		11/21/25 23:29	1
Dibromofluoromethane (Surr)	90		73 - 120		11/21/25 23:29	1

Lab Sample ID: LCS 240-681659/4

Matrix: Water

Analysis Batch: 681659

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	22.1		ug/L		88	63 - 134
cis-1,2-Dichloroethene	25.0	23.9		ug/L		96	77 - 123
Tetrachloroethene	25.0	20.7		ug/L		83	76 - 123
trans-1,2-Dichloroethene	25.0	21.9		ug/L		88	75 - 124
Trichloroethene	25.0	23.7		ug/L		95	70 - 122
Vinyl chloride	12.5	10.2		ug/L		82	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	89		78 - 122
Dibromofluoromethane (Surr)	89		73 - 120

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

Matrix: Water

Analysis Batch: 681659

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	1.0	U	25.0	17.2		ug/L		69	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	22.3		ug/L		89	66 - 128
Tetrachloroethene	1.0	U	25.0	16.3		ug/L		65	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	18.5		ug/L		74	56 - 136
Trichloroethene	1.0	U	25.0	20.2		ug/L		81	61 - 124
Vinyl chloride	1.0	U	12.5	8.58		ug/L		69	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	92		78 - 122

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QC Sample Results

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

Job ID: 240-238057-1

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

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

Matrix: Water

Analysis Batch: 681659

Client Sample ID: Matrix Spike

Prep Type: Total/NA

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	92		73 - 120

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

Matrix: Water

Analysis Batch: 681659

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	1.0	U	25.0	19.5		ug/L		78	56 - 135	13	26
cis-1,2-Dichloroethene	1.0	U	25.0	22.8		ug/L		91	66 - 128	2	14
Tetrachloroethene	1.0	U	25.0	18.0		ug/L		72	62 - 131	10	20
trans-1,2-Dichloroethene	1.0	U	25.0	20.0		ug/L		80	56 - 136	8	15
Trichloroethene	1.0	U	25.0	21.3		ug/L		85	61 - 124	6	15
Vinyl chloride	1.0	U	12.5	9.51		ug/L		76	43 - 157	10	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	88		78 - 122
Dibromofluoromethane (Surr)	88		73 - 120

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

	MB	MB							
Surrogate	%Recovery	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

	LCS	LCS	
Surrogate	%Recovery	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

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-238057-1

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

	MS	MS	
Surrogate	%Recovery	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

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		64 - 136

Lab Sample ID: MB 240-681920/4
Matrix: Water
Analysis Batch: 681920

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 22:34	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,2-Dichloroethane-d4 (Surr)	96		64 - 136		11/24/25 22:34	1			

Lab Sample ID: LCS 240-681920/2
Matrix: Water
Analysis Batch: 681920

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	8.49		ug/L		85	68 - 120		

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		64 - 136

Lab Sample ID: 240-238069-F-2 MS
Matrix: Water
Analysis Batch: 681920

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	9.55		ug/L		95	45 - 145		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		64 - 136

Lab Sample ID: 240-238069-F-2 MSD
Matrix: Water
Analysis Batch: 681920

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	9.51		ug/L		95	45 - 145	0	19

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-238057-1

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

Lab Sample ID: 240-238069-F-2 MSD
Matrix: Water
Analysis Batch: 681920

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

	<i>MSD</i>	<i>MSD</i>	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	106		64 - 136

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QC Association Summary

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

Job ID: 240-238057-1

GC/MS VOA

Analysis Batch: 681659

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-238057-1	TRIP BLANK_130	Total/NA	Water	8260D	
240-238057-2	MW-40_111425	Total/NA	Water	8260D	
240-238057-3	MW-41_111425	Total/NA	Water	8260D	
240-238057-4	MW-42_111425	Total/NA	Water	8260D	
240-238057-5	MW-208S_111425	Total/NA	Water	8260D	
MB 240-681659/8	Method Blank	Total/NA	Water	8260D	
LCS 240-681659/4	Lab Control Sample	Total/NA	Water	8260D	
240-238067-B-4 MS	Matrix Spike	Total/NA	Water	8260D	
240-238067-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 681852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-238057-2	MW-40_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	

Analysis Batch: 681920

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-238057-3	MW-41_111425	Total/NA	Water	8260D SIM	
240-238057-4	MW-42_111425	Total/NA	Water	8260D SIM	
240-238057-5	MW-208S_111425	Total/NA	Water	8260D SIM	
MB 240-681920/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-681920/2	Lab Control Sample	Total/NA	Water	8260D SIM	
240-238069-F-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-238069-F-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Lab Chronicle

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

Job ID: 240-238057-1

Client Sample ID: TRIP BLANK_130

Lab Sample ID: 240-238057-1

Date Collected: 11/14/25 00:00

Matrix: Water

Date Received: 11/19/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681659	LEE	EET CLE	11/21/25 23:52

Client Sample ID: MW-40_111425

Lab Sample ID: 240-238057-2

Date Collected: 11/14/25 12:45

Matrix: Water

Date Received: 11/19/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681659	LEE	EET CLE	11/22/25 00:16
Total/NA	Analysis	8260D SIM		1	681852	R5XG	EET CLE	11/24/25 12:24

Client Sample ID: MW-41_111425

Lab Sample ID: 240-238057-3

Date Collected: 11/14/25 10:00

Matrix: Water

Date Received: 11/19/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681659	LEE	EET CLE	11/22/25 00:39
Total/NA	Analysis	8260D SIM		1	681920	R5XG	EET CLE	11/24/25 22:57

Client Sample ID: MW-42_111425

Lab Sample ID: 240-238057-4

Date Collected: 11/14/25 08:55

Matrix: Water

Date Received: 11/19/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681659	LEE	EET CLE	11/22/25 01:02
Total/NA	Analysis	8260D SIM		1	681920	R5XG	EET CLE	11/24/25 23:21

Client Sample ID: MW-208S_111425

Lab Sample ID: 240-238057-5

Date Collected: 11/14/25 11:30

Matrix: Water

Date Received: 11/19/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	681659	LEE	EET CLE	11/22/25 01:25
Total/NA	Analysis	8260D SIM		1	681920	R5XG	EET CLE	11/24/25 23:44

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: 240-238057-1

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 Laboratories, Inc.

240-238057 COC

Eurofins - Cleveland Sample Receipt Form/Narrative		Login # _____	
Barberton Facility			
Client <u>Aradis</u>	Site Name _____	Cooler unpacked by: <u>W Martin</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>FAS</u> <u>W</u> <u>Point</u>	Client Drop Off <u>Eurofins Courier</u>	Other _____	
Receipt After-hours Drop-off Date/Time _____		Storage Location _____	
Eurofins Cooler # <u>EC</u>	Foam Box _____	Client Cooler _____	Box _____ Other _____
Packing material used <u>Bubble Wrap</u> <u>W</u> <u>Ice</u> <u>Blue Ice</u> <u>Dry Ice</u> <u>Water</u> <u>None</u>			
☐ See Multiple Cooler Form			
1 Cooler temperature upon receipt	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 ☐ NA 4 Did custody papers accompany the sample(s)? ☒ Yes ☐ No ☐ NA 5 Were the custody papers relinquished & signed in the appropriate place? ☒ Yes ☐ No ☐ NA 6 Was/were the person(s) who collected the samples clearly identified on the COC? ☒ Yes ☐ No ☐ NA 7 Did all bottles arrive in good condition (Unbroken)? ☒ Yes ☐ No ☐ NA 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? ☒ Yes ☐ No ☐ NA 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 ☐ NA 10 Were correct bottle(s) used for the test(s) indicated? ☒ Yes ☐ No ☐ NA 11 Sufficient quantity received to perform indicated analyses? ☒ Yes ☐ No ☐ NA 12 Are these work share samples and all listed on the COC? ☒ Yes ☐ No ☐ NA 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 ☐ NA 15 Were air bubbles >6 mm in any VOA vials? ☒ Yes ☐ No ☐ NA 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # <u>N/A</u> ☒ Yes ☐ No ☐ NA 17 Was a LL Hg or Me Hg trip blank present? ☒ Yes ☐ No ☐ NA 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

Client Sample ID	Lab ID	Container Type	Container pH	Preservation Temp	Preservation Added	Preservation Lot Number
TRIP BLANK_130	240-238057-A-1	Voa Vial 40ml - Hydrochloric Acid				
MW-40_111425	240-238057-A-2	Voa Vial 40ml - Hydrochloric Acid				
MW-40_111425	240-238057-B-2	Voa Vial 40ml - Hydrochloric Acid				
MW-40_111425	240-238057-C-2	Voa Vial 40ml - Hydrochloric Acid				
MW-40_111425	240-238057-D-2	Voa Vial 40ml - Hydrochloric Acid				
MW-40_111425	240-238057-E-2	Voa Vial 40ml - Hydrochloric Acid				
MW-40_111425	240-238057-F-2	Voa Vial 40ml - Hydrochloric Acid				
MW-41_111425	240-238057-A-3	Voa Vial 40ml - Hydrochloric Acid				
MW-41_111425	240-238057-B-3	Voa Vial 40ml - Hydrochloric Acid				
MW-41_111425	240-238057-C-3	Voa Vial 40ml - Hydrochloric Acid				
MW-41_111425	240-238057-D-3	Voa Vial 40ml - Hydrochloric Acid				
MW-41_111425	240-238057-E-3	Voa Vial 40ml - Hydrochloric Acid				
MW-41_111425	240-238057-F-3	Voa Vial 40ml - Hydrochloric Acid				
MW-42_111425	240-238057-A-4	Voa Vial 40ml - Hydrochloric Acid				
MW-42_111425	240-238057-B-4	Voa Vial 40ml - Hydrochloric Acid				
MW-42_111425	240-238057-C-4	Voa Vial 40ml - Hydrochloric Acid				
MW-42_111425	240-238057-D-4	Voa Vial 40ml - Hydrochloric Acid				
MW-42_111425	240-238057-E-4	Voa Vial 40ml - Hydrochloric Acid				
MW-42_111425	240-238057-F-4	Voa Vial 40ml - Hydrochloric Acid				
MW-208S_111425	240-238057-A-5	Voa Vial 40ml - Hydrochloric Acid				
MW-208S_111425	240-238057-B-5	Voa Vial 40ml - Hydrochloric Acid				
MW-208S_111425	240-238057-C-5	Voa Vial 40ml - Hydrochloric Acid				
MW-208S_111425	240-238057-D-5	Voa Vial 40ml - Hydrochloric Acid				
MW-208S_111425	240-238057-E-5	Voa Vial 40ml - Hydrochloric Acid				
MW-208S_111425	240-238057-F-5	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: 238057-1

Sample date: 2025-11-14

Report received by CADENA: 2025-11-26

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

Number of Samples:5

Sample Matrices:Water

Test Categories:GCMS VOC

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

There were no significant QC anomalies or exceptions to report.

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

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

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.
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: 238057-1

		Sample Name: TRIP BLANK_130				MW-40_111425				MW-41_111425				MW-42_111425				MW-208S_111425			
		Lab Sample ID: 2402380571				2402380572				2402380573				2402380574				2402380575			
		Sample Date: 11/14/2025				11/14/2025				11/14/2025				11/14/2025				11/14/2025			
Analyte	Cas No.	Report		Valid		Report		Valid		Report		Valid		Report		Valid		Report		Valid	
		Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	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	---	ND	1.0	ug/l	---
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---	2.0	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	---	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	---
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	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	1.2	1.0	ug/l	---	1.1	1.0	ug/l	---	0.71	1.0	ug/l	J	ND	1.0	ug/l	---
OSW-8260DSIM																					
1,4-Dioxane	123-91-1					ND	2.0	ug/l	---	13	2.0	ug/l	---	2.0	2.0	ug/l	---	ND	2.0	ug/l	---