

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-244352-1

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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Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
Surrogate Summary	13
QC Sample Results	14
QC Association Summary	18
Lab Chronicle	19
Certification Summary	20
Chain of Custody	21

Definitions/Glossary

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

Job ID: 240-244352-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Arcadis US Inc.
Project: Ford LTP

Job ID: 240-244352-1

Job ID: 240-244352-1

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Job Narrative 240-244352-1

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 2/28/2026 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.0°C and 1.8°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: 240-244352-1

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

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- 10
- 11
- 12
- 13
- 14

Sample Summary

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

Job ID: 240-244352-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
240-244352-1	TRIP BLANK_120	Water	02/26/26 00:00	02/28/26 08:00	Michigan
240-244352-2	MW-218S_022626	Water	02/26/26 08:45	02/28/26 08:00	Michigan
240-244352-3	MW-39_022626	Water	02/26/26 12:35	02/28/26 08:00	Michigan
240-244352-4	MW-32_022626	Water	02/26/26 13:40	02/28/26 08:00	Michigan

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- 2
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- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

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

Job ID: 240-244352-1

Client Sample ID: TRIP BLANK_120

Lab Sample ID: 240-244352-1

No Detections.

Client Sample ID: MW-218S_022626

Lab Sample ID: 240-244352-2

No Detections.

Client Sample ID: MW-39_022626

Lab Sample ID: 240-244352-3

No Detections.

Client Sample ID: MW-32_022626

Lab Sample ID: 240-244352-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.72	J	1.0	0.46	ug/L	1		8260D	Total/NA

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: 240-244352-1

Client Sample ID: TRIP BLANK_120

Lab Sample ID: 240-244352-1

Date Collected: 02/26/26 00:00

Matrix: Water

Date Received: 02/28/26 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			03/05/26 17:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/05/26 17:47	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/05/26 17:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/05/26 17:47	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/05/26 17:47	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/05/26 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		62 - 137		03/05/26 17:47	1
4-Bromofluorobenzene (Surr)	99		56 - 136		03/05/26 17:47	1
Toluene-d8 (Surr)	91		78 - 122		03/05/26 17:47	1
Dibromofluoromethane (Surr)	106		73 - 120		03/05/26 17:47	1

Client Sample Results

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

Job ID: 240-244352-1

Client Sample ID: MW-218S_022626

Lab Sample ID: 240-244352-2

Date Collected: 02/26/26 08:45

Matrix: Water

Date Received: 02/28/26 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			03/05/26 15:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 136					03/05/26 15:11	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			03/05/26 05:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/05/26 05:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/05/26 05:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/05/26 05:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/05/26 05:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/05/26 05:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		62 - 137					03/05/26 05:17	1
4-Bromofluorobenzene (Surr)	103		56 - 136					03/05/26 05:17	1
Toluene-d8 (Surr)	92		78 - 122					03/05/26 05:17	1
Dibromofluoromethane (Surr)	105		73 - 120					03/05/26 05:17	1

Client Sample Results

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

Job ID: 240-244352-1

Client Sample ID: MW-39_022626

Lab Sample ID: 240-244352-3

Date Collected: 02/26/26 12:35

Matrix: Water

Date Received: 02/28/26 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			03/05/26 15:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		64 - 136					03/05/26 15:35	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			03/05/26 05:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/05/26 05:40	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/05/26 05:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/05/26 05:40	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/05/26 05:40	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/05/26 05:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		62 - 137					03/05/26 05:40	1
4-Bromofluorobenzene (Surr)	101		56 - 136					03/05/26 05:40	1
Toluene-d8 (Surr)	92		78 - 122					03/05/26 05:40	1
Dibromofluoromethane (Surr)	104		73 - 120					03/05/26 05:40	1

Client Sample Results

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

Job ID: 240-244352-1

Client Sample ID: MW-32_022626

Lab Sample ID: 240-244352-4

Date Collected: 02/26/26 13:40

Matrix: Water

Date Received: 02/28/26 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			03/05/26 15:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		64 - 136					03/05/26 15:58	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			03/05/26 06:03	1
cis-1,2-Dichloroethene	0.72	J	1.0	0.46	ug/L			03/05/26 06:03	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/05/26 06:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/05/26 06:03	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/05/26 06:03	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/05/26 06:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		62 - 137					03/05/26 06:03	1
4-Bromofluorobenzene (Surr)	98		56 - 136					03/05/26 06:03	1
Toluene-d8 (Surr)	90		78 - 122					03/05/26 06:03	1
Dibromofluoromethane (Surr)	109		73 - 120					03/05/26 06:03	1

Surrogate Summary

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

Job ID: 240-244352-1

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)
240-244346-B-2 MS	Matrix Spike	93	105	91	91
240-244346-B-2 MSD	Matrix Spike Duplicate	96	106	94	92
240-244347-F-3 MS	Matrix Spike	95	110	94	94
240-244347-F-3 MSD	Matrix Spike Duplicate	95	108	93	94
240-244352-1	TRIP BLANK_120	109	99	91	106
240-244352-2	MW-218S_022626	109	103	92	105
240-244352-3	MW-39_022626	110	101	92	104
240-244352-4	MW-32_022626	112	98	90	109
LCS 240-692383/4	Lab Control Sample	96	110	97	93
LCS 240-692453/4	Lab Control Sample	96	110	97	92
MB 240-692383/8	Method Blank	108	100	92	103
MB 240-692453/8	Method Blank	110	101	92	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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DCA (64-136)
240-244346-E-2 MS	Matrix Spike	104
240-244346-E-2 MSD	Matrix Spike Duplicate	107
240-244352-2	MW-218S_022626	104
240-244352-3	MW-39_022626	104
240-244352-4	MW-32_022626	105
LCS 240-692435/3	Lab Control Sample	99
MB 240-692435/5	Method Blank	99

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-244352-1

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

Lab Sample ID: MB 240-692383/8

Matrix: Water

Analysis Batch: 692383

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/04/26 23:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/26 23:06	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/04/26 23:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/04/26 23:06	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/04/26 23:06	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/04/26 23:06	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	108		62 - 137		03/04/26 23:06	1
4-Bromofluorobenzene (Surr)	100		56 - 136		03/04/26 23:06	1
Toluene-d8 (Surr)	92		78 - 122		03/04/26 23:06	1
Dibromofluoromethane (Surr)	103		73 - 120		03/04/26 23:06	1

Lab Sample ID: LCS 240-692383/4

Matrix: Water

Analysis Batch: 692383

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	25.0	24.9		ug/L		100	77 - 123
Tetrachloroethene	25.0	22.1		ug/L		88	76 - 123
trans-1,2-Dichloroethene	25.0	22.4		ug/L		90	75 - 124
Trichloroethene	25.0	23.4		ug/L		94	70 - 122
Vinyl chloride	12.5	9.89		ug/L		79	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	110		56 - 136
Toluene-d8 (Surr)	97		78 - 122
Dibromofluoromethane (Surr)	93		73 - 120

Lab Sample ID: 240-244346-B-2 MS

Matrix: Water

Analysis Batch: 692383

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
cis-1,2-Dichloroethene	1.0	U	25.0	23.9			96	66 - 128	
Tetrachloroethene	1.0	U	25.0	19.7			79	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	20.8			83	56 - 136	
Trichloroethene	1.0	U	25.0	21.6			86	61 - 124	
Vinyl chloride	1.0	U	12.5	9.52			76	43 - 157	

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	105		56 - 136
Toluene-d8 (Surr)	91		78 - 122

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QC Sample Results

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

Job ID: 240-244352-1

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

Lab Sample ID: 240-244346-B-2 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 692383

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	91		73 - 120

Lab Sample ID: 240-244346-B-2 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 692383

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		Limit
1,1-Dichloroethene	1.0	U	25.0	24.6		ug/L		98	56 - 135	8	26
cis-1,2-Dichloroethene	1.0	U	25.0	24.9		ug/L		100	66 - 128	4	14
Tetrachloroethene	1.0	U	25.0	22.3		ug/L		89	62 - 131	12	20
trans-1,2-Dichloroethene	1.0	U	25.0	22.7		ug/L		91	56 - 136	9	15
Trichloroethene	1.0	U	25.0	23.3		ug/L		93	61 - 124	7	15
Vinyl chloride	1.0	U	12.5	9.76		ug/L		78	43 - 157	2	24

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	106		56 - 136
Toluene-d8 (Surr)	94		78 - 122
Dibromofluoromethane (Surr)	92		73 - 120

Lab Sample ID: MB 240-692453/8

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 692453

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/05/26 12:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/05/26 12:00	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/05/26 12:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/05/26 12:00	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/05/26 12:00	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/05/26 12:00	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	110		62 - 137		03/05/26 12:00	1
4-Bromofluorobenzene (Surr)	101		56 - 136		03/05/26 12:00	1
Toluene-d8 (Surr)	92		78 - 122		03/05/26 12:00	1
Dibromofluoromethane (Surr)	106		73 - 120		03/05/26 12:00	1

Lab Sample ID: LCS 240-692453/4

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 692453

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec
		Result	Qualifier				Limits
1,1-Dichloroethene	25.0	26.0		ug/L		104	63 - 134
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	77 - 123
Tetrachloroethene	25.0	24.4		ug/L		98	76 - 123
trans-1,2-Dichloroethene	25.0	24.0		ug/L		96	75 - 124
Trichloroethene	25.0	24.2		ug/L		97	70 - 122

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QC Sample Results

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

Job ID: 240-244352-1

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

Lab Sample ID: LCS 240-692453/4

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 692453

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	12.5	10.3		ug/L		82	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	110		56 - 136
Toluene-d8 (Surr)	97		78 - 122
Dibromofluoromethane (Surr)	92		73 - 120

Lab Sample ID: 240-244347-F-3 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 692453

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	20	U	500	443		ug/L		89	56 - 135
cis-1,2-Dichloroethene	54		500	515		ug/L		92	66 - 128
Tetrachloroethene	20	U	500	394		ug/L		79	62 - 131
trans-1,2-Dichloroethene	20	U	500	420		ug/L		84	56 - 136
Trichloroethene	20	U F2	500	408		ug/L		82	61 - 124
Vinyl chloride	630	F1	250	641	F1	ug/L		4	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		62 - 137
4-Bromofluorobenzene (Surr)	110		56 - 136
Toluene-d8 (Surr)	94		78 - 122
Dibromofluoromethane (Surr)	94		73 - 120

Lab Sample ID: 240-244347-F-3 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 692453

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	20	U	500	503		ug/L		101	56 - 135	13	26
cis-1,2-Dichloroethene	54		500	544		ug/L		98	66 - 128	5	14
Tetrachloroethene	20	U	500	446		ug/L		89	62 - 131	12	20
trans-1,2-Dichloroethene	20	U	500	472		ug/L		94	56 - 136	12	15
Trichloroethene	20	U F2	500	480	F2	ug/L		96	61 - 124	16	15
Vinyl chloride	630	F1	250	684	F1	ug/L		21	43 - 157	6	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		62 - 137
4-Bromofluorobenzene (Surr)	108		56 - 136
Toluene-d8 (Surr)	93		78 - 122
Dibromofluoromethane (Surr)	94		73 - 120

QC Sample Results

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

Job ID: 240-244352-1

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

Lab Sample ID: MB 240-692435/5
Matrix: Water
Analysis Batch: 692435

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			03/05/26 11:40	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		64 - 136					03/05/26 11:40	1

Lab Sample ID: LCS 240-692435/3
Matrix: Water
Analysis Batch: 692435

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	8.20		ug/L		82	68 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	99		64 - 136				

Lab Sample ID: 240-244346-E-2 MS
Matrix: Water
Analysis Batch: 692435

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	9.50		ug/L		95	45 - 145
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	104		64 - 136						

Lab Sample ID: 240-244346-E-2 MSD
Matrix: Water
Analysis Batch: 692435

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	9.79		ug/L		98	45 - 145	3	19
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	107		64 - 136								

QC Association Summary

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

Job ID: 240-244352-1

GC/MS VOA

Analysis Batch: 692383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-244352-2	MW-218S_022626	Total/NA	Water	8260D	
240-244352-3	MW-39_022626	Total/NA	Water	8260D	
240-244352-4	MW-32_022626	Total/NA	Water	8260D	
MB 240-692383/8	Method Blank	Total/NA	Water	8260D	
LCS 240-692383/4	Lab Control Sample	Total/NA	Water	8260D	
240-244346-B-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-244346-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 692435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-244352-2	MW-218S_022626	Total/NA	Water	8260D SIM	
240-244352-3	MW-39_022626	Total/NA	Water	8260D SIM	
240-244352-4	MW-32_022626	Total/NA	Water	8260D SIM	
MB 240-692435/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-692435/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-244346-E-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-244346-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 692453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-244352-1	TRIP BLANK_120	Total/NA	Water	8260D	
MB 240-692453/8	Method Blank	Total/NA	Water	8260D	
LCS 240-692453/4	Lab Control Sample	Total/NA	Water	8260D	
240-244347-F-3 MS	Matrix Spike	Total/NA	Water	8260D	
240-244347-F-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 240-244352-1

Client Sample ID: TRIP BLANK_120

Lab Sample ID: 240-244352-1

Date Collected: 02/26/26 00:00

Matrix: Water

Date Received: 02/28/26 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	692453	LEE	EET CLE	03/05/26 17:47

Client Sample ID: MW-218S_022626

Lab Sample ID: 240-244352-2

Date Collected: 02/26/26 08:45

Matrix: Water

Date Received: 02/28/26 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	692383	LEE	EET CLE	03/05/26 05:17
Total/NA	Analysis	8260D SIM		1	692435	SAM	EET CLE	03/05/26 15:11

Client Sample ID: MW-39_022626

Lab Sample ID: 240-244352-3

Date Collected: 02/26/26 12:35

Matrix: Water

Date Received: 02/28/26 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	692383	LEE	EET CLE	03/05/26 05:40
Total/NA	Analysis	8260D SIM		1	692435	SAM	EET CLE	03/05/26 15:35

Client Sample ID: MW-32_022626

Lab Sample ID: 240-244352-4

Date Collected: 02/26/26 13:40

Matrix: Water

Date Received: 02/28/26 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	692383	LEE	EET CLE	03/05/26 06:03
Total/NA	Analysis	8260D SIM		1	692435	SAM	EET CLE	03/05/26 15:58

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: 240-244352-1

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
Illinois	NELAP	200004	08-31-26
Iowa	State	421	06-01-27
Kansas	NELAP	E-10336	01-31-26 *
Kentucky (WW)	State	KY98016	12-31-26
Michigan	State	9135	01-10-27
Minnesota	NELAP	039-999-348	12-31-26
New Hampshire	NELAP	2250	09-30-26
New Jersey	NELAP	OH001	06-30-26
New York	NELAP	10975	04-01-26
Oregon	NELAP	4062	02-27-26 *
Pennsylvania	NELAP	68-00340	08-31-26
Texas	NELAP	T104704517	08-31-26
USDA	US Federal Programs	525-24-5-34740	01-05-27
Virginia	NELAP	460175	09-30-26
West Virginia DEP	State	210	03-31-26
Wisconsin	State	399167560	08-31-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.



Eurofins - Cleveland Sample Receipt Form/Narrative Login # _____

Barberton Facility Cooler unpacked by: JC

Client Acordis Site Name _____

Cooler Received on 2.29.26 Opened on 3.2.26

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

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

Eurofins Cooler # _____ Foam Box Client Cooler Box Other _____

Packing material used Bubble Wrap Wet Ice 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 # _____ (CF _____ °C) Observed Cooler Temp _____ °C Corrected Cooler Temp _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No NA

-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 (LHhg/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 (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? 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

14 Were VOAs on the COC? Yes No NA

15 Were air bubbles >6 mm in any VOA vials? Larger than this pH Strip Lot# HCS67196

16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No NA

17. Was a LL Hg or Me Hg trip blank present? Yes No NA

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 _____

Temperature readings

Client Sample ID	Lab ID	Container Type	Container	Preservation	Preservation
			pH	Temp	Added
					Lot Number
TRIP-BLANK_120	240-244352-A-1	Voa Vial 40ml - Hydrochloric Acid			
MW-218S_022626	240-244352-A-2	Voa Vial 40ml - Hydrochloric Acid			
MW-218S_022626	240-244352-B-2	Voa Vial 40ml - Hydrochloric Acid			
MW-218S_022626	240-244352-C-2	Voa Vial 40ml - Hydrochloric Acid			
MW-218S_022626	240-244352-D-2	Voa Vial 40ml - Hydrochloric Acid			
MW-218S_022626	240-244352-E-2	Voa Vial 40ml - Hydrochloric Acid			
MW-218S_022626	240-244352-F-2	Voa Vial 40ml - Hydrochloric Acid			
MW-39_022626	240-244352-A-3	Voa Vial 40ml - Hydrochloric Acid			
MW-39_022626	240-244352-B-3	Voa Vial 40ml - Hydrochloric Acid			
MW-39_022626	240-244352-C-3	Voa Vial 40ml - Hydrochloric Acid			
MW-39_022626	240-244352-D-3	Voa Vial 40ml - Hydrochloric Acid			
MW-39_022626	240-244352-E-3	Voa Vial 40ml - Hydrochloric Acid			
MW-39_022626	240-244352-F-3	Voa Vial 40ml - Hydrochloric Acid			
MW-32_022626	240-244352-A-4	Voa Vial 40ml - Hydrochloric Acid			
MW-32_022626	240-244352-B-4	Voa Vial 40ml - Hydrochloric Acid			
MW-32_022626	240-244352-C-4	Voa Vial 40ml - Hydrochloric Acid			
MW-32_022626	240-244352-D-4	Voa Vial 40ml - Hydrochloric Acid			
MW-32_022626	240-244352-E-4	Voa Vial 40ml - Hydrochloric Acid			
MW-32_022626	240-244352-F-4	Voa Vial 40ml - Hydrochloric Acid			

DATA VERIFICATION REPORT



March 09, 2026

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: 30309849.401.04
Event Specific Scope of Work References: Sample COC
Laboratory: Eurofins Environment Testing LLC - Cleveland
Laboratory submittal: 244352-1
Sample date: 2026-02-26
Report received by CADENA: 2026-03-09
Initial Data Verification completed by CADENA: 2026-03-09
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.

The following minor QC exceptions or missing information were noted:

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

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

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
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: 244352-1

Sample Name:	TRIP BLANK_120	MW-218S_022626	MW-39_022626	MW-32_022626
Lab Sample ID:	2402443521	2402443522	2402443523	2402443524
Sample Date:	2/26/2026	2/26/2026	2/26/2026	2/26/2026

Analyte	Cas No.	TRIP BLANK_120				MW-218S_022626				MW-39_022626				MW-32_022626			
		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	---
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	0.72	1.0	ug/l	J
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
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	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---

OSW-8260DSIM

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