

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-237517-1

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: 240-237517-1

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

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Job Narrative 240-237517-1

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 11/12/2025 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 2.5°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: 240-237517-1

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: 240-237517-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
240-237517-1	TRIP BLANK_55	Water	11/10/25 00:00	11/12/25 08:00	Michigan
240-237517-2	MW-192S_111025	Water	11/10/25 14:20	11/12/25 08:00	Michigan
240-237517-3	MW-138S_111025	Water	11/10/25 13:20	11/12/25 08:00	Michigan

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

Detection Summary

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

Job ID: 240-237517-1

Client Sample ID: TRIP BLANK_55

Lab Sample ID: 240-237517-1

No Detections.

Client Sample ID: MW-192S_111025

Lab Sample ID: 240-237517-2

No Detections.

Client Sample ID: MW-138S_111025

Lab Sample ID: 240-237517-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.67	J	1.0	0.45	ug/L	1		8260D	Total/NA

Client Sample Results

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

Job ID: 240-237517-1

Client Sample ID: TRIP BLANK_55

Lab Sample ID: 240-237517-1

Date Collected: 11/10/25 00:00

Matrix: Water

Date Received: 11/12/25 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			11/14/25 18:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/14/25 18:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/14/25 18:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/14/25 18:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/14/25 18:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/14/25 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137		11/14/25 18:13	1
4-Bromofluorobenzene (Surr)	83		56 - 136		11/14/25 18:13	1
Toluene-d8 (Surr)	83		78 - 122		11/14/25 18:13	1
Dibromofluoromethane (Surr)	107		73 - 120		11/14/25 18:13	1

Client Sample Results

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

Job ID: 240-237517-1

Client Sample ID: MW-192S_111025

Lab Sample ID: 240-237517-2

Date Collected: 11/10/25 14:20

Matrix: Water

Date Received: 11/12/25 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			11/14/25 15:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		64 - 136					11/14/25 15:59	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			11/17/25 11:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/17/25 11:46	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/17/25 11:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/17/25 11:46	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/17/25 11:46	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/17/25 11:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137					11/17/25 11:46	1
4-Bromofluorobenzene (Surr)	87		56 - 136					11/17/25 11:46	1
Toluene-d8 (Surr)	86		78 - 122					11/17/25 11:46	1
Dibromofluoromethane (Surr)	93		73 - 120					11/17/25 11:46	1

Client Sample Results

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

Job ID: 240-237517-1

Client Sample ID: MW-138S_111025

Lab Sample ID: 240-237517-3

Date Collected: 11/10/25 13:20

Matrix: Water

Date Received: 11/12/25 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			11/14/25 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		64 - 136					11/14/25 16:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/17/25 12:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/17/25 12:55	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/17/25 12:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/17/25 12:55	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/17/25 12:55	1
Vinyl chloride	0.67	J	1.0	0.45	ug/L			11/17/25 12:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		62 - 137					11/17/25 12:55	1
4-Bromofluorobenzene (Surr)	95		56 - 136					11/17/25 12:55	1
Toluene-d8 (Surr)	90		78 - 122					11/17/25 12:55	1
Dibromofluoromethane (Surr)	92		73 - 120					11/17/25 12:55	1

Surrogate Summary

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

Job ID: 240-237517-1

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)
240-237517-1	TRIP BLANK_55	103	83	83	107
240-237517-2	MW-192S_111025	94	87	86	93
240-237517-2 MS	MW-192S-MS_111025	84	95	93	86
240-237517-2 MSD	MW-192S-MSD_111025	82	98	85	87
240-237517-3	MW-138S_111025	90	95	90	92
LCS 240-680584/4	Lab Control Sample	87	101	99	92
LCS 240-680761/4	Lab Control Sample	85	100	98	90
MB 240-680584/8	Method Blank	101	90	95	105
MB 240-680761/8	Method Blank	95	90	91	98
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)			
240-237517-2	MW-192S_111025	100			
240-237517-2 MS	MW-192S-MS_111025	115			
240-237517-2 MSD	MW-192S-MSD_111025	114			
240-237517-3	MW-138S_111025	109			
LCS 240-680571/5	Lab Control Sample	104			
MB 240-680571/7	Method Blank	98			
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					

QC Sample Results

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

Job ID: 240-237517-1

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

Lab Sample ID: MB 240-680584/8

Matrix: Water

Analysis Batch: 680584

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			11/14/25 12:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/14/25 12:10	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/14/25 12:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/14/25 12:10	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/14/25 12:10	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/14/25 12:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137		11/14/25 12:10	1
4-Bromofluorobenzene (Surr)	90		56 - 136		11/14/25 12:10	1
Toluene-d8 (Surr)	95		78 - 122		11/14/25 12:10	1
Dibromofluoromethane (Surr)	105		73 - 120		11/14/25 12:10	1

Lab Sample ID: LCS 240-680584/4

Matrix: Water

Analysis Batch: 680584

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	22.6		ug/L		91	63 - 134
cis-1,2-Dichloroethene	25.0	23.7		ug/L		95	77 - 123
Tetrachloroethene	25.0	22.8		ug/L		91	76 - 123
trans-1,2-Dichloroethene	25.0	21.3		ug/L		85	75 - 124
Trichloroethene	25.0	23.9		ug/L		96	70 - 122
Vinyl chloride	12.5	9.24		ug/L		74	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	99		78 - 122
Dibromofluoromethane (Surr)	92		73 - 120

Lab Sample ID: MB 240-680761/8

Matrix: Water

Analysis Batch: 680761

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			11/17/25 11:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/17/25 11:23	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/17/25 11:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/17/25 11:23	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/17/25 11:23	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/17/25 11:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137		11/17/25 11:23	1
4-Bromofluorobenzene (Surr)	90		56 - 136		11/17/25 11:23	1
Toluene-d8 (Surr)	91		78 - 122		11/17/25 11:23	1

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QC Sample Results

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

Job ID: 240-237517-1

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

Lab Sample ID: MB 240-680761/8

Matrix: Water

Analysis Batch: 680761

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		73 - 120		11/17/25 11:23	1

Lab Sample ID: LCS 240-680761/4

Matrix: Water

Analysis Batch: 680761

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,1-Dichloroethene	25.0	23.8		ug/L		95	63 - 134		
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	77 - 123		
Tetrachloroethene	25.0	23.0		ug/L		92	76 - 123		
trans-1,2-Dichloroethene	25.0	22.1		ug/L		88	75 - 124		
Trichloroethene	25.0	24.5		ug/L		98	70 - 122		
Vinyl chloride	12.5	11.6		ug/L		93	60 - 144		

	LCS	LCS		
Surrogate	%Recovery	Qualifier	Limits	
1,2-Dichloroethane-d4 (Surr)	85		62 - 137	
4-Bromofluorobenzene (Surr)	100		56 - 136	
Toluene-d8 (Surr)	98		78 - 122	
Dibromofluoromethane (Surr)	90		73 - 120	

Lab Sample ID: 240-237517-2 MS

Matrix: Water

Analysis Batch: 680761

Client Sample ID: MW-192S-MS_111025

Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS			%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	1.0	U	25.0	21.3		ug/L		85	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	24.2		ug/L		97	66 - 128
Tetrachloroethene	1.0	U	25.0	21.3		ug/L		85	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	22.3		ug/L		89	56 - 136
Trichloroethene	1.0	U	25.0	23.7		ug/L		95	61 - 124
Vinyl chloride	1.0	U	12.5	10.4		ug/L		83	43 - 157

	MS	MS		
Surrogate	%Recovery	Qualifier	Limits	
1,2-Dichloroethane-d4 (Surr)	84		62 - 137	
4-Bromofluorobenzene (Surr)	95		56 - 136	
Toluene-d8 (Surr)	93		78 - 122	
Dibromofluoromethane (Surr)	86		73 - 120	

Lab Sample ID: 240-237517-2 MSD

Matrix: Water

Analysis Batch: 680761

Client Sample ID: MW-192S-MSD_111025

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD			%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0	U	25.0	23.9		ug/L		96	56 - 135	11	26
cis-1,2-Dichloroethene	1.0	U	25.0	25.2		ug/L		101	66 - 128	4	14
Tetrachloroethene	1.0	U	25.0	21.3		ug/L		85	62 - 131	0	20
trans-1,2-Dichloroethene	1.0	U	25.0	22.6		ug/L		91	56 - 136	2	15
Trichloroethene	1.0	U	25.0	24.6		ug/L		98	61 - 124	4	15

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QC Sample Results

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

Job ID: 240-237517-1

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

Lab Sample ID: 240-237517-2 MSD

Matrix: Water

Analysis Batch: 680761

Client Sample ID: MW-192S-MSD_111025

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl chloride	1.0	U	12.5	11.4		ug/L		91	43 - 157	9	24
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
1,2-Dichloroethane-d4 (Surr)	82		62 - 137								
4-Bromofluorobenzene (Surr)	98		56 - 136								
Toluene-d8 (Surr)	85		78 - 122								
Dibromofluoromethane (Surr)	87		73 - 120								

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

Lab Sample ID: MB 240-680571/7

Matrix: Water

Analysis Batch: 680571

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			11/14/25 10:54	1
Surrogate	MB %Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		64 - 136					11/14/25 10:54	1

Lab Sample ID: LCS 240-680571/5

Matrix: Water

Analysis Batch: 680571

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	8.46		ug/L		85	68 - 120
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	104		64 - 136				

Lab Sample ID: 240-237517-2 MS

Matrix: Water

Analysis Batch: 680571

Client Sample ID: MW-192S-MS_111025

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	9.11		ug/L		91	45 - 145		
Surrogate	MS %Recovery	MS Qualifier	MS Limits								
1,2-Dichloroethane-d4 (Surr)	115		64 - 136								

Lab Sample ID: 240-237517-2 MSD

Matrix: Water

Analysis Batch: 680571

Client Sample ID: MW-192S-MSD_111025

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	9.28		ug/L		93	45 - 145	2	19

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QC Sample Results

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

Job ID: 240-237517-1

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

Lab Sample ID: 240-237517-2 MSD
Matrix: Water
Analysis Batch: 680571

Client Sample ID: MW-192S-MSD_111025
Prep Type: Total/NA

Surrogate	MSDMSD %Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	114		64 - 136

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- 14

QC Association Summary

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

Job ID: 240-237517-1

GC/MS VOA

Analysis Batch: 680571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-237517-2	MW-192S_111025	Total/NA	Water	8260D SIM	
240-237517-3	MW-138S_111025	Total/NA	Water	8260D SIM	
MB 240-680571/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-680571/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-237517-2 MS	MW-192S-MS_111025	Total/NA	Water	8260D SIM	
240-237517-2 MSD	MW-192S-MSD_111025	Total/NA	Water	8260D SIM	

Analysis Batch: 680584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-237517-1	TRIP BLANK_55	Total/NA	Water	8260D	
MB 240-680584/8	Method Blank	Total/NA	Water	8260D	
LCS 240-680584/4	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 680761

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-237517-2	MW-192S_111025	Total/NA	Water	8260D	
240-237517-3	MW-138S_111025	Total/NA	Water	8260D	
MB 240-680761/8	Method Blank	Total/NA	Water	8260D	
LCS 240-680761/4	Lab Control Sample	Total/NA	Water	8260D	
240-237517-2 MS	MW-192S-MS_111025	Total/NA	Water	8260D	
240-237517-2 MSD	MW-192S-MSD_111025	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 240-237517-1

Client Sample ID: TRIP BLANK_55

Lab Sample ID: 240-237517-1

Date Collected: 11/10/25 00:00

Matrix: Water

Date Received: 11/12/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	680584	LEE	EET CLE	11/14/25 18:13

Client Sample ID: MW-192S_111025

Lab Sample ID: 240-237517-2

Date Collected: 11/10/25 14:20

Matrix: Water

Date Received: 11/12/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	680761	LEE	EET CLE	11/17/25 11:46
Total/NA	Analysis	8260D SIM		1	680571	R5XG	EET CLE	11/14/25 15:59

Client Sample ID: MW-138S_111025

Lab Sample ID: 240-237517-3

Date Collected: 11/10/25 13:20

Matrix: Water

Date Received: 11/12/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	680761	LEE	EET CLE	11/17/25 12:55
Total/NA	Analysis	8260D SIM		1	680571	R5XG	EET CLE	11/14/25 16:22

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

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

Job ID: 240-237517-1

Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	08-31-26
Iowa	State	421	06-01-27
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-28-26
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	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	09-14-26
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-26

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Eurofins - Cleveland Sample Receipt Form/Narrative		Login # _____	
Barberton Facility			
Client <u>Arcadis</u>	Site Name _____	Cooler unpacked by <u>Martha</u>	
Cooler Received on <u>11/12/25</u>	Opened on <u>11/12/25</u>		
FedEx: 1 st Grd Exp _____	UPS FAS Wapont _____	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 _____ Other _____			
COOLANT <u>WeIce</u>	Blue Ice _____	Dry Ice _____	Water _____ None _____
1 Cooler temperature upon receipt ☐ See Multiple Cooler Form			
IR GUN # <u>17</u>	(CF <u>+0.7</u> °C)	Observed Cooler Temp <u>1.8</u> °C	Corrected Cooler Temp <u>2.5</u> °C
2 Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>1</u>			
-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)?			
Did custody papers accompany the sample(s)?		Yes ☒	No ☐
4 Were the custody papers relinquished & signed in the appropriate place?			
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)?			
Could all bottle labels (ID/Date/Time) be reconciled with the COC?		Yes ☒	No ☐
9 For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?			
10 Were correct bottle(s) used for the test(s) indicated?		Yes ☒	No ☐
11 Sufficient quantity received to perform indicated analyses?		Yes ☒	No ☐
12 Are these work share samples and all listed on the COC?		Yes ☒	No ☐
If yes, Questions 13-17 have been checked at the originating laboratory			
13 Were all preserved sample(s) at the correct pH upon receipt?		Yes ☐ No ☒ NA	pH Strip Lot# HC567196
14 Were VOAs on the COC?		Yes ☒	No ☐
15 Were air bubbles >6 mm in any VOA vials?		Yes ☐ No ☒ NA	Larger than this.
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> pH	<u>Preservation</u> Temp	<u>Preservation</u> Added	<u>Preservation</u> Lot Number
TRIP BLANK_55	240-237517-A-1	Voa Vial 40ml - Hydrochloric Acid				
MW-192S_111025	240-237517-A-2	Voa Vial 40ml - Hydrochloric Acid				
MW-192S_111025	240-237517-A-2 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-192S_111025	240-237517-A-2 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-192S_111025	240-237517-B-2	Voa Vial 40ml - Hydrochloric Acid				
MW-192S_111025	240-237517 B-2 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-192S_111025	240-237517-B-2 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-192S_111025	240-237517-C-2	Voa Vial 40ml - Hydrochloric Acid				
MW-192S_111025	240 237517-C-2 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-192S_111025	240-237517-C-2 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-192S_111025	240-237517-D-2	Voa Vial 40ml - Hydrochloric Acid				
MW-192S_111025	240 237517-D-2 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-192S_111025	240-237517-D-2 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-192S_111025	240-237517-E-2	Voa Vial 40ml - Hydrochloric Acid				
MW-192S_111025	240-237517 E-2 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-192S_111025	240-237517 E-2 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-192S_111025	240-237517-F-2	Voa Vial 40ml - Hydrochloric Acid				
MW-192S_111025	240-237517 F-2 MS	Voa Vial 40ml - Hydrochloric Acid				
MW-192S_111025	240-237517-F 2 MSD	Voa Vial 40ml - Hydrochloric Acid				
MW-138S_111025	240-237517-A-3	Voa Vial 40ml - Hydrochloric Acid				
MW-138S_111025	240-237517-B-3	Voa Vial 40ml - Hydrochloric Acid				
MW-138S_111025	240-237517-C-3	Voa Vial 40ml - Hydrochloric Acid				
MW-138S_111025	240-237517-D-3	Voa Vial 40ml - Hydrochloric Acid				
MW-138S_111025	240-237517-E-3	Voa Vial 40ml - Hydrochloric Acid				
MW-138S_111025	240-237517 F 3	Voa Vial 40ml - Hydrochloric Acid				

DATA VERIFICATION REPORT



November 19, 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: 237517-1
Sample date: 2025-11-10
Report received by CADENA: 2025-11-18
Initial Data Verification completed by CADENA: 2025-11-19
Number of Samples:3
Sample Matrices:Water and trip blank
Test Categories:GCMS VOC
Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

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

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

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: 237517-1

Sample Name: TRIP BLANK_55

Lab Sample ID: 2402375171

Sample Date: 11/10/2025

MW-192S_111025

2402375172

11/10/2025

MW-138S_111025

2402375173

11/10/2025

Analyte	Cas No.	Report				Valid				Report				Valid			
		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	---
cis-1,2-Dichloroethene	156-59-2	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	---
trans-1,2-Dichloroethene	156-60-5	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	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	0.67	1.0	ug/l	J

OSW-8260DSIM

1,4-Dioxane	123-91-1					ND	2.0	ug/l	---	ND	2.0	ug/l	---
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Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-237517-1

CADENA Verification Report: 2025-11-19

Analyses Performed By:
Eurofins Cleveland
Barberton, Ohio

Report #62327R
Review Level: Tier III
Project: 30309849.401.02

DATA REVIEW

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-237517-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis	
					VOC	VOC SIM
TRIP BLANK_55	240-237517-1	Water	11/10/2025		X	
MW-192S_111025	240-237517-2	Water	11/10/2025		X	X
MW-138S_111025	240-237517-3	Water	11/10/2025		X	X

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of Quality Assurance or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

DATA REVIEW

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8260D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

DATA REVIEW

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260D/8260D-SIM	Water	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with HCl

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable, and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrix is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrix.

A field duplicate sample was not collected for samples from this SDG.

DATA REVIEW

6. Compound Identification

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

All identified compounds met the specified criteria.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA REVIEW

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times/Preservation		X		X	
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Field Duplicate RPD	X				X
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

DATA REVIEW

VALIDATION PERFORMED BY: Pooja Parab

SIGNATURE: 

DATE: December 19, 2025

PEER REVIEW: Andrew Korycinski

DATE: December 22, 2025

**NO CORRECTIONS/QUALIFIERS ADDED
TO SAMPLE ANALYSIS DATA SHEETS**



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Definitions/Glossary

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

Job ID: 240-237517-1

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

Client Sample Results

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

Job ID: 240-237517-1

Client Sample ID: TRIP BLANK_55

Lab Sample ID: 240-237517-1

Date Collected: 11/10/25 00:00

Matrix: Water

Date Received: 11/12/25 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			11/14/25 18:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/14/25 18:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/14/25 18:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/14/25 18:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/14/25 18:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/14/25 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137		11/14/25 18:13	1
4-Bromofluorobenzene (Surr)	83		56 - 136		11/14/25 18:13	1
Toluene-d8 (Surr)	83		78 - 122		11/14/25 18:13	1
Dibromofluoromethane (Surr)	107		73 - 120		11/14/25 18:13	1

Client Sample Results

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

Job ID: 240-237517-1

Client Sample ID: MW-192S_111025

Lab Sample ID: 240-237517-2

Date Collected: 11/10/25 14:20

Matrix: Water

Date Received: 11/12/25 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			11/14/25 15:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		64 - 136					11/14/25 15:59	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			11/17/25 11:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/17/25 11:46	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/17/25 11:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/17/25 11:46	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/17/25 11:46	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/17/25 11:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		62 - 137					11/17/25 11:46	1
4-Bromofluorobenzene (Surr)	87		56 - 136					11/17/25 11:46	1
Toluene-d8 (Surr)	86		78 - 122					11/17/25 11:46	1
Dibromofluoromethane (Surr)	93		73 - 120					11/17/25 11:46	1

Client Sample Results

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

Job ID: 240-237517-1

Client Sample ID: MW-138S_111025

Lab Sample ID: 240-237517-3

Date Collected: 11/10/25 13:20

Matrix: Water

Date Received: 11/12/25 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			11/14/25 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		64 - 136					11/14/25 16:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/17/25 12:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/17/25 12:55	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/17/25 12:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/17/25 12:55	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/17/25 12:55	1
Vinyl chloride	0.67	J	1.0	0.45	ug/L			11/17/25 12:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		62 - 137					11/17/25 12:55	1
4-Bromofluorobenzene (Surr)	95		56 - 136					11/17/25 12:55	1
Toluene-d8 (Surr)	90		78 - 122					11/17/25 12:55	1
Dibromofluoromethane (Surr)	92		73 - 120					11/17/25 12:55	1