

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-238717-1

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Job Notes

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Authorization



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Definitions/Glossary

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

Job ID: 240-238717-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: Arcadis US Inc.
Project: Ford LTP

Job ID: 240-238717-1

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Job Narrative 240-238717-1

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 11/25/2025 10:15 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.5°C.

GC/MS VOA

Method 8260D: No MS/MSD reported with tune due to surrogate failure

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: 240-238717-1

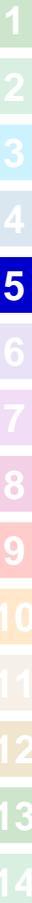
Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CLE
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET CLE
5030C	Purge and Trap	SW846	EET CLE

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: 240-238717-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
240-238717-1	TRIP BLANK_90	Water	11/21/25 00:00	11/25/25 10:15	Michigan
240-238717-2	MW-125_112125	Water	11/21/25 08:40	11/25/25 10:15	Michigan
240-238717-3	MW-125S_112125	Water	11/21/25 09:25	11/25/25 10:15	Michigan
240-238717-4	MW-129S_112125	Water	11/21/25 11:25	11/25/25 10:15	Michigan
240-238717-5	MW-129_112125	Water	11/21/25 12:40	11/25/25 10:15	Michigan

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

Detection Summary

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

Job ID: 240-238717-1

Client Sample ID: TRIP BLANK_90

Lab Sample ID: 240-238717-1

No Detections.

Client Sample ID: MW-125_112125

Lab Sample ID: 240-238717-2

No Detections.

Client Sample ID: MW-125S_112125

Lab Sample ID: 240-238717-3

No Detections.

Client Sample ID: MW-129S_112125

Lab Sample ID: 240-238717-4

No Detections.

Client Sample ID: MW-129_112125

Lab Sample ID: 240-238717-5

No Detections.

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

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: 240-238717-1

Client Sample ID: TRIP BLANK_90

Lab Sample ID: 240-238717-1

Date Collected: 11/21/25 00:00

Matrix: Water

Date Received: 11/25/25 10:15

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			12/03/25 14:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/03/25 14:53	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 14:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/03/25 14:53	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 14:53	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/03/25 14:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		62 - 137		12/03/25 14:53	1
4-Bromofluorobenzene (Surr)	83		56 - 136		12/03/25 14:53	1
Toluene-d8 (Surr)	92		78 - 122		12/03/25 14:53	1
Dibromofluoromethane (Surr)	111		73 - 120		12/03/25 14:53	1

Client Sample Results

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

Job ID: 240-238717-1

Client Sample ID: MW-125_112125

Lab Sample ID: 240-238717-2

Date Collected: 11/21/25 08:40

Matrix: Water

Date Received: 11/25/25 10:15

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			12/02/25 16:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		64 - 136					12/02/25 16:00	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			12/03/25 18:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/03/25 18:26	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 18:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/03/25 18:26	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 18:26	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/03/25 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		62 - 137					12/03/25 18:26	1
4-Bromofluorobenzene (Surr)	81		56 - 136					12/03/25 18:26	1
Toluene-d8 (Surr)	92		78 - 122					12/03/25 18:26	1
Dibromofluoromethane (Surr)	116		73 - 120					12/03/25 18:26	1

Client Sample Results

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

Job ID: 240-238717-1

Client Sample ID: MW-125S_112125

Lab Sample ID: 240-238717-3

Date Collected: 11/21/25 09:25

Matrix: Water

Date Received: 11/25/25 10:15

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			12/02/25 16:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 136					12/02/25 16:23	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			12/04/25 01:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/04/25 01:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/04/25 01:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/04/25 01:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/04/25 01:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/04/25 01:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		62 - 137					12/04/25 01:32	1
4-Bromofluorobenzene (Surr)	86		56 - 136					12/04/25 01:32	1
Toluene-d8 (Surr)	96		78 - 122					12/04/25 01:32	1
Dibromofluoromethane (Surr)	118		73 - 120					12/04/25 01:32	1

Client Sample Results

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

Job ID: 240-238717-1

Client Sample ID: MW-129S_112125

Lab Sample ID: 240-238717-4

Date Collected: 11/21/25 11:25

Matrix: Water

Date Received: 11/25/25 10:15

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			12/02/25 16:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 136					12/02/25 16:47	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			12/04/25 01:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/04/25 01:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/04/25 01:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/04/25 01:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/04/25 01:56	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/04/25 01:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137					12/04/25 01:56	1
4-Bromofluorobenzene (Surr)	83		56 - 136					12/04/25 01:56	1
Toluene-d8 (Surr)	91		78 - 122					12/04/25 01:56	1
Dibromofluoromethane (Surr)	114		73 - 120					12/04/25 01:56	1

Client Sample Results

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

Job ID: 240-238717-1

Client Sample ID: MW-129_112125

Lab Sample ID: 240-238717-5

Date Collected: 11/21/25 12:40

Matrix: Water

Date Received: 11/25/25 10:15

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			12/02/25 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 136					12/02/25 17:10	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			12/04/25 02:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/04/25 02:20	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/04/25 02:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/04/25 02:20	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/04/25 02:20	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/04/25 02:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		62 - 137					12/04/25 02:20	1
4-Bromofluorobenzene (Surr)	87		56 - 136					12/04/25 02:20	1
Toluene-d8 (Surr)	96		78 - 122					12/04/25 02:20	1
Dibromofluoromethane (Surr)	118		73 - 120					12/04/25 02:20	1

Surrogate Summary

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

Job ID: 240-238717-1

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)
240-238488-B-5 MS	Matrix Spike	91	99	97	97
240-238488-B-5 MSD	Matrix Spike Duplicate	93	101	99	100
240-238717-1	TRIP BLANK_90	109	83	92	111
240-238717-2	MW-125_112125	110	81	92	116
240-238717-3	MW-125S_112125	113	86	96	118
240-238717-4	MW-129S_112125	105	83	91	114
240-238717-5	MW-129_112125	113	87	96	118
LCS 240-682715/5	Lab Control Sample	93	100	100	98
LCS 240-682812/3	Lab Control Sample	94	100	100	99
MB 240-682715/9	Method Blank	112	86	93	116
MB 240-682812/8	Method Blank	106	85	91	111

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)
240-238715-A-2 MS	Matrix Spike	109
240-238715-A-2 MSD	Matrix Spike Duplicate	102
240-238717-2	MW-125_112125	109
240-238717-3	MW-125S_112125	103
240-238717-4	MW-129S_112125	103
240-238717-5	MW-129_112125	102
LCS 240-682566/5	Lab Control Sample	99
MB 240-682566/7	Method Blank	97

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-238717-1

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

Lab Sample ID: MB 240-682715/9

Matrix: Water

Analysis Batch: 682715

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			12/03/25 11:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/03/25 11:44	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 11:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/03/25 11:44	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 11:44	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/03/25 11:44	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	112		62 - 137		12/03/25 11:44	1
4-Bromofluorobenzene (Surr)	86		56 - 136		12/03/25 11:44	1
Toluene-d8 (Surr)	93		78 - 122		12/03/25 11:44	1
Dibromofluoromethane (Surr)	116		73 - 120		12/03/25 11:44	1

Lab Sample ID: LCS 240-682715/5

Matrix: Water

Analysis Batch: 682715

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	25.6		ug/L		102	77 - 123
Tetrachloroethene	25.0	25.9		ug/L		104	76 - 123
trans-1,2-Dichloroethene	25.0	26.1		ug/L		104	75 - 124
Trichloroethene	25.0	25.4		ug/L		101	70 - 122
Vinyl chloride	25.0	30.6		ug/L		122	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	100		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

Lab Sample ID: MB 240-682812/8

Matrix: Water

Analysis Batch: 682812

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			12/03/25 23:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/03/25 23:34	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 23:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/03/25 23:34	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 23:34	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/03/25 23:34	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	106		62 - 137		12/03/25 23:34	1
4-Bromofluorobenzene (Surr)	85		56 - 136		12/03/25 23:34	1
Toluene-d8 (Surr)	91		78 - 122		12/03/25 23:34	1

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QC Sample Results

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

Job ID: 240-238717-1

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

Lab Sample ID: MB 240-682812/8

Matrix: Water

Analysis Batch: 682812

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	111		73 - 120		12/03/25 23:34	1

Lab Sample ID: LCS 240-682812/3

Matrix: Water

Analysis Batch: 682812

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	23.8		ug/L		95	77 - 123
Tetrachloroethene	25.0	22.3		ug/L		89	76 - 123
trans-1,2-Dichloroethene	25.0	24.2		ug/L		97	75 - 124
Trichloroethene	25.0	23.2		ug/L		93	70 - 122
Vinyl chloride	25.0	28.7		ug/L		115	60 - 144

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	100		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

Lab Sample ID: 240-238488-B-5 MS

Matrix: Water

Analysis Batch: 682812

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	2.0	U	50.0	49.9		ug/L		100	66 - 128
Tetrachloroethene	2.0	U	50.0	43.6		ug/L		87	62 - 131
trans-1,2-Dichloroethene	2.0	U	50.0	48.6		ug/L		97	56 - 136
Trichloroethene	2.0	U	50.0	46.2		ug/L		92	61 - 124
Vinyl chloride	2.0	U	50.0	56.3		ug/L		113	43 - 157

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	91		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	97		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

Lab Sample ID: 240-238488-B-5 MSD

Matrix: Water

Analysis Batch: 682812

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
cis-1,2-Dichloroethene	2.0	U	50.0	52.4		ug/L		105	66 - 128	5	14
Tetrachloroethene	2.0	U	50.0	43.0		ug/L		86	62 - 131	1	20
trans-1,2-Dichloroethene	2.0	U	50.0	51.0		ug/L		102	56 - 136	5	15
Trichloroethene	2.0	U	50.0	47.8		ug/L		96	61 - 124	3	15

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-238717-1

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

Lab Sample ID: 240-238488-B-5 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 682812

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Vinyl chloride	2.0	U	50.0	64.7		ug/L		129	43 - 157	14	24
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	93		62 - 137								
4-Bromofluorobenzene (Surr)	101		56 - 136								
Toluene-d8 (Surr)	99		78 - 122								
Dibromofluoromethane (Surr)	100		73 - 120								

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

Lab Sample ID: MB 240-682566/7

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 682566

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			12/02/25 14:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		64 - 136					12/02/25 14:02	1

Lab Sample ID: LCS 240-682566/5

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 682566

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	10.0	7.88		ug/L		79	68 - 120
Surrogate	%Recovery	Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	99		64 - 136				

Lab Sample ID: 240-238715-A-2 MS

Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 682566

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.0	U	10.0	8.76		ug/L		88	45 - 145
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	109		64 - 136						

Lab Sample ID: 240-238715-A-2 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 682566

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	9.05		ug/L		90	45 - 145	3	19

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-238717-1

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

Lab Sample ID: 240-238715-A-2 MSD

Matrix: Water

Analysis Batch: 682566

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

<i>Surrogate</i>	<i>MSD</i>	<i>MSD</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
1,2-Dichloroethane-d4 (Surr)	102		64 - 136

- 1
- 2
- 3
- 4
- 5
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- 10
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- 12
- 13
- 14

QC Association Summary

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

Job ID: 240-238717-1

GC/MS VOA

Analysis Batch: 682566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-238717-2	MW-125_112125	Total/NA	Water	8260D SIM	
240-238717-3	MW-125S_112125	Total/NA	Water	8260D SIM	
240-238717-4	MW-129S_112125	Total/NA	Water	8260D SIM	
240-238717-5	MW-129_112125	Total/NA	Water	8260D SIM	
MB 240-682566/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-682566/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-238715-A-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-238715-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 682715

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-238717-1	TRIP BLANK_90	Total/NA	Water	8260D	
240-238717-2	MW-125_112125	Total/NA	Water	8260D	
MB 240-682715/9	Method Blank	Total/NA	Water	8260D	
LCS 240-682715/5	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 682812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-238717-3	MW-125S_112125	Total/NA	Water	8260D	
240-238717-4	MW-129S_112125	Total/NA	Water	8260D	
240-238717-5	MW-129_112125	Total/NA	Water	8260D	
MB 240-682812/8	Method Blank	Total/NA	Water	8260D	
LCS 240-682812/3	Lab Control Sample	Total/NA	Water	8260D	
240-238488-B-5 MS	Matrix Spike	Total/NA	Water	8260D	
240-238488-B-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 240-238717-1

Client Sample ID: TRIP BLANK_90

Lab Sample ID: 240-238717-1

Date Collected: 11/21/25 00:00

Matrix: Water

Date Received: 11/25/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	682715	MS	EET CLE	12/03/25 14:53

Client Sample ID: MW-125_112125

Lab Sample ID: 240-238717-2

Date Collected: 11/21/25 08:40

Matrix: Water

Date Received: 11/25/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	682715	MS	EET CLE	12/03/25 18:26
Total/NA	Analysis	8260D SIM		1	682566	R5XG	EET CLE	12/02/25 16:00

Client Sample ID: MW-125S_112125

Lab Sample ID: 240-238717-3

Date Collected: 11/21/25 09:25

Matrix: Water

Date Received: 11/25/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	682812	MS	EET CLE	12/04/25 01:32
Total/NA	Analysis	8260D SIM		1	682566	R5XG	EET CLE	12/02/25 16:23

Client Sample ID: MW-129S_112125

Lab Sample ID: 240-238717-4

Date Collected: 11/21/25 11:25

Matrix: Water

Date Received: 11/25/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	682812	MS	EET CLE	12/04/25 01:56
Total/NA	Analysis	8260D SIM		1	682566	R5XG	EET CLE	12/02/25 16:47

Client Sample ID: MW-129_112125

Lab Sample ID: 240-238717-5

Date Collected: 11/21/25 12:40

Matrix: Water

Date Received: 11/25/25 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Batch Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	682812	MS	EET CLE	12/04/25 02:20
Total/NA	Analysis	8260D SIM		1	682566	R5XG	EET CLE	12/02/25 17:10

Laboratory References:

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

Accreditation/Certification Summary

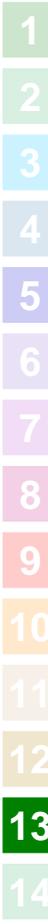
Client: Arcadis US Inc.
Project/Site: Ford LTP

Job ID: 240-238717-1

Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0806	09-30-26
Georgia	State	4062	02-27-26
Illinois	NELAP	200004	08-31-26
Iowa	State	421	06-01-27
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-28-26
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	2250	09-30-26
New Jersey	NELAP	OH001	06-30-26
New York	NELAP	10975	04-01-26
North Dakota	State	R-244	02-27-26
Ohio	State	8303	02-27-26
Ohio VAP	State	ORELAP 4062	02-28-26
Oregon	NELAP	4062	02-27-26
Pennsylvania	NELAP	68-00340	08-31-26
Texas	NELAP	T104704517	08-31-26
US Fish & Wildlife	US Federal Programs	A26406	02-28-26
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-30-26
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-26



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

Client Contact		Regulatory program: <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other										TestAmerica Laboratories, Inc.												
Company Name: Arcadis		Client Project Manager: Megan Meckley				Site Contact: Samantha Spaichler				Lab Contact: Mike DelMonico				COC No:										
Address: 28550 Cabot Drive, Suite 500		Telephone: 248-994-2240				Telephone: 248-994-2240				Telephone: 338-497-9396				1 of 1 COCs										
City/State/Zip: Novi, MI, 48377		Email: megan.meckley@arcadis.com				Analysis turnaround time				Analyses				For lab use only										
Phone: 248-994-2240		Sampler Name: Emma Green				TAT if different from below								Walk-in client										
Project Name: Ford LTP		Method of Shipment/Carrier:				10 day <input type="checkbox"/>								Lab sampling										
Project Number: 30251157.401.04		Shipping/Tracking No:				1 week <input type="checkbox"/>								Job/SDG No:										
PO # 353410052803 11/24/25 US3460027714						2 days <input type="checkbox"/>																		
						1 day <input type="checkbox"/>																		
Sample Identification	Sample Date	Sample Time	Matrix					Containers & Preservatives					Filtered Sample (Y/N)	Composite (C / Grab=G)	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM	Sample Specific Notes / Special Instructions:		
			Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH											Uaprs	Other:
TRIP BLANK_ 90	---	---	1						1					NG	X	X	X	X	X	X				1 Trip Blank
MW-125-112125	11/21/25	0840	6						6					NG	X	X	X	X	X	X			3 VOAs for 8260D 3 VOAs for 8260D SIM	
MW-1255-112125	11/21/25	0925	6						6					NG	X	X	X	X	X	X				
MW-1295-112125	11/21/25	1125	6						6					NG	X	X	X	X	X	X				
MW-1298-112125	11/21/25	1240	6						6					NG	X	X	X	X	X	X				
EG 11/21/25																								
Possible Hazard Identification		<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)												
Special Instructions/QC Requirements & Comments:		35601 Veronica St.										<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months												
Submit all results through Cadena at jtomalla@cadenaco.com. Cadena #E203728 Level IV Reporting requested.																								
Relinquished by: Emma Green	Company: Arcadis	Date/Time: 11/21/25 1345	Received by: Novi Cold Storage					Company: Arcadis	Date/Time: 11/21/25 1345															
Relinquished by: Lottiefay	Company: ARCADIS	Date/Time: 11/24/25 1424	Received by: Martin					Company: EETA	Date/Time: 11/24/25 1425															
Relinquished by: Martin	Company: EETA	Date/Time: 11/24/25 1426	Received in Laboratory by: Martin					Company: EET	Date/Time: 11/24/25 1426															



✓
✓
✓
✓

11/25/25 1015

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Eurofins - Cleveland Sample Receipt Form/Narrative Login # : _____

Barberton Facility

Client Arcadis Site Name _____

Cooler Received on 11/25/25 Opened on 11/25/25 Cooler unpacked by: Warfin

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

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

Eurofins Cooler # EC Foam Box Client Cooler Box Other _____

Packing material used Bubble Wrap Foam Plastic Bag None Other _____

COOLANT Wet Ice Blue Ice Dry Ice Water None See Multiple Cooler Form

1 Cooler temperature upon receipt _____
IR GUN # 17 (CF 40.7 °C) Observed Cooler Temp 28 °C Corrected Cooler Temp 35 °C

Tests that are not checked for pH by Receiving
VOAs
Oil and Grease
TOC

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1
 - 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/Methg)? 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
 - 13 If yes, Questions 13-17 have been checked at the originating laboratory
 - 14 Were all preserved sample(s) at the correct pH upon receipt? Yes No NA
 - 15 Were VOA's on the COC? Yes No NA
 - 16 Were air bubbles >6 mm in any VOA vials? Yes No NA
 - 17 Was a LL Hg or Me Hg trip blank present? Yes No NA
- 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 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

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u>	<u>Preservation</u>	<u>Preservation</u>
			<u>pH</u>	<u>Temp</u>	<u>Added</u>
					<u>Lot Number</u>
TRIP BLANK_90	240-238717-A-1	Voa Vial 40ml - Hydrochloric Acid			
MW-125_112125	240-238717-A-2	Voa Vial 40ml - Hydrochloric Acid			
MW-125_112125	240-238717-B-2	Voa Vial 40ml - Hydrochloric Acid			
MW-125_112125	240-238717-C-2	Voa Vial 40ml - Hydrochloric Acid			
MW-125_112125	240-238717-D-2	Voa Vial 40ml - Hydrochloric Acid			
MW-125_112125	240-238717-E-2	Voa Vial 40ml - Hydrochloric Acid			
MW-125_112125	240-238717-F-2	Voa Vial 40ml - Hydrochloric Acid			
MW-125S_112125	240-238717-A-3	Voa Vial 40ml - Hydrochloric Acid			
MW-125S_112125	240-238717-B-3	Voa Vial 40ml - Hydrochloric Acid			
MW-125S_112125	240-238717-C-3	Voa Vial 40ml - Hydrochloric Acid			
MW-125S_112125	240-238717-D-3	Voa Vial 40ml - Hydrochloric Acid			
MW-125S_112125	240-238717-E-3	Voa Vial 40ml - Hydrochloric Acid			
MW-125S_112125	240-238717-F-3	Voa Vial 40ml - Hydrochloric Acid			
MW-129S_112125	240-238717-A-4	Voa Vial 40ml - Hydrochloric Acid			
MW-129S_112125	240-238717-B-4	Voa Vial 40ml - Hydrochloric Acid			
MW-129S_112125	240-238717-C-4	Voa Vial 40ml - Hydrochloric Acid			
MW-129S_112125	240-238717-D-4	Voa Vial 40ml - Hydrochloric Acid			
MW-129S_112125	240-238717-E-4	Voa Vial 40ml - Hydrochloric Acid			
MW-129_112125	240-238717-A-5	Voa Vial 40ml - Hydrochloric Acid			
MW-129_112125	240-238717-B-5	Voa Vial 40ml - Hydrochloric Acid			
MW-129_112125	240-238717-C-5	Voa Vial 40ml - Hydrochloric Acid			
MW-129_112125	240-238717-D-5	Voa Vial 40ml - Hydrochloric Acid			
MW-129_112125	240-238717-E-5	Voa Vial 40ml - Hydrochloric Acid			
MW-129_112125	240-238717-F-5	Voa Vial 40ml - Hydrochloric Acid			

DATA VERIFICATION REPORT



December 04, 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: 238717-1
Sample date: 2025-11-21
Report received by CADENA: 2025-12-04
Initial Data Verification completed by CADENA: 2025-12-04
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.

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
B	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab 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: 238717-1

Analyte	Cas No.	Sample Name: TRIP BLANK_90				MW-125_112125				MW-125S_112125				MW-129S_112125				MW-129_112125			
		Lab Sample ID: 2402387171				2402387172				2402387173				2402387174				2402387175			
		Sample Date: 11/21/2025				11/21/2025				11/21/2025				11/21/2025				11/21/2025			
		Report		Valid	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/MSVOC																					
<u>OSW-8260D</u>																					
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	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	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	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
<u>OSW-8260DSIM</u>																					
1,4-Dioxane	123-91-1					ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---

Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-238717-1

CADENA Verification Report: 2025-12-04

Analyses Performed By:
Eurofins Cleveland
Barberton, Ohio

Report # 62549R
Review Level: Tier III
Project: 30309849.401.02

DATA REVIEW

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-238717-1 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_90	240-238717-1	Water	11/21/2025		X	
MW-125_112125	240-238717-2	Water	11/21/2025		X	X
MW-125S_112125	240-238717-3	Water	11/21/2025		X	X
MW-129S_112125	240-238717-4	Water	11/21/2025		X	X
MW-129_112125	240-238717-5	Water	11/21/2025		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 matrices 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 matrices.

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.

No compounds were detected in the samples within this SDG.

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: Parab Pooja

SIGNATURE: 

DATE: January 6, 2026

PEER REVIEW: Andrew Korycinski

DATE: January 6, 2026

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



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

Client Contact		Regulatory program: <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other										TestAmerica Laboratories, Inc.											
Company Name: Arcadis		Client Project Manager: Megan Meckley				Site Contact: Samantha Spaichler				Lab Contact: Mike DelMonico				COC No:									
Address: 28550 Cabot Drive, Suite 500		Telephone: 248-994-2240				Telephone: 248-994-2240				Telephone: 338-497-9396				1 of 1 COCs									
City/State/Zip: Novi, MI, 48377		Email: megan.meckley@arcadis.com				Analysis turnaround time				Analyses				For lab use only									
Phone: 248-994-2240		Sampler Name: Emma Green				TAT if different from below								Walk-in client									
Project Name: Ford LTP		Method of Shipment/Carrier:				10 day <input type="checkbox"/>								Lab sampling									
Project Number: 30251157.401.04		Shipping/Tracking No:				1 week <input type="checkbox"/>								Job/SDG No:									
PO # 353410052803 11/24/25 US3460027714						2 days <input type="checkbox"/>																	
						1 day <input type="checkbox"/>																	
Sample Identification	Sample Date	Sample Time	Matrix					Containers & Preservatives					Filtered Sample (Y/N)	Composite (C / Grab=G)	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM	Sample Specific Notes / Special Instructions:	
			Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH											Uaprs
TRIP BLANK_ 90	—	—	1						1					NG	X	X	X	X	X	X			1 Trip Blank
MW-125-11/21/25	11/21/25	0840	6						6					NG	X	X	X	X	X	X			3 VOAs for 8260D 3 VOAs for 8260D SIM
MW-1255-11/21/25	11/21/25	0925	6						6					NG	X	X	X	X	X	X			
MW-1295-11/21/25	11/21/25	1125	6						6					NG	X	X	X	X	X	X			
MW-1298-11/21/25	11/21/25	1240	6						6					NG	X	X	X	X	X	X			
EG 11/21/25																							
Possible Hazard Identification		<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown										Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)											
Special Instructions/QC Requirements & Comments:		35601 Veronica St.										<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months											
Submit all results through Cadena at jtomalla@cadenaco.com. Cadena #E203728 Level IV Reporting requested.																							
Relinquished by: Emma Green	Company: Arcadis	Date/Time: 11/21/25 1345	Received by: Novi Cold Storage										Company: Arcadis	Date/Time: 11/21/25 1345									
Relinquished by: Lottiefay	Company: ARCADIS	Date/Time: 11/24/25 1424	Received by: Martin										Company: EETA	Date/Time: 11/24/25 1425									
Relinquished by: Martin	Company: EETA	Date/Time: 11/24/25 1426	Received in Laboratory by: Martin										Company: EET	Date/Time: 11/24/25 1426									



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11/25/25 1015

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Definitions/Glossary

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

Job ID: 240-238717-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Client Sample Results

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

Job ID: 240-238717-1

Client Sample ID: TRIP BLANK_90

Lab Sample ID: 240-238717-1

Date Collected: 11/21/25 00:00

Matrix: Water

Date Received: 11/25/25 10:15

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			12/03/25 14:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/03/25 14:53	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 14:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/03/25 14:53	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 14:53	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/03/25 14:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		62 - 137		12/03/25 14:53	1
4-Bromofluorobenzene (Surr)	83		56 - 136		12/03/25 14:53	1
Toluene-d8 (Surr)	92		78 - 122		12/03/25 14:53	1
Dibromofluoromethane (Surr)	111		73 - 120		12/03/25 14:53	1

Client Sample Results

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

Job ID: 240-238717-1

Client Sample ID: MW-125_112125

Lab Sample ID: 240-238717-2

Date Collected: 11/21/25 08:40

Matrix: Water

Date Received: 11/25/25 10:15

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			12/02/25 16:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		64 - 136					12/02/25 16:00	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			12/03/25 18:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/03/25 18:26	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 18:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/03/25 18:26	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/03/25 18:26	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/03/25 18:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		62 - 137					12/03/25 18:26	1
4-Bromofluorobenzene (Surr)	81		56 - 136					12/03/25 18:26	1
Toluene-d8 (Surr)	92		78 - 122					12/03/25 18:26	1
Dibromofluoromethane (Surr)	116		73 - 120					12/03/25 18:26	1

Client Sample Results

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

Job ID: 240-238717-1

Client Sample ID: MW-125S_112125

Lab Sample ID: 240-238717-3

Date Collected: 11/21/25 09:25

Matrix: Water

Date Received: 11/25/25 10:15

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			12/02/25 16:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 136					12/02/25 16:23	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			12/04/25 01:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/04/25 01:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/04/25 01:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/04/25 01:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/04/25 01:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/04/25 01:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		62 - 137					12/04/25 01:32	1
4-Bromofluorobenzene (Surr)	86		56 - 136					12/04/25 01:32	1
Toluene-d8 (Surr)	96		78 - 122					12/04/25 01:32	1
Dibromofluoromethane (Surr)	118		73 - 120					12/04/25 01:32	1

Client Sample Results

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

Job ID: 240-238717-1

Client Sample ID: MW-129S_112125

Lab Sample ID: 240-238717-4

Date Collected: 11/21/25 11:25

Matrix: Water

Date Received: 11/25/25 10:15

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			12/02/25 16:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		64 - 136					12/02/25 16:47	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			12/04/25 01:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/04/25 01:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/04/25 01:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/04/25 01:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/04/25 01:56	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/04/25 01:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137					12/04/25 01:56	1
4-Bromofluorobenzene (Surr)	83		56 - 136					12/04/25 01:56	1
Toluene-d8 (Surr)	91		78 - 122					12/04/25 01:56	1
Dibromofluoromethane (Surr)	114		73 - 120					12/04/25 01:56	1

Client Sample Results

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

Job ID: 240-238717-1

Client Sample ID: MW-129_112125

Lab Sample ID: 240-238717-5

Date Collected: 11/21/25 12:40

Matrix: Water

Date Received: 11/25/25 10:15

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			12/02/25 17:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		64 - 136					12/02/25 17:10	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			12/04/25 02:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/04/25 02:20	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/04/25 02:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/04/25 02:20	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/04/25 02:20	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/04/25 02:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		62 - 137					12/04/25 02:20	1
4-Bromofluorobenzene (Surr)	87		56 - 136					12/04/25 02:20	1
Toluene-d8 (Surr)	96		78 - 122					12/04/25 02:20	1
Dibromofluoromethane (Surr)	118		73 - 120					12/04/25 02:20	1