

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley
Arcadis US Inc.
28550 Cabot Drive
Suite 500
Novi, Michigan 48377

Generated 2/28/2025 5:34:51 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-219303-1

Eurofins Cleveland

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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



Generated
2/28/2025 5:34:51 AM

Authorized for release by
Michael DelMonico, Project Manager I
Michael.DelMonico@et.eurofinsus.com
(330)966-9783



Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
Surrogate Summary	14
QC Sample Results	15
QC Association Summary	19
Lab Chronicle	20
Certification Summary	21
Chain of Custody	22

Definitions/Glossary

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

Job ID: 240-219303-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
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: 240-219303-1

Job ID: 240-219303-1

Eurofins Cleveland

Job Narrative 240-219303-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/22/2025 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 1.2°C.

GC/MS VOA

Method 8260D: Surrogate recovery for the following samples were outside the upper control limit: TRIP BLANK_49 (240-219303-1), MW-20_022025 (240-219303-3), MW-18_022025 (240-219303-4), MW-220S_022025 (240-219303-5) and (240-219307-E-3). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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

Eurofins Cleveland

Method Summary

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

Job ID: 240-219303-1

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: 240-219303-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-219303-1	TRIP BLANK_49	Water	02/20/25 00:00	02/22/25 08:00
240-219303-2	MW-21_022025	Water	02/20/25 10:10	02/22/25 08:00
240-219303-3	MW-20_022025	Water	02/20/25 12:00	02/22/25 08:00
240-219303-4	MW-18_022025	Water	02/20/25 13:50	02/22/25 08:00
240-219303-5	MW-220S_022025	Water	02/20/25 15:10	02/22/25 08:00

Detection Summary

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

Job ID: 240-219303-1

Client Sample ID: TRIP BLANK_49

Lab Sample ID: 240-219303-1

No Detections.

Client Sample ID: MW-21_022025

Lab Sample ID: 240-219303-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.8		2.0	0.86	ug/L	1		8260D SIM	Total/NA
cis-1,2-Dichloroethene	95		2.0	0.92	ug/L	2		8260D	Total/NA
Vinyl chloride	48		2.0	0.90	ug/L	2		8260D	Total/NA

Client Sample ID: MW-20_022025

Lab Sample ID: 240-219303-3

No Detections.

Client Sample ID: MW-18_022025

Lab Sample ID: 240-219303-4

No Detections.

Client Sample ID: MW-220S_022025

Lab Sample ID: 240-219303-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Cleveland

Client Sample Results

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

Job ID: 240-219303-1

Client Sample ID: TRIP BLANK_49

Lab Sample ID: 240-219303-1

Date Collected: 02/20/25 00:00

Matrix: Water

Date Received: 02/22/25 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			02/25/25 18:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/25/25 18:14	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 18:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/25/25 18:14	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 18:14	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/25/25 18:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	127		62 - 137		02/25/25 18:14	1
4-Bromofluorobenzene (Surr)	82		56 - 136		02/25/25 18:14	1
Toluene-d8 (Surr)	91		78 - 122		02/25/25 18:14	1
Dibromofluoromethane (Surr)	129	S1+	73 - 120		02/25/25 18:14	1

Client Sample Results

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

Job ID: 240-219303-1

Client Sample ID: MW-21_022025

Lab Sample ID: 240-219303-2

Date Collected: 02/20/25 10:10

Matrix: Water

Date Received: 02/22/25 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	2.8		2.0	0.86	ug/L			02/25/25 18:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		68 - 127					02/25/25 18:19	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	2.0	U	2.0	0.98	ug/L			02/26/25 14:11	2
cis-1,2-Dichloroethene	95		2.0	0.92	ug/L			02/26/25 14:11	2
Tetrachloroethene	2.0	U	2.0	0.88	ug/L			02/26/25 14:11	2
trans-1,2-Dichloroethene	2.0	U	2.0	1.0	ug/L			02/26/25 14:11	2
Trichloroethene	2.0	U	2.0	0.88	ug/L			02/26/25 14:11	2
Vinyl chloride	48		2.0	0.90	ug/L			02/26/25 14:11	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		62 - 137					02/26/25 14:11	2
4-Bromofluorobenzene (Surr)	92		56 - 136					02/26/25 14:11	2
Toluene-d8 (Surr)	99		78 - 122					02/26/25 14:11	2
Dibromofluoromethane (Surr)	98		73 - 120					02/26/25 14:11	2

Client Sample Results

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

Job ID: 240-219303-1

Client Sample ID: MW-20_022025

Lab Sample ID: 240-219303-3

Date Collected: 02/20/25 12:00

Matrix: Water

Date Received: 02/22/25 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			02/25/25 18:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		68 - 127					02/25/25 18:43	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			02/25/25 21:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/25/25 21:33	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 21:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/25/25 21:33	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 21:33	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/25/25 21:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	134		62 - 137					02/25/25 21:33	1
4-Bromofluorobenzene (Surr)	77		56 - 136					02/25/25 21:33	1
Toluene-d8 (Surr)	92		78 - 122					02/25/25 21:33	1
Dibromofluoromethane (Surr)	133	S1+	73 - 120					02/25/25 21:33	1

Client Sample Results

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

Job ID: 240-219303-1

Client Sample ID: MW-18_022025

Lab Sample ID: 240-219303-4

Date Collected: 02/20/25 13:50

Matrix: Water

Date Received: 02/22/25 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			02/25/25 19:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		68 - 127					02/25/25 19:06	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			02/25/25 21:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/25/25 21:53	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 21:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/25/25 21:53	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 21:53	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/25/25 21:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	124		62 - 137					02/25/25 21:53	1
4-Bromofluorobenzene (Surr)	76		56 - 136					02/25/25 21:53	1
Toluene-d8 (Surr)	92		78 - 122					02/25/25 21:53	1
Dibromofluoromethane (Surr)	124	S1+	73 - 120					02/25/25 21:53	1

Client Sample Results

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

Job ID: 240-219303-1

Client Sample ID: MW-220S_022025

Lab Sample ID: 240-219303-5

Date Collected: 02/20/25 15:10

Matrix: Water

Date Received: 02/22/25 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			02/25/25 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		68 - 127					02/25/25 19:30	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			02/25/25 22:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/25/25 22:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 22:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/25/25 22:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 22:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/25/25 22:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	128		62 - 137					02/25/25 22:13	1
4-Bromofluorobenzene (Surr)	75		56 - 136					02/25/25 22:13	1
Toluene-d8 (Surr)	88		78 - 122					02/25/25 22:13	1
Dibromofluoromethane (Surr)	128	S1+	73 - 120					02/25/25 22:13	1

Surrogate Summary

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

Job ID: 240-219303-1

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)
240-219303-1	TRIP BLANK_49	127	82	91	129 S1+
240-219303-2	MW-21_022025	92	92	99	98
240-219303-3	MW-20_022025	134	77	92	133 S1+
240-219303-4	MW-18_022025	124	76	92	124 S1+
240-219303-5	MW-220S_022025	128	75	88	128 S1+
240-219307-E-3 MS	Matrix Spike	93	96	90	93
240-219307-E-3 MSD	Matrix Spike Duplicate	94	101	93	94
240-219369-B-1 MS	Matrix Spike	102	102	106	105
240-219369-B-1 MSD	Matrix Spike Duplicate	88	92	98	97
LCS 240-646031/4	Lab Control Sample	95	116	108	98
LCS 240-646082/5	Lab Control Sample	94	98	101	100
MB 240-646031/9	Method Blank	112	82	89	113
MB 240-646082/9	Method Blank	106	93	117	88
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 (68-127)			
240-219303-2	MW-21_022025	100			
240-219303-3	MW-20_022025	102			
240-219303-4	MW-18_022025	105			
240-219303-5	MW-220S_022025	101			
240-219307-B-3 MS	Matrix Spike	96			
240-219307-B-3 MSD	Matrix Spike Duplicate	98			
LCS 240-646026/5	Lab Control Sample	100			
MB 240-646026/7	Method Blank	99			
Surrogate Legend					
DCA = 1,2-Dichloroethane-d4 (Surr)					

QC Sample Results

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

Job ID: 240-219303-1

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

Lab Sample ID: MB 240-646031/9

Matrix: Water

Analysis Batch: 646031

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			02/25/25 16:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/25/25 16:14	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 16:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/25/25 16:14	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 16:14	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/25/25 16:14	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		62 - 137		02/25/25 16:14	1
4-Bromofluorobenzene (Surr)	82		56 - 136		02/25/25 16:14	1
Toluene-d8 (Surr)	89		78 - 122		02/25/25 16:14	1
Dibromofluoromethane (Surr)	113		73 - 120		02/25/25 16:14	1

Lab Sample ID: LCS 240-646031/4

Matrix: Water

Analysis Batch: 646031

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	25.0	23.4		ug/L		94	63 - 134
cis-1,2-Dichloroethene	25.0	25.0		ug/L		100	77 - 123
Tetrachloroethene	25.0	25.1		ug/L		100	76 - 123
trans-1,2-Dichloroethene	25.0	23.9		ug/L		96	75 - 124
Trichloroethene	25.0	24.1		ug/L		96	70 - 122
Vinyl chloride	25.0	23.8		ug/L		95	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		62 - 137
4-Bromofluorobenzene (Surr)	116		56 - 136
Toluene-d8 (Surr)	108		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

Lab Sample ID: 240-219307-E-3 MS

Matrix: Water

Analysis Batch: 646031

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	1.0	U	25.0	20.9		ug/L		84	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	23.6		ug/L		94	66 - 128
Tetrachloroethene	1.0	U	25.0	19.7		ug/L		79	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	22.4		ug/L		89	56 - 136
Trichloroethene	1.0	U	25.0	22.2		ug/L		89	61 - 124
Vinyl chloride	1.0	U	25.0	22.6		ug/L		90	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	96		56 - 136
Toluene-d8 (Surr)	90		78 - 122

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-219303-1

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

Lab Sample ID: 240-219307-E-3 MS

Matrix: Water

Analysis Batch: 646031

Client Sample ID: Matrix Spike

Prep Type: Total/NA

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	93		73 - 120

Lab Sample ID: 240-219307-E-3 MSD

Matrix: Water

Analysis Batch: 646031

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	1.0	U	25.0	21.5		ug/L		86	56 - 135	3	26
cis-1,2-Dichloroethene	1.0	U	25.0	24.2		ug/L		97	66 - 128	3	14
Tetrachloroethene	1.0	U	25.0	20.9		ug/L		84	62 - 131	6	20
trans-1,2-Dichloroethene	1.0	U	25.0	22.2		ug/L		89	56 - 136	1	15
Trichloroethene	1.0	U	25.0	22.6		ug/L		90	61 - 124	2	15
Vinyl chloride	1.0	U	25.0	22.6		ug/L		91	43 - 157	0	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	93		78 - 122
Dibromofluoromethane (Surr)	94		73 - 120

Lab Sample ID: MB 240-646082/9

Matrix: Water

Analysis Batch: 646082

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			02/26/25 11:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/26/25 11:31	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/26/25 11:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/26/25 11:31	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/26/25 11:31	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/26/25 11:31	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137		02/26/25 11:31	1
4-Bromofluorobenzene (Surr)	93		56 - 136		02/26/25 11:31	1
Toluene-d8 (Surr)	117		78 - 122		02/26/25 11:31	1
Dibromofluoromethane (Surr)	88		73 - 120		02/26/25 11:31	1

Lab Sample ID: LCS 240-646082/5

Matrix: Water

Analysis Batch: 646082

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	20.0	19.3		ug/L		97	63 - 134
cis-1,2-Dichloroethene	20.0	21.2		ug/L		106	77 - 123
Tetrachloroethene	20.0	19.5		ug/L		97	76 - 123
trans-1,2-Dichloroethene	20.0	20.8		ug/L		104	75 - 124
Trichloroethene	20.0	20.4		ug/L		102	70 - 122

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-219303-1

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

Lab Sample ID: LCS 240-646082/5

Matrix: Water

Analysis Batch: 646082

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Vinyl chloride	20.0	19.2		ug/L		96	60 - 144

	LCS %Recovery	LCS Qualifier	Limits
Surrogate			
1,2-Dichloroethane-d4 (Surr)	94		62 - 137
4-Bromofluorobenzene (Surr)	98		56 - 136
Toluene-d8 (Surr)	101		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

Lab Sample ID: 240-219369-B-1 MS

Matrix: Water

Analysis Batch: 646082

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,1-Dichloroethene	1.0	U	20.0	17.5		ug/L		88	56 - 135
cis-1,2-Dichloroethene	1.0	U	20.0	17.8		ug/L		89	66 - 128
Tetrachloroethene	1.0	U	20.0	16.9		ug/L		85	62 - 131
trans-1,2-Dichloroethene	1.0	U	20.0	19.1		ug/L		96	56 - 136
Trichloroethene	1.0	U F2	20.0	15.6		ug/L		78	61 - 124
Vinyl chloride	1.0	U	20.0	17.3		ug/L		87	43 - 157

	MS %Recovery	MS Qualifier	Limits
Surrogate			
1,2-Dichloroethane-d4 (Surr)	102		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	106		78 - 122
Dibromofluoromethane (Surr)	105		73 - 120

Lab Sample ID: 240-219369-B-1 MSD

Matrix: Water

Analysis Batch: 646082

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,1-Dichloroethene	1.0	U	20.0	18.5		ug/L		93	56 - 135	6	26
cis-1,2-Dichloroethene	1.0	U	20.0	19.1		ug/L		96	66 - 128	7	14
Tetrachloroethene	1.0	U	20.0	18.8		ug/L		94	62 - 131	11	20
trans-1,2-Dichloroethene	1.0	U	20.0	17.5		ug/L		88	56 - 136	9	15
Trichloroethene	1.0	U F2	20.0	19.2	F2	ug/L		96	61 - 124	21	15
Vinyl chloride	1.0	U	20.0	18.2		ug/L		91	43 - 157	5	24

	MSD %Recovery	MSD Qualifier	Limits
Surrogate			
1,2-Dichloroethane-d4 (Surr)	88		62 - 137
4-Bromofluorobenzene (Surr)	92		56 - 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	97		73 - 120

Eurofins Cleveland

QC Sample Results

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

Job ID: 240-219303-1

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

Lab Sample ID: MB 240-646026/7

Matrix: Water

Analysis Batch: 646026

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			02/25/25 14:48	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		68 - 127					02/25/25 14:48	1

Lab Sample ID: LCS 240-646026/5

Matrix: Water

Analysis Batch: 646026

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	8.74		ug/L		87	75 - 121
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	100		68 - 127						

Lab Sample ID: 240-219307-B-3 MS

Matrix: Water

Analysis Batch: 646026

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	2.0	U	10.0	9.84		ug/L		98	20 - 180
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	96		68 - 127						

Lab Sample ID: 240-219307-B-3 MSD

Matrix: Water

Analysis Batch: 646026

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2.0	U	10.0	9.94		ug/L		99	20 - 180	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	98		68 - 127								

QC Association Summary

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

Job ID: 240-219303-1

GC/MS VOA

Analysis Batch: 646026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219303-2	MW-21_022025	Total/NA	Water	8260D SIM	
240-219303-3	MW-20_022025	Total/NA	Water	8260D SIM	
240-219303-4	MW-18_022025	Total/NA	Water	8260D SIM	
240-219303-5	MW-220S_022025	Total/NA	Water	8260D SIM	
MB 240-646026/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-646026/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-219307-B-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-219307-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 646031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219303-1	TRIP BLANK_49	Total/NA	Water	8260D	
240-219303-3	MW-20_022025	Total/NA	Water	8260D	
240-219303-4	MW-18_022025	Total/NA	Water	8260D	
240-219303-5	MW-220S_022025	Total/NA	Water	8260D	
MB 240-646031/9	Method Blank	Total/NA	Water	8260D	
LCS 240-646031/4	Lab Control Sample	Total/NA	Water	8260D	
240-219307-E-3 MS	Matrix Spike	Total/NA	Water	8260D	
240-219307-E-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 646082

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219303-2	MW-21_022025	Total/NA	Water	8260D	
MB 240-646082/9	Method Blank	Total/NA	Water	8260D	
LCS 240-646082/5	Lab Control Sample	Total/NA	Water	8260D	
240-219369-B-1 MS	Matrix Spike	Total/NA	Water	8260D	
240-219369-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 240-219303-1

Client Sample ID: TRIP BLANK_49

Lab Sample ID: 240-219303-1

Date Collected: 02/20/25 00:00

Matrix: Water

Date Received: 02/22/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	646031	R5XG	EET CLE	02/25/25 18:14

Client Sample ID: MW-21_022025

Lab Sample ID: 240-219303-2

Date Collected: 02/20/25 10:10

Matrix: Water

Date Received: 02/22/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		2	646082	HMB	EET CLE	02/26/25 14:11
Total/NA	Analysis	8260D SIM		1	646026	R5XG	EET CLE	02/25/25 18:19

Client Sample ID: MW-20_022025

Lab Sample ID: 240-219303-3

Date Collected: 02/20/25 12:00

Matrix: Water

Date Received: 02/22/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	646031	R5XG	EET CLE	02/25/25 21:33
Total/NA	Analysis	8260D SIM		1	646026	R5XG	EET CLE	02/25/25 18:43

Client Sample ID: MW-18_022025

Lab Sample ID: 240-219303-4

Date Collected: 02/20/25 13:50

Matrix: Water

Date Received: 02/22/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	646031	R5XG	EET CLE	02/25/25 21:53
Total/NA	Analysis	8260D SIM		1	646026	R5XG	EET CLE	02/25/25 19:06

Client Sample ID: MW-220S_022025

Lab Sample ID: 240-219303-5

Date Collected: 02/20/25 15:10

Matrix: Water

Date Received: 02/22/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	646031	R5XG	EET CLE	02/25/25 22:13
Total/NA	Analysis	8260D SIM		1	646026	R5XG	EET CLE	02/25/25 19:30

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: 240-219303-1

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
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
Iowa	State	421	06-01-25
Kansas	NELAP	E-10336	01-31-26
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-31-25
Minnesota	NELAP	039-999-348	12-31-25
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-25
Wisconsin	State	399167560	08-31-25

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

sim 2.22

2/28/2025

Eurofins - Cleveland Sample Receipt Form/Narrative Barberton Facility		Login # : _____	
Client <u>ARCADIS</u>		Site Name _____	
Cooler Received on <u>2/22/25</u>		Opened on <u>2/22/25</u>	
FedEx: 1 st Grd Exp <u>UPS FAS Waypoint</u>		Client Drop Off <u>Eurofins Courier</u> Other _____	
Receipt After-hours Drop-off Date/Time _____		Storage Location _____	
Eurofins Cooler # <u>CL</u> Foam Box _____ Client Cooler Box _____ Other _____			
Packing material used. Bubble Wrap _____ Foam Plastic Bag _____ None _____ Other _____			
COOLANT. <u>Wet Ice</u> Blue Ice _____ Dry Ice _____ Water _____ None _____			
<input type="checkbox"/> See Multiple Cooler Form			
1 Cooler temperature upon receipt _____			
IR GUN # <u>21</u> (CF <u>+1.1</u> °C) Observed Cooler Temp <u>0.1</u> °C Corrected Cooler Temp <u>1.2</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? <u>Yes</u> No <u>NA</u> -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? <u>Yes</u> No <u>NA</u> -Were tamper/custody seals intact and uncompromised? <u>Yes</u> No <u>NA</u> 3 Shippers' packing slip attached to the cooler(s)? <u>Yes</u> No <u>NA</u> 4 Did custody papers accompany the sample(s)? <u>Yes</u> No <u>NA</u> 5 Were the custody papers relinquished & signed in the appropriate place? <u>Yes</u> No <u>NA</u> 6 Was/were the person(s) who collected the samples clearly identified on the COC? <u>Yes</u> No <u>NA</u> 7 Did all bottles arrive in good condition (Unbroken)? <u>Yes</u> No <u>NA</u> 8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? <u>Yes</u> No <u>NA</u> 9 For each sample, does the COC specify preservatives <u>(Y/N)</u> , # of containers <u>(Y/N)</u> , and sample type of grab/comp <u>(Y/N)</u> ? 10 Were correct bottle(s) used for the test(s) indicated? <u>Yes</u> No <u>NA</u> 11 Sufficient quantity received to perform indicated analyses? <u>Yes</u> No <u>NA</u> 12 Are these work share samples and all listed on the COC? <u>Yes</u> No <u>NA</u> 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? <u>Yes</u> No <u>NA</u> pH Strip Lot# HC448976 15 Were VOAAs on the COC? <u>Yes</u> No <u>NA</u> 16 Were air bubbles > 6 mm in any VOA vials? <u>Yes</u> No <u>NA</u> 17 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # <u>63271</u> Yes <u>(Yes)</u> No <u>(No)</u> 17 Was a LL Hg or Me Hg trip blank present? <u>Yes</u> No <u>NA</u> Yes <u>(Yes)</u> No <u>(No)</u>			
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____			
Concerning _____			
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES <input type="checkbox"/> additional next page		Samples processed 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. _____			

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



2/22/2025

Login Container Summary Report

240-219303

2/28/2025

Temperature readings

<u>Client Sample ID</u>	<u>Lab ID</u>	<u>Container Type</u>	<u>Container</u> <u>pH</u>	<u>Preservation</u> <u>Temp</u>	<u>Preservation</u> <u>Added</u>	<u>Preservation</u> <u>Lot Number</u>
TRIP BLANK_49	240-219303-A-1	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-21_022025	240-219303-A-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-21_022025	240-219303-B-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-21_022025	240-219303-C-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-21_022025	240-219303-D-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-21_022025	240-219303-E-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-21_022025	240-219303-F-2	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-20_022025	240-219303-A-3	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-20_022025	240-219303-B-3	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-20_022025	240-219303-C-3	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-20_022025	240-219303-D-3	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-20_022025	240-219303-E-3	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-20_022025	240-219303-F-3	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-18_022025	240-219303-A-4	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-18_022025	240-219303-B-4	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-18_022025	240-219303-C-4	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-18_022025	240-219303-D-4	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-18_022025	240-219303-E-4	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-18_022025	240-219303-F-4	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-220S_022025	240-219303-A-5	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-220S_022025	240-219303-B-5	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-220S_022025	240-219303-C-5	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-220S_022025	240-219303-D-5	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-220S_022025	240-219303-E-5	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____
MW-220S_022025	240-219303-F-5	Voa Vial 40ml - Hydrochloric Acid	_____	_____	_____	_____

DATA VERIFICATION REPORT



February 28, 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 (vapor 301.04) 30206169.0401.04

Event Specific Scope of Work References: Sample COC

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 219303-1

Sample date: 2025-02-20

Report received by CADENA: 2025-02-28

Initial Data Verification completed by CADENA: 2025-02-28

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.

The following minor QC exceptions or missing information were noted:

GCMS VOC samples -001, -003, -004, -005 SURROGATE recoveries were outliers biased high for at least 1 surrogate. Associated client sample results were non-detect so qualification was not required based on these high bias QC outliers.

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

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
B	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminants) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
E	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminants) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 219303-1

		Sample Name: TRIP BLANK_49				MW-21_022025				MW-20_022025				MW-18_022025				MW-220S_022025			
		Lab Sample ID: 2402193031				2402193032				2402193033				2402193034				2402193035			
		Sample Date: 2/20/2025				2/20/2025				2/20/2025				2/20/2025				2/20/2025			
Analyte	Cas No.	Report		Valid		Report		Valid		Report		Valid		Report		Valid		Report		Valid	
		Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC																					
OSW-8260D																					
1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---	ND	2.0	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	---	95	2.0	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	2.0	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	2.0	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	2.0	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	---	48	2.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---	ND	1.0	ug/l	---
OSW-8260DSIM																					
1,4-Dioxane	123-91-1					2.8	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---	ND	2.0	ug/l	---