ANALYTICAL REPORT

PREPARED FOR

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Generated 3/20/2025 6:24:11 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-220133-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

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Laboratory Job ID: 240-220133-1

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-220133-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

Qualifier

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U Indicates the analyte was analyzed for but not detected.

Qualifier Description

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
\tilde	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

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Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-220133-1 Eurofins Cleveland

Job Narrative 240-220133-1

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 3/8/2025 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 4.3°C.

GC/MS VOA

Method 8260D: The laboratory control sample (LCS) analyzed in batch 240-648330 was below the recovery control criteria for the following analyte(s): cis-1,2-Dichloroethene. This variance only affects results measured above the reporting limit. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. This demonstrates the analyte reporting limit is valid, and it is acceptable to report ND results (non-detects). The samples associated with the LCS were non-detects for the affected analytes; therefore, the results were reported. The following samples are impacted: TRIP BLANK_208 (240-220133-1) and MW-39_030425 (240-220133-2).

TRIP BLANK 208 (240-220133-1) and MW-39 030425 (240-220133-2)

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-648402 was outside the method criteria for the following analyte(s): Vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

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

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Job ID: 240-220133-1

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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-220133-1

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

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

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Sample Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-220133-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-220133-1	TRIP BLANK_208	Water	03/04/25 00:00	03/08/25 08:00
240-220133-2	MW-39_030425	Water	03/04/25 10:25	03/08/25 08:00
240-220133-3	MW-49_030425	Water	03/04/25 11:50	03/08/25 08:00
240-220133-4	MW-07 030425	Water	03/04/25 13:05	03/08/25 08:00

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Detection Summary

Client: Arcadis US Inc. Job ID: 240-220133-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_208 Lab Sample ID: 240-220133-1

No Detections.

No Detections.

Client Sample ID: MW-49_030425 Lab Sample ID: 240-220133-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	9.6		2.0	0.86	ug/L	1	_	8260D SIM	Total/NA
1,1-Dichloroethene	51	J	100	49	ug/L	100		8260D	Total/NA
cis-1,2-Dichloroethene	30000		500	230	ug/L	500		8260D	Total/NA
trans-1,2-Dichloroethene	120		100	51	ug/L	100		8260D	Total/NA
Vinyl chloride	7300		500	230	ug/L	500		8260D	Total/NA

Client Sample ID: MW-07_030425 Lab Sample ID: 240-220133-4

No Detections.

This Detection Summary does not include radiochemical test results.

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Client: Arcadis US Inc. Job ID: 240-220133-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_208

Lab Sample ID: 240-220133-1 Date Collected: 03/04/25 00:00

Matrix: Water

Date Received: 03/08/25 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/15/25 06:22	1
cis-1,2-Dichloroethene	1.0	U *-	1.0	0.46	ug/L			03/15/25 06:22	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/15/25 06:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/15/25 06:22	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/15/25 06:22	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/15/25 06:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137			_		03/15/25 06:22	1
4-Bromofluorobenzene (Surr)	104		56 ₋ 136					03/15/25 06:22	1
Toluene-d8 (Surr)	108		78 - 122					03/15/25 06:22	1
Dibromofluoromethane (Surr)	95		73 - 120					03/15/25 06:22	1

Client: Arcadis US Inc. Job ID: 240-220133-1

Project/Site: Ford LTP

Client Sample ID: MW-39_030425

Lab Sample ID: 240-220133-2 Date Collected: 03/04/25 10:25

101

98

105

93

Matrix: Water

03/15/25 10:14

03/15/25 10:14

03/15/25 10:14

03/15/25 10:14

Date Received: 03/08/25 08:00

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/12/25 19:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		68 - 127			_		03/12/25 19:01	1
- Method: SW846 8260D - Volatil	e Organic Comp	ounds by G	iC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/15/25 10:14	1
cis-1,2-Dichloroethene	1.0	U *-	1.0	0.46	ug/L			03/15/25 10:14	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/15/25 10:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/15/25 10:14	1
		11	1.0	0.44	ug/L			03/15/25 10:14	1
Trichloroethene	1.0	U	1.0						
Trichloroethene Vinyl chloride	1.0 1.0		1.0	0.45	ug/L			03/15/25 10:14	1

62 - 137

56 - 136

78 - 122

73 - 120

Client: Arcadis US Inc. Job ID: 240-220133-1

Project/Site: Ford LTP

Client Sample ID: MW-49_030425

Date Received: 03/08/25 08:00

Lab Sample ID: 240-220133-3 Date Collected: 03/04/25 11:50

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	9.6		2.0	0.86	ug/L			03/12/25 19:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		68 - 127			_		03/12/25 19:24	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	51	J	100	49	ug/L			03/17/25 20:04	100
cis-1,2-Dichloroethene	30000		500	230	ug/L			03/18/25 15:04	500
Tetrachloroethene	100	U	100	44	ug/L			03/17/25 20:04	100
trans-1,2-Dichloroethene	120		100	51	ug/L			03/17/25 20:04	100
Trichloroethene	100	U	100	44	ug/L			03/17/25 20:04	100
Vinyl chloride	7300		500	230	ug/L			03/18/25 15:04	500
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137			_		03/17/25 20:04	100
1.2-Dichloroethane-d4 (Surr)	100		62 - 137					03/18/25 15:04	500

Surrogate	%Recovery	Qualifier Limi	its	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95	62 -	137		03/17/25 20:04	100
1,2-Dichloroethane-d4 (Surr)	100	62 -	137		03/18/25 15:04	500
4-Bromofluorobenzene (Surr)	88	56 -	136		03/17/25 20:04	100
4-Bromofluorobenzene (Surr)	100	56 -	136		03/18/25 15:04	500
Toluene-d8 (Surr)	96	78 -	122		03/17/25 20:04	100
Toluene-d8 (Surr)	103	78 -	122		03/18/25 15:04	500
Dibromofluoromethane (Surr)	94	73 -	120		03/17/25 20:04	100
Dibromofluoromethane (Surr)	96	73 -	120		03/18/25 15:04	500

Client: Arcadis US Inc. Job ID: 240-220133-1

Project/Site: Ford LTP

Client Sample ID: MW-07_030425

Date Collected: 03/04/25 13:05

Lab Sample ID: 240-220133-4 Matrix: Water

03/17/25 20:27

03/17/25 20:27

03/17/25 20:27

Date Received: 03/08/25 08:00

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Method: SW846 8260D SIM - \	/olatile Organic C	ompounds	(GC/MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/12/25 19:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		68 - 127			-		03/12/25 19:47	1
- Method: SW846 8260D - Volat	ile Organic Comp	ounds by C	GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/17/25 20:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/17/25 20:27	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/17/25 20:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/17/25 20:27	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/17/25 20:27	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/17/25 20:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137			-		03/17/25 20:27	1

56 - 136

78 - 122

73 - 120

87

95

94

3/20/2025

Surrogate Summary

Client: Arcadis US Inc. Job ID: 240-220133-1 Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Sui	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-219864-C-3 MS	Matrix Spike	93	96	98	92
240-219864-C-3 MSD	Matrix Spike Duplicate	93	98	98	91
240-219879-B-5 MS	Matrix Spike	103	102	110	98
240-219879-B-5 MSD	Matrix Spike Duplicate	100	99	106	94
240-220133-1	TRIP BLANK_208	102	104	108	95
240-220133-2	MW-39_030425	101	98	105	93
240-220133-3	MW-49_030425	95	88	96	94
240-220133-3	MW-49_030425	100	100	103	96
240-220133-3 MS	MW-49_030425	100	100	108	96
240-220133-3 MSD	MW-49_030425	99	98	107	97
240-220133-4	MW-07_030425	95	87	95	94
LCS 240-648330/2	Lab Control Sample	99	102	110	96
LCS 240-648402/5	Lab Control Sample	92	98	100	92
LCS 240-648627/5	Lab Control Sample	95	98	104	98
MB 240-648330/4	Method Blank	101	99	106	94
MB 240-648402/9	Method Blank	96	89	96	91
MB 240-648627/9	Method Blank	101	102	102	99

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-220133-2	MW-39_030425	98	
240-220133-3	MW-49_030425	94	
240-220133-4	MW-07_030425	96	
240-220134-E-2 MS	Matrix Spike	86	
240-220134-E-2 MSD	Matrix Spike Duplicate	83	
LCS 240-647989/7	Lab Control Sample	89	
MB 240-647989/9	Method Blank	84	

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

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Job ID: 240-220133-1

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

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

Lab Sample ID: MB 240-648330/4

Matrix: Water

Analysis Batch: 648330

Client Sample ID: Method Blank

Prep Type: Total/NA

	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/15/25 05:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/15/25 05:05	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/15/25 05:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/15/25 05:05	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/15/25 05:05	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/15/25 05:05	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101	62 - 137		03/15/25 05:05	1
4-Bromofluorobenzene (Surr)	99	56 ₋ 136		03/15/25 05:05	1
Toluene-d8 (Surr)	106	78 - 122		03/15/25 05:05	1
Dibromofluoromethane (Surr)	94	73 - 120		03/15/25 05:05	1

Lab Sample ID: LCS 240-648330/2

Matrix: Water

Analysis Batch: 648330

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

ı		Spike	LUS	LCS				%Rec	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	1,1-Dichloroethene	20.0	14.6	-	ug/L		73	63 - 134	
	cis-1,2-Dichloroethene	20.0	14.5	*-	ug/L		72	77 - 123	
	Tetrachloroethene	20.0	16.1		ug/L		81	76 - 123	
	trans-1,2-Dichloroethene	20.0	15.1		ug/L		75	75 - 124	
	Trichloroethene	20.0	14.6		ug/L		73	70 - 122	
	Vinyl chloride	20.0	18.1		ug/L		90	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		62 _ 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	110		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

Lab Sample ID: 240-219879-B-5 MS

Matrix: Water

Analysis Batch: 648330

Client Sample ID: Matrix Spike

Prep Type: Total/NA

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	110		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

Lab Sample ID: 240-219879-B-5 MSD

Matrix: Water

Analysis Batch: 648330

MSD MSD

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 62 - 137 100

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

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Client: Arcadis US Inc. Job ID: 240-220133-1 Project/Site: Ford LTP

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

Lab Sample ID: 240-219879-B-5 MSD

Matrix: Water

Analysis Batch: 648330

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 99 56 - 136 Toluene-d8 (Surr) 106 78 - 122 Dibromofluoromethane (Surr) 94 73 - 120

Lab Sample ID: MB 240-648402/9 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 648402

Prep Type: Total/NA MB MB

Result Qualifier MDL Unit Analyte RL D Prepared Analyzed Dil Fac 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 03/17/25 11:51 1.0 U cis-1,2-Dichloroethene 1.0 0.46 ug/L 03/17/25 11:51 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 03/17/25 11:51 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 03/17/25 11:51 Trichloroethene 1.0 U 1.0 0.44 ug/L 03/17/25 11:51 03/17/25 11:51 Vinyl chloride 1.0 U 1.0 0.45 ug/L

MB MB

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96	62 - 137		03/17/25 11:51	1
4-Bromofluorobenzene (Surr)	89	56 - 136		03/17/25 11:51	1
Toluene-d8 (Surr)	96	78 - 122		03/17/25 11:51	1
Dibromofluoromethane (Surr)	91	73 - 120		03/17/25 11:51	1

Lab Sample ID: LCS 240-648402/5 Client Sample ID: Lab Control Sample Prep Type: Total/NA **Matrix: Water**

Analysis Batch: 648402

	Spike	LCS	LCS			%Rec	
Analyte	Added	Result	Qualifier	Unit I	D %Rec	Limits	
1,1-Dichloroethene	20.0	18.3		ug/L	91	63 - 134	
cis-1,2-Dichloroethene	20.0	17.9		ug/L	89	77 - 123	
Tetrachloroethene	20.0	18.4		ug/L	92	76 - 123	
trans-1,2-Dichloroethene	20.0	17.5		ug/L	88	75 - 124	
Trichloroethene	20.0	17.8		ug/L	89	70 - 122	
Vinyl chloride	20.0	16.4		ug/L	82	60 - 144	

LCS LCS

Surrogate	%Recovery Qualific	er Limits
1,2-Dichloroethane-d4 (Surr)	92	62 - 137
4-Bromofluorobenzene (Surr)	98	56 - 136
Toluene-d8 (Surr)	100	78 - 122
Dibromofluoromethane (Surr)	92	73 - 120

Lab Sample ID: 240-219864-C-3 MS

Matrix: Water

Analysis Batch: 648402

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	2.4	J	80.0	71.4		ug/L		86	56 - 135	
cis-1,2-Dichloroethene	4.0	U	80.0	69.5		ug/L		87	66 - 128	
Tetrachloroethene	11		80.0	82.8		ug/L		90	62 - 131	

Eurofins Cleveland

3/20/2025

Prep Type: Total/NA

Client Sample ID: Matrix Spike

Page 15 of 24

Client: Arcadis US Inc. Job ID: 240-220133-1

Project/Site: Ford LTP

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

Lab Sample ID: 240-219864-C-3 MS **Matrix: Water**

Analysis Batch: 648402

Client Sample ID: Matrix Spike

Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
trans-1,2-Dichloroethene	4.0	U	80.0	69.4		ug/L		87	56 - 136	
Trichloroethene	53		80.0	121		ug/L		85	61 - 124	
Vinyl chloride	4.0	U	80.0	63.2		ug/L		79	43 - 157	

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	96		56 - 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	92		73 - 120

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Lab Sample ID: 240-219864-C-3 MSD

Matrix: Water

Analysis Batch: 648402

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	2.4	J	80.0	71.7		ug/L		87	56 - 135	0	26
cis-1,2-Dichloroethene	4.0	U	80.0	69.4		ug/L		87	66 - 128	0	14
Tetrachloroethene	11		80.0	81.8		ug/L		89	62 - 131	1	20
trans-1,2-Dichloroethene	4.0	U	80.0	68.3		ug/L		85	56 - 136	2	15
Trichloroethene	53		80.0	120		ug/L		83	61 - 124	1	15
Vinyl chloride	4.0	U	80.0	62.9		ug/L		79	43 - 157	1	24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	98		56 - 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	91		73 - 120

Lab Sample ID: MB 240-648627/9 Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water

Analysis Batch: 648627

_	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/18/25 12:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/18/25 12:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/18/25 12:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/18/25 12:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/18/25 12:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/18/25 12:58	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137		03/18/25 12:58	1
4-Bromofluorobenzene (Surr)	102		56 - 136		03/18/25 12:58	1
Toluene-d8 (Surr)	102		78 - 122		03/18/25 12:58	1
Dibromofluoromethane (Surr)	99		73 - 120		03/18/25 12:58	1

Eurofins Cleveland

Client: Arcadis US Inc.

Job ID: 240-220133-1

Project/Site: Ford LTP

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

Lab Sample ID: LCS 240-648627/5

Matrix: Water

1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene trans-1,2-Dichloroethene Trichloroethene Vinyl chloride

Analyte

Analysis Batch: 648627

Client Sample ID:	Lab Control Sample
	Prep Type: Total/NA

Spike	LCS	LCS				%Rec
Added	Result	Qualifier	Unit	D	%Rec	Limits
20.0	17.6		ug/L	_	88	63 - 134
20.0	17.6		ug/L		88	77 - 123
20.0	19.6		ug/L		98	76 - 123
20.0	18.5		ug/L		92	75 - 124
20.0	18.0		ug/L		90	70 - 122
20.0	19.1		ug/L		96	60 - 144

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		62 - 137
4-Bromofluorobenzene (Surr)	98		56 ₋ 136
Toluene-d8 (Surr)	104		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

Lab Sample ID: 240-220133-3 MS

Client Sample ID: MW-49_030425

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 648627

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	500	U	10000	8600		ug/L		86	56 - 135	
cis-1,2-Dichloroethene	30000		10000	38000		ug/L		85	66 - 128	
Tetrachloroethene	500	U	10000	9770		ug/L		98	62 - 131	
trans-1,2-Dichloroethene	500	U	10000	9200		ug/L		92	56 - 136	
Trichloroethene	500	U	10000	8760		ug/L		88	61 - 124	
Vinyl chloride	7300		10000	17600		ug/L		104	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		62 - 137
4-Bromofluorobenzene (Surr)	100		56 ₋ 136
Toluene-d8 (Surr)	108		78 - 122
Dibromofluoromethane (Surr)	96		73 - 120

Lab Sample ID: 240-220133-3 MSD

Matrix: Water

Client Sample ID: MW-49_030425

Prep Type: Total/NA

Analysis Batch: 648627

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	500	U	10000	8720		ug/L		87	56 - 135	1	26
cis-1,2-Dichloroethene	30000		10000	37900		ug/L		83	66 - 128	0	14
Tetrachloroethene	500	U	10000	9880		ug/L		99	62 - 131	1	20
trans-1,2-Dichloroethene	500	U	10000	9210		ug/L		92	56 - 136	0	15
Trichloroethene	500	U	10000	9210		ug/L		92	61 - 124	5	15
Vinyl chloride	7300		10000	17100		ug/L		99	43 - 157	3	24
Trichloroethene	500		10000	9210		ug/L		92	61 - 124	0 5 3	15

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		62 - 137
4-Bromofluorobenzene (Surr)	98		56 - 136
Toluene-d8 (Surr)	107		78 - 122

Eurofins Cleveland

3/20/2025

Client: Arcadis US Inc. Job ID: 240-220133-1

Project/Site: Ford LTP

Lab Sample ID: 240-220133-3 MSD

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

Matrix: Water

Analysis Batch: 648627

MSD MSD

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 97 73 - 120 Client Sample ID: MW-49_030425

Prep Type: Total/NA

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

Lab Sample ID: MB 240-647989/9 Matrix: Water

Analysis Batch: 647989

MB MB Analyte Result

1,4-Dioxane 2.0 U

84 1,2-Dichloroethane-d4 (Surr)

Client Sample ID: Method Blank

Prep Type: Total/NA

Qualifier RL MDL Unit D Dil Fac Prepared Analyzed 2.0 0.86 ug/L 03/12/25 17:27

MB MB

Surrogate %Recovery Qualifier Limits 68 - 127

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike Duplicate

Analyzed

03/12/25 17:27

Prepared

Lab Sample ID: LCS 240-647989/7 **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 647989

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec 10.0 1,4-Dioxane 9.36 75 - 121 ug/L

LCS LCS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 89

Lab Sample ID: 240-220134-E-2 MS

Matrix: Water

Analysis Batch: 647989

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

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Unit %Rec Limits Result Qualifier 1.4-Dioxane 2.0 U 10.0 9.50 20 - 180 ug/L

> MS MS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 86 68 - 127

Lab Sample ID: 240-220134-E-2 MSD **Matrix: Water**

Analysis Batch: 647989

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 1,4-Dioxane 2.0 U 10.0 9.71 ug/L 97 20 - 180 20

MSD MSD

%Recovery Qualifier Limits Surrogate 68 - 127 1,2-Dichloroethane-d4 (Surr) 83

Eurofins Cleveland

Prep Type: Total/NA

Dil Fac

QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-220133-1

GC/MS VOA

Analysis Batch: 647989

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-220133-2	MW-39_030425	Total/NA	Water	8260D SIM	
240-220133-3	MW-49_030425	Total/NA	Water	8260D SIM	
240-220133-4	MW-07_030425	Total/NA	Water	8260D SIM	
MB 240-647989/9	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-647989/7	Lab Control Sample	Total/NA	Water	8260D SIM	
240-220134-E-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-220134-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 648330

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-220133-1	TRIP BLANK_208	Total/NA	Water	8260D	
240-220133-2	MW-39_030425	Total/NA	Water	8260D	
MB 240-648330/4	Method Blank	Total/NA	Water	8260D	
LCS 240-648330/2	Lab Control Sample	Total/NA	Water	8260D	
240-219879-B-5 MS	Matrix Spike	Total/NA	Water	8260D	
240-219879-B-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 648402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-220133-3	MW-49_030425	Total/NA	Water	8260D	_
240-220133-4	MW-07_030425	Total/NA	Water	8260D	
MB 240-648402/9	Method Blank	Total/NA	Water	8260D	
LCS 240-648402/5	Lab Control Sample	Total/NA	Water	8260D	
240-219864-C-3 MS	Matrix Spike	Total/NA	Water	8260D	
240-219864-C-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 648627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-220133-3	MW-49_030425	Total/NA	Water	8260D	
MB 240-648627/9	Method Blank	Total/NA	Water	8260D	
LCS 240-648627/5	Lab Control Sample	Total/NA	Water	8260D	
240-220133-3 MS	MW-49_030425	Total/NA	Water	8260D	
240-220133-3 MSD	MW-49_030425	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-220133-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_208

Lab Sample ID: 240-220133-1 Date Collected: 03/04/25 00:00 **Matrix: Water**

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed 03/15/25 06:22 Total/NA Analysis 8260D 648330 AJS EET CLE

Client Sample ID: MW-39 030425 Lab Sample ID: 240-220133-2

Matrix: Water

Date Collected: 03/04/25 10:25 Date Received: 03/08/25 08:00

Date Received: 03/08/25 08:00

Batch Batch Dilution Batch Prepared Prep Type Method Factor Number Analyst or Analyzed Туре Run Lab 8260D 648330 AJS EET CLE 03/15/25 10:14 Total/NA Analysis Total/NA 8260D SIM 647989 EET CLE 03/12/25 19:01 Analysis 1 R5XG

Client Sample ID: MW-49 030425 Lab Sample ID: 240-220133-3

Date Collected: 03/04/25 11:50 **Matrix: Water**

Date Received: 03/08/25 08:00

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** or Analyzed Lab 03/18/25 15:04 Total/NA 8260D MDH Analysis 500 648627 EET CLE Total/NA 8260D 03/17/25 20:04 Analysis 100 648402 AJS EET CLE 8260D SIM 03/12/25 19:24 Total/NA Analysis 1 647989 R5XG **EET CLE**

Client Sample ID: MW-07_030425 Lab Sample ID: 240-220133-4

Date Collected: 03/04/25 13:05 **Matrix: Water**

Date Received: 03/08/25 08:00

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed Total/NA 8260D 648402 AJS EET CLE 03/17/25 20:27 Analysis Total/NA Analysis 8260D SIM 1 647989 R5XG EET CLE 03/12/25 19:47

Laboratory References:

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

Eurofins Cleveland

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Accreditation/Certification Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-220133-1

Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date				
Connecticut	State	PH-0806	12-31-26				
Georgia	State	4062	02-27-26				
Illinois	NELAP	200004	08-31-25				
lowa	State	421	06-01-25				
Kansas	NELAP	E-10336	01-31-26				
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	04-01-25				
Ohio	State	8303	11-04-25				
Ohio VAP	State	ORELAP 4062	02-28-26				
Oregon	NELAP	4062	02-27-26				
Pennsylvania	NELAP	68-00340	03-18-25				
Texas	NELAP	T104704517-22-19	08-31-25				
US Fish & Wildlife	US Federal Programs	A26406	02-28-26				
USDA	US Federal Programs	P330-18-00281	01-05-27				
Virginia	NELAP	460175	09-14-25				
West Virginia DEP	State	210	12-31-25				
Wisconsin	State	399167560	08-31-25				

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Chain of Custody Record

TestAmerico

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

Client Contact	Regulat	ory program:		Γ.	DW	Г	NPD	ES		□ RC	RA		ther									7	TestAmerica Laboratorics,
Company Name: Arcadis	Client Project I	Manager: Meg	an Meckl	ey		Site	e Cont	tact: 9	Sama	ntha Sz	paichle	r		La	Cont	act: M	ike De	Monic	0	-			COC No:
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	004 2240				Tal	lanhon	a. 24	9.004	L-2240				Tal	enhon	· 330	497-93	396				+	
ity/State/Zip: Novi, MI, 48377			45			1.61				round 1	ime				cpnon	. 550-		nalv:	es			1	1 of 1 COCs
hone: 248-994-2240	Email: kristoff		caais.con	1					N/P			1		Ì	1	T	ΤŤ			T	TH		
roject Name: Ford LTP	Sampler Name:	1	Pero	(1			Tifdiff.		F 3	weeks													Valk-in client
roject Number: 30206169.0401.03	Method of Ship		~~~	0		\dashv	10 da	У	F 1	weeks weeks		5	اد						¥.				ab sampling
D # US3460021848	Shipping/Track	ing No:				1				2 days I day		(V)	-C/Grab-G	, g	8260D			8260D	3092			3	ob/SDG No:
				Mati	ix	+	Con	tainer	n & P	reservat	ves			826U	-DCE	8	8	oride	ne 8;				
Sample Identification	Sample Date	Sample Time	Air	Sediment	Solid Other:	112504	HNO3	HCI	NaOH	NaOH Unpres	Other:	Filtered Sample (Y / N)	Composite	1,1-DCE 8260D	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM				Sample Specific Notes / Special Instructions:
TRIP BLANK_ 208			1			Ī	П	1	T	T		N	3 :	X X	X	Х	Х	Х				T	1 Trip Blank
MW-39-030425	3/4/25	1025	<i>حا</i>					6	1			N	-	XX	· /~	+	2×	×	×	\top			3 VOAs for 8260D , 3 VOAs for 8260D SIM
MW-49_630425	3/4/25	1150	6	+ +		\dagger	\top	6				W	\pm	× 7	Ť	+-	++	. ×	×	1		十	7
MW-07-030425	3/4/25		4	+ +		\top		(م)				W			T:	T			>			7,	
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Possible Hazard Identification Non-Hazard Clammable Cin Irr	itant Poisc	on B f	Jnknov	vn.						(A fee Client		assesse Disposa					onger ve For		month) Mor	nths			
pecial Instructions/QC Requirements & Comments:												·	Ť		Ì								
ibmit all results through Cadena at jtomalia@cadena evel IV Reporting requested.	co.com. Cadena #E	203728	٥r	Sī	te	3																	
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elinquished by)	Company:	elis	Da	375	1 (Z-	5	120	30)	ived by:	\propto C	K	1	ستست				pany:	DI	7		Į.	Date/Time: 3/7/2/5 /336
elinquished by	Company:	17	Da	te/Time	75	14	w		Recei	ived in l	Laborat	ory by: Y	N	lar	ti	1	Con	npany:	181	25	80		Date/Time: EUL

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	VOA Sample Preservation - Date/Time VOAs Frozen	
	erved. Preservative(s) added/Lot number(s):	
erved in the laboratory	Sample(s) Were further preserved in the la	
	PLE PRESERVATION	\neg
ken container er (Notify PM)	Sample(s) were received with bubble >6 mm in diameter (Notify PM)	
had expired.	19 SAMPLE CONDITION Sample(s) were received after the recommended holding time had expired	
		
Samples processed by:	18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	1
	Concerning	
il Other	Contacted PM Date by via Verbal Voice Mail Other	
	Was a LL Hg or Me Hg trip blank present?	
A	15 Were air bubbles >6 mm in any VOA vials? Larger than this Yes No NA	
A) pH Strip Lot# HC448976	13 Were all preserved sample(s) at the correct pH upon receipt? Yes No (Yes) No (Yes) No	
	If yes, Questions 13-17 have been checked at the originating laboratory	
	*	
No	Were correct bottle(s) used for the test(s) indicated?	
of mah/comp Vinno	Could all bottle labels (ID/Date/Time) be reconciled with the COC? For each sample, does the COC specify preservatives (VNI) # of containers (VNI) and	
	6 Was/were the person(s) who collected the samples clearly identified on the COC? Yes) No	
TOC	Were the custody papers relinquished & signed in the appropriate place?	
VOAs Oil and Grease	Yes M	
	-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/McHg)? -Were tamper/custody seals intact and incompromised?	
A Tests that are not checked for nH hy	2. Were tamper/custody scals on the outside of the cooler(s)? If Yes Quantity (Yes) No NA -Were the scals on the outside of the cooler(s) signed & dated? (Yes) No NA	<u> </u>
Cooler Temp. 4 3 °C	IR GUN # 2 (CF +1) °C) Observed Cooler	
and and an analysis of the second sec	COOLAINT: Wet The Blue Ice Dry Ice Water None Cooler temperature upon receipt See Multiple Cooler Form	
	used. But Ge Wrap Foam Plastic Bag	_
	ars Drop-off Date/Time Storage Location	
Wartin	Cooler Received on 3/8/75 Opened on 3/8/75 FedEx. 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courser Other	
Cooler unpacked by	Site Name	$\overline{}$
	Eurofins = Cleveland Sample Receipt Form/Narrative Eōgin # :	いない

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3/8/2025

Login Container Summary Report

240-220133

3/8/2025 Temperature readings	Logii	Login Container Summary Report	7	240-220133		3/20/2025
Client Sample ID	<u>Lab ID</u>	Container Type	Container pH Temp	TO	Preservation Preservation Added Lot Number	
TRIP BLANK_208	240-220133-A-1	Voa Vial 40ml - Hydrochloric Acid			And the second s	
MW-39_030425	240-220133-A-2	Voa Vial 40ml - Hydrochloric Acid				
MW-39_030425	240-220133-B-2	Voa Vial 40ml - Hydrochloric Acid				
MW-39_030425	240-220133-C-2	Voa Vial 40ml - Hydrochloric Acid				
MW-39_030425	240-220133-D-2	Voa Vial 40ml - Hydrochloric Acid				
MW-39_030425	240-220133-E-2	Voa Viał 40ml - Hydrochloric Acid	distribution of the state of th			
MW-39_030425	240-220133-F-2	Voa Viał 40ml - Hydrochloric Acıd				
MW-49_030425	240-220133-A-3	Voa Vial 40ml - Hydrochloric Acid				
MW-49_030425	240-220133-B-3	Voa Vial 40ml - Hydrochloric Acid			H-1, 177 - 177 - 177 - 177 - 177 - 177 - 177 - 177 - 177 - 177 - 177 - 177 - 177 - 177 - 177 - 177 - 177 - 177	
MW-49_030425	240-220133-C-3	Voa Vial 40ml - Hydrochloric Acid				
MW-49_030425	240-220133-D-3	Voa Vial 40ml - Hydrochloric Acid			***************************************	
MW-49_030425	240-220133-E-3	Voa Vial 40ml - Hydrochloric Acid	distribution space of the specimens of t			
MW-49_030425	240-220133-F-3	Voa Vial 40ml - Hydrochloric Acıd		A	4	
MW-07_030425	240-220133-A-4	Voa Vial 40ml - Hydrochloric Acid	***************************************			
MW-07_030425	240-220133-B-4	Voa Vial 40ml - Hydrochloric Acid				24
MW-07_030425	240-220133-C-4	Voa Vial 40ml - Hydrochloric Acid				4 of
MW-07_030425	240-220133-D-4	Voa Vial 40ml - Hydrochloric Acid				ge 2
MW-07_030425	240-220133-E-4	Voa Vial 40ml - Hydrochloric Acid				Pag
MW-07_030425	240-220133-F-4	Voa Vial 40ml - Hydrochloric Acid				

DATA VERIFICATION REPORT



March 20, 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: 220133-1 Sample date: 2025-03-04

Report received by CADENA: 2025-03-20

Initial Data Verification completed by CADENA: 2025-03-20

Number of Samples:4 Sample Matrices:Water Test Categories:GCMS VOC

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

The following minor QC exceptions or missing information were noted:

LCS - GCMS VOC QC batch LCS recoveries was outlying biased low for the following analyte: CIS-1,2-DICHLOROETHENE. The following client sample results should be considered to be estimated and qualified with UJ flags if non-detect: -001,-002.

GCMS VOC QC batch CCV response outliers as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

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

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
В	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 contaminates) 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.
Е	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 contaminates) 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.

Qualified Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 220133-1

 Sample Name:
 TRIP BLANK_208
 MW-39_030425

 Lab Sample ID:
 2402201331
 2402201332

 Sample Date:
 3/4/2025
 3/4/2025

Report Valid Report Valid
Analyte Cas No. Result Limit Units Qualifier Result Limit Units Qualifier

GC/MS VOC

OSW-8260D

cis-1,2-Dichloroethene 156-59-2 ND 1.0 ug/l UJ ND 1.0 ug/l UJ

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 220133-1

		Sample Name:	TRIP BL	ANK_208	8		MW-39	_030425	i		MW-49	_030425			MW-07 ₋	_030425	i	
		Lab Sample ID:	240220	1331			240220	1332			240220	1333			240220	1334		
		Sample Date:	3/4/202	25			3/4/202	25			3/4/202	25			3/4/202	25		
				Report		Valid		Report		Valid		Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC																		
OSW-8	260D																	
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l		51	100	ug/l	J	ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	UJ	ND	1.0	ug/l	UJ	30000	500	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	100	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l		120	100	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		ND	100	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l		7300	500	ug/l		ND	1.0	ug/l	
<u>OSW-8</u>	260DSIM																	
	1,4-Dioxane	123-91-1					ND	2.0	ug/l		9.6	2.0	ug/l		ND	2.0	ug/l	