PREPARED FOR

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

Generated 2/26/2025 6:59:06 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-219175-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

Generated 2/26/2025 6:59:06 AM

Authorized for release by Michael DelMonico, Project Manager I Michael.DelMonico@et.eurofinsus.com (330)966-9783 Client: Arcadis US Inc. Project/Site: Ford LTP

Laboratory Job ID: 240-219175-1

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	11
QC Sample Results	12
QC Association Summary	14
Lab Chronicle	15
Certification Summary	16
Chain of Custody	17

Definitions/Glossary

Client: Arcadis US Inc.

Job ID: 240-219175-1

Project/Site: Ford LTP

Qualifiers
GC/MS VOA

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

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Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-219175-1 Eurofins Cleveland

Job Narrative 240-219175-1

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 2/20/2025 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.4°C.

GC/MS VOA

Method 8260D: No MS/MSD reported with batch due to potential carry over

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

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Page 5 of 19 2/26/2025

2

Job ID: 240-219175-1

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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219175-1

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: 240-219175-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-219175-1	TRIP BLANK_14	Water	02/18/25 00:00	02/20/25 08:00
240-219175-2	MW-98S_021825	Water	02/18/25 12:00	02/20/25 08:00

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Detection Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219175-1

Client Sample ID: TRIP BLANK_14 Lab Sample ID: 240-219175-1

No Detections.

No Detections.

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-219175-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_14

Date Received: 02/20/25 08:00

Lab Sample ID: 240-219175-1 Date Collected: 02/18/25 00:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/22/25 14:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/22/25 14:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/22/25 14:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/22/25 14:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/22/25 14:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/22/25 14:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	126		62 - 137			-		02/22/25 14:17	1
4-Bromofluorobenzene (Surr)	76		56 ₋ 136					02/22/25 14:17	1
Toluene-d8 (Surr)	92		78 - 122					02/22/25 14:17	1
Dibromofluoromethane (Surr)	113		73 - 120					02/22/25 14:17	1

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-219175-1

Project/Site: Ford LTP

Date Received: 02/20/25 08:00

Client Sample ID: MW-98S_021825

Lab Sample ID: 240-219175-2 Date Collected: 02/18/25 12:00

Matrix: Water

Method: SW846 8260D	SIM - Volatile 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			02/24/25 13:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1,2-Dichloroethane-d4 (Surr)	101		68 - 127					02/24/25 13:20	1
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/22/25 17:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/22/25 17:24	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/22/25 17:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/22/25 17:24	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/22/25 17:24	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/22/25 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	130		62 - 137			-		02/22/25 17:24	1
4-Bromofluorobenzene (Surr)	75		56 ₋ 136					02/22/25 17:24	1
Toluene-d8 (Surr)	90		78 - 122					02/22/25 17:24	1
Dibromofluoromethane (Surr)	118		73 - 120					02/22/25 17:24	1

Surrogate Summary

Client: Arcadis US Inc. Job ID: 240-219175-1 Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

			Percent Sui	rrogate Rec
	DCA	BFB	TOL	DBFM
Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
TRIP BLANK_14	126	76	92	113
MW-98S_021825	130	75	90	118
Lab Control Sample	103	99	106	99
Method Blank	118	80	94	109
	TRIP BLANK_14 MW-98S_021825 Lab Control Sample	Client Sample ID (62-137) TRIP BLANK_14 126 MW-98S_021825 130 Lab Control Sample 103	Client Sample ID (62-137) (56-136) TRIP BLANK_14 126 76 MW-98S_021825 130 75 Lab Control Sample 103 99	Client Sample ID (62-137) (56-136) (78-122) TRIP BLANK_14 126 76 92 MW-98S_021825 130 75 90 Lab Control Sample 103 99 106

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-219175-2	MW-98S_021825	101	
240-219191-B-4 MS	Matrix Spike	101	
240-219191-B-4 MSD	Matrix Spike Duplicate	99	
LCS 240-645836/4	Lab Control Sample	99	
MB 240-645836/6	Method Blank	99	

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

Client: Arcadis US Inc. Job ID: 240-219175-1

Project/Site: Ford LTP

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

Lab Sample ID: MB 240-645741/12

Matrix: Water

Analysis Batch: 645741

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/22/25 12:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/22/25 12:20	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/22/25 12:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/22/25 12:20	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/22/25 12:20	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/22/25 12:20	1

MB MB

Surrogate	%Recovery	Qualifier I	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		62 - 137	_		02/22/25 12:20	1
4-Bromofluorobenzene (Surr)	80	5	56 - 136			02/22/25 12:20	1
Toluene-d8 (Surr)	94	7	78 - 122			02/22/25 12:20	1
Dibromofluoromethane (Surr)	109	7	73 - 120			02/22/25 12:20	1

Lab Sample ID: LCS 240-645741/6

Matrix: Water

Analysis Batch: 645741

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

	Spike	LCS	LCS			%Rec	
Analyte	Added	Result	Qualifier	Unit	D %Rec	Limits	
1,1-Dichloroethene	25.0	24.6		ug/L	98	63 - 134	
cis-1,2-Dichloroethene	25.0	23.9	ı	ug/L	96	77 - 123	
Tetrachloroethene	25.0	26.5	į	ug/L	106	76 - 123	
trans-1,2-Dichloroethene	25.0	25.0		ug/L	100	75 - 124	
Trichloroethene	25.0	22.9	ı	ug/L	92	70 - 122	
Vinyl chloride	25.0	23.2	į	ug/L	93	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	106		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

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

Lab Sample ID: MB 240-645836/6	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total/NA

								a rate ay hear	
Analysis Batch: 645836									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/24/25 12:56	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		68 - 127			-		02/24/25 12:56	1

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Page 12 of 19

QC Sample Results

Client: Arcadis US Inc.

Job ID: 240-219175-1

Project/Site: Ford LTP

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

99

Lab Sample ID: LCS 240-645836/4

1,2-Dichloroethane-d4 (Surr)

Client Sample ID: Lab Control Sample

Matrix: Water Prep Type: Total/NA
Analysis Batch: 645836

 Spike
 LCS
 LCS
 KRec

 Analyte
 Added
 Result
 Qualifier
 Unit
 D
 %Rec
 Limits

1,4-Dioxane 10.0 9.65 ug/L 96 75 - 121

LCS LCS

Surrogate %Recovery Qualifier Limits

Lab Sample ID: 240-219191-B-4 MS Client Sample ID: Matrix Spike

Matrix: Water Prep Type: Total/NA
Analysis Batch: 645836

Sample Sample Spike MS MS %Rec

68 - 127

 Analyte
 Result 1,4-Dioxane
 Qualifier 2.0
 U
 Added 10.0
 Result 9.38
 Qualifier Unit ug/L
 Unit ug/L
 D 9/4 20 - 180

 Surrogate
 %Recovery
 Qualifier
 Limits

 1,2-Dichloroethane-d4 (Surr)
 101
 68 - 127

Lab Sample ID: 240-219191-B-4 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water Prep Type: Total/NA Analysis Batch: 645836

RPD Sample Sample Spike MSD MSD %Rec Qualifier Added Qualifier RPD Analyte Result Result Unit %Rec Limits Limit

1,4-Dioxane 2.0 U 10.0 9.72 ug/L 97 20 - 180 4 20

MSD MSD

Surrogate %Recovery Qualifier Limits

1,2-Dichloroethane-d4 (Surr) 99 68 - 127

2/26/2025

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QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219175-1

GC/MS VOA

Analysis Batch: 645741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219175-1	TRIP BLANK_14	Total/NA	Water	8260D	
240-219175-2	MW-98S_021825	Total/NA	Water	8260D	
MB 240-645741/12	Method Blank	Total/NA	Water	8260D	
LCS 240-645741/6	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 645836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219175-2	MW-98S_021825	Total/NA	Water	8260D SIM	
MB 240-645836/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-645836/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-219191-B-4 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-219191-B-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-219175-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_14

Lab Sample ID: 240-219175-1 Date Collected: 02/18/25 00:00

Matrix: Water

Dilution Batch Batch Batch Prepared Method Prep Type Туре Run Factor **Number Analyst** Lab or Analyzed Total/NA 8260D 645741 MS EET CLE 02/22/25 14:17 Analysis

Client Sample ID: MW-98S_021825

Lab Sample ID: 240-219175-2

Date Collected: 02/18/25 12:00 Date Received: 02/20/25 08:00

Date Received: 02/20/25 08:00

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	645741	MS	EET CLE	02/22/25 17:24
Total/NA	Analysis	8260D SIM		1	645836	R5XG	EET CLE	02/24/25 13:20

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: 240-219175-1

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
lowa	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

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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 Company Name: Arcadis	Regulat	tory program:	•		DW	,		NPDE	S	Į.	RCR	A	1	Other	ļ									TestAmerica Laboratori	es. Inc.
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submit all results through Cadena at jtomalia@cadenaco.c.e.el (V Reporting requested.	om. Cadena #E	203728	8	306	2W 3	ste		120	W																
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	VOA Sample Preservation - "Date/Time VOAs Frozen
were further preserved in the laboratory	Sample(s) v Time preserved. Preservative(s) added/Lot number(s)
	20. SAMPLE PRESERVATION
were received with bubble >6 mm in diameter (Notify PM)	Sample(s) were received with bubble >
ed holding time had expired	PLE CONDITION were received after the recon
page Samples processed by	18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page
	Concerning
via Verbal Voice Mail Other	Contacted PM Date by via Vi
Xes No	16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # <u>Ol 25(40) 3</u> 17 Was a LL Hg or Me Hg trip blank present?
Yes No NA	14 Were VOAs on the COC? 15 Were air bubbles >6 mm in any VOA vials? Larger than this
Yes No (NA) pHStrip Lot# HC448976	If yes, Questions 13-17 have been checked at the originating laboratory 13 Were all preserved sample(s) at the correct pH upon receipt?
Yes (No	11 Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC?
), and sample type of grab/comp(Y)N)? (Yes) No	For each sample, does the COC specify preservatives (Y/N), # of contamers (Y/N), and sample type of grab/comp(Y/N)? Were correct bottle(s) used for the test(s) indicated? Yes No
(Yes) No	
Key No.	•
	D &
Z (2) 3	-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised?
Yes No Tests that are not	2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity
ooler Form C Corrected Cooler Temp 2 4 °C	IR GUN # 13 (CF TO O °C) Observed Cooler Temp. 2 H °C Co
let	COOLANT Wellow Blue Ice Dry Ice Water
	ox Chent Cooler Box
ner Other	Receipt After-hours Drop-off Date/Time Storage Location
JMOROSKO	120125
Cooler unpacked by	Client AKCAD Site Name
Logn#	Eurofins — Cleveland Sample Receipt Form/Narrative

Page 18 of 19

2/20/2025

Login Container Summary Report

240-219175

Temperature readings			2
Client Sample ID	<u>Lab ID</u>	Container Type	Container Preservation Preservation pH Temp Added Lot Number
TRIP BLANK_14	240-219175-A-1	Voa Vial 40ml - Hydrochloric Acıd	
MW-98S_021825	240-219175-A-2	Voa Vıal 40ml - Hydrochloric Acid	
MW-98S_021825	240-219175-B-2	Voa Vial 40ml - Hydrochloric Acid	
MW-98S_021825	240-219175-C-2	Voa Vial 40ml - Hydrochloric Acid	
MW-98S_021825	240-219175-D-2	Voa Vial 40ml - Hydrochloric Acıd	
MW-98S_021825	240-219175-E-2	Voa Vial 40ml - Hydrochloric Acid	
MW-98S_021825	240-219175-F-2	Voa Vial 40ml - Hydrochloric Acıd	Control of the contro

2/26/2025

Page 1 of 1

DATA VERIFICATION REPORT



February 26, 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: 219175-1 Sample date: 2025-02-18

Report received by CADENA: 2025-02-26

Initial Data Verification completed by CADENA: 2025-02-26

Number of Samples:2 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.
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.

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 219175-1

		Sample Name:	TRIP BL	ANK_14			MW-989	5_02182	.5	
		Lab Sample ID:	240219	1751			240219	1752		
		Sample Date:	2/18/20	25			2/18/20	25		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
00/40/40										
GC/MS VOC										
OSW-826	<u>0D</u>									
	1,1-Dichloroethene	75-35-4	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	
	Tetrachloroethene	127-18-4	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	
	Trichloroethene	79-01-6	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	
OSW-826	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-219175-1

CADENA Verification Report: 2025-02-26

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 58376R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-219175-1 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	Lob ID	Matrix	Sample	Parant Sample	Analysis				
Sample ID	Lab ID	Matrix	Collection Date	Parent Sample	voc	VOC SIM			
TRIP BLANK_14	240-219175-1	Water	02/18/2025		Х				
MW-98S_021825	240-219175-2	Water	02/18/2025		X	X			

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

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

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.

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.

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 VALIDATION CHECKLIST FOR VOCs

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

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Febin J S

SIGNATURE:

DATE: March 18, 2025

PEER REVIEW: Andrew Korycinski

DATE: March 19, 2025

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record

TestAmerico

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

Client Contact Company Name: Arcadis	Regulat	tory program:	•		DW	,		NPDE	S		RCR	A	1	Other										TestAmerica Laborator	ies. Inc.
	Client Project	Manager: Meg	an Me	ckley			Site	Site Contact: Samantha Szpaichler Lab				Lab Contact: Mike DelMonico					COC No:								
Address: 28550 Cabot Drive, Suite 500	Telephone: 248-994-2240 T Email: kristoffer.hinskey@arcadis.com				Telephone: 248-994-2240 T					Tel	Telephone: 330-497-9396														
City/State/Zip: Novi, MI, 48377						Analys	s Tur	narou	md Tr	mc .				Analyses							1 of 1 COC	s			
Phone: 248-994-2240			Caus.	Com								1111			T	Allalysts								The second secon	
roject Name: Ford LTP	Sampler Name: Jevery Mys/5				TAT	if differe		3 w		_	1											Walk-in client			
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O # US3460021848	Shipping/Track	ang No:									•		Filtered Sample (Y / N)	Composite=C/Grab	1,1-DCE 8260D cis-1,2-DCE 8260D)E 8;			Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM			1	J00/SDG No:	100
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TRIP BLANK_ 14				1				1					N	G :	$x \mid x$	X	Х	Х	Χ					1 Trip Blank	,
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Special Instructions/QC Requirements & Comments:	CL	ROWE						^ -														ĮŲ	10		
Submit all results through Cadena at jtomalia@cadenaco.c.e.evel IV Reporting requested.	om. Cadena #E	203728	8	306	2W 3	ste		120	W																
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Definitions/Glossary

Client: Arcadis US Inc.

Job ID: 240-219175-1

Project/Site: Ford LTP

Qualifiers
GC/MS VOA

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

9

6

8

11

14

Eurofins Cleveland

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-219175-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_14

Date Received: 02/20/25 08:00

Lab Sample ID: 240-219175-1 Date Collected: 02/18/25 00:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/22/25 14:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/22/25 14:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/22/25 14:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/22/25 14:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/22/25 14:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/22/25 14:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	126		62 - 137			-		02/22/25 14:17	1
4-Bromofluorobenzene (Surr)	76		56 ₋ 136					02/22/25 14:17	1
Toluene-d8 (Surr)	92		78 - 122					02/22/25 14:17	1
Dibromofluoromethane (Surr)	113		73 - 120					02/22/25 14:17	1

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-219175-1

Project/Site: Ford LTP

Date Received: 02/20/25 08:00

Client Sample ID: MW-98S_021825

Lab Sample ID: 240-219175-2 Date Collected: 02/18/25 12:00

Matrix: Water

Method: SW846 8260D	SIM - Volatile 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			02/24/25 13:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

1,2-Dichloroethane-d4 (Surr)	101		68 - 127					02/24/25 13:20	1
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/22/25 17:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/22/25 17:24	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/22/25 17:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/22/25 17:24	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/22/25 17:24	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/22/25 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	130		62 - 137			-		02/22/25 17:24	1
4-Bromofluorobenzene (Surr)	75		56 ₋ 136					02/22/25 17:24	1
Toluene-d8 (Surr)	90		78 - 122					02/22/25 17:24	1
Dibromofluoromethane (Surr)	118		73 - 120					02/22/25 17:24	1