PREPARED FOR

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

Generated 3/3/2025 2:42:56 PM Revision 1

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-219261-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

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2

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	
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

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-219261-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA
Qualifier Qualifier Description

E Result exceeded calibration range.

F1 MS and/or MSD recovery exceeds control limits.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U Indicates the analyte was analyzed for but not detected.

Glossary

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

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-219261-1

Eurofins Cleveland

Job ID: 240-219261-1

Job Narrative 240-219261-1

Report revised 3/3/2025 to correct the ID of sample 2.

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 2/21/2025 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 1.3°C.

GC/MS VOA

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

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Method Summary

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

Job ID: 240-219261-1

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: 240-219261-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-219261-1	TRIP BLANK_43	Water	02/19/25 00:00	02/21/25 08:00
240-219261-2	MW-80SR_021925	Water	02/19/25 12:35	02/21/25 08:00
240-219261-3	MW-138S_021925	Water	02/19/25 14:50	02/21/25 08:00
240-219261-4	DUP-12	Water	02/19/25 00:00	02/21/25 08:00
240-219261-5	DUP-08	Water	02/19/25 00:00	02/21/25 08:00

Detection Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219261-1

RIP BLANK_43		Lab San	iple ID: 2	40-219261-1			
N-80SR_021925	5				Lab San	nple ID: 2	40-219261-2
Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
2.0		1.0	0.45	ug/L		8260D	Total/NA
N-138S_021925	Lab Sample ID: 240-219261-3						
Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
0.75	J	1.0	0.45	ug/L		8260D	Total/NA
JP-12					Lab San	nple ID: 2	40-219261-4
Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
0.75	J	1.0	0.45	ug/L		8260D	Total/NA
JP-08					Lab San	ple ID: 2	40-219261-5
	N-80SR_021925 Result 2.0 N-138S_021925 Result 0.75 JP-12 Result	N-80SR_021925 Result Qualifier 2.0	N-80SR_021925 Result Qualifier RL	N-80SR_021925 Result Qualifier RL MDL 1.0 0.45	N-80SR_021925 Result Qualifier RL MDL Unit ug/L	N-80SR_021925 Lab San Result Qualifier RL MDL Unit ug/L 1 N-138S_021925 Lab San Result Qualifier RL MDL Unit ug/L 1 N-138S_021925 Lab San Result Qualifier RL MDL Unit ug/L 1 JP-12 Lab San Result Qualifier RL MDL Unit ug/L 1 Result Qualifier RL MDL Unit ug/L Dil Fac D O.75 J 1.0 0.45 ug/L 1	N-80SR_021925 Lab Sample ID: 2

RL

1.0

MDL Unit

0.45 ug/L

Dil Fac D Method

8260D

Result Qualifier

1.6

This Detection Summary does not include radiochemical test results.

Analyte

Vinyl chloride

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Prep Type

Total/NA

13

Client: Arcadis US Inc. Job ID: 240-219261-1 Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_43

Date Received: 02/21/25 08:00

Lab Sample ID: 240-219261-1 Date Collected: 02/19/25 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			02/24/25 17:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/24/25 17:00	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 17:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/24/25 17:00	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 17:00	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/24/25 17:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137					02/24/25 17:00	1
4-Bromofluorobenzene (Surr)	74		56 - 136					02/24/25 17:00	1
Toluene-d8 (Surr)	85		78 - 122					02/24/25 17:00	1
Dibromofluoromethane (Surr)	98		73 - 120					02/24/25 17:00	1

Client: Arcadis US Inc. Job ID: 240-219261-1 Project/Site: Ford LTP

Client Sample ID: MW-80SR_021925 Lab Sample ID: 240-219261-2

102

Dibromofluoromethane (Surr)

Date Collected: 02/19/25 12:35 **Matrix: Water** Date Received: 02/21/25 08:00

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 00:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		68 - 127					02/25/25 00:49	1
- Method: SW846 8260D - Vo	olatile Organic	Compoun	ds 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 12:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/25/25 12:26	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 12:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/25/25 12:26	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 12:26	1
Vinyl chloride	2.0		1.0	0.45	ug/L			02/25/25 12:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137					02/25/25 12:26	1
4-Bromofluorobenzene (Surr)	105		56 ₋ 136					02/25/25 12:26	1
Toluene-d8 (Surr)	104		78 - 122					02/25/25 12:26	1

73 - 120

02/25/25 12:26

Client: Arcadis US Inc. Job ID: 240-219261-1 Project/Site: Ford LTP

Client Sample ID: MW-138S_021925

Lab Sample ID: 240-219261-3 Date Collected: 02/19/25 14:50 **Matrix: Water**

Date Received: 02/21/25 08:00

Method: SW846 8260D SIN	I - Volatile Org	anic Comp	ounds (GC/M	S)					
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 01:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		68 - 127					02/25/25 01:13	1
Method: SW846 8260D - Vo	olatile Organic	Compoun	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4.4. Distriction of the control				0.40	/1			00/04/05 47 00	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/24/25 17:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/24/25 17:36	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 17:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/24/25 17:36	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 17:36	1
Vinyl chloride	0.75	J	1.0	0.45	ug/L			02/24/25 17:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	F	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137			02/24/25 17:36	1
4-Bromofluorobenzene (Surr)	81		56 - 136			02/24/25 17:36	1
Toluene-d8 (Surr)	90		78 - 122			02/24/25 17:36	1
Dibromofluoromethane (Surr)	104		73 - 120			02/24/25 17:36	1

Client: Arcadis US Inc. Job ID: 240-219261-1 Project/Site: Ford LTP

Client Sample ID: DUP-12 Lab Sample ID: 240-219261-4

Matrix: Water

02/24/25 17:54

Date Collected: 02/19/25 00:00 Date Received: 02/21/25 08:00

Dibromofluoromethane (Surr)

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 01:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		68 - 127					02/25/25 01:37	1
Method: SW846 8260D - Vo	olatile Organic	Compound	ds 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			02/24/25 17:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/24/25 17:54	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 17:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/24/25 17:54	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 17:54	1
Vinyl chloride	0.75	J	1.0	0.45	ug/L			02/24/25 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137					02/24/25 17:54	1
4-Bromofluorobenzene (Surr)	85		56 - 136					02/24/25 17:54	1
Toluene-d8 (Surr)	98		78 ₋ 122					02/24/25 17:54	1

73 - 120

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219261-1

Client Sample ID: DUP-08 Lab Sample ID: 240-219261-5

Date Collected: 02/19/25 00:00 Matrix: Water Date Received: 02/21/25 08:00

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 02:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		68 - 127					02/25/25 02:01	1
Method: SW846 8260D - Vo	Matile Organic	Compound	ds by GC/MS						
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/24/25 18:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/24/25 18:12	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 18:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/24/25 18:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 18:12	1
Vinyl chloride	1.6		1.0	0.45	ug/L			02/24/25 18:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		62 - 137					02/24/25 18:12	1
4-Bromofluorobenzene (Surr)	78		56 - 136					02/24/25 18:12	1
Toluene-d8 (Surr)	87		78 - 122					02/24/25 18:12	1
Dibromofluoromethane (Surr)	98		73 - 120					02/24/25 18:12	1

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Client: Arcadis US Inc.

Job ID: 240-219261-1

Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

			Pe	ercent Surre	gate Recovery (Acce	ptance Limits)
		DCA	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)	
240-219207-B-1 MS	Matrix Spike	110	105	102	105	
240-219207-B-1 MSD	Matrix Spike Duplicate	113	106	102	102	
240-219261-1	TRIP BLANK_43	96	74	85	98	
240-219261-2	MW-80SR_021925	117	105	104	102	
240-219261-3	MW-138S_021925	100	81	90	104	
240-219261-4	DUP-12	101	85	98	108	
240-219261-5	DUP-08	92	78	87	98	
240-219262-A-5 MS	Matrix Spike	90	97	92	98	
240-219262-C-5 MSD	Matrix Spike Duplicate	81	90	88	90	
LCS 240-645818/4	Lab Control Sample	80	95	94	91	
LCS 240-645945/4	Lab Control Sample	115	101	101	104	
MB 240-645818/7	Method Blank	90	92	100	98	
MB 240-645945/7	Method Blank	119	101	99	101	

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)	
240-219215-A-4 MS	Matrix Spike	101	
240-219215-A-4 MSD	Matrix Spike Duplicate	101	
240-219261-2	MW-80SR_021925	84	
240-219261-3	MW-138S_021925	83	
240-219261-4	DUP-12	81	
240-219261-5	DUP-08	83	
LCS 240-645906/4	Lab Control Sample	106	
MB 240-645906/5	Method Blank	105	

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

Eurofins Cleveland

Client: Arcadis US Inc. Job ID: 240-219261-1

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

Lab Sample ID: MB 240-645818/7

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 645818

Client Sample ID: Method Blank Prep Type: Total/NA

MB MB Result Qualifier RL **MDL** Unit Dil Fac Analyte D Prepared Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 02/24/25 13:43 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 02/24/25 13:43 1.0 U Tetrachloroethene 1.0 0.44 ug/L 02/24/25 13:43 0.51 ug/L trans-1,2-Dichloroethene 1.0 U 1.0 02/24/25 13:43 Trichloroethene 1.0 U 1.0 0.44 ug/L 02/24/25 13:43 Vinyl chloride 1.0 0.45 ug/L 02/24/25 13:43 1.0 U

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 90 1,2-Dichloroethane-d4 (Surr) 62 - 137 02/24/25 13:43 4-Bromofluorobenzene (Surr) 92 56 - 136 02/24/25 13:43 100 78 - 122 Toluene-d8 (Surr) 02/24/25 13:43 Dibromofluoromethane (Surr) 98 73 - 120 02/24/25 13:43

Lab Sample ID: LCS 240-645818/4

Matrix: Water

Analysis Batch: 645818

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits 25.0 100 63 - 134 1,1-Dichloroethene 25.1 ug/L cis-1,2-Dichloroethene 25.0 25.1 100 ug/L 77 - 123 Tetrachloroethene 22.1 25.0 ug/L 88 76 - 123 trans-1,2-Dichloroethene 25.0 24.9 ug/L 99 75 - 124 Trichloroethene 25.0 24.2 97 70 - 122 ug/L Vinyl chloride 12.5 12.4 ug/L 99 60 - 144

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 80 62 - 137 4-Bromofluorobenzene (Surr) 95 56 - 136 Toluene-d8 (Surr) 78 - 122 73 - 120 Dibromofluoromethane (Surr) 91

Lab Sample ID: 240-219262-A-5 MS

Matrix: Water

Analysis Batch: 645818

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	
1,1-Dichloroethene	1.0	U	25.0	20.3		ug/L		81	56 - 135	
cis-1,2-Dichloroethene	1.0	U	25.0	22.3		ug/L		89	66 - 128	
Tetrachloroethene	1.0	U	25.0	18.2		ug/L		73	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	21.7		ug/L		87	56 - 136	
Trichloroethene	1.0	U	25.0	21.0		ug/L		84	61 - 124	
Vinyl chloride	1.8		12.5	12.3		ug/L		84	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		62 - 137
4-Bromofluorobenzene (Surr)	97		56 - 136
Toluene-d8 (Surr)	92		78 - 122

Eurofins Cleveland

Job ID: 240-219261-1

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

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

Lab Sample ID: 240-219262-A-5 MS

Matrix: Water

Analysis Batch: 645818

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

Limits Surrogate %Recovery Qualifier Dibromofluoromethane (Surr) 98 73 - 120

Lab Sample ID: 240-219262-C-5 MSD

Matrix: Water

Analysis Batch: 645818

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0	U	25.0	22.0		ug/L		88	56 - 135	8	26
cis-1,2-Dichloroethene	1.0	U	25.0	22.4		ug/L		90	66 - 128	0	14
Tetrachloroethene	1.0	U	25.0	19.1		ug/L		76	62 - 131	5	20
trans-1,2-Dichloroethene	1.0	U	25.0	22.3		ug/L		89	56 - 136	3	15
Trichloroethene	1.0	U	25.0	22.2		ug/L		89	61 - 124	5	15
Vinyl chloride	1.8		12.5	13.0		ug/L		89	43 - 157	6	24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	81		62 - 137
4-Bromofluorobenzene (Surr)	90		56 - 136
Toluene-d8 (Surr)	88		78 - 122
Dibromofluoromethane (Surr)	90		73 - 120

Client Sample ID: Method Blank Prep Type: Total/NA

Analysis Batch: 645945

Matrix: Water

Lab Sample ID: MB 240-645945/7

	IVID	IVID							
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 10:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/25/25 10:54	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 10:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/25/25 10:54	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 10:54	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/25/25 10:54	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119	62 - 137		02/25/25 10:54	1
4-Bromofluorobenzene (Surr)	101	56 ₋ 136		02/25/25 10:54	1
Toluene-d8 (Surr)	99	78 - 122		02/25/25 10:54	1
Dibromofluoromethane (Surr)	101	73 - 120	C	02/25/25 10:54	1

Lab Sample ID: LCS 240-645945/4

Matrix: Water

Analysis Batch: 645945

Client Sample ID: Lab Con	itrol Sample
Prep Ty	pe: Total/NA

Analysis Baton: 646646	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	23.5		ug/L		94	63 - 134	
cis-1,2-Dichloroethene	25.0	25.3		ug/L		101	77 - 123	
Tetrachloroethene	25.0	23.4		ug/L		94	76 - 123	
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	75 - 124	
Trichloroethene	25.0	24.6		ug/L		99	70 - 122	

Eurofins Cleveland

Page 16 of 24

Client: Arcadis US Inc. Job ID: 240-219261-1

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

100 100

Lab Sample ID: LCS 240-645945/4

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 645945

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit D %Rec Vinyl chloride 12.5 12.0 ug/L 96 60 - 144

Limits

LUS	LUS	
%Recovery	Qualifier	Limits
115		62 - 137
101		56 - 136
101		78 - 122
104		73 - 120
	%Recovery 115 101 101	101 101

Client Sample ID: Matrix Spike

Prep Type: Total/NA

10

Lab Sample ID: 240-219207-B-1 MS **Matrix: Water**

Analysis Batch: 645945

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 1,1-Dichloroethene 1.0 U 25.0 22.6 91 56 - 135 ug/L cis-1,2-Dichloroethene 70 E F1 25.0 90.6 E 81 66 - 128 ug/L Tetrachloroethene 1.0 U 25.0 22.1 ug/L 88 62 - 131 trans-1,2-Dichloroethene 0.67 J 25.0 24.0 93 56 - 136 ug/L Trichloroethene 25.0 23.0 92 1.0 U ug/L 61 - 124Vinyl chloride 1.3 12.5 11.9 ug/L 84 43 - 157

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	110		62 - 137
4-Bromofluorobenzene (Surr)	105		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	105		73 - 120

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Lab Sample ID: 240-219207-B-1 MSD

Matrix: Water

Analysis Batch: 645945

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0	U	25.0	21.7		ug/L		87	56 - 135	4	26
cis-1,2-Dichloroethene	70	E F1	25.0	86.5	E F1	ug/L		65	66 - 128	5	14
Tetrachloroethene	1.0	U	25.0	22.3		ug/L		89	62 - 131	1	20
trans-1,2-Dichloroethene	0.67	J	25.0	22.1		ug/L		86	56 - 136	8	15
Trichloroethene	1.0	U	25.0	21.0		ug/L		84	61 - 124	9	15
Vinyl chloride	1.3		12.5	11.0		ug/L		77	43 - 157	7	24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		62 - 137
4-Bromofluorobenzene (Surr)	106		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	102		73 - 120

Eurofins Cleveland

Job ID: 240-219261-1

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

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

Lab Sample ID: MB 240-645906/5 **Client Sample ID: Method Blank** Prep Type: Total/NA

Matrix: Water

Analyte

1,4-Dioxane

Analysis Batch: 645906

MB MB Result Qualifier RL **MDL** Unit Analyzed Dil Fac D Prepared 02/24/25 18:02

0.86 ug/L

2.0 U MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 68 - 127 02/24/25 18:02 1,2-Dichloroethane-d4 (Surr) 105

2.0

Lab Sample ID: LCS 240-645906/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 645906

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 75 - 121 10.0 9.39 ug/L

LCS LCS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 106

Lab Sample ID: 240-219215-A-4 MS **Client Sample ID: Matrix Spike** Prep Type: Total/NA

Matrix: Water

Analysis Batch: 645906

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 2.0 U 1,4-Dioxane 10.0 10.3 ug/L 103 20 - 180

MS MS

Surrogate Qualifier Limits %Recovery

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

Lab Sample ID: 240-219215-A-4 MSD

Matrix: Water

Analysis Batch: 645906

Sample Sample Spike MSD MSD %Rec **RPD** Added Analyte Result Qualifier Result Qualifier Limits Limit Unit D %Rec RPD 1,4-Dioxane 2.0 U 10.0 9.72 ug/L 97 20 - 180

MSD MSD

%Recovery Qualifier Limits Surrogate 1,2-Dichloroethane-d4 (Surr) 68 - 127 101

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219261-1

GC/MS VOA

Analysis Batch: 645818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219261-1	TRIP BLANK_43	Total/NA	Water	8260D	
240-219261-3	MW-138S_021925	Total/NA	Water	8260D	
240-219261-4	DUP-12	Total/NA	Water	8260D	
240-219261-5	DUP-08	Total/NA	Water	8260D	
MB 240-645818/7	Method Blank	Total/NA	Water	8260D	
LCS 240-645818/4	Lab Control Sample	Total/NA	Water	8260D	
240-219262-A-5 MS	Matrix Spike	Total/NA	Water	8260D	
240-219262-C-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 645906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219261-2	MW-80SR_021925	Total/NA	Water	8260D SIM	-
240-219261-3	MW-138S_021925	Total/NA	Water	8260D SIM	
240-219261-4	DUP-12	Total/NA	Water	8260D SIM	
240-219261-5	DUP-08	Total/NA	Water	8260D SIM	
MB 240-645906/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-645906/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-219215-A-4 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-219215-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 645945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-219261-2	MW-80SR_021925	Total/NA	Water	8260D	
MB 240-645945/7	Method Blank	Total/NA	Water	8260D	
LCS 240-645945/4	Lab Control Sample	Total/NA	Water	8260D	
240-219207-B-1 MS	Matrix Spike	Total/NA	Water	8260D	
240-219207-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Job ID: 240-219261-1

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

Client Sample ID: TRIP BLANK_43

Date Collected: 02/19/25 00:00 Date Received: 02/21/25 08:00 Lab Sample ID: 240-219261-1

Matrix: Water

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	645818	LEE	EET CLE	02/24/25 17:00

Date Collected: 02/19/25 12:35

Matrix: Water

Date Received: 02/21/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	645945	LEE	EET CLE	02/25/25 12:26
Total/NA	Analysis	8260D SIM		1	645906	CS	EET CLE	02/25/25 00:49

Date Collected: 02/19/25 14:50

Matrix: Water

Date Received: 02/21/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	645818	LEE	EET CLE	02/24/25 17:36
Total/NA	Analysis	8260D SIM		1	645906	CS	EET CLE	02/25/25 01:13

Client Sample ID: DUP-12 Lab Sample ID: 240-219261-4

Date Collected: 02/19/25 00:00 Date Received: 02/21/25 08:00 Matrix: Water

Batch Batch Dilution **Batch** Prepared Type Method Run **Factor** Number Analyst or Analyzed **Prep Type** Lab Total/NA 8260D 645818 LEE **EET CLE** 02/24/25 17:54 Analysis Total/NA Analysis 8260D SIM 1 645906 CS **EET CLE** 02/25/25 01:37

Client Sample ID: DUP-08 Lab Sample ID: 240-219261-5

Date Collected: 02/19/25 00:00

Date Received: 02/21/25 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D			645818	LEE	EET CLE	02/24/25 18:12
Total/NA	Analysis	8260D SIM		1	645906	CS	EET CLE	02/25/25 02:01

Laboratory References:

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

Eurofins Cleveland

Matrix: Water

Accreditation/Certification Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219261-1

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	02-27-25
Ohio	State	8303	11-04-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	02-27-25
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

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Client Contact	Regulat	ory program:			DW			NPI			R			Oth	_										181	E CEADER IN EN	VIRORMENTAL TEST	
Company Name: Arcadis																											Laboratories, Ir	<u>c.</u>
Address: 28550 Cabot Drive, Suite 500	Client Project 1	Manager: Meg	an Me	ckley			Site	Con	tact:	Samai	ntha S	zpaich	ler			Lab (Conta	ct: Mi	ke De	Moni	co					COC No:		
	Telephone: 248	-994-2240					Tele	pho	ne: 24	8-994	-2240					Telep	hone:	330-	197-93	96						1 of	1 COCs	7
City/State/Zip: Novi, M1, 48377	Email: kristoff	er.hinskey@ar	cadis.	com				Anal	yris	urna	round	Time							À	naly	ses			\equiv		For lab use only		
Phone: 248-994-2240							TAT	C . C . L . C	Y	rom bele		_	7	1												Walk-in client	W. T. Committee	4
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Sample Identification	Sample Date	Sample Time	Air	Aqueous	Sediment Solid	Other:	H2SO4	HN03	HCI	NaOH ZoAc/	NaOH	Other:	Filtered Sample (Y / N)	Composite-C/Grab-G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D						Specific Notes / I Instructions:	ľ
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Page 22 of 24

3/3/2025 (Rev. 1)

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Cooler unpacked by:	Site Name	Client Arradis
		Barberton Facility
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Cooler temperature upon receipt COOLANT Wet Too Blue Ice Dry Ice Water None

(CF 100 Ğ Observed Cooler Temp. See Multiple Cooler Form °C Corrected Cooler Temp س

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'n Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity -Were the seals on the outside of the cooler(s) signed & dated? X checked for pH by Tests that are not

Shippers' packing slip attached to the cooler(s)? -Were tamper/custody seals intact and uncompromised?

-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?

X

Receiving:

Oil and Grease

Did custody papers accompany the sample(s)?

Were the custody papers relinquished & signed in the appropriate place?

9 Was/were the person(s) who collected the samples clearly identified on the COC?

Did all bottles arrive in good condition (Unbroken)?

Could all bottle labels (ID/Date/Time) be reconciled with the COC?

For each sample, does the COC specify preservatives (DN), # of containers (DN), and sample type of grab/comp(DN)?
Were correct bottle(s) used for the test(s) indicated?
Sufficient quantity received to perform indicated analyses?

(es) No

Sufficient quantity received to perform indicated analyses?

Are these work share samples and all listed on the COC?

Yes (M)

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pH Strip Lo# HC448976

X

If yes, Questions 13-17 have been checked at the originating laboratory

¥ 13 15 Were all preserved sample(s) at the correct pH upon receipt? Were air bubbles >6 mm in any VOA vials? Were VOAs on the COC?

Was a VOA trip blank present in the cooler(s)?

Was a LL Hg or Me Hg trip blank present?

Trip Blank Lot # 0125601

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Contacted PM Concerning Date via Verbal Voice Mail Other

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by

19 SAMPLE CONDITION

Sample(s) Sample(s) were received after the recommended holding time had expired were received in a broken contamer

Sample(s) were received with bubble >6 mm in diameter (Notify PM)

20. SAMPLE PRESERVATION

VOA Sample Preservation -Time preserved. Sample(s) Date/Time VOAs Frozen Preservative(s) added/Lot number(s): were further preserved in the laboratory

2/21/2025

Login Container Summary Report

240-219261

DUP-08 DUP-08 DUP-08 DUP-08 DUP-12 DUP-12 **DUP-12 DUP-12** DUP-12 DUP-12 MW-805R_021925 MW-138S_021925 MW-138S_021925 MW-138S_021925 MW-138S_021925 MW-805R_021925 MW-805R_021925 MW-805R_021925 MW-805R_021925 MW-805R_021925 Client Sample ID MW-138S_021925 MW-138S_021925 TRIP BLANK_43 DUP-08 Temperature readings Lab ID 240-219261-E-5 240-219261-D-5 240-219261-C-5 240-219261-B-5 240-219261-A-5 240-219261-F-4 240-219261-E-4 240-219261-D-4 240-219261-C-4 240-219261-B-4 240-219261-A-4 240-219261-F-3 240-219261-E-3 240-219261-D-3 240-219261-C-3 240-219261-B-3 240-219261-A-3 240-219261-F-2 240-219261-E-2 240-219261-D-2 240-219261-C-2 240-219261-B-2 240-219261-A-2 240-219261-A-1 Voa Vial 40ml - Hydrochloric Acid Container Type Voa Vial 40ml - Hydrochloric Acid Voa Vial 40ml - Hydrochloric Acid Voa Vial 40ml - Hydrochloric Acıd Voa Vial 40ml - Hydrochloric Acid Voa Vial 40ml - Hydrochloric Acıd Voa Vial 40ml - Hydrochloric Acid Voa Vial 40ml - Hydrochloric Acıd Voa Vial 40ml - Hydrochloric Acid Voa Vial 40ml - Hydrochloric Acıd Voa Vial 40ml - Hydrochloric Acid Voa Vial 40ml - Hydrochloric Acid Container pH Temp Temp Added Preservation Preservation Lot Number 3/3/2025 (Rev. 1)

DUP-08

240-219261-F-5

Voa Vial 40ml - Hydrochloric Acid

DATA VERIFICATION REPORT



March 3, 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: 219261-1 Sample date: 2025-02-19

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.

Revision: Sample -002 ID correction.

The following minor QC exceptions or missing information were noted:

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 OC 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.

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.

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 219261-1

		Sample Name:	TRIP BL	ANK_43			MW-808	SR_0219	25		MW-138	3S_0219	925		DUP-12				DUP-08			
		Lab Sample ID:	240219	2611			240219	2612			240219	2613			240219	2614			240219	2615		
		Sample Date:	2/19/20	25			2/19/20	25			2/19/20	25			2/19/20	25			2/19/20	25		
				Report		Valid		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	Result	Limit	Units	Qualifier
GC/MS VOC																						
OSW-8260	0D																					
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		2.0	1.0	ug/l		0.75	1.0	ug/l	J	0.75	1.0	ug/l	J	1.6	1.0	ug/l	
OSW-8260	<u>ODSIM</u>																					
	1,4-Dioxane	123-91-1					ND	2.0	ug/l		ND	2.0	ug/l		ND	2.0	ug/l		ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-219261-1

CADENA Verification Report: 2025-02-28

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 58450R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-219261-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Barant Sampla	Ana	lysis
Sample ID	Labib	WIALTIX	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_43	240-219261-1	Water	02/19/2025		Х	
MW-80SR_021925	240-219261-2	Water	02/19/2025		Х	Х
MW-138S_021925	240-219261-3	Water	02/19/2025		Х	Х
DUP-12	240-219261-4	Water	02/19/2025	MW-138S_021925	Х	X
DUP-08	240-219261-5	Water	02/19/2025	MW-80SR_021925	Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Perfori Accep		Not Required
	No	Yes	No	Yes	Required
Sample receipt condition		Х		X	
2. Requested analyses and sample results		X		Х	
Master tracking list		Х		Х	
4. Methods of analysis		Х		Х	
5. Reporting limits		Х		Х	
6. Sample collection date		Χ		Х	
7. Laboratory sample received date		Χ		Х	
8. Sample preservation verification (as applicable)		Х		Х	
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.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-80SR_021925 / DUP-08	Vinyl chloride	2.0	1.6	AC
MW-138S_021925 / DUP-12	Vinyl chloride	0.75 J	0.75 J	AC

Note:

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

6. Compound Identification

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

All identified compounds met the specified criteria.

7. System Performance and Overall Assessment

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

DATA 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		Х		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		Х		Х	
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 21, 2025

PEER REVIEW: Andrew Korycinski

DATE: March 26, 2025

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

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Chain of Custody Record

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	Telephone: 248	-994-2240					Tele	pho	ne: 24	8-994	-2240					Telep	hone:	330-	197-93	96						1 of	1 COCs	7	
City/State/Zip: Novi, M1, 48377	Email: kristoff	er.hinskey@ar	cadis.	com				Anal	yris	urna	round	Time							À	naly	ses			\equiv		For lab use only			
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Sample Identification	Sample Date	Sample Time	Air	Aqueous	Sediment Solid	Other:	H2SO4	HN03	HCI	NaOH ZoAc/	NaOH	Other:	Filtered Sample (Y / N)	Composite-C/Grab-G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D						Specific Notes / I Instructions:	ľ	
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Page 22 of 24

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-219261-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA
Qualifier Qualifier Description

E Result exceeded calibration range.

F1 MS and/or MSD recovery exceeds control limits.

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

U Indicates the analyte was analyzed for but not detected.

Glossary

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

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Client: Arcadis US Inc. Job ID: 240-219261-1 Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_43

Date Received: 02/21/25 08:00

Lab Sample ID: 240-219261-1 Date Collected: 02/19/25 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			02/24/25 17:00	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/24/25 17:00	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 17:00	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/24/25 17:00	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 17:00	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/24/25 17:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137					02/24/25 17:00	1
4-Bromofluorobenzene (Surr)	74		56 - 136					02/24/25 17:00	1
Toluene-d8 (Surr)	85		78 - 122					02/24/25 17:00	1
Dibromofluoromethane (Surr)	98		73 - 120					02/24/25 17:00	1

Client: Arcadis US Inc. Job ID: 240-219261-1 Project/Site: Ford LTP

Client Sample ID: MW-80SR_021925 Lab Sample ID: 240-219261-2

102

Dibromofluoromethane (Surr)

Date Collected: 02/19/25 12:35 **Matrix: Water** Date Received: 02/21/25 08:00

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 00:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		68 - 127					02/25/25 00:49	1
- Method: SW846 8260D - Vo	olatile Organic	Compoun	ds 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 12:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/25/25 12:26	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 12:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/25/25 12:26	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/25/25 12:26	1
Vinyl chloride	2.0		1.0	0.45	ug/L			02/25/25 12:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137					02/25/25 12:26	1
4-Bromofluorobenzene (Surr)	105		56 ₋ 136					02/25/25 12:26	1
Toluene-d8 (Surr)	104		78 - 122					02/25/25 12:26	1

73 - 120

02/25/25 12:26

Client: Arcadis US Inc. Job ID: 240-219261-1 Project/Site: Ford LTP

Client Sample ID: MW-138S_021925

Lab Sample ID: 240-219261-3 Date Collected: 02/19/25 14:50 **Matrix: Water**

Date Received: 02/21/25 08:00

Method: SW846 8260D SIN	I - Volatile Org	anic Comp	ounds (GC/M	S)					
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 01:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		68 - 127					02/25/25 01:13	1
Method: SW846 8260D - Vo	olatile Organic	Compoun	ds by GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4.4. Dist. I				0.40	/1			00/04/05 47 00	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/24/25 17:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/24/25 17:36	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 17:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/24/25 17:36	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 17:36	1
Vinyl chloride	0.75	J	1.0	0.45	ug/L			02/24/25 17:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Pre	epared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137			02/24/25 17:36	1
4-Bromofluorobenzene (Surr)	81		56 - 136			02/24/25 17:36	1
Toluene-d8 (Surr)	90		78 - 122			02/24/25 17:36	1
Dibromofluoromethane (Surr)	104		73 - 120			02/24/25 17:36	1

Client: Arcadis US Inc. Job ID: 240-219261-1 Project/Site: Ford LTP

Client Sample ID: DUP-12 Lab Sample ID: 240-219261-4

Matrix: Water

02/24/25 17:54

Date Collected: 02/19/25 00:00 Date Received: 02/21/25 08:00

Dibromofluoromethane (Surr)

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 01:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		68 - 127					02/25/25 01:37	1
Method: SW846 8260D - Vo	olatile Organic	Compound	ds 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			02/24/25 17:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/24/25 17:54	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 17:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/24/25 17:54	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 17:54	1
Vinyl chloride	0.75	J	1.0	0.45	ug/L			02/24/25 17:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137					02/24/25 17:54	1
4-Bromofluorobenzene (Surr)	85		56 - 136					02/24/25 17:54	1
Toluene-d8 (Surr)	98		78 ₋ 122					02/24/25 17:54	1

73 - 120

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-219261-1

Client Sample ID: DUP-08 Lab Sample ID: 240-219261-5

Date Collected: 02/19/25 00:00 Matrix: Water Date Received: 02/21/25 08:00

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 02:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		68 - 127					02/25/25 02:01	1
Method: SW846 8260D - Vo	Matile Organic	Compound	ds by GC/MS						
Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/24/25 18:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/24/25 18:12	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 18:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/24/25 18:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/24/25 18:12	1
Vinyl chloride	1.6		1.0	0.45	ug/L			02/24/25 18:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		62 - 137					02/24/25 18:12	1
4-Bromofluorobenzene (Surr)	78		56 - 136					02/24/25 18:12	1
Toluene-d8 (Surr)	87		78 - 122					02/24/25 18:12	1
Dibromofluoromethane (Surr)	98		73 - 120					02/24/25 18:12	1

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