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ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 11/20/2024 12:12:11 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-214801-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



Eurofins Cleveland

Job Notes

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

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

Authorization

Generated 11/20/2024 12:12:11 AM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: Arcadis US Inc. Project/Site: Ford LTP

Laboratory Job ID: 240-214801-1

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-214801-1

Project/Site: Ford LTP

Qualifiers GC/MS VOA

Qualifier **Qualifier Description**

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

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)

Estimated Detection Limit (Dioxin) EDL LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

EPA recommended "Maximum Contaminant Level" MCL 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 **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-214801-1 Eurofins Cleveland

Job Narrative 240-214801-1

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 11/13/2024 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 2.9°C.

GC/MS VOA

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

Eurofins Cleveland

Job ID: 240-214801-1

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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-214801-1

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: 240-214801-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-214801-1	TRIP BLANK_51	Water	11/08/24 00:00	11/13/24 08:00
240-214801-2	MW-183S_110824	Water	11/08/24 09:15	11/13/24 08:00

1

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Detection Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-214801-1

Client Sample ID: TRIP BLANK_51 Lab Sample ID: 240-214801-1

No Detections.

No Detections.

1

-0

4

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7

0

4.6

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Client Sample Results

Client: Arcadis US Inc. Job ID: 240-214801-1

Project/Site: Ford LTP

Date Received: 11/13/24 08:00

Client Sample ID: TRIP BLANK_51

Lab Sample ID: 240-214801-1 Date Collected: 11/08/24 00:00

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 1.0 1,1-Dichloroethene 1.0 U 0.49 ug/L 11/18/24 21:29 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 11/18/24 21:29 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 11/18/24 21:29 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 11/18/24 21:29 Trichloroethene 1.0 U 1.0 0.44 ug/L 11/18/24 21:29 Vinyl chloride 0.45 ug/L 1.0 U 1.0 11/18/24 21:29 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 109 62 - 137 11/18/24 21:29 4-Bromofluorobenzene (Surr) 76 11/18/24 21:29 56 - 136 89 78 - 122 Toluene-d8 (Surr) 11/18/24 21:29 Dibromofluoromethane (Surr) 98 73 - 120 11/18/24 21:29

Eurofins Cleveland

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-214801-1

Project/Site: Ford LTP

Vinyl chloride

Surrogate

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: MW-183S_110824

Date Collected: 11/08/24 09:15 Date Received: 11/13/24 08:00 Lab Sample ID: 240-214801-2

11/18/24 21:49

Analyzed 11/18/24 21:49

11/18/24 21:49

11/18/24 21:49

11/18/24 21:49

Prepared

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/18/24 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		68 - 127			-		11/18/24 16:02	1
Method: SW846 8260D - Vola	•	_							
	•	ounds by G Qualifier	C/MS RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	•	Qualifier		MDL 0.49		<u>D</u> .	Prepared	Analyzed 11/18/24 21:49	Dil Fac
Analyte 1,1-Dichloroethene	Result	Qualifier U	RL		ug/L	<u> </u>	Prepared	·	Dil Fac
Analyte 1,1-Dichloroethene	Result 1.0	Qualifier U U	RL	0.49	ug/L ug/L	<u>D</u> -	Prepared	11/18/24 21:49	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene	Result 1.0 1.0	Qualifier U U U	1.0 1.0	0.49 0.46	ug/L ug/L ug/L	<u> </u>	Prepared	11/18/24 21:49 11/18/24 21:49	Dil Fac 1 1 1 1

1.0

Limits

62 - 137

56 - 136

78 - 122

73 - 120

0.45 ug/L

1.0 U

%Recovery Qualifier

116

78

91

104

13

Dil Fac

Surrogate Summary

Client: Arcadis US Inc.

Job ID: 240-214801-1

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
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-214800-B-2 MS	Matrix Spike	107	94	94	97
240-214800-E-2 MSD	Matrix Spike Duplicate	106	91	91	94
240-214801-1	TRIP BLANK_51	109	76	89	98
240-214801-2	MW-183S_110824	116	78	91	104
LCS 240-635744/4	Lab Control Sample	106	88	94	99
MB 240-635744/7	Method Blank	116	89	97	104

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)	
240-214801-2	MW-183S_110824	98	
240-214803-A-5 MS	Matrix Spike	104	
240-214803-A-5 MSD	Matrix Spike Duplicate	105	
LCS 240-635649/5	Lab Control Sample	105	
MB 240-635649/7	Method Blank	103	
Surrogate Legend			

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

Eurofins Cleveland

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Client: Arcadis US Inc. Job ID: 240-214801-1

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

Lab Sample ID: MB 240-635744/7

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 635744

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

Prep Type: Total/NA

	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			11/18/24 20:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/18/24 20:49	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/18/24 20:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/18/24 20:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/18/24 20:49	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/18/24 20:49	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 11/18/24 20:49 116 4-Bromofluorobenzene (Surr) 89 56 - 136 11/18/24 20:49 11/18/24 20:49 Toluene-d8 (Surr) 97 78 - 122 Dibromofluoromethane (Surr) 104 73 - 120 11/18/24 20:49

Lab Sample ID: LCS 240-635744/4

Matrix: Water

Analysis Batch: 635744

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	29.8		ug/L		119	63 - 134	
cis-1,2-Dichloroethene	25.0	27.6		ug/L		110	77 - 123	
Tetrachloroethene	25.0	26.3		ug/L		105	76 - 123	
trans-1,2-Dichloroethene	25.0	29.4		ug/L		118	75 - 124	
Trichloroethene	25.0	25.6		ug/L		102	70 - 122	
Vinyl chloride	12.5	9.80		ug/L		78	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 106 62 - 137 4-Bromofluorobenzene (Surr) 56 - 136 88 Toluene-d8 (Surr) 94 78 - 122 73 - 120 Dibromofluoromethane (Surr) 99

Lab Sample ID: 240-214800-B-2 MS

Matrix: Water

Analysis Batch: 635744

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	25.8		ug/L		103	56 - 135	
cis-1,2-Dichloroethene	1.0	U	25.0	24.5		ug/L		98	66 - 128	
Tetrachloroethene	1.0	U	25.0	23.7		ug/L		95	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	25.6		ug/L		102	56 - 136	
Trichloroethene	1.0	U	25.0	22.7		ug/L		91	61 - 124	
Vinyl chloride	1.0	U	12.5	9.28		ug/L		74	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		62 - 137
4-Bromofluorobenzene (Surr)	94		56 - 136
Toluene-d8 (Surr)	94		78 - 122

Eurofins Cleveland

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Job ID: 240-214801-1

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

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

Lab Sample ID: 240-214800-B-2 MS

Matrix: Water

Analysis Batch: 635744

Dibromofluoromethane (Surr)

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS Surrogate %Recovery Qualifier

Limits 97 73 - 120

MR MR

103

Lab Sample ID: 240-214800-E-2 MSD

Matrix: Water

Analysis Batch: 635744

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	26.0		ug/L		104	56 - 135	1	26
cis-1,2-Dichloroethene	1.0	U	25.0	24.7		ug/L		99	66 - 128	1	14
Tetrachloroethene	1.0	U	25.0	22.4		ug/L		90	62 - 131	6	20
trans-1,2-Dichloroethene	1.0	U	25.0	25.3		ug/L		101	56 - 136	1	15
Trichloroethene	1.0	U	25.0	22.4		ug/L		89	61 - 124	1	15
Vinyl chloride	1.0	U	12.5	9.60		ug/L		77	43 - 157	3	24

MSD MSD Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 106 62 - 137 4-Bromofluorobenzene (Surr) 91 56 - 136 Toluene-d8 (Surr) 91 78 - 122 Dibromofluoromethane (Surr) 94 73 - 120

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

Lab Sample ID: MB 240-635649/7

Matrix: Water

Analysis Batch: 635649

Client Sample ID: Method Blank

11/18/24 11:21

Prep Type: Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/18/24 11:21	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

68 - 127

Lab Sample ID: LCS 240-635649/5

Matrix: Water

Analyte

1,4-Dioxane

Analysis Batch: 635649

1,2-Dichloroethane-d4 (Surr)

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

Spike LCS LCS %Rec Added Result Qualifier Unit %Rec Limits 10.0 8.34 ug/L 83 75 - 121

LCS LCS %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 105

Lab Sample ID: 240-214803-A-5 MS

Matrix: Water

Analysis Batch: 635649

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	
1,4-Dioxane	0.92	J	10.0	9.85		ug/L	_	89	20 - 180	

Eurofins Cleveland

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11/20/2024

QC Sample Results

Client: Arcadis US Inc. Job ID: 240-214801-1

Project/Site: Ford LTP

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

%Recovery Qualifier

105

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		68 - 127

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Lab Sample	ID: 240-214803-A-5	MSD

Matrix: Water

Surrogate

Analysis Batch: 635649

1,2-Dichloroethane-d4 (Surr)

7 , 0.0 _	Sample	Sample	Spike	MSD	MSD				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
1,4-Dioxane	0.92	J	10.0	8.91		ug/L		80	20 - 180	10
	MSD	MSD								

Limits

68 - 127

Prep Type: Total/NA

Client Sample ID: Matrix Spike Duplicate

RPD

Limit

QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-214801-1

GC/MS VOA

Analysis Batch: 635649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-214801-2	MW-183S_110824	Total/NA	Water	8260D SIM	
MB 240-635649/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-635649/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-214803-A-5 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-214803-A-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 635744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-214801-1	TRIP BLANK_51	Total/NA	Water	8260D	
240-214801-2	MW-183S_110824	Total/NA	Water	8260D	
MB 240-635744/7	Method Blank	Total/NA	Water	8260D	
LCS 240-635744/4	Lab Control Sample	Total/NA	Water	8260D	
240-214800-B-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-214800-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis US Inc. Job ID: 240-214801-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_51

Lab Sample ID: 240-214801-1 Date Collected: 11/08/24 00:00

Matrix: Water

Date Received: 11/13/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	635744	LEE	EET CLE	11/18/24 21:29

Client Sample ID: MW-183S_110824 Lab Sample ID: 240-214801-2

Date Collected: 11/08/24 09:15 Matrix: Water

Date Received: 11/13/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	635744	LEE	EET CLE	11/18/24 21:49
Total/NA	Analysis	8260D SIM		1	635649	R5XG	EET CLE	11/18/24 16:02

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: 240-214801-1

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
owa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
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	12-31-24

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Chain of Custody Record

TestAmerico

TestAmerica Laboratory location: Brighton — 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 Client Contact Regulatory program: DW ■ NPDES RCRA Other TestAmerica Laboratories, Inc. Company Name: Arcadis Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico COC No: Address: 28550 Cabot Drive, Suite 500 Telephone: 330-497-9396 Telephone: 248-994-2240 Telephone: 248-994-2240 COCs City/State/Zip: Novi, MI, 48377 1 of 1 Analysis Turnaround Time Analyses For lab use only Email: kristoffer.hinskey@arcadis.com Phone: 248-994-2240 TAT if different from below Walk-in client Project Name: Ford LTP 3 weeks ₹ 2 weeks Lab sampling Project Number: 30206169,0401,03 Method of Shipment/Carrier: 1 week 1,4-Dioxane 8260D SIM 2 days □ I day PO # US3410018772 Shipping/Tracking No: Job/SDG No: Matrix Containers & Preservatives Sample Specific Notes / Sediment H2S04 NaOH ZnAc/ NaOH Unpres HNO3 Solid Special Instructions: HC Sample Identification Sample Date | Sample Time TRIP BLANK_ NG Х Х 1 Trip Blank 3 VOAs for 8260D mw-1835-110824 3 VOAs for 8260D SIM 240-214801 COC Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Possible Hazard Identification ✓ Non-Hazard lammable cin Irritant Poison B Inknown Return to Client Disposal By Lab Special Instructions/QC Requirements & Comments: Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728

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Level IV Reporting requested.

Relinquished by

1639

Received in Laboratory by:

VOA Sample Preservation - Date/Time VOAs Frozen.	Sample(s) Prescrvative(s) added/Lot number(s)	20. SAMPLE PRESERVATION	19. SAMPLE CONDITION Sample(s)	18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
		And the content of th	were received after the recommended holding time had expired. were received in a broken container were received with bubble >6 mm in diameter (Notify PM)	🛘 additional next page
	were further preserved in the laboratory	the state of the s	nmended holding time had expired. were received in a broken container ubble >6 mm in diameter (Notify PM)	Samples processed by

Concerning

Contacted PM

Date

ই

via Verbal Voice Mail Other

16 17

Was a VOA trip blank present in the cooler(s)? Were air bubbles >6 mm m any VOA vials?

Trip Blank Lot#

S. S.

AN STATE OF THE ST

NG SEA

No (NA) pH Stap Lo# HC447997

Page 19 of 20

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Larger than this

Was a LL Hg or Me Hg trip blank present?

14

Were VOAs on the COC?

Were all preserved sample(s) at the correct pH upon receipt?

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

110

Sufficient quantity received to perform indicated analyses?

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

For each sample, does the COC specify preservatives Were correct bottle(s) used for the test(s) indicated?

(Y/N), # of container

and sample type of grab/comp(V/N)?

S. S.

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

Did all bottles arrive in good condition (Unbroken)?

∞ ∞

11/20/2024

Temperature readings

Login Container Summary Report

240-214801

Client Sample ID	<u>Lab ID</u>	Container Type	Container Preservation Preservation pH Temp Added Lot Number
TRIP BLANK_51	240-214801-A-1	Voa Vial 40ml - Hydrochloric Acid	
MW-183S_110824	240-214801-A-2	Voa Vıal 40ml - Hydrochlorıc Acid	- Account of the control of the cont
MW-183S_110824	240-214801-B-2	Voa Vial 40ml - Hydrochloric Acıd	
MW-183S_110824	240-214801-C-2	Voa Vıal 40ml - Hydrochloric Acid	September of the septem
MW-183S_110824	240-214801-D-2	Voa Vial 40ml - Hydrochloric Acid	
MW-183S_110824	240-214801-E-2	Voa Vıal 40ml - Hydrochloric Acid	**************************************
MW-183S_110824	240-214801-G-2	Voa Vial 40ml - Hydrochloric Acid	

Page 20 of 20 11/20/2024

DATA VERIFICATION REPORT



November 20, 2024

Megan Meckley Arcadis 28550 Cabot Drive Suite 500 Novi, MI US 48377

CADENA project ID: E203728

Project: Ford Livonia Transmission Plant - Soil Gas, Ground Water and Soil

Project number: 30206169.0401.04_WA-03

Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 214801-1 Sample date: 2024-11-08

Report received by CADENA: 2024-11-20

Initial Data Verification completed by CADENA: 2024-11-20

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: 214801-1

		Sample Name: Lab Sample ID: Sample Date:	240214									
				Report		Valid		Report		Valid		
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier		
GC/MS VOC	OD.											
	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 # 240-214801-1

CADENA Verification Report: 2024-11-20

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 56931R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-214801-1 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	Parent Sample	Analysis			
Sample ID	Labib	Matrix	Collection Date	Farent Sample	VOC	VOC SIM		
TRIP BLANK_51	240-214801-1	Water	11/08/2024		Х			
MW-183S_110824	240-214801-2	Water	11/08/2024		X	X		

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		Х	
2. Requested analyses and sample results		X		X	
Master tracking list		Х		X	
4. Methods of analysis		X		Х	
5. Reporting limits		X		Х	
6. Sample collection date		X		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
Sample preparation/extraction/analysis dates		X		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

Rep	orted			Not Required	
No	Yes	No	Yes	Required	
C/MS)					
	Х		Х		
	Х		Х		
	Х		Х		
	Х		Х		
	Х		Х		
	Х		Х		
	Х		Х		
X				Х	
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	Х		Х		
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Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Bindu Sree M B

SIGNATURE: BAShims

DATE: December 16, 2024

PEER REVIEW: Andrew Korycinski

DATE: December 19, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record



Test	America Labora	tory location:	Brighton — 1	0448 Citat	ion Drive,	Suite 2	200 / Br	ighton, M	//I 48 116	/ 810	-229-27	763					_			THE LEADER IN ENVIR	ONMENTAL TENT
Client Contact	Regulat	ory program:	٢	DW	┌ NI	PDES	1	RCRA	-	Othe	er									T	
ompany Name: Arcadis	Client Project Manager: Kris Hinskey				nt Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico								TestAmerica L. COC No:	aboratories, I							
ddress: 28550 Cabot Drive, Suite 500	Telephone: 248						Telephone: 330-497-9396														
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			Mat		C	ontaine	rs & Pres	servatives	Filtered Sample (Y / N)	site=C	E 8260D	DCE 8	1,2-DC	G097	G090	hloride	xane				
Sample Identification	Sample Date	Sample Time	Air Aqueous Sediment	Solid Other:	HZSO4	HCI	NaOH ZnAc/	Unpres	Filtere	Composite=C / Grab=G	1,1-DCE	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM				cific Notes /
TRIP BLANK_ 51			1			1			N	I G	Х	X	X :	X .	x :	X				1 Trip Bla	nk
mw-1835-110824	11/8/24	0915	6			6			N)	16	χ	x	λ	b	x	X	x			3 VOAs for 3 VOAs for	8260D 8260D SIM
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Definitions/Glossary

Client: Arcadis US Inc.

Job ID: 240-214801-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

 Qualifier
 Qualifier Description

 U
 Indicates the analyte was analyzed for but not detected.

Glossary

Ciocoury	
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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Client Sample Results

Client: Arcadis US Inc. Job ID: 240-214801-1 Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_51

Lab Sample ID: 240-214801-1 Date Collected: 11/08/24 00:00 **Matrix: Water**

Date Received: 11/13/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/18/24 21:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/18/24 21:29	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/18/24 21:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/18/24 21:29	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/18/24 21:29	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/18/24 21:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		62 - 137			_		11/18/24 21:29	1
4-Bromofluorobenzene (Surr)	76		56 ₋ 136					11/18/24 21:29	1
Toluene-d8 (Surr)	89		78 - 122					11/18/24 21:29	1
Dibromofluoromethane (Surr)	98		73 - 120					11/18/24 21:29	1

Client Sample ID: MW-183S_110824 Lab Sample ID: 240-214801-2

Date Collected: 11/08/24 09:15

Data Pacaiyad: 11/13/24 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			11/18/24 16:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		68 - 127			-		11/18/24 16:02	1
Method: SW846 8260D - Volati	ile Organic Comp	ounds by G	iC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/18/24 21:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/18/24 21:49	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/18/24 21:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/18/24 21:49	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/18/24 21:49	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/18/24 21:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		62 - 137			-		11/18/24 21:49	1
4-Bromofluorobenzene (Surr)	78		56 - 136					11/18/24 21:49	1
Toluene-d8 (Surr)	91		78 - 122					11/18/24 21:49	1
Dibromofluoromethane (Surr)	104		73 - 120					11/18/24 21:49	1

Matrix: Water