PREPARED FOR

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

Generated 8/13/2024 7:23:24 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-208689-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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

Authorization

Generated 8/13/2024 7:23:24 AM

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

Laboratory Job ID: 240-208689-1

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 240-208689-1 Project/Site: Ford LTP

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description** 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**

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

Decision Level Concentration (Radiochemistry) DLC

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

EPA recommended "Maximum Contaminant Level" MCI MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Arcadis U.S., Inc. Project: Ford LTP

Job ID: 240-208689-1 Eurofins Cleveland

Job Narrative 240-208689-1

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 8/2/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 0.6°C, 1.1°C and 1.7°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) analyzed in batch 240-622686 was outside the method criteria for the following analyte(s): Vinyl chloride. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method 8260D: The matrix spike/matrix spike duplicate (MS/MSD) for samples TRIP BLANK_123 (240-208689-1) and MW-179S_073124 (240-208689-2) was not reported, because the analyte list for these samples did not match the analyte list for the MS/MSD parent sample and needed reanalyzed.

TRIP BLANK 123 (240-208689-1) and MW-179S 073124 (240-208689-2)

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 U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208689-1

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 U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208689-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-208689-1	TRIP BLANK_123	Water	07/31/24 00:00	08/02/24 08:00
240-208689-2	MW-179S 073124	Water	07/31/24 10:00	08/02/24 08:00

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Detection Summary

Client: Arcadis U.S., Inc. Job ID: 240-208689-1

Project/Site: Ford LTP

Lab Sample ID: 240-208689-1

No Detections.

Client Sample ID: TRIP BLANK_123

Client Sample ID: MW-179S_073124 Lab Sample ID: 240-208689-2

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
1,4-Dioxane	1.7 J	2.0	0.86 ug/L		8260D SIM	Total/NA

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208689-1

Project/Site: Ford LTP

Date Received: 08/02/24 08:00

Client Sample ID: TRIP BLANK_123

Lab Sample ID: 240-208689-1 Date Collected: 07/31/24 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			08/08/24 12:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/08/24 12:19	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 12:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/08/24 12:19	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 12:19	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/08/24 12:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137					08/08/24 12:19	1
4-Bromofluorobenzene (Surr)	103		56 ₋ 136					08/08/24 12:19	1
Toluene-d8 (Surr)	101		78 - 122					08/08/24 12:19	1
Dibromofluoromethane (Surr)	104		73 - 120					08/08/24 12:19	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208689-1

Project/Site: Ford LTP

Date Received: 08/02/24 08:00

Client Sample ID: MW-179S_073124

Date Collected: 07/31/24 10:00

Matrix: Water

Lab Sample ID: 240-208689-2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.7	J	2.0	0.86	ug/L			08/06/24 15:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		68 - 127			-		08/06/24 15:18	1
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/08/24 15:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/08/24 15:48	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 15:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/08/24 15:48	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 15:48	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/08/24 15:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137			-		08/08/24 15:48	1
4-Bromofluorobenzene (Surr)	102		56 ₋ 136					08/08/24 15:48	1
Toluene-d8 (Surr)	101		78 - 122					08/08/24 15:48	1
Dibromofluoromethane (Surr)	109		73 - 120					08/08/24 15:48	1

8/13/2024

Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 240-208689-1

Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

_				Percent Sur	rogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-208689-1	TRIP BLANK_123	101	103	101	104
240-208689-2	MW-179S_073124	103	102	101	109
LCS 240-622686/5	Lab Control Sample	95	103	98	100
MB 240-622686/9	Method Blank	101	105	103	107

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)	
240-208689-2	MW-179S_073124	100	
240-208702-B-3 MS	Matrix Spike	106	
240-208702-B-3 MSD	Matrix Spike Duplicate	108	
LCS 240-622394/4	Lab Control Sample	107	
MB 240-622394/6	Method Blank	105	

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

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Client: Arcadis U.S., Inc. Job ID: 240-208689-1

Project/Site: Ford LTP

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

Lab Sample ID: MB 240-622686/9

Analysis Batch: 622686

Matrix: Water

1,1-Dichloroethene

Tetrachloroethene

Trichloroethene

Vinyl chloride

cis-1,2-Dichloroethene

trans-1,2-Dichloroethene

Analyte

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

08/08/24 10:56

08/08/24 10:56

RL Dil Fac MDL Unit D Prepared Analyzed 1.0 0.49 ug/L 08/08/24 10:56 1.0 0.46 ug/L 08/08/24 10:56 08/08/24 10:56 1.0 0.44 ug/L 1.0 0.51 ug/L 08/08/24 10:56

1.0 U MB MB

MB MB

1.0 U

1.0 U

1.0 U

1.0 U

1.0 U

Result Qualifier

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	101		62 - 137	_		08/08/24 10:56	1	
4-Bromofluorobenzene (Surr)	105		56 - 136			08/08/24 10:56	1	
Toluene-d8 (Surr)	103		78 - 122			08/08/24 10:56	1	
Dibromofluoromethane (Surr)	107		73 - 120			08/08/24 10:56	1	

1.0

1.0

0.44 ug/L

0.45 ug/L

Lab Sample ID: LCS 240-622686/5

Matrix: Water

Analysis Batch: 622686

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	20.0	19.5		ug/L		97	63 - 134	
cis-1,2-Dichloroethene	20.0	21.1		ug/L		106	77 - 123	
Tetrachloroethene	20.0	21.4		ug/L		107	76 - 123	
trans-1,2-Dichloroethene	20.0	19.9		ug/L		99	75 - 124	
Trichloroethene	20.0	21.5		ug/L		108	70 - 122	
Vinyl chloride	20.0	16.2		ug/L		81	60 - 144	

LCS LCS

105

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		62 - 137
4-Bromofluorobenzene (Surr)	103		56 ₋ 136
Toluene-d8 (Surr)	98		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

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

Lab Sample ID: MB 240-622394/6	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total/NA

Analysis Batch: 622394

1,2-Dichloroethane-d4 (Surr)

Analysis Daton. 022004									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/06/24 09:50	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

68 - 127

Eurofins Cleveland

08/06/24 09:50

QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208689-1

Project/Site: Ford LTP

Lab Sample ID: LCS 240-622394/4

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

Client Sample ID: Lab Control Sample

Matrix: Water Prep Type: Total/NA Analysis Batch: 622394

Spike LCS LCS %Rec Result Qualifier Analyte Added Unit %Rec Limits 1,4-Dioxane 10.0 9.03 ug/L 90 75 - 121

LCS LCS Surrogate %Recovery Qualifier Limits 68 - 127 1,2-Dichloroethane-d4 (Surr) 107

Lab Sample ID: 240-208702-B-3 MS Client Sample ID: Matrix Spike

Matrix: Water Prep Type: Total/NA

Analysis Batch: 622394 Sample Sample Spike MS MS %Rec

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 2.0 U 10.0 9.66 ug/L 20 - 180

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

MS MS

Lab Sample ID: 240-208702-B-3 MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Water Prep Type: Total/NA Analysis Batch: 622394

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

Analyte 1,4-Dioxane 2.0 U 10.0 10.0 ug/L 100 20 - 180 20 MSD MSD

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 108 68 - 127

QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208689-1

GC/MS VOA

Analysis Batch: 622394

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
240-208689-2	MW-179S_073124	Total/NA	Water	8260D SIM
MB 240-622394/6	Method Blank	Total/NA	Water	8260D SIM
LCS 240-622394/4	Lab Control Sample	Total/NA	Water	8260D SIM
240-208702-B-3 MS	Matrix Spike	Total/NA	Water	8260D SIM
240-208702-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM

Analysis Batch: 622686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Ba	atch
240-208689-1	TRIP BLANK_123	Total/NA	Water	8260D	
240-208689-2	MW-179S_073124	Total/NA	Water	8260D	
MB 240-622686/9	Method Blank	Total/NA	Water	8260D	
LCS 240-622686/5	Lab Control Sample	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-208689-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_123

Lab Sample ID: 240-208689-1 Date Collected: 07/31/24 00:00

Matrix: Water

Date Received: 08/02/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	622686	AJS	EET CLE	08/08/24 12:19

Client Sample ID: MW-179S_073124 Lab Sample ID: 240-208689-2

Date Collected: 07/31/24 10:00 Matrix: Water

Date Received: 08/02/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	622686	AJS	EET CLE	08/08/24 15:48
Total/NA	Analysis	8260D SIM		1	622394	MS	EET CLE	08/06/24 15:18

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208689-1

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
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
lowa	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 Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-28-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

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Chain of Custody Record

MICHIGAN 190 Te **TestAmerica**

TestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 THE LEADER IN ENVIRONMENTAL TESTING Client Contact DW Regulatory program: NPDES RCRA Other Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 City/State/Zip: Novi, MI, 48377 1 of 1 COCs Analysis Turnaround Time Analyses Email: kristoffer.hinskey@arcadis.com For lab use only Phone: 248-994-2240 TAT if different from below Walk-in client Sampler Name: Project Name: Ford LTP 3 weeks Jeremy MYNS ₹ 2 weeks Lab sampling Project Number: 30206169.0401.03 1 week 1,4-Dioxane 8260D SIM Trans-1,2-DCE 8260D 2 days Vinyl Chloride 8260D PO # US3410018772 □ I day Job/SDG No Shipping/Tracking No: Containers & Preservatives PCE 8260D TCE 8260D Sample Specific Notes / H2504 Solid E Special Instructions: Sample Identification Sample Date Sample Time TRIP BLANK_123 G Х Х Х 1 Trip Blank 3 VOAs for 8260D 6 07/31/29 10:00 6 3 VOAs for 8260D SIM Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Disposal By Lab Non-Hazard sin Irritant Inknown Return to Client Special Instructions/QC Requirements & Comments: 34670 Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728 Level IV Reporting requested. 20mpany Arendis Company: Arcediz Relinquished by Relinquished by EETA Received in Laboratory by:
KATHARINE MÄRTIN Relinquished by Date/Time: 81 1 24 1330 Date/Time:

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EETA

VOA Sample Preservation - Date/Time VOAs Frozen.
Sample(s)were further preserved in the laboratory Time preservedPreservative(s) added/Lot number(s)
20. SAMPLE PRESERVATION
19 SAMPLE CONDITION Sample(s)were received after the recommended holding time had expired Sample(s)were received in a broken container Sample(s)/195 073124 (2 v/2015) were received with bubble >6 mm in diameter (Notify PM)
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
Contacted PMDatebyvia Verbal Voice Mail Other Concerning
16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # // / / Yes No 17 Was a LL Hg or Me Hg trip blank present? Yes No
13 Were all preserved sample(s) at the correct pH upon receipt? 14 Were VOAs on the COC? 15 Were air bubbles >6 mm in any VOA vials? 16 Larger than this 17 Yes No MA Yes No MA PH Strip Lot# HC442471 Yes No MA Yes No MA PH Strip Lot# HC442471
11. Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC? If yes, Questions 13-17 have been checked at the originating laboratory
Could all bottle labels (ID/Date/lime) be reconciled with the COC? For each sample, does the COC specify preservatives (YN), # of containers (YN), and sar Were correct bottle(s) used for the test(s) indicated? Were correct bottle(s) used for the test(s) indicated?
Was/were the person(s) who collected the samples clearly identified on the COC? Did all bottles arrive in good condition (Unbroken)?
36 51
-Were tamper/custody seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised? -Were tamper/custody seals intact and uncompromised?
IR GUN# 2L (CF O. 1 °C) Observed Cooler Temp
ce Dry I
ox Client Cooler Box Foam Plastic Bag N
ars. Drop-off Date/Time Storage Location
Cooler Received on 8/2/24 Opened on 8/2/24 PedRy 1st Grd Ryn IIPS RAS Waynoin Client Drop Off Furnishing Courier Other
Client Arra di S
Eurofins—Cleveland Sample Receipt Form/Narrative Eogin# :

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	emperature Excursion Form	☐ See 1						
	Wet Ice Blue Ice Dry Ice			IR GUN #:	Other	l Box	Client	23
	Wei Ice Blue Ice Dry Ice Water None			IR GUN #:	Other	t Box	Client	D3
	Wet ice Blue ice Dry ice Water None			IR GUN #:	Other	if Box	Cllent	53
	Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Other	it Box	Client	D3
	Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Other	if Box	Client	EC
	Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Other	if Box	Client	EC
	Wet ice Blue ice Dry ice Water None			IR GUN #:	Other	ıł Box	Client	EC
	Wet ice Blue ice Dry ice Water None	- 1		IR GUN #:	Other	nt Box	Citent	ЕC
	Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Other	nt Box	Client	. E C
	Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Other	nt Box	Client	n n
	6			IR GUN #:	Other	n Box	Citent	r.
	ត			IR GUN #:	Other	nt Box	Client	E.C.
-	Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Other	nt Box	Client	E.C.
	Wet ice Blue ice Dry ice Water None			IR GUN #:	c Other	nt Box	Client	EC.
	Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	Other	nt Box	Cilent	Ľ.
	Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	c Other	nt Box	Cllent	E.
	Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	c Other	nt Box	Client	E.C.
	Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	c Other	nt Box	Cilent	m C
	Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	(Other	nt Box	Client	E.C.
	Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	(Other	nt Box	Client	r.
	Wet Ice Blue Ice Dry Ice Water None			IR GUN #:	c Other	nt Box	Cllent	r.
	Wet Ice Blue Ice Dry Ice Water Name			IR GUN #:	c Other	nt Box	Cilent	ñ
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		Aultible Cooler Form	nd Sample Receipt N	Eurofins Clevelai				
	Login # :							

DATA VERIFICATION REPORT



August 13, 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-02

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

Laboratory submittal: 208689-1 Sample date: 2024-07-31

Report received by CADENA: 2024-08-13

Initial Data Verification completed by CADENA: 2024-08-13

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.

The following minor QC exceptions or missing information were noted:

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

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, 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: 208689-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLANK_123 2402086891 7/31/2024		MW-179S_073124 2402086892 7/31/2024					
	Analyte	Cas No.	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit		Valid 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-8260	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					1.7	2.0	ug/l	J



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-208689-1

CADENA Verification Report: 2024-08-13

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 55473R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-208689-1 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	Ana	lysis
Sample 10	Labib	IVIALITA	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_123	240-208689-1	Water	07/31/2024		Х	
MW-179S_073124	240-208689-2	Water	07/31/2024		Х	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance otable	Not
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
Requested analyses and sample results		X		Х	
Master tracking list		X		Х	
4. Methods of analysis		X		Х	
5. Reporting limits		X		Х	
6. Sample collection date		Х		X	
7. Laboratory sample received date		Х		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 calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample ID	Initial / Continuing	Compound	Criteria
TRIP BLANK_123 MW-179S 073124	Continuing Calibration Verification %D	Vinyl chloride	-23.1%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
	RRF <0.05	Non-detect	R
	KKF <0.05	Detect	J
Initial and Continuing Calibration	DDE -0.041	Non-detect	R
Campianon	RRF <0.01 ¹	Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action

Initial/Continuing	Criteria	Sample Result	Qualification
		Detect	
	%RSD > 20% or a correlation coefficient <0.99	Non-detect	UJ
Initial Calibration	%RSD > 20% of a correlation coefficient <0.99	Detect	J
Initial Calibration	0/ DOD 000/	Non-detect	R
	%RSD > 90%	Detect	J
	OVD COOK (in any and in any attitute)	Non-detect	UJ
	%D >20% (increase in sensitivity)	Detect	J
Operation via a Optila antique	0/D 000/ (dagged in aggrithmit.)	Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
	0/D 000/ // // // // // // // // // // // /	Non-detect	R
	%D > 90% (increase/decrease in sensitivity)	Detect	J

Note:

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.

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.

¹RRF of 0.01 only applies to compounds which are typically poor responding compounds

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
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	X		X	
	Х		Х	
	No C/MS)	X X X X X X X X X X X X X	Reported Acce No Yes No C/MS) X X X X X X X X X X X X X	No Yes No Yes

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: August 30, 2024

PEER REVIEW: Andrew Korycinski

DATE: September 7, 2024

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



MICHIGAN 190 TestAmerica

TestAmerica Laboratory location: Brighton - 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

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Client Contact Company Name: Arcadis	Regula	tory program	:	ĺ	DW			NPDE	S		R	CRA	r	Oth	er										~			
Company Name. Artaus	Client Project	Manager: Kris	Hins	key			Site (ontac	ct: C	hrist	ina V	eaver				Lab (Contac	t: Mil	ce Del	Monic	0					America L No:	aboratorio	s, Inc.
Address: 28550 Cabot Drive, Suite 500	7																	\perp										
City/State/Zip: Novi, MI, 48377	Telephone: 248	5-994-2240					Telephone: 248-994-2240				Telephone: 330-497-9396								1 of 1	COCs								
Dhomas 248 004 2240	Email: kristoff	er.hinskey@ar	cadis	.com			Α	aalys	as Tu	FRAI	ound	Time	T			Analyses							For	ab use only	-			
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Sample Identification	Sample Date	Sample Time	¥.	Aqueous	Solid	Othe	HZSO4	NNO3	2 3	ZaAc	Paner	Olhe	Filte	Com	=	cis-1	Tran	PCE	TCE	V.	1,4-[\perp		Special In	structions:	
TRIP BLANK_123				1				1	ı				N	IG	Х	Х	Х	Х	Х	Х					1	Trip Bla	ınk	
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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208689-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_123

Date Collected: 07/31/24 00:00 **Matrix: Water**

Date Received: 08/02/24 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			08/08/24 12:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/08/24 12:19	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 12:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/08/24 12:19	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 12:19	1
Vinyl chloride	1.0	JY OJ	1.0	0.45	ug/L			08/08/24 12:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137			_		08/08/24 12:19	1
4-Bromofluorobenzene (Surr)	103		56 ₋ 136					08/08/24 12:19	1
Toluene-d8 (Surr)	101		78 - 122					08/08/24 12:19	1
Dibromofluoromethane (Surr)	104		73 - 120					08/08/24 12:19	1

Client Sample ID: MW-179S_073124

Date Collected: 07/31/24 10:00

1,4-Dioxane

Date Collected: 07/31/24 10:00	watrix: water
Date Received: 08/02/24 08:00	
Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)	

RL

2.0

MDL Unit

0.86 ug/L

ı							
ı	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
ı	1,2-Dichloroethane-d4 (Surr)	100		68 - 127		08/06/24 15:18	1

Method: SW846 8260D	 Volatile 	Organic Com	pounds by	/ GC/MS

Result Qualifier

1.7 J

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/08/24 15:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/08/24 15:48	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 15:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/08/24 15:48	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 15:48	1
Vinyl chloride	1.0	A N	1.0	0.45	ug/L			08/08/24 15:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137		08/08/24 15:48	1
4-Bromofluorobenzene (Surr)	102		56 - 136		08/08/24 15:48	1
Toluene-d8 (Surr)	101		78 - 122		08/08/24 15:48	1
Dibromofluoromethane (Surr)	109		73 - 120		08/08/24 15:48	1

Lab Sample ID: 240-208689-1

Lab Sample ID: 240-208689-2

Analyzed

08/06/24 15:18

Dil Fac

Prepared