PREPARED FOR

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

Generated 8/13/2024 7:25:33 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-208692-1

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 7:25:33 AM

Authorized for release by Michael DelMonico, Project Manager I Michael.DelMonico@et.eurofinsus.com (330)497-9396

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

Laboratory Job ID: 240-208692-1

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Definitions/Glossary

Client: Arcadis U.S., Inc.

Job ID: 240-208692-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

 Qualifier
 Qualifier Description

 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.

Eisted 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 U.S., Inc. Project: Ford LTP

Job ID: 240-208692-1 Eurofins Cleveland

Job Narrative 240-208692-1

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_113 (240-208692-1) and MW-148S_073124 (240-208692-2) 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 113 (240-208692-1) and MW-148S 073124 (240-208692-2)

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

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Job ID: 240-208692-1

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Method Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208692-1

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: 240-208692-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-208692-1	TRIP BLANK_113	Water	07/31/24 00:00	08/02/24 08:00
240-208692-2	MW-148S_073124	Water	07/31/24 11:10	08/02/24 08:00

Detection Summary

Client: Arcadis U.S., Inc.

Job ID: 240-208692-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_113 Lab Sample ID: 240-208692-1

No Detections.

Client Sample ID: MW-148S_073124 Lab Sample ID: 240-208692-2

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Vinyl chloride	0.80 J	1.0	0.45 ug/L		8260D	Total/NA

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208692-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_113

Lab Sample ID: 240-208692-1 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 13:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/08/24 13:29	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 13:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/08/24 13:29	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 13:29	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/08/24 13:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137			-		08/08/24 13:29	1
4-Bromofluorobenzene (Surr)	103		56 ₋ 136					08/08/24 13:29	1
Toluene-d8 (Surr)	100		78 - 122					08/08/24 13:29	1
Dibromofluoromethane (Surr)	104		73 - 120					08/08/24 13:29	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208692-1

Project/Site: Ford LTP

Client Sample ID: MW-148S_073124

Date Collected: 07/31/24 11:10
Date Received: 08/02/24 08:00

Lab Sample ID: 240-208692-2 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			08/07/24 11:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		68 - 127			-		08/07/24 11:31	1
- Method: SW846 8260D - Volati	le Organic Comp	ounds by G	SC/MS						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/08/24 16:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/08/24 16:34	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 16:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/08/24 16:34	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 16:34	1
Vinyl chloride	0.80	J	1.0	0.45	ug/L			08/08/24 16:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137			-		08/08/24 16:34	1
4-Bromofluorobenzene (Surr)	106		56 ₋ 136					08/08/24 16:34	1
Toluene-d8 (Surr)	105		78 - 122					08/08/24 16:34	1
Dibromofluoromethane (Surr)	111		73 - 120					08/08/24 16:34	1

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 240-208692-1

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)
240-208692-1	TRIP BLANK_113	101	103	100	104
240-208692-2	MW-148S_073124	108	106	105	111
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)	
240-208691-E-2 MS	Matrix Spike	99	
240-208691-E-2 MSD	Matrix Spike Duplicate	106	
240-208692-2	MW-148S_073124	108	
LCS 240-622546/4	Lab Control Sample	104	
MB 240-622546/6	Method Blank	97	

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

Client: Arcadis U.S., Inc. Job ID: 240-208692-1

Project/Site: Ford LTP

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

Lab Sample ID: MB 240-622686/9 Client Sample ID: Method Blank **Prep Type: Total/NA**

Matrix: Water Analysis Batch: 622686

	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			08/08/24 10:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/08/24 10:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 10:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/08/24 10:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 10:56	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/08/24 10:56	1
l .									

	MB	MB				
Surrogate	%Recovery	Qualifier Lim	its	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

Lab Sample ID: LCS 240-622686/5 Client Sample ID: Lab Control Sample **Matrix: Water Prep Type: Total/NA**

Analysis Batch: 622686

	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	
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 240-622546/6	Client Sample ID: Method Blank
Matrix: Water	Prep Type: Total/NA

Matrix: Water								Prep Type: 1	Γotal/NA
Analysis Batch: 622546									
	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			08/07/24 10:44	1
	MB	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97	-	68 - 127			-		08/07/24 10:44	1

Eurofins Cleveland

Client: Arcadis U.S., Inc. Job ID: 240-208692-1

Project/Site: Ford LTP

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

Lab Sample ID: LCS 240-622546/4 **Matrix: Water**

Analysis Batch: 622546

Spike LCS LCS %Rec Result Qualifier Analyte Added Unit %Rec Limits 1,4-Dioxane 10.0 8.85 ug/L 89 75 - 121

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

Lab Sample ID: 240-208691-E-2 MS

Matrix: Water

Analysis Batch: 622546

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 2.0 U 10.0 8.81 20 - 180 ug/L MS MS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 99

Lab Sample ID: 240-208691-E-2 MSD

Matrix: Water

Analysis Batch: 622546

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	9.06		ug/L		91	20 - 180	3	20

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

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-208692-1

GC/MS VOA

Analysis Batch: 622546

Lab Sample ID 240-208692-2	Client Sample ID MW-148S 073124	Prep Type Total/NA	Matrix Water	Method Prep Batch 8260D SIM
MB 240-622546/6	Method Blank	Total/NA	Water	8260D SIM
LCS 240-622546/4	Lab Control Sample	Total/NA	Water	8260D SIM
240-208691-E-2 MS	Matrix Spike	Total/NA	Water	8260D SIM
240-208691-E-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM

Analysis Batch: 622686

	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	240-208692-1	TRIP BLANK_113	Total/NA	Water	8260D	
	240-208692-2	MW-148S_073124	Total/NA	Water	8260D	
	MB 240-622686/9	Method Blank	Total/NA	Water	8260D	
İ	LCS 240-622686/5	Lab Control Sample	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-208692-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_113

Lab Sample ID: 240-208692-1 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 13:29

Client Sample ID: MW-148S_073124 Lab Sample ID: 240-208692-2

Date Collected: 07/31/24 11:10 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 16:34
Total/NA	Analysis	8260D SIM		1	622546	MS	EET CLE	08/07/24 11:31

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: 240-208692-1

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
SDA US Federal Program	State	210	12-31-24

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Chain of Custody Record

MICHIGAN



TestAmerica Laboratory location:	Brighton 1044	8 Citation Drive.	Suite 200 / Brighton	MI 48116 / 810-229-2763

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Client Contact	Regula	tory program:			DW		T N	PDES			RCI	RA	("-	Othe	r												
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Address: 28550 Cabot Drive, Suite 500			11111310	.,																					,00 1.0.		
City/State/Zip: Novi, MI, 48377	Telephone: 248	3-994-2240					Telep	hone:	248-9	994-22	240					Telepl	ione:	330-49	7-939	96				ŀ	1 of	1 COC	Cs .
	Email: kristoff	er.hinskey@ar	cadis.c	om			A	nalysu	lur	BAFOL	und T	ime							A	nalys	es			_ F	or lab use on		
Phone: 248-994-2240	Sampler Name		-		-	-	TAT	l' differen	t from	below															Walk-in client		
Project Name: Ford LTP	Emma	Giem								3 w														1 1			1000
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				ano Just			٥ ا	<u> </u>	=		ع ا	E	Filtered	Composite	SCE	.2-D	1-5	PCE 8260D	8260D	L C	1,4-Dioxane					Specific Note	
Sample Identification	Sample Date	Sample Time	Air	Aqueous	Solid	Othe	112504	HCI	NaOH	ZnAc	Unpres	Othe	Pilt	င္ပ	1,1	cis-	Trar	PCE	TCE	Viny	1,4				Specia	l Instruction	s:
TRIP BLANK_ 113				1				1					Ν	G	Х	Х	X	Х	X	Х					1 Trip E	Blank	
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MW-1485-073124	7/31/24	1110	Ш	6	\perp			6	2	┶			N	(2)	Λ	^	\wedge	\wedge	~	^	\sim	\vdash		\sqcup	3 VOAs	for 8260D	SIM
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Special Instructions/QC Requirements & Comments:							_	1000		o che			713p03	a. Dy	Lao			Cilive	101.			atura -		-			
Submit all results through Cadena at jtomalia@cadenaco.c		Ster 1	-1VC	nic	, IV	II																					
Level IV Reporting requested.																											
Relinquished by: Emma Green Emma Green	Company:);5	1	Date/Ti	ime //Z	1 10	13	30	Rec	ceived	by:	Cold) 5	to	rac	e			Comp		Car	dis		Ī	Date/Time:	4 910	30
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	VOA Samula Preservation - Date/Time VOAs Frozen
The state of the s	Time preserved. Preservative(s) added/Lot number(s).
were further preserved in the laboratory	Sample(s)
	20. SAMPLE PRESERVATION
were received with bubble >6 mm in diameter (Notify PM)	Sample(s) were received with bub
were received in a broken container	
were received after the recommended holding time had expired	19. SAMPLE CONDITION Sample(s) were received after the recomn
next page Samples processed by:	18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
	Concerning
via Verbal Voice Mail Other	Contacted PM Date byv
	17 Was a LL Hg or Me Hg trip blank present?
Yes No NA	
	13 Were all preserved sample(s) at the correct pH upon receipt?14 Were VOAs on the COC?
(If yes, Questions 13-17 have been checked at the originating laboratory
Yes Yes	11 Sufficient quantity received to perform indicated analyses? 12 Are these work share samples and all listed on the COC?
(Xex No	10 Were correct bottle(s) used for the test(s) indicated?
Yes No	
B	
No TOC	5 Were the custody papers relinquished & signed in the appropriate place?
f 🗗	3 Shippers' packing slip attached to the cooler(s)? 4 Did quested papers accommon the sample(s)?
X (8)	-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised?
Yes No NA Tests that are not checked for pH by	2. 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?
°C Corrected Cooler Temp°C	IR GUN # (CFO. _°C) Observed Cooler
🔀 See Multiple Cooler Form	on receipt
CHICA	Ice Dry Ice Water
Other	Foam Box Client Cooler Box
Ď	Drop-off Date/Time
Courier Other	FedEx: 1st Grd Exp UPS FAS (Waypoint) Client Drop Off Eurofins Courier
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	817/24
Cooler unpacked by:	Client Accordis
Login#	Eurofins - Cleve and Sample Receipt Form Narrative

Page 18 of 19

11	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	EC Client Box Other	Cooler Description (Circle)	
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16.541											Action of the Control																		Male	A CONTRACTOR OF THE CONTRACTOR		1.8	/, 2	0.7	Observed Temp °C	Eurofins - Cleveland Sample Receipt Militiple Cooler Form
☐ See Ter			The state of the s	The state of the s	The state of the s		The state of the s	and the state of t			A CALL TO A CALL THE	AND THE RESERVE THE PROPERTY OF THE PROPERTY O														e de la company	The state of the s			and the state of t		1.7	1.1	0,6	Corrected Temp °C	ilitina Caaler Form
See Temperature Excursion Form	Wellce Bluelce Dry Ice Water None	Wellice Bluelice Drylice Water None	II .	Wet ice Blue ice Dry ice Water None	Wet Ice Blue Ice Dry Ice Water None	Wet Ice Blue Ice Dry Ice Water None	Wetice Blueice Dryice Water None	H	Wetice Blueice Dryice Water None	Wet Ice Blue Ice Dry Ice Water None	Wet Ice Blue Ice Dry Ice Water None	Wet Ice Blue Ice Dry Ice Water None	Wetice Blueice Dryice Water None	Wet Ice Blue Ice Dry Ice Water None	Wet Ice Blue Ice Dry Ice Water None	Wetice Blueice Dryice Water None	Wet Ice Bive Ice Dry Ice Water None	Wet Ice Blue Ice Dry Ice Water None	I 🔨 📗	Wettice Bluetice Drytice Water None	Wet Ice Blue Ice Dry Ice Water None	Wet Ice Blue Ice Dry Ice Water None	Wet Ice Blue Ice Dry Ice Water None	Wet ice Blue ice Dry ice Water None	Wellice Bluelce Drylice Water None	Wet Ice Blue Ice Dry Ice Water None	Wet Ice Blue Ice Dry Ice Water None	Coolant (Circle)								

WI-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

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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: 208692-1 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: 208692-1

		Sample Name: Lab Sample ID: Sample Date:	240208	TRIP BLANK_113 2402086921 7/31/2024 Report			MW-148 240208 7/31/20			
							,,,,,,,	Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	<u>0D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		0.80	1.0	ug/l	J
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 # 240-208692-1

CADENA Verification Report: 2024-08-13

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 55476R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-208692-1 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 Sample	Analysis			
Sample ID	Labib	IVIALITIX	Collection Date	Parent Sample	VOC	VOC SIM		
TRIP BLANK_113	240-208692-1	Water	07/31/2024		X			
MW-148S_073124	240-208692-2	Water	07/31/2024		Χ	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		Х	
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_113 MW-148S 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
		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 Oplik aption	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	
	X		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

Chain of Custody Record





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

Client Contact	Regula	tory program		1	DV	V	- I	NPD	ES		T R	CRA .	(-	Oth	er [
Company Name: Arcadis	Clima Basina	Waller Put	111:				Ica. d	<u> </u>			** X	eaver			-1	lı -		M:	h. D.	Mania					stAmerica Lab	oratories,
Address: 28550 Cabot Drive, Suite 500	Client Project	Wanager: Kris	rinsi	cey			Site	Cont	tact: C	nris	tina v	exver				Lab Contact: Mike DelMonico Telephone: 330-497-9396								Ľ	JC 110:	
	Telephone: 248	-994-2240					Telep	phon	ie: 24	8-994	-2240															
City/State/Zip: Novi, MI, 48377	Email: kristoff	er.hinskey@ar	cadis.	com	-			\nai	ysis I	UFRA	round	Time				Analyses							Fo	1 of 1	COCs	
Phone: 248-994-2240									,																	
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Project Number: 30206169.0401.03	Emma Method of Ship						10) da	У		week										5			La	b sampling	-
]			F 2	days		E	١		0	8260D			9	SIS					
PO # US3410018772	Shipping/Tracl	king No:								□ 1	day		Filtered Sample (Y / N)	-C/Grab-G	8	cis-1,2-DCE 8260D	E 82			Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM			Jo	b/SDG No:	
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				sa .	Ē		اجا	2		=	_ ;	2	red	Composite	1,1-DCE 8260D	.2-D	Trans-1,2-DCE	PCE 8260D	TCE 8260D	등	Dioxa				Sample Speci	
Sample Identification	Sample Date	Sample Time	Air	Aqueous	Solid	Other	H2SO4	HNO3	нсі	OBN	NaOH	Othe	Pilte	Con	1,1-0	cis-1	Tran	PCE	TCE	V.	1,4				Special Inst	ructions:
TRIP BLANK_ 113				1			П		1				N	G	Х	Х	Х	Х	Х	Х					1 Trip Blant	k
M11-1050 072121	7/21/21	11110		1					1				1,,	1	V	X	X	X	Y	×	X			\top	3 VOAs for 8	
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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-208692-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_113

Lab Sample ID: 240-208692-1 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 13:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/08/24 13:29	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 13:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/08/24 13:29	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 13:29	1
Vinyl chloride	1.0	M NN	1.0	0.45	ug/L			08/08/24 13:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137			_		08/08/24 13:29	1
4-Bromofluorobenzene (Surr)	103		56 ₋ 136					08/08/24 13:29	1
Toluene-d8 (Surr)	100		78 - 122					08/08/24 13:29	1
Dibromofluoromethane (Surr)	104		73 - 120					08/08/24 13:29	1

Client Sample ID: MW-148S_073124

Date Collected: 07/31/24 11:10

1,4-Dioxane

Date Collected: 07/31/24 11:10						Matr	ix: Water
Date Received: 08/02/24 08:00							
Method: SW846 8260D SIM - Vo	latile Organic Compounds (G	C/MS)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108	-	68 - 127		08/07/24 11:31	1

2.0

0.86 ug/L

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

2.0 U

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 16:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/08/24 16:34	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 16:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/08/24 16:34	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/08/24 16:34	1
Vinyl chloride	0.80	J	1.0	0.45	ug/L			08/08/24 16:34	1

Surrogate	%Recovery	Qualifier	Limits	Pr	epared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	108		62 - 137			08/08/24 16:34	1	
4-Bromofluorobenzene (Surr)	106		56 ₋ 136			08/08/24 16:34	1	
Toluene-d8 (Surr)	105		78 - 122			08/08/24 16:34	1	
Dibromofluoromethane (Surr)	111		73 - 120			08/08/24 16:34	1	

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08/07/24 11:31