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ANALYTICAL REPORT

PREPARED FOR

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

Generated 8/19/2024 7:15:43 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-209272-1

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 8/19/2024 7:15:43 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: 240-209272-1

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 240-209272-1

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
%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

Estimated Detection Limit (Dioxin) EDL 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 **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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: 240-209272-1 Eurofins Cleveland

Job Narrative 240-209272-1

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 8/10/2024 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 1.4°C, 1.5°C and 1.7°C.

GC/MS VOA

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

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Job ID: 240-209272-1

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Method Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-209272-1

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: 240-209272-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-209272-1	TRIP BLANK_49	Water	08/08/24 00:00	08/10/24 08:00
240-209272-2	MW-128S_080824	Water	08/08/24 14:10	08/10/24 08:00

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Detection Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-209272-1

Client Sample ID: TRIP BLANK_49

No Detections.

Lab Sample ID: 240-209272-1

No Detections.

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-209272-1

Project/Site: Ford LTP

Date Received: 08/10/24 08:00

Client Sample ID: TRIP BLANK_49

Lab Sample ID: 240-209272-1 Date Collected: 08/08/24 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			08/16/24 12:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/16/24 12:06	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 12:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/16/24 12:06	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 12:06	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/16/24 12:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			-		08/16/24 12:06	1
4-Bromofluorobenzene (Surr)	96		56 ₋ 136					08/16/24 12:06	1
Toluene-d8 (Surr)	96		78 - 122					08/16/24 12:06	1
Dibromofluoromethane (Surr)	85		73 - 120					08/16/24 12:06	1

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-209272-1

Project/Site: Ford LTP

Client Sample ID: MW-128S_080824

Lab Sample ID: 240-209272-2 Date Collected: 08/08/24 14:10

Matrix: Water

Date Received: 08/10/24 08:00
Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte RL Result Qualifier MDL Unit D Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 08/15/24 17:11

Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 68 - 127 08/15/24 17:11 108

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

Welliou. 344040 0200D - Volatile	Organic Comp	ourius by GC	IVIO						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/16/24 15:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/16/24 15:04	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 15:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/16/24 15:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 15:04	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/16/24 15:04	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120	62 - 137		08/16/24 15:04	1
4-Bromofluorobenzene (Surr)	106	56 ₋ 136		08/16/24 15:04	1
Toluene-d8 (Surr)	107	78 - 122		08/16/24 15:04	1
Dibromofluoromethane (Surr)	96	73 - 120		08/16/24 15:04	1

8/19/2024

Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 240-209272-1

Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rrogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-209272-1	TRIP BLANK_49	106	96	96	85
240-209272-2	MW-128S_080824	120	106	107	96
240-209276-C-2 MS	Matrix Spike	112	114	103	100
240-209276-C-2 MSD	Matrix Spike Duplicate	107	104	94	94
LCS 240-623579/5	Lab Control Sample	109	109	103	99
MB 240-623579/10	Method Blank	102	95	94	84

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

DCA (68-127) 108					
108					
108					
108					
103					
104					
_	108 103	108 103	108 103	108 103	108 103

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Client: Arcadis U.S., Inc. Job ID: 240-209272-1

Project/Site: Ford LTP

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

Lab Sample ID: MB 240-623579/10

Matrix: Water

Analysis Batch: 623579

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

MB MB Dil Fac Analyte Result Qualifier RLMDL Unit Prepared Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 08/16/24 10:15 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 08/16/24 10:15 1.0 U 1.0 0.44 ug/L 08/16/24 10:15 Tetrachloroethene trans-1,2-Dichloroethene 1.0 U 08/16/24 10:15 1.0 0.51 ug/L Trichloroethene 1.0 U 1.0 0.44 ug/L 08/16/24 10:15 Vinyl chloride 1.0 U 1.0 0.45 ug/L 08/16/24 10:15

MB MB

5	Gurrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1	,2-Dichloroethane-d4 (Surr)	102		62 - 137		08/16/24 10:15	1
4	l-Bromofluorobenzene (Surr)	95		56 - 136		08/16/24 10:15	1
7	Toluene-d8 (Surr)	94		78 - 122		08/16/24 10:15	1
[Dibromofluoromethane (Surr)	84		73 - 120		08/16/24 10:15	1

Lab Sample ID: LCS 240-623579/5

Matrix: Water

Analysis Batch: 623579

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	50.0	37.1		ug/L		74	63 - 134	
cis-1,2-Dichloroethene	50.0	44.8		ug/L		90	77 - 123	
Tetrachloroethene	50.0	45.3		ug/L		91	76 - 123	
trans-1,2-Dichloroethene	50.0	41.1		ug/L		82	75 - 124	
Trichloroethene	50.0	44.5		ug/L		89	70 - 122	
Vinyl chloride	50.0	48.5		ug/L		97	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	109		62 _ 137
4-Bromofluorobenzene (Surr)	109		56 - 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

Lab Sample ID: 240-209276-C-2 MS

Matrix: Water

Analysis Batch: 623579

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	50.0	33.2		ug/L		66	56 - 135	
cis-1,2-Dichloroethene	1.0	U	50.0	43.1		ug/L		86	66 - 128	
Tetrachloroethene	1.0	U	50.0	40.6		ug/L		81	62 _ 131	
trans-1,2-Dichloroethene	1.0	U	50.0	38.6		ug/L		77	56 - 136	
Trichloroethene	1.0	U	50.0	39.9		ug/L		80	61 - 124	
Vinyl chloride	1.0	U	50.0	43.4		ug/L		87	43 - 157	

MS MS

Surrogate	%Recovery Q	ualifier	Limits
1,2-Dichloroethane-d4 (Surr)	112		62 - 137
4-Bromofluorobenzene (Surr)	114		56 - 136
Toluene-d8 (Surr)	103		78 - 122

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Job ID: 240-209272-1

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

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

Lab Sample ID: 240-209276-C-2 MS

Matrix: Water

Analysis Batch: 623579

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 100 73 - 120

Lab Sample ID: 240-209276-C-2 MSD

Matrix: Water

Analysis Batch: 623579

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	50.0	33.3		ug/L		67	56 - 135	0	26
cis-1,2-Dichloroethene	1.0	U	50.0	43.4		ug/L		87	66 - 128	1	14
Tetrachloroethene	1.0	U	50.0	39.4		ug/L		79	62 - 131	3	20
trans-1,2-Dichloroethene	1.0	U	50.0	38.2		ug/L		76	56 - 136	1	15
Trichloroethene	1.0	U	50.0	39.6		ug/L		79	61 - 124	1	15
Vinyl chloride	1.0	U	50.0	43.4		ug/L		87	43 - 157	0	24

MSD MSD

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		62 - 137
4-Bromofluorobenzene (Surr)	104		56 - 136
Toluene-d8 (Surr)	94		78 - 122
Dibromofluoromethane (Surr)	94		73 - 120

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

Lab Sample ID: MB 240-623431/6

Matrix: Water

Analysis Batch: 623431

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Type: Total/NA

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 08/15/24 10:09 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 104 68 - 127 08/15/24 10:09

Lab Sample ID: LCS 240-623431/4

Matrix: Water

Analysis Batch: 623431

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 10.0 8.65 ug/L 86

LCS LCS

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 103

Lab Sample ID: 240-209169-D-6 MS

Matrix: Water									Prep	Type: Total/NA
Analysis Batch: 623431										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	9.79		ug/L		98	20 - 180	

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QC Sample Results

68 - 127

Client: Arcadis U.S., Inc. Job ID: 240-209272-1

Project/Site: Ford LTP Method: 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

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

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Lab Sample	ID: 240-209	169-D-6 MSD

Matrix: Water

Analysis Batch: 623431

1,2-Dichloroethane-d4 (Surr)

	Sample	Sample	Spike	MSD	MSD
Analyte	Result	Qualifier	Added	Result	Qualifier
1,4-Dioxane	2.0	U	10.0	9.78	
	MSD	MSD			
Surrogate	%Recovery	Qualifier	Limits		

108

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

RPD Limits RPD Limit

D Unit %Rec 20 - 180 0 ug/L

QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-209272-1

GC/MS VOA

Analysis Batch: 623431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-209272-2	MW-128S_080824	Total/NA	Water	8260D SIM	
MB 240-623431/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-623431/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-209169-D-6 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-209169-D-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 623579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-209272-1	TRIP BLANK_49	Total/NA	Water	8260D	
240-209272-2	MW-128S_080824	Total/NA	Water	8260D	
MB 240-623579/10	Method Blank	Total/NA	Water	8260D	
LCS 240-623579/5	Lab Control Sample	Total/NA	Water	8260D	
240-209276-C-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-209276-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-209272-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_49

Lab Sample ID: 240-209272-1 Date Collected: 08/08/24 00:00

Matrix: Water

Date Received: 08/10/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	623579	TJL2	EET CLE	08/16/24 12:06

Client Sample ID: MW-128S_080824 Lab Sample ID: 240-209272-2

Date Collected: 08/08/24 14:10 Matrix: Water

Date Received: 08/10/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	623579	TJL2	EET CLE	08/16/24 15:04
Total/NA	Analysis	8260D SIM		1	623431	MS	EET CLE	08/15/24 17:11

Laboratory References:

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

Eurofins Cleveland

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-209272-1

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	02-27-25
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 TestAmenco

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

		,					_																		
Client Contact	Regulat	ory program:	:	1)W		NPI	ES		RCI	RA	(Other			district with	,								
Company Name: Arcadis	Client Project	Janager: Kris	Hinskey			Site	e Con	tact:	Chris	tina We	aver			La	b Cont	et: Mi	ke Del	Monic)					America La	boratories,
Address: 28550 Cabot Drive, Suite 500																							\perp		
City/State/Zip: Novi, M1, 48377	Telephone: 248	-994-2240				Tel	epho	ne: 24	8-994	-2240				Te	ephon	: 330-4	197-939	16					-	1 of 1	COCs
	Email: kristoff	r.hinskey@ar	cadis.con	ı			Ann	ysis I	urna	round I	ime	FI					A	nalys	es				For I	ub use only	
hone: 248-994-2240	Sampler Name		11			7 A	Turatu	Gereen Fr	rum beli	(11)			9.1										Wall	c-in client	
roject Name: Ford LTP		Jeruny	My	1/3	5		10 da		3	weeks weeks	_												7.5	sampling	
Project Number: 30206169,0401.03	Method of Ship					7		.,	1	week days		2	ç		9				SIM				2	ampang	
O # US3410018772	Shipping/Track	ing No:							1	day		ple (Y /	C/Grab	300	E 8260D			82600	3260D				Job/S	SDG No	
			תכסחו	Sediment	Solid Xi	H2SO4			r	Unpres	Other: 34	1 5 1	Composite	1,1-DCE 8260D	Trans-1,2-DCE	PCE 8260D	TCE 82600	Vinyl Chloride 8260D	1.4-Dioxane 8260D SIM					Sample Special Ins	
Sample Identification	Sample Date	Sample Time	Air	Se	S O	1=	Î	HC	Z K	Vnpr	õ	E	0	- 3	, E	F F	F	>	-		_	_	-		
TRIP BLANK_49			1					1				N	G	XX	(X	X	X	Х					1	Trip Blar	nk
TRIP BLANK_49 MW-1285_080824	08/08/24	14:10	Ç					6				N	6	×	Y X	X	×	X	8					VOAs for VOAs for	
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VOA Sample Preservation - Date/Time VOAs Frozen.
Sample(s)were further preserved in the laboratory Time preservedPreservative(s) added/Lot number(s):were further preserved in the laboratory
20. SAMPLE PRESERVATION
were received with bu
Sample(s)were received after the recommended holding time had expired. Sample(s)were received in a broken container
19. SAMPLE CONDITION
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
Concerning
Contacted PM Date by via Verbal Voice Mail Other
17 Was a LL Hg or Me Hg trip blank present? Yes No
Were air bubbles of mm in any VOA vials? Larger than this.
જો <u>દ</u>
12. Are these work share samples and all listed on the COC? If yes, Questions 13-17 have been checked at the originating laboratory
Sufficient quantity received to perform indicated analyses?
9 For each sample, does the COC specify preservatives (XN), # of containers (XN), and sample type of grab/comp(XN)? 10 Were correct hottle(s) used for the test(s) indicated?
learly identified on the COC?
Were the custody papers relinquished & signed in the appropriate place?
3 Shippers' packing slip attached to the cooler(s)? 4. Did custody papers accompany the sample(s)? VesCNe VOAs Oil and Grease
-Were tamper/custody seals intact and uncompromised?
-Were the 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 on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?
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8/10/24 Opened on 8/12/24
Client Arcad, S Site Name Cooler unpacked by:
Eurofins - Clevebud Sample Receipt Form/Narrative Login # :

Page 19 of 21

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Coolant (Circle)	Corrected Temp °C	Observed Temp °C	IR Gun # (Circle)	Cooler Description (Circle)
	ultiple Cooler Form	Eurofins - Cleveland Sample Receipt Multiple Cooleg Form.	⊪Eurofins - Clevelar	
-ogin # ·		, is		

8/12/2024

Login Container Summary Report

240-209272

<u>Lab ID</u>	Container Type	Container Preservation Preservation pH Temp Added Lot Number
240-209272-A-1	Voa Vial 40ml - Hydrochloric Acıd	
240-209272-A-2	Voa Vial 40ml - Hydrochloric Acid	
240-209272-B-2	Voa Vial 40ml - Hydrochloric Acıd	
240-209272-C-2	Voa Vial 40ml - Hydrochloric Acid	
240-209272-D-2	Voa Vial 40ml - Hydrochloric Acid	
240-209272-E-2	Voa Vial 40ml - Hydrochloric Acid	The state of the s
240-209272-F-2	Voa Vial 40ml - Hydrochloric Acid	The second secon
	Lab ID 240-209272-A-1 240-209272-A-2 240-209272-B-2 240-209272-D-2 240-209272-E-2 240-209272-F-2	

Page 1 of 1

DATA VERIFICATION REPORT



August 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-02

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

Laboratory submittal: 209272-1 Sample date: 2024-08-08

Report received by CADENA: 2024-08-19

Initial Data Verification completed by CADENA: 2024-08-20

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: 209272-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BL/ 240209: 8/8/202	2721			MW-128 240209 8/8/202	2722	24	
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
<u>OSW-8260</u>	<u>)D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-8260	<u>DDSIM</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 # 240-209272-1

CADENA Verification Report: 2024-08-20

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 55546R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-209272-1 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	Matrix	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_49	240-209272-1	Water	08/08/2024		Х	
MW-128S_080824	240-209272-2	Water	08/08/2024		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		X		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 continuing calibrations were within the specified control limits.

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

6. Compound Identification

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

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

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

DATA VALIDATION CHECKLIST FOR VOCs

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

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Bindu Sree M B

SIGNATURE: BAShims

DATE: September 12, 2024

PEER REVIEW: Andrew Korycinski

DATE: September 20, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record

MICHIGAN 190 TestAmenco

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

Client Contact	Regulat	ory program:		a	w	N	PDES		R	CRA	(Other			aborate 1								
Company Name: Arcadis	Client Project	Manager: Kris	Hinskey			Site C	ntact.	Chr	istina V	raver			1.91	Cont	ct: Mil	te Del	Monic	D				TestAmerica Laborat	tories, In
Address: 28550 Cabot Drive, Suite 500														Contact: Mike DelMonico									
City/State/Zip: Novi, M1, 48377	Telephone: 248	-994-2240				Teleph	Telephone: 248-994-2240					Tel	Telephone: 330-497-9396							1 of 1 C	OCs		
	Email: kristoff	er.hinskey@ar	cadis.com	om Analysis Turnaround Time					Analyses								For lab use only	1-154					
Phone: 248-994-2240	Supralus Namus N						TAT if different from below				5.1										Walk-in client		
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Project Number: 30206169.0401.03	Method of Shipment/Carrier:				10	day	-	2 week	•	10							5	5		Lab sampling			
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PO # US3410018772	Shipping/Track	ing No:							1 day		Piltered Sample (Y / N)	Composite-C/Grab-G	82600	Trans-1,2-DCE 8260D			Vinyl Chloride 8260D	1.4-Dioxane 8260D SIM	5601			Job/SDG No	
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Sample Identification	Sample Date	Sample Time	Air	Sediment	Other	HZSO4	HC	NaOl	ZnAc/ NuOH	Other:	F.	Com	1,1-DCE 8260D cis-1,2-DCE 826	Tran	PCE 8260D	TCE 82600	Vinyl	1.4				Special Instructi	ons:
TRIP BLANK_49 MU-1285_080824			1		Ì		1				N	G	X X	Х	Х	Х	Х					1 Trip Blank	
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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-209272-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_49

Lab Sample ID: 240-209272-1 Date Collected: 08/08/24 00:00 **Matrix: Water**

Date Received: 08/10/24 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			08/16/24 12:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/16/24 12:06	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 12:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/16/24 12:06	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 12:06	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/16/24 12:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			_		08/16/24 12:06	1
4-Bromofluorobenzene (Surr)	96		56 ₋ 136					08/16/24 12:06	1
Toluene-d8 (Surr)	96		78 - 122					08/16/24 12:06	1
Dibromofluoromethane (Surr)	85		73 - 120					08/16/24 12:06	1

Client Sample ID: MW-128S_080824 Lab Sample ID: 240-209272-2

Date Collected: 08/08/24 14:10

Date Received: 08/10/24 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			08/15/24 17:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		68 - 127			-		08/15/24 17:11	1
Method: SW846 8260D - Volati	ile 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			08/16/24 15:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/16/24 15:04	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 15:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/16/24 15:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 15:04	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/16/24 15:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		62 - 137			-		08/16/24 15:04	1
4-Bromofluorobenzene (Surr)	106		56 - 136					08/16/24 15:04	1
Toluene-d8 (Surr)	107		78 - 122					08/16/24 15:04	1
Dibromofluoromethane (Surr)	96		73 - 120					08/16/24 15:04	1

Matrix: Water