PREPARED FOR

Attn: Kristoffer Hinskey Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 3/8/2024 7:23:56 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-200195-1

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 3/8/2024 7:23:56 AM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 2

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Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-200195-1

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 240-200195-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

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Case Narrative

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

Job ID: 240-200195-1 Eurofins Cleveland

Job Narrative 240-200195-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/29/2024 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 2 coolers at receipt time were 1.2°C and 2.8°C.

GC/MS VOA

Method 8260D: The matrix spike/matrix spike duplicate (MS/MSD) for samples TRIP BLANK_59 (240-200195-1) and MW-157S_022724 (240-200195-2) was not reported, because the analyte list for these samples did not match the analyte list for the MS/MSD parent sample.

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

Eurofins Cleveland

Job ID: 240-200195-1

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Method Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200195-1

Project/Site: Ford LTP - Off Site

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 - Off Site

Job ID: 240-200195-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-200195-1	TRIP BLANK_59	Water	02/27/24 00:00	02/29/24 08:00
240-200195-2	MW-157S_022724	Water	02/27/24 15:35	02/29/24 08:00

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Detection Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200195-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_59

Lab Sample ID: 240-200195-1

No Detections.

Client Sample ID: MW-157S_022724 Lab Sample ID: 240-200195-2

No Detections.

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200195-1

Project/Site: Ford LTP - Off Site

Date Received: 02/29/24 08:00

Client Sample ID: TRIP BLANK_59

Lab Sample ID: 240-200195-1 Date Collected: 02/27/24 00:00

Matrix: Water

Method: SW846 8260D - Volatil	e Organic Comp	ounds by GC	MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/05/24 19:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/05/24 19:20	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/05/24 19:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/05/24 19:20	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/05/24 19:20	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/05/24 19:20	1

Surrogate	%Recovery Qualifier	Limits	Prepa	ared Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103	62 - 137		03/05/24 19:20	1
4-Bromofluorobenzene (Surr)	85	56 - 136		03/05/24 19:20	1
Toluene-d8 (Surr)	100	78 - 122		03/05/24 19:20	1
Dibromofluoromethane (Surr)	99	73 - 120		03/05/24 19:20	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200195-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-157S_022724

Lab Sample ID: 240-200195-2 Date Collected: 02/27/24 15:35

Matrix: Water

Date Received: 02/29/24 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			03/06/24 07:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		68 - 127			_		03/06/24 07:24	1
1,2-Dichloroethane-d4 (Surr)	87		68 - 127					03/06/24 11:21	1
Method: SW846 8260D - Volati Analyte	•	ounds by G	C/MS	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/06/24 00:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/06/24 00:44	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/06/24 00:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/06/24 00:44	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/06/24 00:44	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/06/24 00:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137			-		03/06/24 00:44	1
4-Bromofluorobenzene (Surr)	82		56 - 136					03/06/24 00:44	1
Toluene-d8 (Surr)	94		78 - 122					03/06/24 00:44	1
Dibromofluoromethane (Surr)	97		73 - 120					03/06/24 00:44	

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 240-200195-1 Project/Site: Ford LTP - Off Site

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)
240-200195-1	TRIP BLANK_59	103	85	100	99
240-200195-2	MW-157S_022724	102	82	94	97
LCS 240-605058/4	Lab Control Sample	95	104	103	98
MB 240-605058/6	Method Blank	103	88	103	98

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)	
240-200195-2	MW-157S_022724	94	
240-200195-2	MW-157S_022724	87	
240-200285-B-3 MS	Matrix Spike	98	
240-200285-B-3 MSD	Matrix Spike Duplicate	96	
500-246731-A-11 MS	Matrix Spike	92	
500-246731-A-11 MSD	Matrix Spike Duplicate	97	
LCS 240-605036/4	Lab Control Sample	115	
LCS 240-605115/4	Lab Control Sample	97	
MB 240-605036/6	Method Blank	97	
MB 240-605115/6	Method Blank	93	

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

Client: Arcadis U.S., Inc. Job ID: 240-200195-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-605058/6

Matrix: Water Analysis Batch: 605058 Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/05/24 18:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/05/24 18:56	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/05/24 18:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/05/24 18:56	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/05/24 18:56	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/05/24 18:56	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 03/05/24 18:56 103 88 03/05/24 18:56 4-Bromofluorobenzene (Surr) 56 - 136 03/05/24 18:56 Toluene-d8 (Surr) 103 78 - 122 Dibromofluoromethane (Surr) 98 73 - 120 03/05/24 18:56

Lab Sample ID: LCS 240-605058/4

Matrix: Water

Analysis Batch: 605058

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	24.0		ug/L		96	63 - 134	
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	77 - 123	
Tetrachloroethene	25.0	23.8		ug/L		95	76 - 123	
trans-1,2-Dichloroethene	25.0	25.3		ug/L		101	75 - 124	
Trichloroethene	25.0	23.8		ug/L		95	70 - 122	
Vinyl chloride	12.5	9.81		ug/L		78	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 95 62 - 137 4-Bromofluorobenzene (Surr) 104 56 - 136 Toluene-d8 (Surr) 103 78 - 122 Dibromofluoromethane (Surr) 73 - 120 98

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

Lab Sample ID: MB 240-605036/6 Client Sample ID: Method Blank

Matrix: Water								Prep Type: 7	Γotal/NA
Analysis Batch: 605036									
	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			03/05/24 21:51	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		68 - 127			-		03/05/24 21:51	1

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3/8/2024

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Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site Job ID: 240-200195-1

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

Lab Sample ID: LCS 240-605036/4

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

Matrix: Water

Analysis Batch: 605036

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	10.0	10.7		ug/L		107	75 - 121	

LCS LCS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 115 68 - 127

Lab Sample ID: 500-246731-A-11 MS Client Sample ID: Matrix Spike

Matrix: Water

Prep Type: Total/NA Analysis Batch: 605036 Sample Sample Spike MS MS %Rec

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 10.0 13.4 97 20 - 180 3.7 ug/L

MS MS

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 92 68 - 127

Lab Sample ID: 500-246731-A-11 MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Water

Analysis Batch: 605036 RPD Spike MSD MSD %Rec Sample Sample

Qualifier Added Analyte Result Result Qualifier Unit D %Rec Limits **RPD** Limit 1,4-Dioxane 3.7 10.0 12.5 88 20 - 180 20 ug/L

MSD MSD

Surrogate %Recovery Qualifier Limits

1,2-Dichloroethane-d4 (Surr) 97 68 - 127

Lab Sample ID: MB 240-605115/6 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 605115

Prep Type: Total/NA

Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 2.0 U 2.0 03/06/24 10:57 1,4-Dioxane 0.86 ug/L

MB MB

мв мв

%Recovery Dil Fac Surrogate Qualifier Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 93 68 - 127 03/06/24 10:57

Lab Sample ID: LCS 240-605115/4

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analysis Batch: 605115

Matrix: Water

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 10.0 8.36 ug/L 84 75 - 121

LCS LCS

%Recovery Surrogate Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 97 68 - 127

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QC Sample Results

Client: Arcadis U.S., Inc.

Job ID: 240-200195-1

Project/Site: Ford LTP - Off Site

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

Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Water
Analysis Batch: 605115

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits 1,4-Dioxane 2.0 U 10.0 8.45 ug/L 84 20 - 180

 Surrogate
 %Recovery 1,2-Dichloroethane-d4 (Surr)
 %Recovery 98
 Limits 68 - 127

Lab Sample ID: 240-200285-B-3 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

8.98

ug/L

90

20 - 180

6

Analysis Batch: 605115

1,4-Dioxane

Lab Sample ID: 240-200285-B-3 MS

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

10.0

 Surrogate
 %Recovery 1,2-Dichloroethane-d4 (Surr)
 96
 Limits 68 - 127

2.0 U

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6

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0

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QC Association Summary

Client: Arcadis U.S., Inc. Job ID: 240-200195-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 605036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200195-2	MW-157S_022724	Total/NA	Water	8260D SIM	
MB 240-605036/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-605036/4	Lab Control Sample	Total/NA	Water	8260D SIM	
500-246731-A-11 MS	Matrix Spike	Total/NA	Water	8260D SIM	
500-246731-A-11 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 605058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200195-1	TRIP BLANK_59	Total/NA	Water	8260D	
240-200195-2	MW-157S_022724	Total/NA	Water	8260D	
MB 240-605058/6	Method Blank	Total/NA	Water	8260D	
LCS 240-605058/4	Lab Control Sample	Total/NA	Water	8260D	

Analysis Batch: 605115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200195-2	MW-157S_022724	Total/NA	Water	8260D SIM	
MB 240-605115/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-605115/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-200285-B-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-200285-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-200195-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_59

Lab Sample ID: 240-200195-1 Date Collected: 02/27/24 00:00

Matrix: Water

Date Received: 02/29/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	605058	CDG	EET CLE	03/05/24 19:20

Client Sample ID: MW-157S_022724 Lab Sample ID: 240-200195-2

Date Collected: 02/27/24 15:35 Matrix: Water

Date Received: 02/29/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	605058	CDG	EET CLE	03/06/24 00:44
Total/NA	Analysis	8260D SIM		1	605036	MDH	EET CLE	03/06/24 07:24
Total/NA	Analysis	8260D SIM		1	605115	MDH	EET CLE	03/06/24 11:21

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. Job ID: 240-200195-1 Project/Site: Ford LTP - Off Site

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	02-27-24 *
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-01-24
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	03-06-24
West Virginia DEP	State	210	12-31-24

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Chain of Custody Record

TestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 610-229-2763

Te	st	4r	ne	eri	C	C
2018						

Client Contact Company Name: Arcads	Regulat	ory program:	:	-	DW		NPD	ES		RC	RA		Othe	er									Translavania I	
Company Name: Art2005	Client Project N	tanager: Kris	H Inske	y		Site	e Cont	tact: (Chris	tina W	eav er				Lab C	Conta	et: MI	ke D el	M onle	0			COC Not	aboratories, Inc
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	004 3340					Telephone: 243-994-2240					Telephone: 220-107-0204												
City/State/Zip: Novl, M1, 48377	Terepaone: 240	-334-7740				116					Telephane: 330-497-9396					1 of 1	COG							
Phone: 248 004 2240	Em all: kristoff	er.hin skey@ar	cadls.c	Om			IcnA	ysis T	prna	round	ound Time				Analyses							For lab use only		
Phone: 248-994-2240	Sampler Name					TA	Tirain	ferent fr	rom bel	low		1											Walk-in chent	
Project Name: Ford LTP Off-Site			12	,		Ì				weeks		1 1												
Project Number: 301 67538,402,04	Method of Ship	ment/Carrier:	-Ci,	Jac			10 da	У		week:	;		0							SIM		l i	Lab sampling	
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				M at	rix	-	Con	talner	3 d. P	reserva	thes	T IS	le = C	826	CE :	-DC	8	8	oride	8				
Sample I dentification	Sample Date	Sample Time	₹.	Aqueous Sediment	Solid Other:	H2504	HN 03	нсі	NAOH	Non	Olber:	Filtered Sample (Y / N)	Composite=C / Grab=G	1,1-DCE 8260D	cis-1,2-DCE	Trans-1,2-DCE	PCE 82 600	rcE 8260D	Vinyl Chloride 82 600	1,4-Dioxane 82600				ecific Notes /
TRIP BLANK_ 59			T	1				1					G	Х	X	X	X	Х	Х				1 Trip Bla	ank
	; ,		++			-		\vdash	-	-	+	+						-		-		 - -	3 VOAs for	92600
MW-1575-022724	2/27/2	t 1535		6				6				N	G	X	X	×	入	*	X	×				8260D SIM
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C2005, Yesthan erics Laboratories, Inc. All rights reserved.

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
Sample(s)were received after the recommended holding time had expired. Sample(s)were received in a broken container Sample(s)were received with bubble >6 mm in diameter (Notify PM)
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
Contacted PM Date by via Verbal Voice Mail Other Concerning
The state of the s
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 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 17 Was a LL Hg or Me Hg trip blank present? Yes NO Yes N
11 Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC? If yes, Ouestions 13-17 have been checked at the originating laboratory
ne COC?), # of containers (BN), ar
Was/were the person(s) who collected the samples clearly identified on the COC? (Test) Did all bottles arrive in good condition (Unbroken)?
5 Shippers' packing slip attached to the cooler(s)? 4. Did custody papers accompany the sample(s)? 5 Were the custody papers relinquished & signed in the appropriate place? 7 Yes No Oil and Grease TOC
-Were tamper/custody seals intact and uncompromised?
s QuantityQes No
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DATA VERIFICATION REPORT



March 08, 2024

Kris Hinskey Arcadis Inc 10559 Citation Ave Suite 100 Brighton, MI 48116

CADENA project ID: E203631

Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater

Project number: 30167538.402.04

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

Laboratory submittal: 200195-1 Sample date: 2024-02-27

Report received by CADENA: 2024-03-08

Initial Data Verification completed by CADENA: 2024-03-08

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 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: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 200195-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2402001 2/27/202	.951			MW-157 2402001 2/27/202	.4		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	<u>60D</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-826	<u>SODSIM</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 # 240-200195-1

CADENA Verification Report: 2024-03-08

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 53354R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-200195-1 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 ID	Labib	IVIALITA	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_59	240-200195-1	Water	02/27/2024		Х	
MW-157S_022724	240-200195-2	Water	02/27/2024		Х	Х

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

SIGNATURE:

DATE: March 23, 2024

PEER REVIEW: Andrew Korycinski

DATE: April 2, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record

TestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 610-229-2763

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Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-2740				Tel	Telephone: 243-994-2240 To				Telephone: 330-497-9396 A nalyses														
City/State/Zip: Novil, M1, 48377																	COG								
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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200195-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_59 Lab Sample ID: 240-200195-1

Date Collected: 02/27/24 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			03/05/24 19:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/05/24 19:20	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/05/24 19:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/05/24 19:20	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/05/24 19:20	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/05/24 19:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137					03/05/24 19:20	1
4-Bromofluorobenzene (Surr)	85		56 ₋ 136					03/05/24 19:20	1
Toluene-d8 (Surr)	100		78 - 122					03/05/24 19:20	1
Dibromofluoromethane (Surr)	99		73 - 120					03/05/24 19:20	1

Client Sample ID: MW-157S_022724

Date Collected: 02/27/24 15:35

Date Received: 02/29/24 08:00

Method: SW846 8260D SIM	- Volatile Orga	anic Comp	ounds (GC/N	1S)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/06/24 07:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		68 - 127			-		03/06/24 07:24	1
1,2-Dichloroethane-d4 (Surr)	87		68 - 127					03/06/24 11:21	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/06/24 00:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/06/24 00:44	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/06/24 00:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/06/24 00:44	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/06/24 00:44	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/06/24 00:44	1

Surrogate	70INECOVERY	Quaimei	Liiiillo	riepaieu	Allalyzeu	Diriac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137		03/06/24 00:44	1
4-Bromofluorobenzene (Surr)	82		56 - 136		03/06/24 00:44	1
Toluene-d8 (Surr)	94		78 - 122		03/06/24 00:44	1
Dibromofluoromethane (Surr)	97		73 - 120		03/06/24 00:44	1

Lab Sample ID: 240-200195-2

Matrix: Water