PREPARED FOR

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

Generated 3/6/2024 8:45:03 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-200096-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

Generated 3/6/2024 8:45:03 AM

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

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Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-200096-1

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 240-200096-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

DL, RA, RE, IN

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

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)

MDD Mathed Detection Limit

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: 240-200096-1 Eurofins Cleveland

Job Narrative 240-200096-1

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 2/28/2024 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.3°C, 2.6°C, 3.1°C and 4.2°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: 240-200096-1

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Method Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200096-1

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: 240-200096-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-200096-1	TRIP BLANK_110	Water	02/22/24 00:00	02/28/24 10:00
240-200096-2	MW-119S_022224	Water	02/22/24 16:35	02/28/24 10:00

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Detection Summary

Client: Arcadis U.S., Inc. Job ID: 240-200096-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_110 Lab Sample ID: 240-200096-1 No Detections.

Client Sample ID: MW-119S_022224 Lab Sample ID: 240-200096-2

No Detections.

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200096-1

Project/Site: Ford LTP - Off Site

Date Received: 02/28/24 10:00

Client Sample ID: TRIP BLANK_110

Lab Sample ID: 240-200096-1 Date Collected: 02/22/24 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			02/29/24 18:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/29/24 18:01	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/29/24 18:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/29/24 18:01	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/29/24 18:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/29/24 18:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		02/29/24 18:01	1
4-Bromofluorobenzene (Surr)	86		56 ₋ 136					02/29/24 18:01	1
Toluene-d8 (Surr)	94		78 - 122					02/29/24 18:01	1
Dibromofluoromethane (Surr)	103		73 - 120					02/29/24 18:01	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200096-1

Project/Site: Ford LTP - Off Site

Date Received: 02/28/24 10:00

Dibromofluoromethane (Surr)

Client Sample ID: MW-119S_022224

Lab Sample ID: 240-200096-2 Date Collected: 02/22/24 16:35

Matrix: Water

02/29/24 18:24

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/04/24 14:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	126		68 - 127			-		03/04/24 14:37	1
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/29/24 18:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/29/24 18:24	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/29/24 18:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/29/24 18:24	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/29/24 18:24	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/29/24 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		02/29/24 18:24	1
4-Bromofluorobenzene (Surr)	91		56 ₋ 136					02/29/24 18:24	1
Toluene-d8 (Surr)	96		78 ₋ 122					02/29/24 18:24	1

73 - 120

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 240-200096-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

-				Percent Sui	rogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-199734-B-3 MS	Matrix Spike	105	93	96	100
240-199734-B-3 MSD	Matrix Spike Duplicate	106	102	100	103
240-200096-1	TRIP BLANK_110	111	86	94	103
240-200096-2	MW-119S_022224	116	91	96	108
LCS 240-604539/4	Lab Control Sample	106	97	99	100
MB 240-604539/7	Method Blank	107	90	91	102
0					

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)	
240-200096-2	MW-119S_022224	126	
240-200104-F-2 MS	Matrix Spike	97	
240-200104-F-2 MSD	Matrix Spike Duplicate	103	
LCS 240-604855/4	Lab Control Sample	105	
MB 240-604855/6	Method Blank	101	
Surrogate Legend			

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

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Job ID: 240-200096-1

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

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

Lab Sample ID: MB 240-604539/7

Matrix: Water

1,1-Dichloroethene

Tetrachloroethene trans-1,2-Dichloroethene

Trichloroethene

Vinyl chloride

cis-1,2-Dichloroethene

Analyte

Analysis Batch: 604539

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

02/29/24 11:44

MB MB Dil Fac Result Qualifier RLMDL Unit D Prepared Analyzed 1.0 U 1.0 0.49 ug/L 02/29/24 11:44 1.0 U 1.0 0.46 ug/L 02/29/24 11:44 1.0 U 1.0 0.44 ug/L 02/29/24 11:44 1.0 U 02/29/24 11:44 1.0 0.51 ug/L 1.0 U 1.0 0.44 ug/L 02/29/24 11:44

0.45 ug/L

1.0 U MB MB

Surrogate	%Recovery G	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107	62 - 137		02/29/24 11:44	1
4-Bromofluorobenzene (Surr)	90	56 - 136		02/29/24 11:44	1
Toluene-d8 (Surr)	91	78 - 122		02/29/24 11:44	1
Dibromofluoromethane (Surr)	102	73 - 120		02/29/24 11:44	1

1.0

Lab Sample ID: LCS 240-604539/4

Matrix: Water

Analysis Batch: 604539

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	26.2		ug/L		105	63 - 134	
cis-1,2-Dichloroethene	25.0	25.1		ug/L		100	77 - 123	
Tetrachloroethene	25.0	26.6		ug/L		107	76 - 123	
trans-1,2-Dichloroethene	25.0	26.5		ug/L		106	75 - 124	
Trichloroethene	25.0	26.0		ug/L		104	70 - 122	
Vinyl chloride	12.5	9.49		ug/L		76	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		62 _ 137
4-Bromofluorobenzene (Surr)	97		56 - 136
Toluene-d8 (Surr)	99		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

Lab Sample ID: 240-199734-B-3 MS

Matrix: Water

Analysis Batch: 604539

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	5.0	U	125	103		ug/L		83	56 - 135	
cis-1,2-Dichloroethene	12		125	130		ug/L		94	66 - 128	
Tetrachloroethene	3.7	J	125	105		ug/L		81	62 - 131	
trans-1,2-Dichloroethene	5.0	U	125	113		ug/L		91	56 - 136	
Trichloroethene	3.1	J	125	112		ug/L		87	61 - 124	
Vinyl chloride	5.0	U	62.5	40.1		ug/L		64	43 - 157	

MS MS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		62 - 137
4-Bromofluorobenzene (Surr)	93		56 - 136
Toluene-d8 (Surr)	96		78 - 122

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Project/Site: Ford LTP - Off Site

Client: Arcadis U.S., Inc. Job ID: 240-200096-1

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

Lab Sample ID: 240-199734-B-3 MS

Matrix: Water

Analysis Batch: 604539

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

MS MS

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

Lab Sample ID: 240-199734-B-3 MSD

Matrix: Water

Analysis Batch: 604539

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	5.0	U	125	110		ug/L		88	56 - 135	6	26
cis-1,2-Dichloroethene	12		125	129		ug/L		93	66 - 128	1	14
Tetrachloroethene	3.7	J	125	115		ug/L		89	62 - 131	9	20
trans-1,2-Dichloroethene	5.0	U	125	116		ug/L		93	56 - 136	3	15
Trichloroethene	3.1	J	125	121		ug/L		94	61 - 124	8	15
Vinyl chloride	5.0	U	62.5	47.2		ug/L		75	43 - 157	16	24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	100		78 - 122
Dibromofluoromethane (Surr)	103		73 - 120

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

Lab Sample ID: MB 240-604855/6

Matrix: Water

Analysis Batch: 604855

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/04/24 12:37	1
	МВ	МВ							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 101 68 - 127 03/04/24 12:37

Lab Sample ID: LCS 240-604855/4

Analyte

Lab Sample ID: LCS 240-604855/4	Client Sample ID: Lab Control Sample		
Matrix: Water			Prep Type: Total/NA
Analysis Batch: 604855			
	Spike	LCS LCS	%Rec

Result Qualifier

Unit

1,4-Dioxane 10.0 8.69 ug/L LCS LCS %Recovery Qualifier Surrogate Limits

105

MR MR

Lab Sample ID: 240-200104-F-2 MS

Matrix: Water

Analysis Batch: 604855

1,2-Dichloroethane-d4 (Surr)

Client Sample ID: Matrix Spike

Limits

75 - 121

%Rec

87

Prep Type: Total/NA

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,4-Dioxane 2.0 U 10.0 9.20 ug/L 92 20 - 180

Added

68 - 127

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QC Sample Results

10.0

Client: Arcadis U.S., Inc. Job ID: 240-200096-1

Project/Site: Ford LTP - Off Site

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

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

_		
Lab Sample	ID: 240-2001	04-F-2 MSD

Matrix: Water

Analyte

1,4-Dioxane

Analysis Batch

•									Prep	Type: To	tal/NA
ch: 604855											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit

8.42

ug/L

MSD MSD

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 103 68 - 127 **Client Sample ID: Matrix Spike Duplicate**

%Rec Limits RPD Limit

20 20 - 180 9

QC Association Summary

Client: Arcadis U.S., Inc. Job ID: 240-200096-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 604539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
240-200096-1	TRIP BLANK_110	Total/NA	Water	8260D	
240-200096-2	MW-119S_022224	Total/NA	Water	8260D	
MB 240-604539/7	Method Blank	Total/NA	Water	8260D	
LCS 240-604539/4	Lab Control Sample	Total/NA	Water	8260D	
240-199734-B-3 MS	Matrix Spike	Total/NA	Water	8260D	
240-199734-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 604855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200096-2	MW-119S_022224	Total/NA	Water	8260D SIM	
MB 240-604855/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-604855/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-200104-F-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-200104-F-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-200096-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_110

Lab Sample ID: 240-200096-1 Date Collected: 02/22/24 00:00

Matrix: Water

Date Received: 02/28/24 10:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	604539	LEE	EET CLE	02/29/24 18:01

Client Sample ID: MW-119S_022224 Lab Sample ID: 240-200096-2

Date Collected: 02/22/24 16:35 Matrix: Water

Date Received: 02/28/24 10:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	604539	LEE	EET CLE	02/29/24 18:24
Total/NA	Analysis	8260D SIM		1	604855	MDH	EET CLE	03/04/24 14:37

Laboratory References:

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

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Accreditation/Certification Summary

Client: Arcadis U.S., Inc. Job ID: 240-200096-1 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	09-14-24	
West Virginia DEP	State	210	12-31-24	

^{*} Accreditation/Certification renewal pending - accreditation/certification considered valid.

Chain of Custody Record

CH CestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Suite 2007 Brighton, MI 48116 7810-229-2763

TestAmeric	Q
THE LEADER IN ENVIRONMENTAL TES	TING

Client Contact 190 Company Name: Arcadis	Regulat	ory program	:		₽ DV	v		PDES		R	CRA		Ot	her									Te	stAmerica L	aboratori	ries. Inc
Address: 28550 Cabot Drive, Suite 500	Client Project !	danager: Kris	H Insi	key			Site C	ontact:	Chr	istina V	V eav e	er			Lab (Contac	t: MIk	e D el	Мопіс	0				DC Nox		
	Telephone: 248	-994-2240					Telep	hone: 2	48-9	94-2240)				Telep	th on e:	330-4	97-93	96				1			
City/State/Zip: Novi, Mi, 48377	Em all: kristoff	er.hinskey@ar	cadis	.com			A	nalysis	Terr	around	Пш	•			Analyses				1 of 1 COCs For lab use only		۵5					
Phone: 248-994-2240							TAT if different from below									w.	lk-in chient	1								
Project Name: Ford LTP Off-Site	Sampler Name	arjam Hanani		3 weeks																						
Project Number: 30167538,402,04	Method of Ship		•	100			10 day 2 weeks U week 2 days								SIM			Lab sampling								
PO # 30167538.402.04	Shipping/Track	Ing No:								1 days			/Grab	9	3260D	E 82 60D			CO9 28	2600 SI			Job/SDG Na			
					Matrix	1	-	Contain	ers &	Preserv:	atives	=	Sam Ite=C	8260D	S S	2-DC	300	00	loride	ane 8						
Sample I dentification	Sample Date	Sample Time	Air	Aquions	Sediment	Other:	н280ч	HOO	NaOH	Znakoj NaOH	Other:		Filtered Sample (Y/N) Composite=C/Grab=G	1,1-DCE	as-1,2-DCE 82600	Trans-1,2-DCE	PCE 82 60D	TCE 8260D	Vinyl Chloride	1,4-Dioxane 8260D				Sample Special In		
TRIP BLANK_ [/O				1				1				ı	V G	X	X	Х	Х	X	X					1 Trip Bla	nk	
MW-1198_022224	2/22/24	1635		×				6				,	J G	X	X	×	X	X	X	X				3 VOAs for 3 VOAs for		SIM
	+							+				\dashv											+			
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									-	240-2	2000	96 CI	hain d	of Cus	stody				_							
Possible Hazard I dentification Non-Hazard Flammable Skin Irrit	ant Poisc	n B	Unk	nown		at 1	Sar			al (A fe		y be ass Disp			les ar		ned la rchive		han 1	month) Mori	lhs					
Special Instructions/QC Requirements & Comments: Sample Address: Submit all results through Cadena at jtomalia@cadenac.	o.com. Cadena #	E203631		(20	34	ġ) O S	te	W)	1	Pos	7	8-	7											
Level IV Reporting requested. Relinquished by: Relinquished by: Relinquished by: A support of the content o	Company: AYCOLO	0.,		Dale/	Time:	24	BO	_	R ec	erved by		2-1-) (علم	~~ -	^		Comp	any:	dis			Da O	le/Time:	120	
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Page 18 of 20

3/6/2024

VOA Sample Preservation - Date/Time VOAs Frozen.
20 SAMPLE PRESERVATION Sample(s) were further preserved in the laboratory Time preserved Preservative(s) added(for number(s))
19 SAMPLE CONDITION 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
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 NA Yes No NA Yes No NA Yes No
) 2
Shippers' packing slip attached to the cooler(s)? Did custody papers accompany the sample(s)? Were the custody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Yes No -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 intact and uncompromised? Yes No NA Receiving
COOLANI? Well 152 Blue Ice Dry Ice Water None 1 Cooler temperature upon receipt IR GUN#(CF°C) Observed Cooler Temp°C Corrected Cooler Temp°C
ox Client Cooler Box Foam Plastic Bag N
Receipt After-houng Drop-off Date/Time Storage Location
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Barberton Facility Barberton Facility Site Name Login # Login # Login # Cooler unpayied by

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(Circle)	Temp °C	Jemp °C	(Circle)	Cooler Description (Circle)	oler Descri
Coolant	Euroline - Camor Sample Neverton multiple Corrected	Observed	Euronns - Canton		

WINCOM Cooler Receipt Form Page 3 - Multiple Codes

DATA VERIFICATION REPORT



March 06, 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: 200096-1 Sample date: 2024-02-22

Report received by CADENA: 2024-03-06

Initial Data Verification completed by CADENA: 2024-03-06

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: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 200096-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2402000 2/22/202				MW-119S_022224 2402000962 2/22/2024			
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC OSW-826	0D									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-826	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-200096-1

CADENA Verification Report: 2024-03-06

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 53271R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-200096-1 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	Parent Sample	VOC	VOC SIM
TRIP BLANK_110	240-200096-1	Water	02/22/2024		Х	
MW-119S_022224	240-200096-2	Water	02/22/2024		Х	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance otable	Not
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
Requested analyses and sample results		X		Х	
Master tracking list		X		Х	
4. Methods of analysis		X		Х	
5. Reporting limits		X		Х	
6. Sample collection date		Х		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	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: Bindu Sree M B

SIGNATURE: BAShime

DATE: March 19, 2024

PEER REVIEW: Andrew Korycinski

DATE: March 26, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record

CH (cst-America Lab oratory location: Brighton -- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763



Client Contact Company Name: Arcadis	Regulat	ory program	:		D	w	Г	NPDE	S	-	RC	RA	ſ	Oth	her									TestAmeric	a Laboratorio	s, Ind
Address: 28550 Cabot Drive, Suite 500	Client Project Manager: Kris Hinskey						Site Contact: Christina Weaver							Lab Contact: Mike DelMonico Telephone: 330-497-9396					COC Na							
	Telephone: 248-994-2240					Teleph one: 248-994-2240						200														
City/State/Zip: Nov1, M1, 48377	Em all: kristoff	Em all: kristoffer.hinskey@arcadis.com					Analysis Turnaround Time						Analyses						1 of 1 COCs For lab use only							
Phone: 248-994-2240											1		7											Walk-in chien		
Project Name: Ford LTP Off-Site	Sampler Name: Yourgown Honouru Method of Shipment/Carrier: Shipping/Tracking No:					TAT if different from below 3 weeks 10 day 2 weeks														Lab sampling						
Project Number: 30167538,402,04						1 '	o cay		1 w	eek		E	FG F	,		ac				N S			cao sampring			
PO # 301 67538.402.04						2 days 1 day 2 ontainers & Preservatives Containers & Preservatives					8260D	82600 CF 8260	CE 82 60D	% 82 6v		Me 82 60D	8260D			Job/SDG Na						
Sample I dentification	Sample Date	Sample Time	Air	Aquions	Matri	Other:	нгзон		iners .		1.		Filtered Sag	Composite=C/Grab=G	1,1-DCE 820	as-1,2-DCE	Trans-1,2-DCE	PCE 82 60D	TCE 8260D	Vinyi Chloride	1,4-Dioxane				e Specific Notes al Instructions:	
TRIP BLANK_ NO				1					1				N	1 G	X	X	Х	X	X	X				1 Trip	Blank	
MW-1198_02224	2/22/24	1635		X				1	0				7	39	X	X	×	X	X	X	X				for 8260D for 8260D S	IM.
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Possible Hazard Identification Non-Hazard Flammable Skin Irri	ant Poiso	- D (Unk			-21	S			sal (A		may be				les ar		ned lo		han 1	month)	on this				
Special Instructions/QC Requirements & Comments: Sample Address: Submit all results through Cadena at jtomalia@cadenac			Olik			34	į					Pa				7		. Canve			1410		•			
Relinquished by: Maryemflences Seringuished by:	Company:	lie		Date	Time: 22/	24	BC	∞	Re	ecei ver	d by:	Ca	aid	.5	Stor	704	٥		Com	oany:	idi:	2		Date/Time: 2/72/2	4 1800	_
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QC000, Testamerica Laboratories, Inc. All rights resolved. Testamerica & Design *** are trademiarius of Testa in entral Laboratories, Inc.						110	-		_		1	10	41	پر	V.					<u> </u>	· <u>·</u>					7134

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200096-1

Project/Site: Ford LTP - Off Site

Lab Sample ID: 240-200096-1 Client Sample ID: TRIP BLANK_110

Date Collected: 02/22/24 00:00 **Matrix: Water** Date Received: 02/28/24 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			02/29/24 18:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/29/24 18:01	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/29/24 18:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/29/24 18:01	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/29/24 18:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/29/24 18:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137					02/29/24 18:01	1
4-Bromofluorobenzene (Surr)	86		56 ₋ 136					02/29/24 18:01	1
Toluene-d8 (Surr)	94		78 - 122					02/29/24 18:01	1
Dibromofluoromethane (Surr)	103		73 - 120					02/29/24 18:01	1

Client Sample ID: MW-119S_022224 Lab Sample ID: 240-200096-2

Date Collected: 02/22/24 16:35 Date Received: 02/28/24 10:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS) Result Qualifier Analyte MDL Unit D Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 03/04/24 14:37 %Recovery Qualifier Limits Surrogate Prepared Analyzed Dil Fac

1,2-Dichloroethane-d4 (Surr)	126		68 - 127					03/04/24 14:37	1
Method: SW846 8260D - Vol	atile Organic	Compoun	ds 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			02/29/24 18:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			02/29/24 18:24	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			02/29/24 18:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			02/29/24 18:24	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			02/29/24 18:24	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			02/29/24 18:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		62 - 137			-		02/29/24 18:24	1
4-Bromofluorobenzene (Surr)	91		56 ₋ 136					02/29/24 18:24	1

ı	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1,2-Dichloroethane-d4 (Surr)	116		62 - 137		02/29/24 18:24	1
ı	4-Bromofluorobenzene (Surr)	91		56 - 136		02/29/24 18:24	1
ı	Toluene-d8 (Surr)	96		78 - 122		02/29/24 18:24	1
I	Dibromofluoromethane (Surr)	108		73 - 120		02/29/24 18:24	1

Matrix: Water