PREPARED FOR

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

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JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-205248-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

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Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 -6

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

Laboratory Job ID: 240-205248-1

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 240-205248-1

Project/Site: Ford LTP

Qualifiers

	VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Indicates the analyte was analyzed for but not detected.

Glossarv

Ciossary	
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)
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)

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

MDL Method Detection Limit MLMinimum 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**

Relative Error Ratio (Radiochemistry) RER

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

Case Narrative

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

Job ID: 240-205248-1 Eurofins Cleveland

Job Narrative 240-205248-1

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 5/25/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.3°C.

GC/MS VOA

Method 8260D_SIM: The method blank for analytical batch 240-615139 contained 1,4-Dioxane above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or reanalysis of samples was not performed.

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: 240-205248-1

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Method Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-205248-1

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: 240-205248-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-205248-1	TRIP BLANK_77	Water	05/20/24 00:00	05/25/24 08:00
240-205248-2	MW-135S_052024	Water	05/20/24 12:50	05/25/24 08:00

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Detection Summary

Client: Arcadis U.S., Inc.

Job ID: 240-205248-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_77

Lab Sample ID: 240-205248-1

No Detections.

Client Sample ID: MW-135S_052024 Lab Sample ID: 240-205248-2

No Detections.

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-205248-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_77

Date Received: 05/25/24 08:00

Lab Sample ID: 240-205248-1 Date Collected: 05/20/24 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			05/31/24 23:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/31/24 23:40	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/31/24 23:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/31/24 23:40	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/31/24 23:40	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/31/24 23:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137			-		05/31/24 23:40	1
4-Bromofluorobenzene (Surr)	91		56 ₋ 136					05/31/24 23:40	1
Toluene-d8 (Surr)	91		78 - 122					05/31/24 23:40	1
Dibromofluoromethane (Surr)	92		73 - 120					05/31/24 23:40	1

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-205248-1

Project/Site: Ford LTP

Client Sample ID: MW-135S_052024

Date Collected: 05/20/24 12:50

Lab Sample ID: 240-205248-2 Matrix: Water

Analyzed

06/03/24 01:26

Prepared

Date Received: 05/25/24 08	:00					
Method: SW846 8260D SI	M - Volatile Organic C	ompounds (G	C/MS)			
Analyte	Result	Qualifier	RL	MDL	Unit	D
1,4-Dioxane	2.0	U	2.0	0.86	ug/L	

١							
	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
١	1,2-Dichloroethane-d4 (Surr)	105		68 - 127		06/03/24 01:26	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/31/24 23:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/31/24 23:15	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/31/24 23:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/31/24 23:15	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/31/24 23:15	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/31/24 23:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95	62 - 137	_		05/31/24 23:15	1
4-Bromofluorobenzene (Surr)	100	56 - 136			05/31/24 23:15	1
Toluene-d8 (Surr)	94	78 - 122			05/31/24 23:15	1
Dibromofluoromethane (Surr)	94	73 - 120			05/31/24 23:15	1

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Dil Fac

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Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 240-205248-1

Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-205062-A-1 MS	Matrix Spike	92	97	94	95
240-205062-A-1 MSD	Matrix Spike Duplicate	90	92	95	92
240-205248-1	TRIP BLANK_77	91	91	91	92
240-205248-2	MW-135S_052024	95	100	94	94
LCS 240-615034/5	Lab Control Sample	95	96	95	94
MB 240-615034/9	Method Blank	93	93	96	100
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)	
240-205248-2	MW-135S_052024	105	
240-205269-B-24 MSD	Matrix Spike Duplicate	104	
240-205269-C-24 MS	Matrix Spike	105	
LCS 240-615139/4	Lab Control Sample	103	
MB 240-615139/6	Method Blank	103	
Surrogate Legend			

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

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6/5/2024

Client: Arcadis U.S., Inc. Job ID: 240-205248-1

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

Lab Sample ID: MB 240-615034/9

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 615034

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

MB MB Dil Fac Analyte Result Qualifier RLMDL Unit D Prepared Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 05/31/24 14:41 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 05/31/24 14:41 1.0 U 1.0 0.44 ug/L 05/31/24 14:41 Tetrachloroethene trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 05/31/24 14:41 Trichloroethene 1.0 U 1.0 0.44 ug/L 05/31/24 14:41 Vinyl chloride 1.0 U 1.0 0.45 ug/L 05/31/24 14:41

MB MB

Surrogate	%Recovery Qual	lifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93	62 - 137		05/31/24 14:41	1
4-Bromofluorobenzene (Surr)	93	56 - 136		05/31/24 14:41	1
Toluene-d8 (Surr)	96	78 - 122		05/31/24 14:41	1
Dibromofluoromethane (Surr)	100	73 - 120		05/31/24 14:41	1

Lab Sample ID: LCS 240-615034/5

Matrix: Water

Analysis Batch: 615034

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	17.4		ug/L	_	87	63 - 134	
cis-1,2-Dichloroethene	20.0	17.9		ug/L		89	77 - 123	
Tetrachloroethene	20.0	20.8		ug/L		104	76 - 123	
trans-1,2-Dichloroethene	20.0	17.1		ug/L		85	75 - 124	
Trichloroethene	20.0	19.6		ug/L		98	70 - 122	
Vinyl chloride	20.0	17.0		ug/L		85	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		62 - 137
4-Bromofluorobenzene (Surr)	96		56 ₋ 136
Toluene-d8 (Surr)	95		78 - 122
Dibromofluoromethane (Surr)	94		73 - 120

Lab Sample ID: 240-205062-A-1 MS

Matrix: Water

Analysis Batch: 615034

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	100	U	2000	1750		ug/L		88	56 - 135	
cis-1,2-Dichloroethene	1000		2000	2710		ug/L		84	66 - 128	
Tetrachloroethene	100	U	2000	2010		ug/L		100	62 - 131	
trans-1,2-Dichloroethene	100	U	2000	1690		ug/L		84	56 - 136	
Trichloroethene	100	U	2000	1810		ug/L		90	61 - 124	
Vinyl chloride	2000		2000	3530		ug/L		74	43 - 157	

MS MS

Surrogate	%Recovery Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92	62 - 137
4-Bromofluorobenzene (Surr)	97	56 - 136
Toluene-d8 (Surr)	94	78 - 122

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Job ID: 240-205248-1

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

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

Lab Sample ID: 240-205062-A-1 MS

Matrix: Water

Analysis Batch: 615034

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

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 95 73 - 120

Lab Sample ID: 240-205062-A-1 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Analysis Batch: 615034

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	100	U	2000	1810		ug/L		90	56 - 135	3	26
cis-1,2-Dichloroethene	1000		2000	2770		ug/L		87	66 - 128	2	14
Tetrachloroethene	100	U	2000	2000		ug/L		100	62 - 131	1	20
trans-1,2-Dichloroethene	100	U	2000	1710		ug/L		85	56 - 136	1	15
Trichloroethene	100	U	2000	1880		ug/L		94	61 - 124	4	15
Vinyl chloride	2000		2000	3510		ug/L		73	43 - 157	1	24

MSD MSD

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		62 - 137
4-Bromofluorobenzene (Surr)	92		56 - 136
Toluene-d8 (Surr)	95		78 - 122
Dibromofluoromethane (Surr)	92		73 - 120

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

Lab Sample ID: MB 240-615139/6

Matrix: Water

Analysis Batch: 615139

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1,4-Dioxane 0.884 J 2.0 0.86 ug/L 06/02/24 23:49 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 103 68 - 127 06/02/24 23:49

Lab Sample ID: LCS 240-615139/4

Matrix: Water

Analysis Batch: 615139

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

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 10.0 11.0 ug/L 110

LCS LCS

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

Lab Sample ID: 240-205269-B-24 MSD

Matrix: Water

Analysis Ratch: 615139

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analysis Batch. 010100											
	Sample	Sample	Spike	MSD	MSD			%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	%Rec	Limits	RPD	Limit	
1,4-Dioxane	1.6	JB	10.0	10.5		ug/L	89	20 - 180	3	20	

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QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-205248-1

Project/Site: Ford LTP

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

	MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	104		68 - 127							
- Lab Sample ID: 240-205269	-C-24 MS							Client	Sample ID: M	atrix Spike
Matrix: Water									Prep Type	e: Total/NA
Analysis Batch: 615139										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	1.6	JB	10.0	10.2		ug/L		86	20 - 180	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							

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QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-205248-1

GC/MS VOA

Analysis Batch: 615034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-205248-1	TRIP BLANK_77	Total/NA	Water	8260D	
240-205248-2	MW-135S_052024	Total/NA	Water	8260D	
MB 240-615034/9	Method Blank	Total/NA	Water	8260D	
LCS 240-615034/5	Lab Control Sample	Total/NA	Water	8260D	
240-205062-A-1 MS	Matrix Spike	Total/NA	Water	8260D	
240-205062-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 615139

Lab Sample ID 240-205248-2	Client Sample ID MW-135S_052024	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
MB 240-615139/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-615139/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-205269-B-24 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	
240-205269-C-24 MS	Matrix Spike	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-205248-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_77

Lab Sample ID: 240-205248-1 Date Collected: 05/20/24 00:00

Matrix: Water

Date Received: 05/25/24 08:00

		Batch	Batch		Dilution	Batch			Prepared
	Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
l	Total/NA	Analysis	8260D		1	615034	AJS	EET CLE	05/31/24 23:40

Client Sample ID: MW-135S_052024 Lab Sample ID: 240-205248-2

Date Collected: 05/20/24 12:50 Matrix: Water

Date Received: 05/25/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	615034	AJS	EET CLE	05/31/24 23:15
Total/NA	Analysis	8260D SIM		1	615139	MDH	EET CLE	06/03/24 01:26

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-205248-1

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	07-31-24
Iowa	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	06-30-24
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	08-31-24
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

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Chain of Custody Record

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TestAr	mérico
THE LEADER IN ENV	IRONMENTAL TESTIN

1	TestAmerica Laborat	ory location:	Brighto	n — 10	0448 Ci	tation Di	ive, S	Suite 2	200 /	Brighto	n, MI 48	116 /	810-2	29-27	63								THE	LEADER IN ENVIRONM	ENTAL TESTIN
Client Contact	Regulate	ory program:			DW	Г	NPI	DES		┌ RC	RA	T (Other			-									
ompany Name: Arcadis	Client Project N	lanager: Kris	Hinskey			Sit	e Con	tact: (Chris	tina W	eaver			L	ab Cor	tact: N	like De	LMonic	:0		—	-		TestAmerica Labo COC No:	ratories, In-
ddress: 28550 Cabot Drive, Suite 500	Telephone: 248-					Tal	enho	ne: 74	8-99.1	I-2240					Telephone: 330-497-9396					_					
ty/State/Zip: Novi, MI, 48377										around Time											1 of 1	COCs			
none: 248-994-2240	Email: kristoffe	r.hinskey@ar	cadis.cor	n							AME .	11	ŀ	1	Analyses								For lab use only		
roject Name: Ford LTP	Sampler Name:	Alan	a D	10	100	TA	Tifdii	Cerent fr	┌ 3	weeks	L	Н												Walk-in client	
roject Number: 30206169.0401.03	Method of Ships		9 7	170	<u> </u>	-	10 da	ay .		weeks week			(2)						2					Lab sampling	-
O # US3410018772		Shipping/Tracking No:					C 2	2 days		Y/N	Tab G		ءِ ا	7000		99	IS QC					Job/SDG No:			
7# 033910010/12	Suppling Track	ing 140.		M-s	-1	\perp				·		ig i	5	<u>a</u>	826(2		le 82	826					300/300 140.	
				Mat			Con	nthiner	3 & F	reservat	Ives	d San	S C	E 82	DO !	0.27	Q09	hlork	хале					_	
Completed and and and	Sample Date	Sample Time	Air	Sediment	Solid Other:	H2SOM	HN03	⊒	HO	NaOH Unpres	Other:	Filtered Sample (Y / N)	Composite=C/	1,1-DCE 8260D	cis-1,2-DCE 8260D	Frans-1, z-Due 6zeud	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM					Sample Specifi Special Instru	
Sample Identification	Sample Date	Sample Time		3	Ø O	- =	=		2	3 Z D	-	Ħ	=		=	_			-						
TRIP BLANK_77			1			\perp		1			<u> </u>	N	G :	X 2	x ;	< X	X	X						1 Trip Blank	
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submit all results through Cadena at jtomalia@caden	aco.com. Cadena #E	203728	17	03	33	S	10	101	4	Ba	-0					2r	10c)	2 N	010	× 4	را ر	ne			
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VOA Sample Preservation - Date/Time VOAs Frozen.
Sample(s) Were further preserved in the laboratory Time preserved Preservative(s) added/Lot number(s)
PLE PRESERVATION
Sample(s)were received after the recommended holding time had expired Sample(s)were received with bubble >6 mm in diameter (Notify PM)
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
Concerning
Contacted PM Date by via Verbal Voice Mail Other
15 Were air bubbles >6 mm in any VOA vials? Larger than this 16 Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # COURCE Yes No. 17 Was a LL Hg or Me Hg trip blank present? Yes You
13 Were all preserved sample(s) at the correct pH upon receipt? 14 Were VOAs on the COC? 15 Tyes, Questions 13-1 / nave been checked at the originating laboratory 16 Yes, No (NA) ph Strip Loff HC339814 17 Were VOAs on the COC?
11 Sufficient quantity received to perform indicated analyses? 12 Are these work share samples and all listed on the COC? Yes No Yes No
For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and say Were correct bottle(s) used for the test(s) indicated?
7 Did all bottles arrive in good condition (Unbroken)? 8 Could all bottle labels (ID/Date/Time) he reconciled with the COC? Yes No
Did custody papers accompany the sample(s)? Were the custody papers relinquished & signed in the appropriate place? Yes
-Were tamper/custody seals intact and uncompromised? Shippers' packing slip attached to the cooler(s)? Yes No NA
If Yes Quantity Yes No dated? (LLHg/MeHg)? Yes Yo
; Dry Ice Water None ☐ See Multiple Gov
used. Bubble Wrap Foam Plastic Bag
urs Drop-off Date/Thue Storage Location
PS FAS Waypoint Client Drop Off Eurofins Couner Other
0:00:04 d:0
Euroints — Cieveranu Sampie Ketelji-KormiNatrative: Barberton Facility
11

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Temperature readings

MW-135S_052024	MW-135S_052024	MW-135S_052024	MW-135S_052024	MW-135S_052024	MW-135S_052024	TRIP BLANK_77	Client Sample ID
240-205248-F-2	240-205248-E-2	240-205248-D-2	240-205248-C-2	240-205248-B-2	240-205248-A-2	240-205248-A-1	Lab ID
Voa Vial 40ml - Hydrochloric Acid	Voa Vıal 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Container Type			
					Approximation and the second s		Container Preservation Preservation pH Temp Added Lot Number

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Page 1 of 1

DATA VERIFICATION REPORT



June 05, 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: 30206169.401.03

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

Laboratory submittal: 205248-1 Sample date: 2024-05-20

Report received by CADENA: 2024-06-05

Initial Data Verification completed by CADENA: 2024-06-05

Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC

Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

The following minor QC exceptions or missing information were noted:

GCMS VOC SIM QC batch method blank had a detection below the RL for the following analyte: 1,4-DIOXANE. Qualification of client sample results was not required based on this method blank detection.

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 $48108\ 517\text{-}819\text{-}0356$

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
В	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
Е	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 205248-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BL/ 240205 5/20/20	2481			MW-135 240205 5/20/20		24	
	Analyte	Cas No.	Result	Report Limit		Valid Qualifier	Result	Report Limit		Valid Qualifier
GC/MS VOC	·	out ite.	noout		Omico	Quanio	noout	2	G into	Quumoi
<u>OSW-8260</u>	<u>טכ</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>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 # 240-205248-1

CADENA Verification Report: 2024-06-05

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 54679R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-205248-1 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	Analysis				
Sample ID	Labib	IVIALITA	Collection Date	Farent Sample	VOC	VOC SIM			
TRIP BLANK_77	240-205248-1	Water	05/20/2024		X				
MW-135S_052024	240-205248-2	Water	05/20/2024		X	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		X	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		Х	
Narrative summary of Quality Assurance or sample problems provided		Х		Х	
12. Data Package Completeness and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260D and 8260D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method Matrix		Holding Time	Preservation			
SW-846 8260D/8260D-SIM	Water	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with HCl			

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable, and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the 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	Performance Acceptable		Not Required	
	No	Yes	No	Yes	rtequired	
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: BASHIME

DATE: June 27, 2024

PEER REVIEW: Andrew Korycinski

DATE: June 30, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record

33/33



TestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Sulte 200 / Brighton, MI 48116 / 810-229-2763 **Client Contact** Regulatory program: ┌ DW □ NPDES RCRA Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 1 of 1 COCs City/State/Zip: Novi, MI, 48377 Analysis Turnaround Time Analyses For lab une only Email: kristoffer.hinskey@arcadis.com Phone: 248-994-2240 Walk-in client Alama Pitera Project Name: Ford LTP 3 weeks ✓ 2 weeks Lab sampling Project Number: 30206169.0401.03 1,4-Dioxane 8260D SIM Composite=C/Grab=G Trans-1,2-DCE 8260D ☐ 2 days Vinyl Chloride 8260D PO # US3410018772 Shipping/Tracking No: Job/SDG No: ☐ 1 day Matrix Containers & Preservatives TCE 8260D Sample Specific Notes / HN03 HC Special Instructions: Sample Date Sample Time Sample Identification TRIP BLANK_77 G 1 Trip Blank 3 VOAs for 8260D MW-1355_052024 250 20/24 6 3 VOAs for 8260D SIM 6 240-205248 Chain of Custody Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Non-Hazard Tammable cin Irritant Poison B ☐ Jnknown Disposal By Lab Special Instructions/QC Requirements & Comments: Short hold time 12033 Stark hol Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728 Level IV Reporting requested. Relinquished by: Company: Ascadus NOVI COLD STORA COMPANY: ALLADIS ANCADIS 5-25-24 TAMMY ROYER

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-205248-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_77

Lab Sample ID: 240-205248-1 Date Collected: 05/20/24 00:00 **Matrix: Water**

Date Received: 05/25/24 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			05/31/24 23:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/31/24 23:40	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/31/24 23:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/31/24 23:40	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/31/24 23:40	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/31/24 23:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137			_		05/31/24 23:40	1
4-Bromofluorobenzene (Surr)	91		56 ₋ 136					05/31/24 23:40	1
Toluene-d8 (Surr)	91		78 - 122					05/31/24 23:40	1
Dibromofluoromethane (Surr)	92		73 - 120					05/31/24 23:40	1

Client Sample ID: MW-135S_052024

Date Collected: 05/20/24 12:50

Date Received: 05/25/24 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			06/03/24 01:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		68 - 127			-		06/03/24 01:26	1

1,2-Dichloroethane-d4 (Surr)	105		68 - 127			-		06/03/24 01:26	1
- Method: SW846 8260D - Volati	le Organic Comp	ounds by C	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			05/31/24 23:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/31/24 23:15	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/31/24 23:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/31/24 23:15	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/31/24 23:15	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/31/24 23:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137			_		05/31/24 23:15	1
4-Bromofluorohenzene (Surr)	100		56 136					05/31/24 23:15	1

1,2-Dichloroethane-d4 (Surr)	95	62 - 137	05/31/24 23:15	
4-Bromofluorobenzene (Surr)	100	56 ₋ 136	05/31/24 23:15	1
Toluene-d8 (Surr)	94	78 - 122	05/31/24 23:15	1
Dibromofluoromethane (Surr)	94	73 - 120	05/31/24 23:15	1
_				

Lab Sample ID: 240-205248-2

Matrix: Water