

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 11/19/2024 6:51:35 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-214628-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





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Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	15
Lab Chronicle	16
Certification Summary	17
Chain of Custody	18

Client: Arcadis US Inc. Project/Site: Ford LTP

PRES

QC RER

RL

RPD

TEF

TEQ

TNTC

Presumptive Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Qualifiers		3
GC/MS VOA Qualifier	Qualifier Description	4
U	Indicates the analyte was analyzed for but not detected.	
Glossary		5
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	8
CNF	Contains No Free Liquid	0
DER	Duplicate Error Ratio (normalized absolute difference)	0
Dil Fac	Dilution Factor	9
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)	13
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	

Job ID: 240-214628-1

Job ID: 240-214628-1

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Job Narrative 240-214628-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 11/9/2024 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 2.0°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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Client: Arcadis US Inc. Project/Site: Ford LTP

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

Client: Arcadis US Inc. Project/Site: Ford LTP

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-214628-1	TRIP BLANK_21	Water	11/07/24 00:00	11/09/24 08:00
240-214628-2	MW-176S_110724	Water	11/07/24 10:50	11/09/24 08:00

Page 8 of 20

Detection Summary

Job ID: 240-214628-1

Lab Sample ID: 240-214628-1

Lab Sample ID: 240-214628-2

Client Sample ID: TRIP BLANK_21

No Detections.

Client: Arcadis US Inc. Project/Site: Ford LTP

Client Sample ID: MW-176S_110724

No Detections.

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This Detection Summary does not include radiochemical test results.

Client: Arcadis US Inc. Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_21

Date Collected: 11/07/24 00:00 Date Received: 11/09/24 08:00

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Date Received. 11/09/24 08.00									
Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/17/24 02:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/17/24 02:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/17/24 02:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/17/24 02:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/17/24 02:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/17/24 02:58	1
Surrogate	%Recovery	Qualifier	Limits			_	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137			-		11/17/24 02:58	1

56 - 136

78 - 122

73 - 120

99

102

98

Job ID: 240-214628-1

Matrix: Water

Lab Sample ID: 240-214628-1

11/17/24 02:58

11/17/24 02:58

11/17/24 02:58

1

1

1

Eurofins Cleveland

Client Sample ID: MW-176S_110724

Date Collected: 11/07/24 10:50 Date Received: 11/09/24 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			11/13/24 12:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		68 - 127			-		11/13/24 12:14	1
Method: SW846 8260D - Volatil	e 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			11/17/24 03:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/17/24 03:21	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/17/24 03:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/17/24 03:21	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/17/24 03:21	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/17/24 03:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137			-		11/17/24 03:21	1
4-Bromofluorobenzene (Surr)	98		56 - 136					11/17/24 03:21	1
Toluene-d8 (Surr)	100		78 - 122					11/17/24 03:21	1
Dibromofluoromethane (Surr)	98		73 - 120					11/17/24 03:21	

11/19/2024

Job ID: 240-214628-1

5 6 8

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

Matrix: Water

Prep Type: Total/NA

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		DCA	BFB	TOL	DBFM				
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)				
240-214626-A-2 MS	Matrix Spike	96	102	103	98				
240-214626-C-2 MSD	Matrix Spike Duplicate	94	104	101	97				
240-214628-1	TRIP BLANK_21	100	99	102	98				
240-214628-2	MW-176S_110724	97	98	100	98				
LCS 240-635567/4	Lab Control Sample	93	103	104	99				
MB 240-635567/7	Method Blank	98	99	99	99				
Surrogate Legend									
DCA = 1,2-Dichloroetha	ne-d4 (Surr)								
BFB = 4-Bromofluorobe	nzene (Surr)								
TOL = Toluene-d8 (Surr)								
DBFM = Dibromofluoror	methane (Surr)								

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

Matrix: Water

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-214628-2	MW-176S_110724	90	
240-214640-B-2 MS	Matrix Spike	90	
240-214640-B-2 MSD	Matrix Spike Duplicate	102	
LCS 240-635039/5	Lab Control Sample	93	
MB 240-635039/7	Method Blank	94	

Surrogate Legend

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

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

Matrix: Water Analysis Batch: 635567

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/16/24 23:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/16/24 23:54	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/16/24 23:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/16/24 23:54	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/16/24 23:54	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/16/24 23:54	1

	MB	МВ					
Surrogate	%Recovery	Qualifier	Limits	Pi	repared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137			11/16/24 23:54	1
4-Bromofluorobenzene (Surr)	99		56 - 136			11/16/24 23:54	1
Toluene-d8 (Surr)	99		78 - 122			11/16/24 23:54	1
Dibromofluoromethane (Surr)	99		73 - 120			11/16/24 23:54	1

Lab Sample ID: LCS 240-635567/4 Matrix: Water Analysis Batch: 635567

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	23.7		ug/L		95	63 - 134	
cis-1,2-Dichloroethene	25.0	25.1		ug/L		101	77 - 123	
Tetrachloroethene	25.0	22.6		ug/L		90	76 - 123	
trans-1,2-Dichloroethene	25.0	22.3		ug/L		89	75 - 124	
Trichloroethene	25.0	21.9		ug/L		88	70 - 122	
Vinyl chloride	12.5	8.06		ug/L		64	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	103		56 - 136
Toluene-d8 (Surr)	104		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

Lab Sample ID: 240-214626-A-2 MS Matrix: Water Analysis Batch: 635567

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Analyte %Rec Limits Unit D 1.0 U 25.0 56 - 135 1,1-Dichloroethene 20.4 ug/L 82 cis-1,2-Dichloroethene 1.0 U 25.0 23.2 93 66 - 128 ug/L Tetrachloroethene 1.0 U 25.0 18.6 ug/L 74 62 - 131 trans-1,2-Dichloroethene 1.0 U 25.0 20.1 ug/L 80 56 - 136 Trichloroethene 25.0 81 61 - 124 1.0 U 20.1 ug/L Vinyl chloride 1.0 U 12.5 7.27 ug/L 58 43 - 157 MS MS

Surrogate	%Recovery Qu	ualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	103		78 - 122

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Client S	ample ID:	Matrix	Spike
	Pren Ty	ne: To	tal/NA

Job ID: 240-214628-1

7 8 9 10 11 12 13

Lab Sample ID: 240-214626-A-2 MS **Client Sample ID: Matrix Spike** Matrix: Water Prep Type: Total/NA Analysis Batch: 635567 MS MS Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 98 73 - 120 Lab Sample ID: 240-214626-C-2 MSD **Client Sample ID: Matrix Spike Duplicate** Matrix: Water Prep Type: Total/NA Analysis Batch: 635567 MSD MSD %Rec RPD Sample Sample Spike Analyte Result Qualifier Added **Result Qualifier** Unit D %Rec Limits RPD Limit 1,1-Dichloroethene 1.0 U 25.0 22.5 ug/L 90 56 - 135 10 26 cis-1,2-Dichloroethene 1.0 U 25.0 94 66 - 128 23.4 ug/L 1 14 Tetrachloroethene 1.0 U 25.0 20.8 ug/L 83 62 - 131 11 20 trans-1,2-Dichloroethene 1.0 U 25.0 20.1 ug/L 80 56 - 136 0 15 Trichloroethene 1.0 U 25.0 19.7 ug/L 79 61 - 124 2 15 Vinyl chloride 1.0 U 12.5 7.80 ug/L 62 43 - 157 7 24 MSD MSD Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 94 62 - 137 104 4-Bromofluorobenzene (Surr) 56 - 136 Toluene-d8 (Surr) 101 78 - 122 Dibromofluoromethane (Surr) 97 73 - 120 Method: 8260D SIM - Volatile Organic Compounds (GC/MS) Lab Sample ID: MB 240-635039/7 **Client Sample ID: Method Blank** Matrix: Water Prep Type: Total/NA

												. otan i u
Analysis Batch: 635039												
	I	MB MB										
Analyte	Res	sult Qualifie	er RL		MDL	Unit		D	Ρ	repared	Analyzed	Dil Fac
1,4-Dioxane		2.0 U	2.0		0.86	ug/L					11/13/24 11:03	1
		MB MB										
Surrogate	%Recov	ery Qualifie	er Limits						Р	repared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)		94	68 - 127					-			11/13/24 11:03	1
- Lab Sample ID: LCS 240-635	039/5							CI	ient	Sample	e ID: Lab Control	Sample
Matrix: Water											Prep Type:	
Analysis Batch: 635039												
			Spike	LCS	LCS						%Rec	
Analyte			Added	Result	Qua	lifier	Unit		D	%Rec	Limits	
1,4-Dioxane			10.0	9.76			ug/L		_	98	75 - 121	
	LCS I	LCS										
Surrogate	%Recovery (Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	93		68 - 127									
- Lab Sample ID: 240-214640-I	B-2 MS									Client	Sample ID: Mat	rix Spike
Matrix: Water											Prep Type:	
Analysis Batch: 635039												
-	Sample S	Sample	Spike	MS	MS						%Rec	
Analyte	Result (Qualifier	Added	Result	Qua	lifier	Unit		D	%Rec	Limits	
1,4-Dioxane	2.0 l	J	10.0	8.14			ug/L		_	81	20 - 180	

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

Page 13 of 20

Job ID: 240-214628-1

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

	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	90		68 - 127								
Lab Sample ID: 240-214640-	B-2 MSD					(Client Sa	ample IC): Matrix Sp	oike Dup	olicate
Matrix: Water									Prep T	ype: To	tal/NA
Analysis Batch: 635039											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	9.47		ug/L		95	20 - 180	15	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
J											

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8260D

8260D

Water

Water

GC/MS VOA

240-214626-A-2 MS

240-214626-C-2 MSD

Matrix Spike

Matrix Spike Duplicate

Analysis Batch: 635039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-214628-2	MW-176S_110724	Total/NA	Water	8260D SIM	
MB 240-635039/7	Method Blank	Total/NA	Water	8260D SIM	
_CS 240-635039/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-214640-B-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
	Matrix Chika Dunligata	Total/NA	Water	8260D SIM	
	Matrix Spike Duplicate 7	lota/NA	Trato.		
nalysis Batch: 63556		Prep Type	Matrix	Method	Prep Batc
nalysis Batch: 63556 Lab Sample ID	7				Prep Batc
nalysis Batch: 63556 Lab Sample ID 240-214628-1	7 Client Sample ID	Ргер Туре	Matrix	Method	Prep Batc
240-214640-B-2 MSD nalysis Batch: 635567 Lab Sample ID 240-214628-1 240-214628-2 MB 240-635567/7	7 Client Sample ID TRIP BLANK_21	Prep Type Total/NA	Matrix Water	Method 8260D	Prep Batc

Total/NA

Total/NA

Matrix: Water

Matrix: Water

Lab Sample ID: 240-214628-1

Client Sample ID: TRIP BLANK_21 Date Collected: 11/07/24 00:00

Duto	Concordan	
Date	Received: 1	1/09/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analvsis	8260D			635567	LEE	EET CLE	11/17/24 02:58

Client Sample ID: MW-176S_110724 Date Collected: 11/07/24 10:50

Date Received: 11/09/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	635567	LEE	EET CLE	11/17/24 03:21
Total/NA	Analysis	8260D SIM		1	635039	R5XG	EET CLE	11/13/24 12:14

Laboratory References:

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

12 13

Accreditation/Certification Summary

Client: Arcadis US Inc. Project/Site: Ford LTP

Laboratory: Eurofins Cleveland

aboratory: Eurofins Cle	eveland			
accreditations/certifications held by	y this laboratory are listed. Not all accreditations/ce	artifications are applicable to this report	<u></u>	
Authority	Program	Identification Number	Expiration Date	
California	State	2927	02-28-25	
Connecticut	State	PH-0806	12-31-26	
Georgia	State	4062	02-27-25	
Illinois	NELAP	200004	08-31-25	
lowa	State	421	06-01-25	
Kentucky (UST)	State	112225	02-27-25	
Kentucky (WW)	State	KY98016	12-30-24	
Minnesota	NELAP	039-999-348	12-31-24	
New Hampshire	NELAP	225024	09-30-25	
New Jersey	NELAP	OH001	07-03-25	
New York	NELAP	10975	04-02-25	
Ohio VAP	State	ORELAP 4062	02-27-25	
Oregon	NELAP	4062	02-27-25	
Pennsylvania	NELAP	68-00340	08-31-25	
Texas	NELAP	T104704517-22-19	08-31-25	
USDA	US Federal Programs	P330-18-00281	01-05-27	
Virginia	NELAP	460175	09-14-25	
West Virginia DEP	State	210	12-31-24	

Eurofins Cleveland

MICHIGAN 190 **TestAmerica**

Chain of Custody Record .

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Client Contact	Regulat	tory program:			17	DW		1.00	NPD	ES		R	CR/	`	– 0	Other							-		
Company Name: Arcadis								Lai										_							TestAmerica Laboratories,
Address: 28550 Cabot Drive, Suite 500	Client Project	Manager: Kris	Hins	key				Site	Cont	act: C	Chris	tina V	Veav	ver			Lab	Conta	ct: M	ike De	Moni	co			COC No:
No. Mora Plus Nest Antes	Telephone: 248	-994-2240						Tele	phon	e: 24	8-994	-2240)				Tele	phone	: 330-	497-9	396				
ity/State/Zip: Novi, MI, 48377	Email: kristoff	er.hinskey@ar	cadis.	.com					Analy	ysis T	uraa	round	Tu	RC				-		. 1	naly	ses			1 of 1 COCs For lab use only
hone: 248-994-2240				_	_																				
roject Name: Ford LTP	Sampler Name	Schende	۱۰					I'AI	f diff	erent fr		week	s L	_											Walk-in client
roject Number: 30206169.0401.03		ment/Carrier:				_		1	0 da	у		week										-			Lab sampling
Tojeet (fullide) . 5020009.0401.05	Method of Ship	ment/Carrier:					_					days			εĽ	2		8260D			0	SIN			
O # US3410018772	Shipping/Tracl	king No:						1			Γ1	day				C.	SeoD	826			8260	009			Job/SDG No:
	+			-	Mat	rix			Cea	tainer	n & Pi	renerv	ative	3		260	E 83	DCE	0	0	ride	8.9			
					ĩ			_				Т.	_		S P	CE 8	-00	-1.2-	3260	1260	Chlo	oxar			Sample Specific Notes /
Sample Identification	Sample Date	Sample Time	Air	Aqueous	Sediment	Solid	Other	H2S04	EONH	щu	NaOH	HOW	L'upre	-	Filtered Sample (Y/N)	Composite-C/Grab-G	cis-1,2-DCE 8260D	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1.4-Dioxane 8260D SIM			Special Instructions:
TRIP BLANK_21				1						1			T		N	G X	X	X	x	X	X				1 Trip Blank
MW-1765_110724	11/2724		+			\vdash		+	\square	6	+		╈		-+-	-	+	+		-	+	+			3 VOAs for 8260D
110/24	[1/07724	10.50	-	6						6	_	_	_	/	V	6 x	X	×	×		X	X	+		3 VOAs for 8260D SI
																									1600EA
						\vdash		┢──			-	+	+		+		+	+	+	-	+	+			The second secon
																									240-214628 C(1
			+-	+		\vdash	_	┢─	$\left \right $			+	+		+	+	+	+	+	+	+	+-			+
			┢	+				┢					+	\rightarrow	+		+-	+	+	-	+	+	+	+	
Possible Hazard Identification	t Pois		Jnk			· · ·		1						ay be as											
			-	-				Ļ		Retur	m to C	lient		Dis	posa	ByLa		-	Archi	ve For	· ·		Months		
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20. SAMPLE PRESERVATION Sample(s)	19. SAMPLE CONDITION Sample(s)	Concerning 18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES 1 additional next page	Inved on $\sqrt{1-q}-A$ Opened on $\sqrt{1-q}-A$ Grd Exp UPS FAS
were further preserved in the laboratory	mended holding tıme had expired were received in a broken container bble >6 mm in dıameter (Notify PM)	e Samples processed by-	Aug Courser Other e Location other other Other other Other reg No No NA Yes No Yes N

WI-NC-099-092324 Cooler Receipt Form.doc



Temperature readings

MW-176S_110724	MW-1765_110724	MW-1765_110724	MW-176S_110724	MW-176S_110724	MW-1765_110724	TRIP BLANK_21	<u>Client Sample ID</u>
240-214628-G-2	240-214628-E-2	240-214628-D-2	240-214628-C-2	240-214628-B-2	240-214628-A-2	240-214628-A-1	Lab ID
Voa Vial 40mł - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acıd	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochlorıc Acid	Container Type
							<u>Container</u> Preservation Preservation pH Temp Added Lot Number

DATA VERIFICATION REPORT



November 19, 2024

Megan Meckley Arcadis 28550 Cabot Drive Suite 500 Novi, MI US 48377

CADENA project ID: E203728 Project: Ford Livonia Transmission Plant - Soil Gas, Ground Water and Soil Project number: 30206169.0401.04_WA-03 Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory submittal: 214628-1 Sample date: 2024-11-07 Report received by CADENA: 2024-11-19 Initial Data Verification completed by CADENA: 2024-11-19 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 <u>http://clms.cadenaco.com/index.cfm</u>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory Submittal: 214628-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BL/ 240214 11/7/20	6281 24		Volid	MW-176 240214 11/7/20	24	24	Volid
	Analyte	Cas No.	Result	Report Limit		Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
GC/MS VOC										
<u>OSW-826</u>	<u>0D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
<u>OSW-826</u>	<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 # 240-214628-1 CADENA Verification Report: 2024-11-19

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 56924R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-214628-1 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		Wallix	Collection Date		VOC	VOC SIM			
TRIP BLANK_21	240-214628-1	Water	11/07/2024		Х				
MW-176S_110724	240-214628-2	Water	11/07/2024		Х	Х			

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

	Items Reviewed	Rep	orted	Perfori Accep		Not
		No	Yes	No	Yes	Required
1.	Sample receipt condition		Х		Х	
2.	Requested analyses and sample results		Х		Х	
3.	Master tracking list		Х		Х	
4.	Methods of analysis		Х		Х	
5.	Reporting limits		Х		Х	
6.	Sample collection date		Х		Х	
7.	Laboratory sample received date		Х		Х	
8.	Sample preservation verification (as applicable)		Х		Х	
9.	Sample preparation/extraction/analysis dates		Х		Х	
10.	Fully executed Chain-of-Custody (COC) form		Х		Х	
11.	Narrative summary of Quality Assurance or sample problems provided		х		х	
12.	Data Package Completeness and Compliance		Х		Х	

DATA REVIEW

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

DATA REVIEW

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 REVIEW

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted	Perfo Acce	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		1			1
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		Х		Х	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

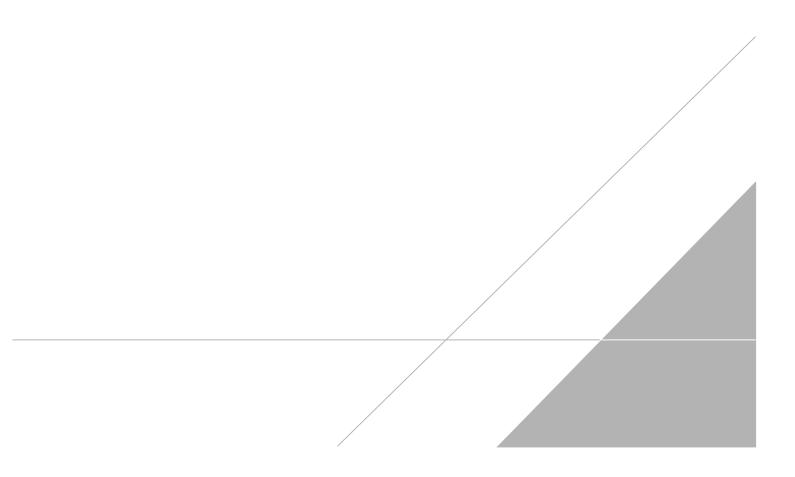
%D Percent difference

VALIDATION PERFORMED BY:	Bindu Sree M B
SIGNATURE:	BASHMB
DATE:	December 16, 2024

PEER REVIEW: Andrew Korycinski

DATE: December 19, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record

MICHIGAN 190 TestAmerica

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

Client Contact	Regulat	ory program:			DV	N	[" I	PDES		F F	CRA	í	Oth	er											
ompany Name: Arcadis	Client Project ?	Manager: Kris	Hinsk	<u></u>			Site (Contact	: Chr	istina '	Veaver		-		Lah C	ontact	: Mike	Dell	Monico					Test.	America Laboratories No:
ddress: 28550 Cabot Drive, Suite 500				~,	_			Telephone: 248-994-2240							Telephone: 330-497-9396										
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Sample Identification	Sample Date	Sample Time	Vir	Incons	Sediment Solid	Other:	112504	HICI HICI	HOav	ZnAc/ NaOH	Unpres Other:	Filtered Samule (V / N)	Composite=C / Grab=G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM					Sample Specific Notes Special Instructions:
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Qualifiers

GC/MS VOA	
Qualifier	Qualifier Description
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

Client Sample ID: TRIP BLANK_21

Date Collected: 11/07/24 00:00

Date Received: 11/09/24 08:00

Method: SW846 8260D - Volati	ile Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/17/24 02:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/17/24 02:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/17/24 02:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/17/24 02:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/17/24 02:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/17/24 02:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137			-		11/17/24 02:58	1
4-Bromofluorobenzene (Surr)	99		56 - 136					11/17/24 02:58	1
Toluene-d8 (Surr)	102		78 - 122					11/17/24 02:58	1

73 - 120

Client Sample ID: MW-176S_110724

Date Collected: 11/07/24 10:50

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Date Received: 11/09/24 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/13/24 12:14	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	90		68 - 127					11/13/24 12:14	1	

Method: SW846 8260D - Volatile Organic Compounds 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			11/17/24 03:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/17/24 03:21	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/17/24 03:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/17/24 03:21	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/17/24 03:21	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/17/24 03:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 _ 137			_		11/17/24 03:21	1
4-Bromofluorobenzene (Surr)	98		56 - 136					11/17/24 03:21	1

78 - 122

73 - 120

98

100

98

11/17/24 02:58

11/17/24 03:21

11/17/24 03:21

Lab Sample ID: 240-214628-2

1

1

1

Matrix: Water

Job ID: 240-214628-1