

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 6/4/2024 8:33:03 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-205148-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





Eurofins Cleveland

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

Qualifiers

Qualifiers		3
GC/MS 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.	
U	Indicates the analyte was analyzed for but not detected.	5
Glossary		6
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	0
CFU	Colony Forming Unit	0
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	9
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"	13
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	

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

Job ID: 240-205148-1

Job ID: 240-205148-1

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Job Narrative 240-205148-1

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 5/24/2024 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 1.8°C.

GC/MS VOA

Method 8260D_SIM: The following sample(s) was collected in a properly preserved vial; however, the pH was outside the required criteria when verified by the laboratory. The samples were analyzed outside the 7-day holding time specified for unpreserved samples but within the 14-day holding time specified for preserved samples: (240-205154-A-3 MS) and (240-205154-A-3 MSD).

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

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-205148-1	TRIP BLANK_78	Water	05/20/24 00:00	05/24/24 08:00
240-205148-2	MW-150S_052024	Water	05/20/24 11:50	05/24/24 08:00

Eurofins Cleveland 6/4/2024

Detection Summary

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

Client Sample ID: TRIP BLANK_78

Job ID: 240-205148-1

Lab Sample ID: 240-205148-1

No Detections.

Client Sample ID: MW-150S_052024 Lab Sample ID: 240-205148-2										
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type		
Vinyl chloride	0.60	J	1.0	0.45	ug/L	1	8260D	Total/NA		

Client Sample ID: TRIP BLANK_78

Date Collected: 05/20/24 00:00 Date Received: 05/24/24 08:00

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			05/31/24 20:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/31/24 20:41	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/31/24 20:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/31/24 20:41	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/31/24 20:41	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/31/24 20:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		62 - 137			-		05/31/24 20:41	1
4-Bromofluorobenzene (Surr)	83		56 - 136					05/31/24 20:41	1
Toluene-d8 (Surr)	98		78 - 122					05/31/24 20:41	1
Dibromofluoromethane (Surr)	101		73 - 120					05/31/24 20:41	1

Matrix: Water

6/4/2024

Job ID: 240-205148-1

Lab Sample ID: 240-205148-1

Client Sample ID: MW-150S_052024

Date Collected: 05/20/24 11:50 Date Received: 05/24/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
I,4-Dioxane	2.0	U	2.0	0.86	ug/L			06/02/24 23:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127			-		06/02/24 23:48	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			05/31/24 21:05	1
sis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/31/24 21:05	1
Fetrachloroethene	1.0	U	1.0	0.44	ug/L			05/31/24 21:05	1
rans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/31/24 21:05	1
Frichloroethene	1.0	U	1.0	0.44	ug/L			05/31/24 21:05	1
/inyl chloride	0.60	J	1.0	0.45	ug/L			05/31/24 21:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	129		62 - 137			-		05/31/24 21:05	1
4-Bromofluorobenzene (Surr)	86		56 - 136					05/31/24 21:05	1
Toluene-d8 (Surr)	104		78 - 122					05/31/24 21:05	1
Dibromofluoromethane (Surr)	111		73 - 120					05/31/24 21:05	1

6/4/2024

Lab Sample ID: 240-205148-2 Matrix: Water

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

Percent Surrogate Recovery (Acceptance Limits) DCA BFB TOL DBFM **Client Sample ID** (62-137) (56-136) (78-122) (73-120) Lab Sample ID TRIP BLANK_78 240-205148-1 101 121 83 98 240-205148-2 MW-150S_052024 129 86 104 111 480-220222-B-3 MS Matrix Spike 120 89 105 109 480-220222-B-3 MSD Matrix Spike Duplicate 119 88 103 109 LCS 240-615029/6 Lab Control Sample 116 89 104 107 MB 240-615029/10 Method Blank 123 88 105 107 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

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-205148-2	MW-150S_052024	106	
240-205154-A-3 MS	Matrix Spike	101	
240-205154-A-3 MSD	Matrix Spike Duplicate	102	
LCS 240-615140/4	Lab Control Sample	103	
MB 240-615140/6	Method Blank	101	

Surrogate Legend

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

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Prep Type: Total/NA

Prep Type: Total/NA

5

9

13

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

-									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/31/24 14:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/31/24 14:19	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/31/24 14:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/31/24 14:19	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/31/24 14:19	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/31/24 14:19	1

	МВ	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		62 - 137		05/31/24 14:19	1
4-Bromofluorobenzene (Surr)	88		56 _ 136		05/31/24 14:19	1
Toluene-d8 (Surr)	105		78 - 122		05/31/24 14:19	1
Dibromofluoromethane (Surr)	107		73 - 120		05/31/24 14:19	1

Lab Sample ID: LCS 240-615029/6 Matrix: Water Analysis Batch: 615029

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	19.6		ug/L		98	63 - 134	
cis-1,2-Dichloroethene	20.0	19.1		ug/L		96	77 - 123	
Tetrachloroethene	20.0	18.4		ug/L		92	76 - 123	
trans-1,2-Dichloroethene	20.0	19.0		ug/L		95	75 - 124	
Trichloroethene	20.0	18.8		ug/L		94	70 - 122	
Vinyl chloride	20.0	19.3		ug/L		97	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	116		62 - 137
4-Bromofluorobenzene (Surr)	89		56 - 136
Toluene-d8 (Surr)	104		78 - 122
Dibromofluoromethane (Surr)	107		73 - 120

109

Lab Sample ID: 480-220222-B-3 MS Matrix: Water Analysis Batch: 615029

Dibromofluoromethane (Surr)

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte **Result Qualifier** Limits Unit D %Rec 20000 18900 1,1-Dichloroethene 1000 U ug/L 95 56 - 135 cis-1,2-Dichloroethene 20000 20100 66 - 128 1100 ug/L 95 Tetrachloroethene 1000 U 20000 17000 ug/L 85 62 - 131 trans-1,2-Dichloroethene 1000 U 20000 18400 ug/L 92 56 - 136 MS MS %Recovery Qualifier Surrogate Limits 62 - 137 1,2-Dichloroethane-d4 (Surr) 120 4-Bromofluorobenzene (Surr) 56 - 136 89 78 - 122 Toluene-d8 (Surr) 105

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

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Job ID: 240-205148-1

Prep Type: Total/NA

Client Sample ID: Method Blank

73 - 120

10

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

Lab Sample ID: 480-220222-							Glieff			: Matrix Sp	-	
Matrix: Water										Prep	Type: To	otal/NA
Analysis Batch: 615029	. .	•								~ -		
		Sample	Spike		MSD			_	a/ 5	%Rec		RPD
Analyte		Qualifier	Added		Qualifier	Unit		<u>D</u>	%Rec	Limits	RPD	Limi
1,1-Dichloroethene	1000	0	20000	19800		ug/L			99	56 - 135	4	26
cis-1,2-Dichloroethene	1100		20000	21400		ug/L			101	66 - 128	6	14
Tetrachloroethene	1000		20000	17500		ug/L			87	62 - 131	3	2
trans-1,2-Dichloroethene	1000	U	20000	19600		ug/L			98	56 - 136	6	1
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)			62 - 137									
4-Bromofluorobenzene (Surr)	88		56 - 136									
Toluene-d8 (Surr)	103		78 - 122									
Dibromofluoromethane (Surr)	109		73 - 120									
ethod: 8260D SIM - Vol		-										
ab Sample ID: MB 240-615	140/6								Client S	ample ID:	Method	Blar
Matrix: Water	140/0								onent o		Type: To	
Analysis Batch: 615140											,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
		MB MB										
Analyte	R	esult Qualifier	RL		MDL Unit		D	Р	repared	Analyz	ed	Dil Fa
1,4-Dioxane		$\frac{1}{2.0}$ $\frac{1}{0}$	2.0		0.86 ug/L				lopulou	06/02/24		Diria
.,												
		MB MB										
Surrogate	%Reco	overy Qualifier	Limits				_	P	repared	Analyz	ed	Dil Fa
1,2-Dichloroethane-d4 (Surr)		101	68 - 127							06/02/24	23:25	
Lab Samala ID: LCS 240 C41	4 4 0 / 4								Comula			
Lab Sample ID: LCS 240-61	5140/4						CI	ient	Sample	ID: Lab Co		
Matrix: Water										Prepr	Type: To	
Analysis Batch: 615140			Calles	1.00	1.00					0/ Dee		
Anglista			Spike		LCS	11			0/ Dee	%Rec		
Analyte			Added		Qualifier	Unit		D	%Rec	Limits		
1,4-Dioxane			10.0	9.65		ug/L			97	75 - 121		
	LCS	LCS										
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	103		68 - 127									
Lab Sample ID: 240-205154-	A-3 MS								Client	Sample ID	: Matrix	Spik
Matrix: Water										Prep 1	Type: To	tal/N/
Analysis Batch: 615140												
	Sample	Sample	Spike	MS	MS					%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit		D	%Rec	Limits		
1,4-Dioxane	2.8		10.0	13.0		ug/L		_	103	20 - 180		
Surrogate	MS %Recovery	MS	Limits									

1,2-Dichloroethane-d4 (Surr)

68 - 127

101

_

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

Lab Sample ID: 240-205154- Matrix: Water Analysis Batch: 615140	A-3 MSD					•	Client Sa	ample IE): Matrix Sp Prep T	oike Dup Type: Tot	
Analyte	•	Sample Qualifier	Spike Added		MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2.8		10.0	12.2		ug/L		95	20 - 180	6	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	102		68 - 127								

10

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GC/MS VOA

Analysis Batch: 615029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-205148-1	TRIP BLANK_78	Total/NA	Water	8260D	
240-205148-2	MW-150S_052024	Total/NA	Water	8260D	
MB 240-615029/10	Method Blank	Total/NA	Water	8260D	
CS 240-615029/6	Lab Control Sample	Total/NA	Water	8260D	
80-220222-B-3 MS	Matrix Spike	Total/NA	Water	8260D	
			14/-+	8260D	
480-220222-B-3 MSD nalysis Batch: 615140	Matrix Spike Duplicate	Total/NA	Water	8200D	
nalysis Batch: 61514(D				Draw Datab
nalysis Batch: 61514(.ab Sample ID	D Client Sample ID	Prep Type Total/NA	Mater Matrix Water	Method 8260D SIM	Prep Batch
nalysis Batch: 615140 Lab Sample ID 240-205148-2	D	Prep Type	Matrix	Method	Prep Batch
nalysis Batch: 615140 Lab Sample ID 240-205148-2 //B 240-615140/6	D Client Sample ID MW-150S_052024	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch
	D Client Sample ID MW-150S_052024 Method Blank	Prep Type Total/NA Total/NA	Matrix Water Water	Method 8260D SIM 8260D SIM	Prep Batch

Matrix: Water

Matrix: Water

Client Sample ID: TRIP BLANK_78 Lab Sample ID: 240-205148-1 Date Collected: 05/20/24 00:00 Date Received: 05/24/24 08:00 Dilution Batch Batch Batch Prepared Method Prep Type Туре Run Factor Number Analyst Lab or Analyzed Total/NA 8260D 615029 HMB EET CLE 05/31/24 20:41 Analysis 1 Client Sample ID: MW-150S_052024 Lab Sample ID: 240-205148-2 Date Collected: 05/20/24 11:50 Date Received: 05/24/24 08:00 Batch Batch Diluti Batch

	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	8260D		1	615029	НМВ	EET CLE	05/31/24 21:05	
Total/NA	Analysis	8260D SIM		1	615140	MDH	EET CLE	06/02/24 23:48	

Laboratory References:

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

12

Accreditation/Certification Summary

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

13

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
lowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	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





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

Company Name: Arcadis														1								TartAm	rica Labo	retorias	Inc
	Client Project	Anager: Kris	Hinskey	,		s	ite Co	ntact:	Christ	ina We	aver			Lab	Conta	ct: Mi	ke Dell	Aonic	,			COC No		atories,	
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-2240					elenb	one: 24	8-994-	2240				Tele	phone	330-4	97-939	6							-
City/State/Zip: Novi, ML, 48377							_						_										of 1	COCs	
Pbone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.co	m						ound I	line		┢	-	T	T		ialys	25	ТТ		For lab us			-
Project Name: Ford LTP	Sampler Name	Alan		Λ		∞^{T}		ifferent f	□ 3	weeks												Walk-in c	lient		
Project Number: 30206169.0401.03	Method of Ship	ment/Carrier:	N/r	~/	N	4	10 d	ay	$\Box 1$			9	2				N N N N N N N N N N N N N N N N N N N					Lab sampling			
PO # US3410018772	Shipping/Track	ing No:				-						mple (V / N)	Crab.	260D	8260			8260D	260D S			Job/SDG	No:		
				Mat	trix		C	intaine:	n & Pn	eservati	ives	Samp	B260D	DCE 8	2-DCE	30D	00	loride	ane 8						
Sample Identification	Sample Date	Sample Time	Alr	Sediment	Solid		HNO3H	HCI	NaOH ZaAd	Va0H Unpres	Other:	Filtered Sa	Composite-C/Grab-G	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM				aple Specif ecial Instr		
TRIP BLANK_78			1			T		1				N		-	X	x	x	х				1 Tri	p Blank		7-
MW-1505_052024	Shorz	1150	1	2			+	G		-		NI	3)	ĸΧ	1x	X	X	X	X			3 VO	As for 82 As for 82	60D	
				1			+	19	-+-					Ť	Ť.	F^	-	~	4	1		100	AS 101 02	OUD SIN	-
			++		\vdash		+	+		+-				+	-	-				240-2					-
					\square		+	+	_	+					-					205148	_				_
															-										
																				hain of					
																				ustody					
			╋┼╴		\vdash			+	+				+	-	1				-						-
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Possible Hazard Identification											may be a	issessed	l if san	aples at				anlu					-		-
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18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES I additional next page Samples processed by 19 SAMPLE CONDITION were received after the recommended holding time had expired. Sample(s)	Function Colore in the Color of the
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WI-NC-099-052324 Cooler Receipt Form.doc



6/4/2024

Temperature readings

	Voa Vial 40ml - Hydrochlorıc Acıd	240-205148-F-2	MW-150S_052024
	Voa Vial 40ml - Hydrochlorıc Acid	240-205148-E-2	MW-150S_052024
	Voa Vial 40ml - Hydrochloric Acıd	240-205148-D-2	MW-150S_052024
	Voa Vial 40ml - Hydrochlorıc Acid	240-205148-C-2	MW 150S_052024
	Voa Vial 40ml - Hydrochloric Acid	240-205148-B-2	MW-150S_052024
	Voa Vial 40ml - Hydrochlorıc Acid	240-205148-A-2	MW-150S_052024
	Voa Vial 40ml - Hydrochloric Acıd	240-205148-A-1	TRIP BLANK_78
Container Preservation Preservation pH Temp Added Lot Number	Container Type	Lab ID	<u>Client Sample ID</u>

DATA VERIFICATION REPORT



June 04, 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: 205148-1 Sample date: 2024-05-20 Report received by CADENA: 2024-06-04 Initial Data Verification completed by CADENA: 2024-06-04 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 MS/MSD recovery outliers were not determined using a client sample so qualification was not required based on these sample-specific QC outliers.

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>.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory Submittal: 205148-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BL/ 240205 5/20/20	 1481 24			MW-150 240205 5/20/20	1482 24	24	
	Analyte	Cas No.	Result	Report Limit	Units	Valid Qualifier	Result	Report Limit	Units	Valid Qualifier
GC/MS VOC OSW-826	חח									
0000 020	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		0.60	1.0	ug/l	J
<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 # 240-205148-1 CADENA Verification Report: 2024-06-04

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 54681R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-205148-1 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	Barant Sampla	Ana	lysis
Sample ID		Matrix	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_78	240-205148-1	Water	05/20/2024		Х	
MW-150S_052024	240-205148-2	Water	05/20/2024		Х	Х

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

	Items Reviewed	Rep	orted		mance otable	Not Required
		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		X	
5.	Reporting limits		Х		Х	
6.	Sample collection date		Х		Х	
7.	Laboratory sample received date		Х		X	
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	

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.

DATA REVIEW

6. Compound Identification

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

All identified compounds met the specified criteria.

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		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		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:	BASK_MB
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



THE LEADER IN ENVIRONMENTAL TESTING

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

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Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-7740		_			Telephone: 248-994-2240					Teler	hone:	330-4	97-93	6					+				-							
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Sample Identification	Sample Date	Sample Time	Air	Aqueous Sediment	Solid	Other:	HISOH	HC	HON	ZaAe/ NaOH Undres	Other:	Filtered Sample (Y / 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 S Special							
TRIP BLANK_78			Γ	1				1				N	G	X	X	X	x	X	X					T	1 Trip Bl	ank		7				
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Submit all results through Cadena at jtomalia@cadena Level IV Reporting requested.	co.com. Cadena #E	203728	3	43	\$8(5 6	Zla	20	$\hat{\mathcal{O}}$	M S	51																					
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Client Sample ID: TRIP BLANK_78

Date Collected: 05/20/24 00:00

Date Received: 05/24/24 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 20:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/31/24 20:41	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/31/24 20:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/31/24 20:41	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/31/24 20:41	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/31/24 20:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		62 - 137			-		05/31/24 20:41	1
4-Bromofluorobenzene (Surr)	83		56 - 136					05/31/24 20:41	1
Toluene-d8 (Surr)	98		78 - 122					05/31/24 20:41	1

73 - 120

Client Sample ID: MW-150S_052024

101

Date Collected: 05/20/24 11:50

Dibromofluoromethane (Surr)

Date Received: 05/24/24 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			06/02/24 23:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127			-		06/02/24 23:48	1

Analyte	Result	Qualifier	RL M	DL Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0 0.	49 ug/L			05/31/24 21:05	1
cis-1,2-Dichloroethe	ne 1.0	U	1.0 0.	46 ug/L			05/31/24 21:05	1
Tetrachloroethene	1.0	U	1.0 0.	44 ug/L			05/31/24 21:05	1
trans-1,2-Dichloroeth	hene 1.0	U	1.0 0.	51 ug/L			05/31/24 21:05	1
Trichloroethene	1.0	U	1.0 0.	44 ug/L			05/31/24 21:05	1
Vinyl chloride	0.60	J	1.0 0.	45 ug/L			05/31/24 21:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	129		62 - 137		05/31/24 21:05	1
4-Bromofluorobenzene (Surr)	86		56 - 136		05/31/24 21:05	1
Toluene-d8 (Surr)	104		78 - 122		05/31/24 21:05	1
Dibromofluoromethane (Surr)	111		73 - 120		05/31/24 21:05	1

Lab Sample ID: 240-205148-1 Matrix: Water

05/31/24 20:41

Lab Sample ID: 240-205148-2

1

Matrix: Water