

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 8/19/2024 7:10:56 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-209269-1

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

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Qualifiers

Qualifiers		- 3
GC/MS VOA		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	_
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.	0
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	- 7
%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: 240-209269-1

Job ID: 240-209269-1

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Job Narrative 240-209269-1

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 8/10/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 3 coolers at receipt time were 1.4°C, 1.5°C and 1.7°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 U.S., Inc. Project/Site: Ford LTP

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-209269-1	TRIP BLANK_86	Water	08/08/24 00:00	08/10/24 08:00
240-209269-2	MW-185S_080824	Water	08/08/24 10:00	08/10/24 08:00

Detection Summary

Client Sample ID: TRIP BLANK_86

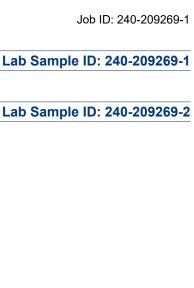
No Detections.

Project/Site: Ford LTP

Client Sample ID: MW-185S_080824

This Detection Summary does not include radiochemical test results.

No Detections.



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

Client Sample ID: TRIP BLANK_86

Date Collected: 08/08/24 00:00 Date Received: 08/10/24 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			08/16/24 09:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/16/24 09:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 09:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/16/24 09:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 09:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/16/24 09:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		08/16/24 09:42	1
4-Bromofluorobenzene (Surr)	100		56 - 136					08/16/24 09:42	1
Toluene-d8 (Surr)	107		78 - 122					08/16/24 09:42	1
Dibromofluoromethane (Surr)	103		73 - 120					08/16/24 09:42	1

Matrix: Water

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Lab Sample ID: 240-209269-1

Client Sample ID: MW-185S_080824

Date Collected: 08/08/24 10:00 Date Received: 08/10/24 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			08/15/24 16:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		68 - 127			-		08/15/24 16:01	1
Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	C/MS						
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/16/24 13:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/16/24 13:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 13:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/16/24 13:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 13:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/16/24 13:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		62 - 137			-		08/16/24 13:13	1
4-Bromofluorobenzene (Surr)	99		56 - 136					08/16/24 13:13	1
Toluene-d8 (Surr)	108		78 - 122					08/16/24 13:13	1
Dibromofluoromethane (Surr)	105		73 - 120					08/16/24 13:13	1

8/19/2024

Lab Sample ID: 240-209269-2 Matrix: Water

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

Percent Surrogate Recovery (Acceptance Limits) DCA BFB TOL DBFM Lab Sample ID Client Sample ID (62-137) (56-136) (78-122) (73-120) 240-209213-B-1 MS Matrix Spike 108 100 110 114 240-209213-B-1 MSD Matrix Spike Duplicate 108 110 112 98 240-209269-1 TRIP BLANK_86 117 100 107 103 MW-185S_080824 240-209269-2 99 108 105 119 LCS 240-623562/2 Lab Control Sample 107 111 112 99 MB 240-623562/4 Method Blank 115 98 106 102 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	
ab Sample ID	Client Sample ID	(68-127)	
40-209169-D-6 MS	Matrix Spike	108	
240-209169-D-6 MSD	Matrix Spike Duplicate	108	
240-209269-2	MW-185S_080824	107	
_CS 240-623431/4	Lab Control Sample	103	
MB 240-623431/6	Method Blank	104	

Surrogate Legend

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

Job ID: 240-209269-1

Prep Type: Total/NA

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Prep Type: Total/NA

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

Lab Sample ID: MB 240-623562/4

Matrix: Water Analysis Batch: 623562

	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			08/16/24 07:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/16/24 07:44	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 07:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/16/24 07:44	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 07:44	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/16/24 07:44	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		62 - 137		08/16/24 07:44	1
4-Bromofluorobenzene (Surr)	98		56 _ 136		08/16/24 07:44	1
Toluene-d8 (Surr)	106		78 - 122		08/16/24 07:44	1
Dibromofluoromethane (Surr)	102		73 - 120		08/16/24 07:44	1

Lab Sample ID: LCS 240-623562/2 Matrix: Water Analysis Batch: 623562

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	23.8		ug/L		95	63 - 134	
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	77 - 123	
Tetrachloroethene	25.0	23.2		ug/L		93	76 - 123	
trans-1,2-Dichloroethene	25.0	23.6		ug/L		94	75 - 124	
Trichloroethene	25.0	26.3		ug/L		105	70 - 122	
Vinyl chloride	12.5	12.7		ug/L		102	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)			62 - 137
4-Bromofluorobenzene (Surr)	111		56 - 136
Toluene-d8 (Surr)	112		78 - 122
Dibromofluoromethane (Surr)	99		73 - 120

110

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Lab Sample ID: 240-209213-B-1 MS Matrix: Water Analysis Batch: 623562

4-Bromofluorobenzene (Surr)

Toluene-d8 (Surr)

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte **Result Qualifier** %Rec Limits Unit D 250 1,1-Dichloroethene 5.7 J 195 ug/L 76 56 - 135 cis-1,2-Dichloroethene 250 66 - 128 14 226 ug/L 85 Tetrachloroethene 10 U 250 167 ug/L 67 62 - 131 trans-1,2-Dichloroethene 9.9 J 250 208 ug/L 79 56 - 136 Trichloroethene 61 - 124 180 F1 250 316 F1 ug/L 56 Vinyl chloride 10 U 125 120 ug/L 96 43 - 157 MS MS %Recovery Qualifier Limits Surrogate 1,2-Dichloroethane-d4 (Surr) 62 - 137 108

Client Sample II	D: Lab Control Sample
	Prep Type: Total/NA

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

Job ID: 240-209269-1

Prep Type: Total/NA

Client Sample ID: Method Blank

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56 - 136

78 - 122

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued) Lab Sample ID: 240-209213-B-1 MS **Client Sample ID: Matrix Spike** Matrix: Water Prep Type: Total/NA Analysis Batch: 623562 MS MS Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 100 73 - 120 Lab Sample ID: 240-209213-B-1 MSD **Client Sample ID: Matrix Spike Duplicate** Matrix: Water Prep Type: Total/NA Analysis Batch: 623562 MSD MSD %Rec RPD Sample Sample Spike Analyte **Result Qualifier** Added Result Qualifier Unit D %Rec Limits RPD Limit 1,1-Dichloroethene 5.7 J 250 202 ug/L 79 56 - 135 4 26 cis-1,2-Dichloroethene 250 229 86 66 - 128 14 ug/L 14 1 Tetrachloroethene 10 U 250 167 ug/L 67 62 - 131 20 0 9.9 J ug/L trans-1.2-Dichloroethene 250 209 80 56 - 136 0 15 Trichloroethene 180 F1 250 314 F1 ug/L 55 61 - 124 15 1 Vinyl chloride 10 U 125 120 ug/L 96 43 - 157 24 0 MSD MSD Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 108 62 - 137 4-Bromofluorobenzene (Surr) 110 56 - 136 Toluene-d8 (Surr) 112 78 - 122 Dibromofluoromethane (Surr) 98 73 - 120 Method: 8260D SIM - Volatile Organic Compounds (GC/MS) Lab Sample ID: MB 240-623431/6 **Client Sample ID: Method Blank** Matrix: Water Prep Type: Total/NA Analysis Batch: 623431 MR MR Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 08/15/24 10:09 1 MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 104 68 - 127 08/15/24 10:09

Lab Sample ID: LCS 240-623431/4 Matrix: Water Analysis Batch: 623431

-			Spike	LCS	LCS				%Rec
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits
1,4-Dioxane			10.0	8.65		ug/L		86	75 - 121
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	103		68 - 127						

Lab Sample ID: 240-209169-D-6 MS **Client Sample ID: Matrix Spike** Matrix: Water Prep Type: Total/NA Analysis Batch: 623431 Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec 1,4-Dioxane 2.0 U 10.0 9.79 ug/L 98 20 - 180

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Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Job ID: 240-209269-1

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

	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	108		68 - 127								
Lab Sample ID: 240-209169-	D-6 MSD					c	lient Sa	ample IC): Matrix Sp	oike Dur	olicate
Matrix: Water								-	Prep T	Type: To	tal/NA
Analysis Batch: 623431											
	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	9.78		ug/L		98	20 - 180	0	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	108		68 - 127								

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GC/MS VOA

Analysis Batch: 623431

240-209213-B-1 MSD

Matrix Spike Duplicate

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-209269-2	MW-185S_080824	Total/NA	Water	8260D SIM	
MB 240-623431/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-623431/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-209169-D-6 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-209169-D-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	
nalysis Batch: 62356					
		Ргер Туре	Matrix	Method	Prep Batch
nalysis Batch: 62356 Lab Sample ID	2		Matrix Water	Method 8260D	Prep Batch
nalysis Batch: 62356	2 Client Sample ID	Ргер Туре			Prep Batch
nalysis Batch: 62356 Lab Sample ID 240-209269-1 240-209269-2	2 Client Sample ID TRIP BLANK_86	Prep Type Total/NA	Water	8260D	Prep Batcl
nalysis Batch: 62356 Lab Sample ID 240-209269-1	2 Client Sample ID TRIP BLANK_86 MW-185S_080824	Prep Type Total/NA Total/NA	Water Water	8260D 8260D	Prep Batc

Total/NA

Water

8260D

Client Sample ID: TRIP BLANK_86 Lab Sample ID: 240-209269-1 Date Collected: 08/08/24 00:00 Matrix: Water Date Received: 08/10/24 08:00 Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed Total/NA 8260D 623562 CS EET CLE 08/16/24 09:42 Analysis 1 Lab Sample ID: 240-209269-2 Client Sample ID: MW-185S_080824 Date Collected: 08/08/24 10:00 Matrix: Water Date Received: 08/10/24 08:00 Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed Total/NA 8260D 623562 CS EET CLE 08/16/24 13:13 Analysis 1

1

623431 MS

EET CLE

08/15/24 16:01

Laboratory References:

Analysis

Total/NA

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

8260D SIM

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Accreditation/Certification Summary

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

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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	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 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	08-31-24
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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MICHIGAN 190 Test, THE LEADER IN ENVIRONMENTAL TESTING

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Chain of Custody Record

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

Client Contact	Regulat	ory program:		I., 1	DW	1	NPI	DES	ſ	RC	RA		Other											
ompany Name: Arcadis	Client Project N	Manager: Kris	Hinskey			Site	Con	tact: (Christi	ina W	eaver	-		Lab	Contac	t: Mik	ce Dell	Monic	0				TestAmerica Laboratories, I COC No:	nc.
Address: 28550 Cabot Drive, Suite 500	Telephone: 248					ir.		ne: 24	e 004	3340				Tala	phone:	220 44	07 020				_	_		_
ity/State/Zip: Novi, MI, 48377	Ielephone: 248	-994-2240				Î	•							Tele	pnone:	330-4:							1 of 1 COCs	
hone: 248-994-2240	Email: kristoff	kristoffer.hinskey@arcadis.com Analysis Turnaround Time														1	For lab use only	_						
	Sampler Name:			e	_	TA	T if di	fierent fr			<u> </u>												Walk-in client	
roject Name: Ford LTP	Mar	yam He	anar	11			10 da		2														Lab sampling	-
roject Number: 30206169.0401.03	Method of Ship											E	e l		9			~	SIM					
O # US3410018772	Shipping/Track	ing No:				-			C 1			Sample (Y / N)	a la	SOD	8260			1260	600				Job/SDG No	
				Matr	ix	-1-	Со	ntainer	s & Pro	eserval	ives	đ	=C /	E 82	DCE		0	ide 8	ie 82				No. of Concession, Name	
Sumple Identification	Sample Date	Sample Time	Air Aqueous	Sediment	Solid Other:	H2SO4	FONH	нсі	NaOH Zaaci	NaOH Unpres	Other:	Filtered Sa	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				Sample Specific Notes / Special Instructions:	
TRIP BLANK_ 86			1			1		1				N	-		X	X	X	X	Ť	1		╞━━	1 Trip Blank	-
MW-1855_080324	2121711	INAD	6	,††		1		1		+		Ň	GX	X	X	X	X	X	χ			1	3 VOAs for 8260D	_
1010-1855_000024	8/8/24	1000	L V	1	_			6				Ń	91	10		0	~	~	\wedge			_	3 VOAs for 8260D SIM	
					_	-		$\left \right $		+				-					11	_		-		_
				+	_	+		$\left \right $	_	-										+				_
				\square						_										+				
																			111					
				+						-	240-	2092	69 Ch	ain o	Cus	ody						1		_
				+		_		\vdash	_	_						- 1		_				_		
Possible Hazard Identification	ant 🗆 Poiso	n B 🧉	Jnknow			1 5		le Disp Retur			may be a		d if san l By La			ed lor rchive		an 1	month) Moi					
							,	rectul				- 130030												-
pecial Instructions/QC Requirements & Comments: 34 Submit all results through Cadena at jtomalia@cadenac sovel IV Roporting requested.	o.com. Cadena #E	203728	57																					
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8/19/2024

Temperature readings

	Voa Vial 40ml - Hydrochloric Acid	240-209269-F-2	MW-185S_080824
	Voa Vial 40ml - Hydrochlorıc Acid	240-209269-E-2	MW-185S_080824
	Voa Vial 40ml - Hydrochlorıc Acıd	240-209269-D-2	MW-185S_080824
	Voa Vial 40ml - Hydrochloric Acid	240-209269-C-2	MW-185S_080824
	Voa Vial 40ml - Hydrochloric Acid	240-209269-B-2	MW-185S_080824
	Voa Vial 40ml - Hydrochlorıc Acid	240-209269-A-2	MW-185S_080824
	Voa Vial 40ml - Hydrochlorıc Acid	240-209269-A-1	TRIP BLANK_86
Container Preservation Preservation pH Temp Added Lot Number	Container Type	<u>Lab ID</u>	Client Sample ID

DATA VERIFICATION REPORT



August 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-02 Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory submittal: 209269-1 Sample date: 2024-08-08 Report received by CADENA: 2024-08-19 Initial Data Verification completed by CADENA: 2024-08-19 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.

The following minor QC exceptions or missing information were noted:

GCMS VOC 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>.

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: 209269-1

		Sample Name: Lab Sample ID: Sample Date:	240209	TRIP BLANK_86 2402092691 8/8/2024 Report			MW-185S_080824 2402092692 8/8/2024 Valid Report			
	Analyte	Cas No.	Result	Limit		Qualifier	Result	-	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 # 240-209269-1 CADENA Verification Report: 2024-08-19

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 55543R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-209269-1 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:

Somelo ID	Lab ID	Matrix	Sample	Poront Somplo	Ana	ysis
Sample ID		Matrix	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_86	240-209269-1	Water	08/08/2024		Х	
MW-185S_080824	240-209269-2	Water	08/08/2024		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.

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		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:	September 12, 2024

PEER REVIEW: Andrew Korycinski

DATE: September 20, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record



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

Client Contact Company Name: Arcadis	Regula	tory program:		T DV	v		PDES		RC	RA	0	ther									Test A merica	Laboratories.	Inc
	Client Project	Manager: Kris H	linskey		a	Site C	ontact	: Chris	stina W	aver			Lab	Conta	ct: Mi	ke Del	Moni	0			COC No:	Laboratorics	
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	001 2210				Talan	hone: 2	19 00	1 2210				Tal	Telephone: 330-497-9396								_	
City/State/Zip: Novi, MI, 48377	Telephone: 246	-334-2240	÷			Telep	none: 4	240-774	4-2240									1 of	1 COCs				
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				Matrix			Contain	ers & P	reservat	ives	Sam.	826	E E	2-DC	8	g	oride	ane					-
Samela Identification	Sample Date	Sample Time	Air Aqueous	Sediment Solid	Other:	H2SO4	HCI HINO3	HOW	ZaAd NaOH Unpres	Other:	Filtered Sample (Y / N)	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				Specific Notes / Instructions:	
	Sample Date	Sample Thile		s s		+	_					-	-	-			-		+ +	+			
TRIP BLANK_ 86			1				1				NG	ΞX	X	X	X	X	X				1 Trip B	lank	
MW-1855_080324	8/8/24	IDAD	6				6				NO	ΞX	X	X	X	X	X	$ \chi $			3 VOAs f	or 8260D or 8260D SIN	" [_]
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Client Sample ID: TRIP BLANK_86

Date Collected: 08/08/24 00:00

Date Received: 08/10/24 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			08/16/24 09:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/16/24 09:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 09:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/16/24 09:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 09:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/16/24 09:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		08/16/24 09:42	1
4-Bromofluorobenzene (Surr)	100		56 - 136					08/16/24 09:42	1
Toluene-d8 (Surr)	107		78 - 122					08/16/24 09:42	1
Dibromofluoromethane (Surr)	103		73 - 120					08/16/24 09:42	1

Client Sample ID: MW-185S_080824

Date Collected: 08/08/24 10:00

Date Received: 08/10/24 08:00

Dibromofluoromethane (Surr)

	platile Organic C	ompounds	(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			08/15/24 16:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		68 - 127					08/15/24 16:01	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			08/16/24 13:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/16/24 13:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 13:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/16/24 13:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 13:13	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/16/24 13:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		62 - 137			_		08/16/24 13:13	1
4-Bromofluorobenzene (Surr)	99		56 - 136					08/16/24 13:13	1
Toluene-d8 (Surr)	108		78 - 122					08/16/24 13:13	1

73 - 120

105

08/16/24 13:13

1

Lab Sample ID: 240-209269-1 Matrix: Water

Lab Sample ID: 240-209269-2

Matrix: Water