PREPARED FOR

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

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JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-200192-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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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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Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-200192-1

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 240-200192-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA
Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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Case Narrative

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

Job ID: 240-200192-1 Eurofins Cleveland

Job Narrative 240-200192-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

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

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

Receipt

The samples were received on 2/29/2024 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 2 coolers at receipt time were 1.2°C and 2.8°C.

GC/MS VOA

Method 8260D: The matrix spike/matrix spike duplicate (MS/MSD) for samples TRIP BLANK_64 (240-200192-1) and MW-117S_022724 (240-200192-2) was not reported, because the analyte list for these samples did not match the analyte list for the MS/MSD parent sample.

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

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Job ID: 240-200192-1

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Method Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200192-1

Project/Site: Ford LTP - Off Site

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET CLE
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET CLE
5030C	Purge and Trap	SW846	EET CLE

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

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

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Sample Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-200192-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-200192-1	TRIP BLANK_64	Water	02/27/24 00:00	02/29/24 08:00
240-200192-2	MW-117S_022724	Water	02/27/24 09:30	02/29/24 08:00

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Detection Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200192-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_64 Lab Sample ID: 240-200192-1

No Detections.

Client Sample ID: MW-117S_022724 Lab Sample ID: 240-200192-2

No Detections.

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200192-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_64

Lab Sample ID: 240-200192-1 Date Collected: 02/27/24 00:00

Matrix: Water

Date Received: 02/29/24 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			03/04/24 19:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/24 19:31	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 19:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/04/24 19:31	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 19:31	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/04/24 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			_		03/04/24 19:31	1
4-Bromofluorobenzene (Surr)	101		56 ₋ 136					03/04/24 19:31	1
Toluene-d8 (Surr)	102		78 - 122					03/04/24 19:31	1
Dibromofluoromethane (Surr)	101		73 - 120					03/04/24 19:31	1

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200192-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-117S_022724

Lab Sample ID: 240-200192-2 Date Collected: 02/27/24 09:30

87

94

96

Matrix: Water

03/04/24 23:42

03/04/24 23:42

03/04/24 23:42

Date Received: 02/29/24 08:00

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/06/24 05:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		68 - 127			-		03/06/24 05:49	1
- 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			03/04/24 23:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/24 23:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 23:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/04/24 23:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 23:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/04/24 23:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			_		03/04/24 23:42	1

56 - 136

78 - 122

73 - 120

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 240-200192-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

	Percent Sui	rrogate Rec			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-200192-1	TRIP BLANK_64	106	101	102	101
240-200192-2	MW-117S_022724	110	87	94	96
LCS 240-604901/5	Lab Control Sample	107	107	105	103
MB 240-604901/8	Method Blank	95	99	91	87

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-200192-2	MW-117S_022724	90	
500-246731-A-11 MS	Matrix Spike	92	
500-246731-A-11 MSD	Matrix Spike Duplicate	97	
LCS 240-605036/4	Lab Control Sample	115	
MB 240-605036/6	Method Blank	97	

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

Client: Arcadis U.S., Inc.

Job ID: 240-200192-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-604901/8

Matrix: Water

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

Matrix: Water Analysis Batch: 604901

	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			03/04/24 17:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/24 17:50	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 17:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/04/24 17:50	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 17:50	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/04/24 17:50	1

MB MB Surrogate %Recovery Qualifier Prepared Dil Fac Limits Analyzed 62 - 137 03/04/24 17:50 1,2-Dichloroethane-d4 (Surr) 95 99 4-Bromofluorobenzene (Surr) 56 - 136 03/04/24 17:50 Toluene-d8 (Surr) 91 78 - 122 03/04/24 17:50 Dibromofluoromethane (Surr) 87 73 - 120 03/04/24 17:50

Lab Sample ID: LCS 240-604901/5

Matrix: Water

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

Analysis Batch: 604901

Vinyl chloride

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 98 1,1-Dichloroethene 25.0 24.4 ug/L 63 - 134 cis-1,2-Dichloroethene 25.0 26.4 ug/L 106 77 - 123 Tetrachloroethene 25.0 25.5 ug/L 102 76 - 123 trans-1,2-Dichloroethene 25.0 27.6 110 75 - 124 ug/L 25.0 Trichloroethene 29.1 ug/L 116 70 - 122

9.58

ug/L

77

60 - 144

12.5

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 107 62 - 137 4-Bromofluorobenzene (Surr) 107 56 - 136 Toluene-d8 (Surr) 105 78 - 122 Dibromofluoromethane (Surr) 103 73 - 120

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

Lab Sample ID: MB 240-605036/6

Client Sample ID: Method Blank
Matrix: Water

Prep Type: Total/NA

Matrix: Water								Prep Type: 7	Γotal/NA
Analysis Batch: 605036									
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/05/24 21:51	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		68 - 127			-		03/05/24 21:51	1

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3/6/2024

QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200192-1 Project/Site: Ford LTP - Off Site

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

Lab Sample ID: LCS 240-605036/4 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Water Analysis Batch: 605036

Spike LCS LCS %Rec Result Qualifier Analyte Added Unit %Rec Limits 1,4-Dioxane 10.0 10.7 ug/L 107 75 - 121

LCS LCS

Surrogate %Recovery Qualifier Limits 68 - 127 1,2-Dichloroethane-d4 (Surr) 115

Client Sample ID: Matrix Spike Lab Sample ID: 500-246731-A-11 MS Prep Type: Total/NA

Matrix: Water

Analysis Batch: 605036

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	3.7		10.0	13.4		ug/L		97	20 - 180	
	MS	MS								

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 92

Client Sample ID: Matrix Spike Duplicate Lab Sample ID: 500-246731-A-11 MSD Prep Type: Total/NA

Matrix: Water

Analysis Batch: 605036

	Sample	Sample	Spike	MSD	MSD			%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	%Re	c Limits	RPD	Limit
1,4-Dioxane	3.7	-	10.0	12.5		ug/L	 - 88	3 20 - 180	7	20

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

Eurofins Cleveland

QC Association Summary

Client: Arcadis U.S., Inc.

Job ID: 240-200192-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 604901

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch
240-200192-1	TRIP BLANK_64	Total/NA	Water	8260D
240-200192-2	MW-117S_022724	Total/NA	Water	8260D
MB 240-604901/8	Method Blank	Total/NA	Water	8260D
LCS 240-604901/5	Lab Control Sample	Total/NA	Water	8260D

Analysis Batch: 605036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200192-2	MW-117S_022724	Total/NA	Water	8260D SIM	
MB 240-605036/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-605036/4	Lab Control Sample	Total/NA	Water	8260D SIM	
500-246731-A-11 MS	Matrix Spike	Total/NA	Water	8260D SIM	
500-246731-A-11 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-200192-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_64

Lab Sample ID: 240-200192-1 Date Collected: 02/27/24 00:00

Matrix: Water

Dilution Batch Batch Batch Prepared Method Prep Type Туре Run Factor **Number Analyst** Lab or Analyzed Total/NA 8260D 604901 CDG EET CLE 03/04/24 19:31 Analysis

Client Sample ID: MW-117S_022724 Lab Sample ID: 240-200192-2

Date Collected: 02/27/24 09:30 **Matrix: Water**

Date Received: 02/29/24 08:00

Date Received: 02/29/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	604901	CDG	EET CLE	03/04/24 23:42
Total/NA	Analysis	8260D SIM		1	605036	MDH	EET CLE	03/06/24 05:49

Laboratory References:

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

Accreditation/Certification Summary

Client: Arcadis U.S., Inc. Job ID: 240-200192-1 Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Cleveland

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-24 *
Illinois	NELAP	200004	07-31-24
Iowa	State	421	06-01-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-01-24
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

 $^{^{\}star}\,\text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Chain of Custody Record

TestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Suite 2007 Brighton, MI 48116 7 810-229-2763

TestAmeric	CC
THE LEADER IN ENVIRONMENTAL	TESTING

Client Contact	Regulat	tory program:			DW	pare.	NPDE	S	-	RCR	A	- 0	ther									
Company Name: Arcadis			,																			America Laboratories, Inc.
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Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-2240				Tele	ph on e	: 248-	994-2	240				Te	lephon	: 330-	497-93	96				
City/State/Zip: Novi, M1, 48377																						1 of 1 COCs
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Special Instructions/QC Requirements & Comments: Sample Address: 120 月	Post																					
Submit all results through Cadena at jtomalia@cadenaco	.com. Cadena :	Æ203631																				
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emp°C	_°C Corrected Cooler Temp		°C) Observed Cooler Temp	R GUN# (CF + 1)
	Form	Multiple Cooler Form	À	1 Cooler temperature upon receipt
		lone	Dry Ice Water N	COOLANT: Wetter Blue Ice Dry Ice Water None
•	THE REPORT OF THE PROPERTY OF	one Other	Foam Plastic Bag N	Packing material used Bubble Wrap Foam Plastic Bag None
		Other	Eoam Box Chent Cooler Box	Eurofins Cooler # Leam Box
	1	Storage Location		Receipt After-houng Drop-off Date/Time
	Other	rofins Courier	Client Drop Off En	FedEx: 1st Grd Exp UPS FAS (Waypoint) Client Drop Off Eurofins Courier
タこく		しめって	Opened on Q	Cooler Received on
ed by	Cooler unpacked b)	Site Name	Chent HAUUS
****		Lysulli Lysulli	##	Barber on Escility

Ņ Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity

-Were the seals on the outside of the cooler(s) signed & dated? ΝA Receiving: checked for pH by Tests that are not

-Were tamper/custody seals intact and uncompromised? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?

0420 Shippers' packing slip attached to the cooler(s)? Did custody papers accompany the sample(s)?

Were the custody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC?

S N

Ÿ Z

Oil and Grease TOC

'n

(Z)

VOAs

No NA

Did all bottles arrive in good condition (Unbroken)?

Could all bottle labels (ID/Date/Time) be reconciled with the COC?

Were correct bottle(s) used for the test(s) indicated? For each sample, does the COC specify preservatives ((20N), # of containers ((YN), and sample type of grab/com((20N)? Yes No

Sufficient quantity received to perform indicated analyses? Are these work share samples and all listed on the COC?

If yes, Questions 13-17 have been checked at the originating laboratory

13 Were all preserved sample(s) at the correct pH upon receipt?

14 Were air bubbles >6 mm in any VOA vials? Were VOAs on the COC?

Was a VOA trip blank present in the cooler(s)? Trip Blank Lot# Larger than this

Was a LL Hg or Me Hg trip blank present?

Contacted PM Date ş via Verbal Voice Mail Other

Concerning

Sample(s) 20. SAMPLE PRESERVATION Sample(s) Sample(s) Sample(s) Time preserved. 19 SAMPLE CONDITION 18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Preservative(s) added/Lot number(s). were received after the recommended holding time had expired were received with bubble >6 mm in diameter (Notify PM) additional next page were received in a broken container were further preserved in the laboratory Samples processed by

VOA Sample Preservation -

Date/Tune VOAs Frozen

WI NC-099

Yes No

\$) \text{\$\}\ext{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\}\$}}}\ext{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\te\text{\$\text{\$\exititt{\$\text{\$\text{\$\}}}}\ext{\$\text{\$\exitt{\$\

NO NO

pH Strip Lo# HC316719

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DATA VERIFICATION REPORT



March 07, 2024

Kris Hinskey Arcadis Inc 10559 Citation Ave Suite 100 Brighton, MI 48116

CADENA project ID: E203631

Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater

Project number: 30167538.402.04

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

Laboratory submittal: 200192-1 Sample date: 2024-02-27

Report received by CADENA: 2024-03-06

Initial Data Verification completed by CADENA: 2024-03-07

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

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

There were no significant QC anomalies or exceptions to report.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at http://clms.cadenaco.com/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA 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: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 200192-1

		Sample Name:	TRIP BLA	NK_64			MW-117	S_02272	4	
		Lab Sample ID:	2402001	.921			2402001	1922		
		Sample Date:	2/27/202	24			2/27/202	24		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260	<u>D</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
OSW-8260	<u>DSIM</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 # 240-200192-1

CADENA Verification Report: 2024-03-07

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 53351R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-200192-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Parent Sample	Ana	lysis
Sample ID	Labib	IVIALITA	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_64	240-200192-1	Water	02/27/2024		X	
MW-117S_022724	240-200192-2	Water	02/27/2024		Х	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

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

ORGANIC ANALYSIS INTRODUCTION

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

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

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

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

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

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

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

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

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

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

6. Compound Identification

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

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	oorted		rmance ptable	Not Required	
	No	Yes	No	Yes	Required	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)					
Tier II Validation						
Holding times/Preservation		Х		Х		
Tier III Validation						
System performance and column resolution		Х		Х		
Initial calibration %RSDs		Х		Х		
Continuing calibration RRFs		Х		Х		
Continuing calibration %Ds		Х		Х		
Instrument tune and performance check		Х		Х		
Ion abundance criteria for each instrument used		Х		Х		
Field Duplicate RPD	Х				Х	
Internal standard		Х		Х		
Compound identification and quantitation						
A. Reconstructed ion chromatograms		Х		Х		
B. Quantitation Reports		Х		Х		
C. RT of sample compounds within the established RT windows		Х		Х		
D. Transcription/calculation errors present		X		X		
E. Reporting limits adjusted to reflect sample dilutions		Х		Х		

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Dilip Kumar

SIGNATURE:

DATE: March 21, 2024

PEER REVIEW: Andrew Korycinski

DATE: April 2, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record





Client Contact	Regulat	ory program:		DW	Par.	NPDES		F R	CRA		Othe	r						_		Tarthur	erica Laboratories,
Company Name: Arcadis	Client Project Manager: Kris Hinskey Telephone: 248-994-2240 Em all: kristoffer.hinskey@arcadis.com			Site	Site Contact: Christina Weaver					Į.	Lab Contact: Mike DelMonico Telephone: 330–497–9396						COC NO				
Address: 28550 Cabot Drive, Suite 500					Telephone: 248-994-2240																
City/State/Zip: Novl. M1, 48377				Tele						1 of 1 COCs											
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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-200192-1

Client Sample ID: TRIP BLANK_64

Project/Site: Ford LTP - Off Site

Lab Sample ID: 240-200192-1

Date Collected: 02/27/24 00:00 **Matrix: Water** Date Received: 02/29/24 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			03/04/24 19:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/24 19:31	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 19:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/04/24 19:31	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 19:31	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/04/24 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137					03/04/24 19:31	1
4-Bromofluorobenzene (Surr)	101		56 ₋ 136					03/04/24 19:31	1
Toluene-d8 (Surr)	102		78 - 122					03/04/24 19:31	1
Dibromofluoromethane (Surr)	101		73 - 120					03/04/24 19:31	1

Client Sample ID: MW-117S_022724 Lab Sample ID: 240-200192-2

Date Collected: 02/27/24 09:30 Date Received: 02/29/24 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			03/06/24 05:49	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	90		68 - 127			-		03/06/24 05:49	1	

Method: SW846 8260D - Vo Analyte	_	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/04/24 23:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/24 23:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 23:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/04/24 23:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 23:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/04/24 23:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4.0. Dialata and attaches at 4.00 and			00 407					00/04/04 00:40	

Surrogate	%Recovery Qualifier	Limits	Prepared Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110	62 - 137	03/04/24 23:42	1
4-Bromofluorobenzene (Surr)	87	56 - 136	03/04/24 23:42	1
Toluene-d8 (Surr)	94	78 - 122	03/04/24 23:42	1
Dibromofluoromethane (Surr)	96	73 - 120	03/04/24 23:42	1

Matrix: Water