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PREPARED FOR

ANALYTICAL REPORT

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 11/27/2023 4:36:58 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-195288-1

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 Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-195288-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-195288-1

Project/Site: Ford LTP - Off Site

Qualifiers

	VO	

Qualifier **Qualifier Description** MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. 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.

ML

MPN

MQL

NEG

POS

PQL

PRES

QC

RER RL

RPD TEF

TEQ TNTC

NC ND Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive **Quality Control**

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

Reporting Limit or Requested Limit (Radiochemistry)

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

Not Detected at the reporting limit (or MDL or EDL if shown)

Glossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit

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Case Narrative

Client: ARCADIS US Inc Job ID: 240-195288-1

Project/Site: Ford LTP - Off Site

Job ID: 240-195288-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-195288-1

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 11/11/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.3°C

GC/MS VOA

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

Method Summary

Client: ARCADIS US Inc Job ID: 240-195288-1

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 US Inc Project/Site: Ford LTP - Off Site Job ID: 240-195288-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-195288-1	TRIP BLANK_76	Water	11/09/23 00:00	11/11/23 08:00
240-195288-2	MW-89S_110923	Water	11/09/23 13:46	11/11/23 08:00

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Detection Summary

Client: ARCADIS US Inc Job ID: 240-195288-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_76 Lab Sample ID: 240-195288-1

No Detections.

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
cis-1,2-Dichloroethene	5.6	1.0	0.46 ug/L	1	8260D	Total/NA
trans-1,2-Dichloroethene	0.63 J	1.0	0.51 ug/L	1	8260D	Total/NA

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-195288-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_76

Lab Sample ID: 240-195288-1 Date Collected: 11/09/23 00:00

Matrix: Water

Date Received: 11/11/23 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			11/19/23 19:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/23 19:09	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/23 19:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/23 19:09	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/23 19:09	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/23 19:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		62 - 137			_		11/19/23 19:09	1
4-Bromofluorobenzene (Surr)	79		56 ₋ 136					11/19/23 19:09	1
Toluene-d8 (Surr)	103		78 - 122					11/19/23 19:09	1
Dibromofluoromethane (Surr)	85		73 - 120					11/19/23 19:09	1

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-195288-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-89S_110923

Lab Sample ID: 240-195288-2 Date Collected: 11/09/23 13:46

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/22/23 23:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		66 - 120			_		11/22/23 23:51	1
Method: SW846 8260D - Volat Analyte		ounds by G Qualifier	C/MS RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	RL			D	Prepared	·	Dil Fac
Analyte		Qualifier		MDL 0.49		D	Prepared	Analyzed 11/19/23 19:34	Dil Fac
Analyte 1,1-Dichloroethene	Result	Qualifier	RL		ug/L	<u>D</u> _	Prepared	·	Dil Fac 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene		Qualifier U	RL	0.49	ug/L ug/L	<u> </u>	Prepared	11/19/23 19:34	Dil Fac 1 1 1
Analyte 1,1-Dichloroethene cis-1,2-Dichloroethene Tetrachloroethene	Result 1.0 5.6	Qualifier U	1.0 1.0	0.49 0.46	ug/L ug/L ug/L	<u>D</u> _	Prepared	11/19/23 19:34 11/19/23 19:34	Dil Fac 1 1 1 1
	Result 1.0 5.6 1.0	Qualifier U U J	1.0 1.0 1.0	0.49 0.46 0.44	ug/L ug/L ug/L ug/L	<u>D</u> _	Prepared	11/19/23 19:34 11/19/23 19:34 11/19/23 19:34	Dil Fac 1 1 1 1 1 1 1

1.5	1.0	0.10 ug/L		11/10/20 10:01	
%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
85	62 - 137			11/19/23 19:34	1
79	56 - 136			11/19/23 19:34	1
104	78 - 122			11/19/23 19:34	1
89	73 - 120			11/19/23 19:34	1
		%Recovery Qualifier Limits 85 62 - 137 79 56 - 136 104 78 - 122	%Recovery Qualifier Limits 85 62 - 137 79 56 - 136 104 78 - 122	%Recovery Qualifier Limits Prepared 85 62 - 137 79 56 - 136 104 78 - 122	%Recovery Qualifier Limits Prepared Analyzed 85 62 - 137 11/19/23 19:34 79 56 - 136 11/19/23 19:34 104 78 - 122 11/19/23 19:34

Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-195288-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-195250-B-5 MS	Matrix Spike	80	80	103	87
240-195250-B-5 MSD	Matrix Spike Duplicate	83	90	105	90
240-195288-1	TRIP BLANK_76	82	79	103	85
240-195288-2	MW-89S_110923	85	79	104	89
LCS 240-595142/6	Lab Control Sample	82	92	108	90
MB 240-595142/10	Method Blank	84	84	104	88

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	(66-120)	
240-195177-C-7 MS	Matrix Spike	98	
240-195177-D-7 MSD	Matrix Spike Duplicate	100	
240-195288-2	MW-89S_110923	97	
LCS 240-595638/4	Lab Control Sample	101	
MB 240-595638/5	Method Blank	101	

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

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Job ID: 240-195288-1

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-595142/10

Matrix: Water

Analysis Batch: 595142

Client 9	Sample ID: Method Blank	
	Prop Type: Total/NA	

ep Type: Total/NA

	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			11/19/23 14:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/23 14:01	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/23 14:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/23 14:01	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/23 14:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/23 14:01	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 11/19/23 14:01 84 4-Bromofluorobenzene (Surr) 84 56 - 136 11/19/23 14:01 Toluene-d8 (Surr) 104 78 - 122 11/19/23 14:01 Dibromofluoromethane (Surr) 88 73 - 120 11/19/23 14:01

Lab Sample ID: LCS 240-595142/6

Matrix: Water

Analysis Batch: 595142

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	19.4		ug/L		97	63 - 134	
cis-1,2-Dichloroethene	20.0	18.9		ug/L		94	77 - 123	
Tetrachloroethene	20.0	20.3		ug/L		102	76 - 123	
trans-1,2-Dichloroethene	20.0	19.0		ug/L		95	75 - 124	
Trichloroethene	20.0	17.9		ug/L		89	70 - 122	
Vinyl chloride	20.0	17.0		ug/L		85	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	82		62 - 137
4-Bromofluorobenzene (Surr)	92		56 - 136
Toluene-d8 (Surr)	108		78 - 122
Dibromofluoromethane (Surr)	90		73 - 120

Lab Sample ID: 240-195250-B-5 MS

Matrix: Water

Analysis Batch: 595142

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

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	100	U	2000	1920		ug/L		96	56 - 135
cis-1,2-Dichloroethene	74	J	2000	1950		ug/L		94	66 - 128
Tetrachloroethene	100	U	2000	2020		ug/L		101	62 - 131
trans-1,2-Dichloroethene	100	U	2000	1890		ug/L		95	56 - 136
Trichloroethene	46	J	2000	1820		ug/L		89	61 - 124
Vinyl chloride	100	U	2000	1710		ug/L		86	43 - 157

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	80		62 - 137
4-Bromofluorobenzene (Surr)	80		56 - 136
Toluene-d8 (Surr)	103		78 - 122

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Project/Site: Ford LTP - Off Site

Client: ARCADIS US Inc Job ID: 240-195288-1

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

Lab Sample ID: 240-195250-B-5 MS

Lab Sample ID: 240-195250-B-5 MSD

Matrix: Water

Analysis Batch: 595142

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 87 73 - 120

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 595142

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	100	U	2000	2010		ug/L		101	56 - 135	5	26
cis-1,2-Dichloroethene	74	J	2000	2050		ug/L		99	66 - 128	5	14
Tetrachloroethene	100	U	2000	2060		ug/L		103	62 - 131	2	20
trans-1,2-Dichloroethene	100	U	2000	1980		ug/L		99	56 - 136	5	15
Trichloroethene	46	J	2000	1910		ug/L		93	61 - 124	5	15
Vinyl chloride	100	U	2000	1810		ug/L		90	43 - 157	6	24

MSD MSD Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 83 62 - 137 4-Bromofluorobenzene (Surr) 90 56 - 136 Toluene-d8 (Surr) 105 78 - 122 Dibromofluoromethane (Surr) 90 73 - 120

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

MR MR

Lab Sample ID: MB 240-595638/5

Matrix: Water

Analysis Batch: 595638

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Limits

80 - 122

Client Sample ID: Matrix Spike

%Rec

100

Prep Type: Total/NA

Dil Fac Analyte Result Qualifier RL **MDL** Unit Prepared Analyzed 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 11/22/23 15:25

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 101 66 - 120 11/22/23 15:25

Lab Sample ID: LCS 240-595638/4

Analyte

Matrix: Water			Prep Type: Total/NA
Analysis Batch: 595638			
	Snike	LCS LCS	%Rec

Result Qualifier

9.96

Unit

ug/L

Added

1,4-Dioxane 10.0 LCS LCS

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 101

Lab Sample ID: 240-195177-C-7 MS

Matrix: Water

Analysis Batch: 595638										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	280		20.0	309	4	ug/L		121	51 - 153	

Eurofins Cleveland

Prep Type: Total/NA

QC Sample Results

Client: ARCADIS US Inc Job ID: 240-195288-1

Project/Site: Ford LTP - Off Site

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		66 - 120

Lab Samp	le ID:	240-1	95177	-D-7	MSD
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Matrix: Water

Analysis Batch: 595638

Analysis Daten. 00000	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	280		20.0	313	4	ug/L		144	51 - 153	2	16

MSD MSD

Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 100 66 - 120

Prep Type: Total/NA

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11/27/2023

Client Sample ID: Matrix Spike Duplicate

QC Association Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - Off Site

Job ID: 240-195288-1

GC/MS VOA

Analysis Batch: 595142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
240-195288-1	TRIP BLANK_76	Total/NA	Water	8260D	
240-195288-2	MW-89S_110923	Total/NA	Water	8260D	
MB 240-595142/10	Method Blank	Total/NA	Water	8260D	
LCS 240-595142/6	Lab Control Sample	Total/NA	Water	8260D	
240-195250-B-5 MS	Matrix Spike	Total/NA	Water	8260D	
240-195250-B-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 595638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-195288-2	MW-89S_110923	Total/NA	Water	8260D SIM	
MB 240-595638/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-595638/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-195177-C-7 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-195177-D-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-195288-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_76

Lab Sample ID: 240-195288-1 Date Collected: 11/09/23 00:00

Matrix: Water

Date Received: 11/11/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	595142	HMB	EET CLE	11/19/23 19:09

Client Sample ID: MW-89S_110923 Lab Sample ID: 240-195288-2

Date Collected: 11/09/23 13:46 Matrix: Water

Date Received: 11/11/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	595142	HMB	EET CLE	11/19/23 19:34
Total/NA	Analysis	8260D SIM		1	595638	CS	EET CLE	11/22/23 23:51

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 240-195288-1 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
Georgia	State	4062	02-27-24
Ilinois	NELAP	200004	07-31-24
owa	State	421	06-01-25
Kentucky (UST)	State	112225	02-28-24
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-24
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23 *
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-02-24
Ohio	State	8303	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
Oregon	NELAP	4062	02-27-24
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
√irginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-23

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

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	TestAmerica Laboratory location: Brighton	tory location:	rightor	104	48 Citation	Drive, S	uite 200	10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	i, MI 481	16 / 810	-525-0	763						THE LEA	THE LEASEN IN ENVIRONMENT	AENTAL TEBTON
Client Contact	Regulat	Regulatory program:		MQ □	*	□ NPDES	ES	□ RCRA	ž	□ Other	L					1				
Company vame: Arcadis	Client Project N	Client Project Manager: Kris Hinskey	nskey			Site Con	act: Chr	Site Contact: Christina Weaver	aver		=	ab Contact: Mike DelMonico	tact: M	ike Del	Monico			Test	TestAmerica Laboratories, Inc.	ries, In
Address: 28550 Cabot Drive, Suite 500	Telenhone: 749.004.2740	004.2240				Telenbone, 240 004 2340	340 0	3340				, 000 and 000	9.0	0						
City/State/Zlp: Novi, MI, 48377	or all of the state of the stat	0477-466				relepho	ie: 240-7	phone: 244-354-2240				elepho	ne: 330	49/-93	٥			+	1 of 1 COCs	స
Phone: 248-994-2240	Email: Kristoffe	Email: Kristoffer.hinskey@arcadis.com	dis.com					1	11	No.		-	-	<	Analyses		F	For	For lab use only	
Project Name: Ford LTP Off-Site	Sampler Name:	Schende	0			TAT if differ	TAT if different from below 7 3 w 40 day	3 weeks										Wall	Walk-in client	
Project Number: 30167538.402.04	Method of Shipment/Carrier:	nent/Carrier:				2		1 week								MIS		9	and sampling	
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Special Instructions/UC Requirements & Comments: Sample Address: 34940 [$3e400$] Ref. Submit all results through Cadena at Itomalia@cadenaco.com, Cadena #E203631 Level IV Reporting requested.	idenaco.com, Cadena #	5203631																		
Notion Schence 1	Company:	^	Darie Control	Date/Time: [1-09-23	-	18:05	Rec	Received by: NOV 1 Co ld	45 B	Stande				Company	A COL	5		Date N - 6	Date/Time: 18:05	
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DATA VERIFICATION REPORT



November 27, 2023

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 off-site

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

Laboratory submittal: 195288-1 Sample date: 2023-11-09

Report received by CADENA: 2023-11-27

Initial Data Verification completed by CADENA: 2023-11-27

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.

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI $48108\ 517\text{-}819\text{-}0356$

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 195288-1

		Sample Name:	TRIP BLA	ANK_76			MW-899	5_11092	3	
		Lab Sample ID:	2401952	2881			2401952	2882		
		Sample Date:	11/9/20	23			11/9/20	23		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	<u>OD</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		5.6	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		0.63	1.0	ug/l	J
	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-826	<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 # 240-195288-1

CADENA Verification Report: 2023-11-27

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 52143R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-195288-1 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 10	Labib	IVIALITA	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_76	240-195288-1	Water	11/09/2023		Х	
MW-89S_110923	240-195288-2	Water	11/09/2023		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		Х	
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.

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 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					
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: Bindu Sree M B

SIGNATURE: BAShims

DATE: December 18, 2023

PEER REVIEW: Andrew Korycinski

DATE: December 20, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record

3.5.3

<u>TestAmerica</u>

Test	America Labora	itory location:	Brig	hton	10448	3 Citatio	on Dri	ive, S	Suite	200	/ Brig	ghton	, MI 4	B116	/ 810)-229-	2763									THE L	EASER IN ENVIRONMENTAL TESTING
Client Contact	Regula	tory program:	:	Г	- DW		Г	NPI	DES		Г	RCR	RA	Г	Oth	er [-										
Company Name: Arcadis	CR A D I A	V	*** *				la.			-						- 1											estAmerica Laboratories, Inc.
Address: 28550 Cabot Drive, Suite 500	Client Project Manager: Kris Hinskey					Site Contact: Christina Weaver Lab Contact							et: Mil	ce Del	Monic	0				CC	DC No:						
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240						Telephone: 248-				40					Tele	hone	330-4	97-93	96						
City/State/22p: Novi, Nii, 483//	Email: kristoff	er.hinskey@ar	cadis	com			-	, (-)	V100	11										A	nalys	PS				To Co	1 of 1 COCs
Phone: 248-994-2240													7 may ses					10	I lad use only								
Project Name: Ford LTP Off-Site	Sampler Name: NOLUN Schende					TAT if different from below 3 weeks 10 day 2 weeks														alk-in client							
Project Number: 30167538.402.04	Method of Ship			•			1	☐ 1 week							8				NIS	≥			Lab sampling	b sampling			
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				M a	atrix		7		taine		Prese			red Sam	Composite	1,1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE 8260B	8260B	TCE 8260B	Chloride	1,4-Dioxane				F	Sample Specific Notes /
Sample Identification	Sample Date	Sample Time	Alr	Aqueo	Solid	Other	H2SO4	HNO3	HC	NaOH	ZaAc	Uapres	Other:	Filtered	Com	1,1-0	Cis-1	Trans	PCE	TCE.	Viny	1,4-D					Special Instructions:
TRIP BLANK_ 76	.—			1					1					N	G	X	X	Х	X	X	X						1 Trip Blank
MW-895_110923	11/04/23	1346		6					6					N	6	X	K	X	X	X	X	X					3 VOAs for 8260B 3 VOAs for 8260B SIM
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Possible Hazard Identification																											
Non-Hazard Flammable Skin Irrit	ant [Poiso	on B	Unk	nown			S	ampl	le Dis Retui	sposa m to	l (A Clien	fee n	nay be ☑ [asses: Dispos	sed if	samp Lab			ned lo rchive		han 1		n) onths				
Special Instructions/QC Requirements & Comments: Sample Address: 34940 3 e 900 Submit all results through Cadena at Jtomalia@cadenacc	com Cadena t	E203631												•													
Level IV Reporting requested,	Account Caccona is																										
Relinguished by: Notur Schende (Company:			Date/Ti		3/1	8:0	5		W		(0	id 5	for.	10C				Company: Arcad. 5					W.	nte/Time: -04-23/18:05		
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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-195288-1 Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_76

Lab Sample ID: 240-195288-1 Date Collected: 11/09/23 00:00 **Matrix: Water**

Date Received: 11/11/23 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			11/19/23 19:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/19/23 19:09	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/23 19:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/19/23 19:09	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/23 19:09	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/23 19:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		62 - 137					11/19/23 19:09	1
4-Bromofluorobenzene (Surr)	79		56 - 136					11/19/23 19:09	1
Toluene-d8 (Surr)	103		78 - 122					11/19/23 19:09	1
Dibromofluoromethane (Surr)	85		73 - 120					11/19/23 19:09	1

Client Sample ID: MW-89S_110923

Date Collected: 11/09/23 13:46

Date Received: 11/11/23 08:00

Method: SW846 8260D	SIM - Volatile Orga	anic Compou	unds (GC/N	IS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/22/23 23:51	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 66 - 120 1,2-Dichloroethane-d4 (Surr) 11/22/23 23:51 97

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/19/23 19:34	1
cis-1,2-Dichloroethene	5.6		1.0	0.46	ug/L			11/19/23 19:34	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/19/23 19:34	1
trans-1,2-Dichloroethene	0.63	J	1.0	0.51	ug/L			11/19/23 19:34	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/19/23 19:34	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/19/23 19:34	1

Surrogate	%Recovery Qualifie	r Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85	62 - 137		11/19/23 19:34	1
4-Bromofluorobenzene (Surr)	79	56 - 136		11/19/23 19:34	1
Toluene-d8 (Surr)	104	78 - 122		11/19/23 19:34	1
Dibromofluoromethane (Surr)	89	73 - 120		11/19/23 19:34	1

Lab Sample ID: 240-195288-2

Matrix: Water