

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 5/30/2024 7:38:52 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-204913-1

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

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Qualifiers

Qualifiers		3
GC/MS VOA		
Qualifier	Qualifier Description	
*+	LCS and/or LCSD is outside acceptance limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	5
Glossary		6
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	0
CFU	Colony Forming Unit	0
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	9
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	13
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
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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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Job Narrative 240-204913-1

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

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

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

Receipt

The samples were received on 5/22/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C.

GC/MS VOA

Method 8260D: The laboratory control sample (LCS) for analytical batch 240-614605 recovered outside control limits for the following analytes: trans-1,2-Dichloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8260D: The continuing calibration verification (CCV) associated with batch 240-614605 recovered above the upper control limit for 1,1-Dichloroethene and trans-1,2-Dichloroethene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

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

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

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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

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-204913-1	TRIP BLANK_125	Water	05/20/24 00:00	05/22/24 08:00
240-204913-2	MW-103S_052024	Water	05/20/24 14:10	05/22/24 08:00

Detection Summary

Job ID: 240-204913-1

Lab Sample ID: 240-204913-1

Lab Sample ID: 240-204913-2

Project/Site: Ford LTP

Client: Arcadis U.S., Inc.

Client Sample ID: TRIP BLANK_125

No Detections.

Client Sample ID: MW-103S_052024

No Detections.

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

Client Sample ID: TRIP BLANK_125

Date Collected: 05/20/24 00:00 Date Received: 05/22/24 08:00

Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/28/24 23:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/28/24 23:08	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 23:08	1
trans-1,2-Dichloroethene	1.0	U *+	1.0	0.51	ug/L			05/28/24 23:08	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 23:08	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/28/24 23:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137			-		05/28/24 23:08	1
4-Bromofluorobenzene (Surr)	96		56 _ 136					05/28/24 23:08	1
Toluene-d8 (Surr)	101		78 - 122					05/28/24 23:08	1
Dibromofluoromethane (Surr)	103		73 - 120					05/28/24 23:08	1

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8 9

Lab Sample ID: 240-204913-1 Matrix: Water

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Client Sample ID: MW-103S_052024

Date Collected: 05/20/24 14:10 Date Received: 05/22/24 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			05/28/24 22:23	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	85		68 - 127			-		05/28/24 22:23	1	
Method: SW846 8260D - Volati	le 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			05/29/24 01:03	1	- 7
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/29/24 01:03	1	
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/29/24 01:03	1	
rans-1,2-Dichloroethene	1.0	U *+	1.0	0.51	ug/L			05/29/24 01:03	1	
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/29/24 01:03	1	
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/29/24 01:03	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		05/29/24 01:03	1	
4-Bromofluorobenzene (Surr)	92		56 - 136					05/29/24 01:03	1	
Toluene-d8 (Surr)	99		78 - 122					05/29/24 01:03	1	
Dibromofluoromethane (Surr)	102		73 - 120					05/29/24 01:03		

5/30/2024

Ich ID: 240 204012 4

Lab Sample ID: 240-204913-2

Job ID: 240-204913-1

Matrix: Water

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

Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits) DCA BFB TOL DBFM Client Sample ID (62-137) (56-136) (78-122) (73-120) Lab Sample ID 240-204738-A-11 MS Matrix Spike 98 97 95 99 240-204738-D-11 MSD Matrix Spike Duplicate 97 97 96 99 240-204913-1 TRIP BLANK_125 108 96 101 103 MW-103S_052024 240-204913-2 107 92 99 102 LCS 240-614605/4 Lab Control Sample 100 103 101 103 MB 240-614605/7 Method Blank 103 95 100 103 Surrogate Legend DCA = 1,2-Dichloroethane-d4 (Surr) BFB = 4-Bromofluorobenzene (Surr) TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-204853-H-4 MS	Matrix Spike	90	
240-204853-H-4 MSD	Matrix Spike Duplicate	92	
240-204913-2	MW-103S_052024	85	
LCS 240-614602/4	Lab Control Sample	87	
MB 240-614602/6	Method Blank	88	

Surrogate Legend

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

5/30/2024

9

13

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Prep Type: Total/NA

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

Lab Sample ID: MB 240-614605/7

Matrix: Water Analysis Batch: 614605

	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			05/28/24 16:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/28/24 16:16	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 16:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/28/24 16:16	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 16:16	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/28/24 16:16	1

	МВ	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		62 - 137		05/28/24 16:16	1
4-Bromofluorobenzene (Surr)	95		56 _ 136		05/28/24 16:16	1
Toluene-d8 (Surr)	100		78 - 122		05/28/24 16:16	1
Dibromofluoromethane (Surr)	103		73 - 120		05/28/24 16:16	1

Lab Sample ID: LCS 240-614605/4 Matrix: Water Analysis Batch: 614605

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	32.0		ug/L		128	63 - 134	
cis-1,2-Dichloroethene	25.0	26.6		ug/L		106	77 - 123	
Tetrachloroethene	25.0	27.4		ug/L		110	76 - 123	
trans-1,2-Dichloroethene	25.0	31.6	*+	ug/L		126	75 - 124	
Trichloroethene	25.0	26.5		ug/L		106	70 - 122	
Vinyl chloride	12.5	10.9		ug/L		88	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)			62 - 137
4-Bromofluorobenzene (Surr)	103		56 - 136
Toluene-d8 (Surr)	101		78 - 122
Dibromofluoromethane (Surr)	103		73 - 120

Lab Sample ID: 240-204738-A-11 MS Matrix: Water Analysis Batch: 614605

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
-Dichloroethene	1.0	U	25.0	30.7		ug/L		123	56 - 135
,2-Dichloroethene	1.0	U	25.0	25.5		ug/L		102	66 - 128
achloroethene	1.0	U	25.0	24.2		ug/L		97	62 - 131
s-1,2-Dichloroethene	1.0	U *+	25.0	30.9		ug/L		124	56 - 136
loroethene	1.0	U	25.0	24.7		ug/L		99	61 - 124
I chloride	1.0	U	12.5	10.3		ug/L		83	43 - 157
	MS	MS							
rogate	%Recovery	Qualifier	Limits						

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		62 - 137
4-Bromofluorobenzene (Surr)	97		56 - 136
Toluene-d8 (Surr)	95		78 - 122

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

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

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Job ID: 240-204913-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued) Lab Sample ID: 240-204738-A-11 MS **Client Sample ID: Matrix Spike** Matrix: Water Prep Type: Total/NA Analysis Batch: 614605 MS MS Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 99 73 - 120 Lab Sample ID: 240-204738-D-11 MSD **Client Sample ID: Matrix Spike Duplicate** Matrix: Water Prep Type: Total/NA Analysis Batch: 614605 MSD MSD %Rec Sample Sample Spike Analyte **Result Qualifier** Added Result Qualifier Unit D %Rec Limits RPD 1,1-Dichloroethene 1.0 U 25.0 31.1 ug/L 124 56 - 135 1 cis-1,2-Dichloroethene 1.0 U 25.0 25.9 104 66 - 128 ug/L 2 Tetrachloroethene 1.0 U 25.0 24.7 ug/L 99 62 - 131 2 trans-1,2-Dichloroethene 1.0 U*+ 25.0 30.8 ug/L 123 56 - 136 0 Trichloroethene 1.0 U 25.0 24.6 ug/L 99 61 - 124 0 Vinyl chloride 1.0 U 12.5 10.3 ug/L 83 43 - 157 0 MSD MSD Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 97 62 - 137 97 4-Bromofluorobenzene (Surr) 56 - 136 Toluene-d8 (Surr) 96 78 - 122 Dibromofluoromethane (Surr) 99 73 - 120 Method: 8260D SIM - Volatile Organic Compounds (GC/MS) Lab Sample ID: MB 240-614602/6 **Client Sample ID: Method Blank** Matrix: Water Prep Type: Total/NA Analysis Batch: 614602 MR MR Analyte Result Qualifier RL MDL Unit Prepared Analyzed D 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 05/28/24 20:25 MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 88 68 - 127 05/28/24 20:25 Lab Sample ID: LCS 240-614602/4 **Client Sample ID: Lab Control Sample** Matrix: Water Prep Type: Total/NA Analysis Batch: 614602 Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 10.0 9.92 ug/L 99 75 - 121

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		68 - 127

Lab Sample ID: 240-204853-H Matrix: Water Analysis Batch: 614602	-4 MS							Client		D: Matrix Spike Type: Total/NA
Analysis Batch. 014002	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	1.2	J	10.0	11.7		ug/L		106	20 - 180	

10

RPD

Limit

26

14

20

15

15

24

Dil Fac

Dil Fac

1

Eurofins Cleveland

Job ID: 240-204913-1

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

	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	90		68 - 127								
Lab Sample ID: 240-204853-	H-4 MSD					C	Client Sa	ample IC): Matrix Sp	oike Dur	licate
Matrix: Water									Prep T	Type: To	tal/NA
Analysis Batch: 614602											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	1.2	J	10.0	11.0		ug/L		98	20 - 180	6	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	92		68 - 127								

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GC/MS VOA

Analysis Batch: 614602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-204913-2	MW-103S_052024	Total/NA	Water	8260D SIM	
MB 240-614602/6	Method Blank	Total/NA	Water	8260D SIM	
_CS 240-614602/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-204853-H-4 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-204853-H-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	
nalysis Batch: 61460					
ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Bate
.ab Sample ID		Prep Type Total/NA	Matrix Water	Method	Prep Batc
Lab Sample ID 240-204913-1	Client Sample ID				Prep Bato
nalysis Batch: 61460 Lab Sample ID 240-204913-1 240-204913-2 MB 240-614605/7	Client Sample ID TRIP BLANK_125	Total/NA	Water	8260D	Prep Batc
Lab Sample ID 240-204913-1 240-204913-2	Client Sample ID TRIP BLANK_125 MW-103S_052024	Total/NA Total/NA	Water Water	8260D 8260D	_ Prep Batc
Lab Sample ID 240-204913-1 240-204913-2 MB 240-614605/7	Client Sample ID TRIP BLANK_125 MW-103S_052024 Method Blank	Total/NA Total/NA Total/NA	Water Water Water	8260D 8260D 8260D	_ Prep Bato

Lab Sample ID: 240-204913-1

Matrix: Water

Matrix: Water

Client Sample ID: TRIP BLANK_125 Date Collected: 05/20/24 00:00

Duto	0011001001.	00/20/24 00.00
Date	Received:	05/22/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D			614605	CS	EET CLE	05/28/24 23:08

Client Sample ID: MW-103S_052024 Date Collected: 05/20/24 14:10

Date Received: 05/22/24 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	614605	CS	EET CLE	05/29/24 01:03
Total/NA	Analysis	8260D SIM		1	614602	MDH	EET CLE	05/28/24 22:23

Laboratory References:

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

Eurofins Cleveland

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	07-31-24	
lowa	State	421	06-01-25	
Kentucky (UST)	State	112225	02-27-25	
Kentucky (WW)	State	KY98016	12-30-24	
Minnesota	NELAP	039-999-348	12-31-24	
New Jersey	NELAP	OH001	06-30-24	
New York	NELAP	10975	04-02-25 02-27-25	
Ohio VAP	State	ORELAP 4062		
Oregon	NELAP	4062	02-27-25	
Pennsylvania	NELAP	68-00340	08-31-24	
Texas	NELAP	T104704517-22-19	08-31-24	
USDA	US Federal Programs	P330-18-00281	01-05-27	
Virginia	NELAP	460175	09-14-24	
West Virginia DEP	State	210	12-31-24	

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Chain of Custody Record



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

Client Contact	Regulat	ory program:		DW		N	PDES		RC	R.A	1	Other										
ompany Name: Arcadis	Client Project N	Manager: Kris	Hinske	.y.	I	Site Co	mtact: (Christ	tina W	eaver			La	b Co	itact: !	Mike	DelM	onico				America Laboratories, No:
ddress: 28550 Cabot Drive, Suite 500	Telephone: 248-994-2240							Felephone: 330-497-9396														
ity/State/Zip: Novi, MI, 48377	releptione: 248	-994-2240				retepn	one: 24	8-994	-2240				1 e	acpoo	ne: 3.30	0-49/-	9.190					1 of 1 COCs
	Email: kristoff	er.hinskey(a ar	cadis.c	011)		Âß	miyaia I	urtes	round	Imc			-		_		An	alyse	s		For la	ab use only
hone: 248-994-2240	Sampler Name				-	LATIC	different li	ontel	0%	r											Walk	-in client
roject Name: Ford LTP	M	awam	He	man		10 c		3	weeks												100	Mark I have a
roject Number: 30206169.0401.03	Method of Ship	1		•	_	10 0	зау	111	week		2	9							<u>s</u>		Labs	ampling
O # US3410018772	Shipping/Track	ine No:						1 - 1 1 - 1	days		ple (V / N)	rabe	6		097			60D	Q		Job S	DG No:
				Matrix				·			ple	C/ GraheG	000	00000	Irans-1,2-UCE 8260U			Vinyl Chloride 8260D	1.4-Dioxane 8260D SIM			
							ontainer	arr		na	Sau	lich	1,1-DCE 8260D		DCF 8260D			loric	xane			
				Agneous Sedimm	Other:	H2SO4		NaOH	Unpres	Other:	Ditered S.	Composite		-7.	F 82			Y C	0			Sample Specific Notes / Special Instructions:
Sample Identification	Sample Date	Sample Time	Air	Aquito	ŏ	E I	HC	Net	Vapre Unpre	0	124	ĉ			DC DC		2	<i></i>	4.			operation that actions.
TRIP BLANK <u>-1205</u> 125 MW-103S_052024				1			1				N	G	x >	$\langle \rangle$	< X	$\langle \rangle$	<	Х			1	Trip Blank
ALINI 1020 0020211	Chapil			7		-	1	-	-		+ +			1	1		-			+ +		VOAs for 8260D
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W7 NC-099-041724 Cooler Receipt Form

DATA VERIFICATION REPORT



May 30, 2024

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

CADENA project ID: E203728 Project: Ford Livonia Transmission Plant - Soil Gas, Ground Water and Soil Project number: 30206169.401.03 Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory submittal: 204913-1 Sample date: 2024-05-20 Report received by CADENA: 2024-05-30 Initial Data Verification completed by CADENA: 2024-05-30 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 LCS recovery was outlying biased high for the following analyte: TRANS-1,2-DICHLOROETHEHE. Associated client sample results were non-detect so qualification was not required based on this high bias QC outlier.

GCMS VOC QC batch CCV response outliers as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

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: 204913-1

		Sample Name: Lab Sample ID: Sample Date:	—			MW-103S_052024 2402049132 5/20/2024 Valid Report			Valid	
	Analyte	Cas No.	Result	Limit		Qualifier	Result	-	Units	
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 # 240-204913-1 CADENA Verification Report: 2024-05-30

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 54317R Review Level: Tier III Project: 30206169.401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-204913-1 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	ample ID Lab ID Matrix		Sample	Barant Sampla	Analysis		
Sample ID		Wattix	Collection Date	Parent Sample	VOC	VOC SIM	
TRIP BLANK_125	240-204913-1	Water	05/20/2024		Х		
MW-103S_052024	240-204913-2	Water	05/20/2024		Х	Х	

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

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

ORGANIC ANALYSIS INTRODUCTION

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

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

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

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

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

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

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

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

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 calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample ID	Initial / Continuing	Compounds	Criteria
TRIP BLANK_125	Continuing Colibration Varification %	1,1-Dichloroethene	+24.0%
MW-103S_052024	Continuing Calibration Verification %D	trans-1,2-Dichloroethene	+25.9%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification
		Non-detect	R
Initial and Continuing	RRF <0.05	Detect	J
Calibration		Non-detect	R
	RRF <0.01 ¹	Detect	J

DATA REVIEW

Initial/Continuing	Criteria	Sample Result	Qualification
	RRF >0.05 or RRF >0.01 ¹	Non-detect	
	RRF >0.05 OF RRF >0.01	Detect	No Action
		Non-detect	UJ
haitist Oslikastisa	%RSD > 20% or a correlation coefficient <0.99	Detect	J
Initial Calibration	0/ DOD 009/	Non-detect	R
	%RSD > 90%	Detect	J
		Non-detect	UJ
	%D >20% (increase in sensitivity)	Detect	J
Or a time in a Or like at time		Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
		Non-detect	R
	%D > 90% (increase/decrease in sensitivity)	Detect	J

Note:

¹RRF of 0.01 only applies to compounds which are typically poor responding compounds

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 REVIEW

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted	Perfo Acce	Not Required	
	No	Yes	No	Yes	Nequireu
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GO	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		X	
Tier III Validation		1		-	1
System performance and column resolution		Х		X	
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:	BASh_MB
DATE:	June 24, 2024

PEER REVIEW: Andrew Korycinski

DATE: June 30, 2024

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	Regulat	ory program:		.77	DW	-	NPDI	ES		RCRA	1	Ot	ber						CRAN HILL					
	Client Project Manager: Kris Hinskey Site Contact: Christina Weaver					Lab Contact: Mike DelMonico				 TestAmerica Laboratories, Inc COC No:			Inc											
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-2240				Tel	enhom	: 248-9	94-22	0				Telen	bone:	330-44	7-93)6			 			_
City/State/Zip: Novi, MI, 48377										dTime		-	-	. cicp	none.			nalys	05		 	of 1	COC	_
Phone: 248-994-2240	Email: kristoff	r.ninskey(d ar	cadis.c	om									\vdash					arys		ĺ	For lab u			
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Sample Identification	Sample Date	Sample Time	Alt	Aqueous	Salid Other:	HDSO4	FONH	BCI NaOII	ZnAc	Unpres Other:	Thread		1.1-DCE 8260D	cis-1.2-DCE 8260D	Irans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM			ample Speci Special Inst		
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TRIP BLANK <u>-120⁵⁶</u> 125 MW-103S_052024	5720/24	1410		6				6			1	VE	X	X	X	$\boldsymbol{\chi}$	X	${\boldsymbol{\chi}}$	$\boldsymbol{\chi}$		3 V	OAs for 8		1
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Possible Hazard Identification Non-Hazard Tammable on Irritant	Poise	n B	Joko		1_1_	-		Dispos deturn t		fee may	he asso Disp			les are		ned los		12010	ixonth) Mot	aths	 			-
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Submit all results through Cadena at jtomalia@cadenaco.t Level IV Reporting requested.																								
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Conside Treatmenton Laboratorione, Unit: All the principesettem. Treatmenton & Dreampt 111 all entrandes of Treatmenton Laboratories, etc. Trichloroethene

Vinyl chloride

Client Sample ID: TRIP BLANK_125

_ Method: SW846 8260D - Volatil	e Organic Compounds by GC/I	NS					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene		1.0	0.49 ug/L			05/28/24 23:08	1
cis-1,2-Dichloroethene	1.0 U	1.0	0.46 ug/L			05/28/24 23:08	1
Tetrachloroethene	1.0 U	1.0	0.44 ug/L			05/28/24 23:08	1
trans-1,2-Dichloroethene	1.0 -⊎ *+ _ UJ	1.0	0.51 ug/L			05/28/24 23:08	1

0.44 ug/L

0.45 ug/L

			-		
Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108	62 - 137		05/28/24 23:08	1
4-Bromofluorobenzene (Surr)	96	56 - 136		05/28/24 23:08	1
Toluene-d8 (Surr)	101	78 - 122		05/28/24 23:08	1
Dibromofluoromethane (Surr)	103	73 - 120		05/28/24 23:08	1

1.0

1.0

Client Sample ID: MW-103S_052024

Date Collected: 05/20/24 14:10

Date	Received:	05/22/24	08:00

Dibromofluoromethane (Surr)

Method: SW846 8260D SIM - V	/olatile 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			05/28/24 22:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		68 - 127			-		05/28/24 22:23	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 − UJ	1.0	0.49	ug/L			05/29/24 01:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/29/24 01:03	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/29/24 01:03	1
trans-1,2-Dichloroethene	1.0	-⊎* + UJ	1.0	0.51	ug/L			05/29/24 01:03	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/29/24 01:03	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/29/24 01:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		62 - 137			-		05/29/24 01:03	1
4-Bromofluorobenzene (Surr)	92		56 - 136					05/29/24 01:03	1
Toluene-d8 (Surr)	99		78 - 122					05/29/24 01:03	1

73 - 120

08:00				
SIM - Volatile Organic C	ompounds (GC/MS)			
Result	Qualifier	RL	MDL	Un

1.0 U

1.0 U

102

Matrix: Water

Matrix: Water

1

1

Lab Sample ID: 240-204913-1

05/28/24 23:08

05/28/24 23:08

Lab Sample ID: 240-204913-2

05/29/24 01:03

1