Suite 500

Ford LTP

JOB NUMBER

PREPARED FOR

Arcadis U.S., Inc. 28550 Cabot Drive

Novi, Michigan 48377

Generated 8/26/2024 10:15:31 AM

Attn: Ms. Megan Meckley

ANALYTICAL REPORT

240-209337-1

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 Michael.DelMonico@et.eurofinsus.com (330)497-9396

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

Laboratory Job ID: 240-209337-1

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Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 240-209337-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

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

Percent Recovery %R CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

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)

Estimated Detection Limit (Dioxin) EDL LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

EPA recommended "Maximum Contaminant Level" MCL 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 **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

Case Narrative

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

Job ID: 240-209337-1 Eurofins Cleveland

Job Narrative 240-209337-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 8/13/2024 9:30 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 3.6°C and 4.2°C.

GC/MS VOA

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

Eurofins Cleveland

Job ID: 240-209337-1

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Method Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-209337-1

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

Job ID: 240-209337-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-209337-1	TRIP BLANK_66	Water	08/09/24 00:00	08/13/24 09:30
240-209337-2	MW-211S_080924	Water	08/09/24 09:55	08/13/24 09:30

Detection Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-209337-1

Client Sample ID: TRIP BLANK_66

No Detections.

Lab Sample ID: 240-209337-1

Client Sample ID: MW-211S_080924 Lab Sample ID: 240-209337-2

No Detections.

1

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7

0

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Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-209337-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_66

Lab Sample ID: 240-209337-1 Date Collected: 08/09/24 00:00

Matrix: Water

Date Received: 08/13/24 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/16/24 19:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/16/24 19:30	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 19:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/16/24 19:30	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 19:30	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/16/24 19:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		62 - 137			-		08/16/24 19:30	1
4-Bromofluorobenzene (Surr)	91		56 ₋ 136					08/16/24 19:30	1
Toluene-d8 (Surr)	101		78 - 122					08/16/24 19:30	1
Dibromofluoromethane (Surr)	100		73 - 120					08/16/24 19:30	1

Eurofins Cleveland

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-209337-1

Project/Site: Ford LTP

Date Received: 08/13/24 09:30

Client Sample ID: MW-211S_080924

Lab Sample ID: 240-209337-2 Date Collected: 08/09/24 09:55

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			08/22/24 17:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		68 - 127			-		08/22/24 17:19	1
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	SC/MS						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/16/24 19:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/16/24 19:55	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 19:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/16/24 19:55	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/16/24 19:55	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/16/24 19:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		08/16/24 19:55	1
4-Bromofluorobenzene (Surr)	85		56 ₋ 136					08/16/24 19:55	1
Toluene-d8 (Surr)	104		78 - 122					08/16/24 19:55	1
Dibromofluoromethane (Surr)	97		73 - 120					08/16/24 19:55	1

Surrogate Summary

Client: Arcadis U.S., Inc. Job ID: 240-209337-1 Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Su	rrogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-209337-1	TRIP BLANK_66	114	91	101	100
240-209337-2	MW-211S_080924	111	85	104	97
240-209337-2 MS	MW-211S_MS_080924	95	106	100	97
240-209337-2 MSD	MW-211S_MSD_080924	95	107	97	98
LCS 240-623601/5	Lab Control Sample	87	94	90	91
MB 240-623601/9	Method Blank	101	79	83	90

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)	
240-209337-2	MW-211S_080924	92	
240-209337-2 MS	MW-211S_MS_080924	89	
240-209337-2 MSD	MW-211S_MSD_080924	94	
LCS 240-624313/4	Lab Control Sample	102	
MB 240-624313/6	Method Blank	99	
Surrogate Legend			
DCA = 1,2-Dichloroeth	ane-d4 (Surr)		

Eurofins Cleveland

Client: Arcadis U.S., Inc. Job ID: 240-209337-1

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

Lab Sample ID: MB 240-623601/9

Matrix: Water Analysis Batch: 623601

Project/Site: Ford LTP

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed 1,1-Dichloroethene 1.0 U 1.0 0.49 ug/L 08/16/24 12:24 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 08/16/24 12:24 1.0 U 08/16/24 12:24 Tetrachloroethene 1.0 0.44 ug/L trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 08/16/24 12:24 Trichloroethene 1.0 U 1.0 0.44 ug/L 08/16/24 12:24 Vinyl chloride 1.0 U 1.0 08/16/24 12:24 0.45 ug/L

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137		08/16/24 12:24	1
4-Bromofluorobenzene (Surr)	79		56 ₋ 136		08/16/24 12:24	1
Toluene-d8 (Surr)	83		78 - 122		08/16/24 12:24	1
Dibromofluoromethane (Surr)	90		73 - 120		08/16/24 12:24	1

Lab Sample ID: LCS 240-623601/5

Matrix: Water

Analysis Batch: 623601

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 89 63 - 134 1,1-Dichloroethene 25.0 22.3 ug/L cis-1,2-Dichloroethene 25.0 24.2 ug/L 97 77 - 123 Tetrachloroethene 25.0 24.5 ug/L 98 76 - 123 trans-1,2-Dichloroethene 75 - 124 25.0 23.9 ug/L 95 Trichloroethene 25.0 23.2 93 70 - 122 ug/L Vinyl chloride 12.5 11.2 ug/L 60 - 144

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		62 - 137
4-Bromofluorobenzene (Surr)	94		56 ₋ 136
Toluene-d8 (Surr)	90		78 - 122
Dibromofluoromethane (Surr)	91		73 - 120

Lab Sample ID: 240-209337-2 MS

Matrix: Water

Analysis Batch: 623601

Client Sample ID: MW-211S_MS_080924

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	25.0	19.6		ug/L		78	56 - 135	
cis-1,2-Dichloroethene	1.0	U	25.0	23.9		ug/L		96	66 - 128	
Tetrachloroethene	1.0	U	25.0	21.4		ug/L		85	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	22.0		ug/L		88	56 - 136	
Trichloroethene	1.0	U	25.0	20.3		ug/L		81	61 - 124	
Vinyl chloride	1.0	U	12.5	10.4		ug/L		83	43 - 157	

MS MS

Surrogate	%Recovery Qua	alifier Limits
1,2-Dichloroethane-d4 (Surr)	95	62 - 137
4-Bromofluorobenzene (Surr)	106	56 - 136
Toluene-d8 (Surr)	100	78 - 122

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Prep Type: Total/NA

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

Job ID: 240-209337-1

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

Lab Sample ID: 240-209337-2 MS

Lab Sample ID: 240-209337-2 MSD

Matrix: Water

Analysis Batch: 623601

Client Sample ID: MW-211S_MS_080924

Prep Type: Total/NA

MS MS

Surrogate %Recovery Qualifier

Limits Dibromofluoromethane (Surr) 97 73 - 120

Client Sample ID: MW-211S_MSD_080924

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 623601

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0	U	25.0	21.8		ug/L		87	56 - 135	11	26
cis-1,2-Dichloroethene	1.0	U	25.0	24.9		ug/L		100	66 - 128	4	14
Tetrachloroethene	1.0	U	25.0	23.7		ug/L		95	62 - 131	11	20
trans-1,2-Dichloroethene	1.0	U	25.0	23.4		ug/L		94	56 - 136	6	15
Trichloroethene	1.0	U	25.0	22.0		ug/L		88	61 - 124	8	15
Vinyl chloride	1.0	U	12.5	11.5		ug/L		92	43 - 157	10	24

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		62 - 137
4-Bromofluorobenzene (Surr)	107		56 - 136
Toluene-d8 (Surr)	97		78 - 122
Dibromofluoromethane (Surr)	98		73 - 120

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

Lab Sample ID: MB 240-624313/6

Matrix: Water

Analysis Batch: 624313

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Limits

75 - 121

%Rec

100

Prep Type: Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/22/24 10:17	1

MB MB

MR MR

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 99 68 - 127 08/22/24 10:17

Lab Sample ID: LCS 240-624313/4

Analyte

1,4-Dioxane

Matrix: Water			Prep Type: Total/NA
Analysis Batch: 624313			
	Spike	LCS LCS	%Rec

Result Qualifier

9.95

Unit

ug/L

Added

10.0

LCS LCS

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 102

Client Sample ID: MW-211S_MS_080924 Lab Sample ID: 240-209337-2 MS

Matrix: Water

Analysis Ratch: 624313

Analysis Batch. 024010	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	10.0		ug/L		100	20 - 180	

Eurofins Cleveland

Prep Type: Total/NA

QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-209337-1

Project/Site: Ford LTP

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

94

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	89		68 - 127

Lab Sam	nle II	D: 240	-209337	7-2 MSF
Lab Gaiii	PIC II	J. 270	-200001	-E IVIOL

Matrix: Water

Analysis Batch: 624313

1,2-Dichloroethane-d4 (Surr)

	Sample	Sample	Spike	MSD	MSD				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,4-Dioxane	2.0	U	10.0	8.30		ug/L		83	20 - 180
	MSD	MSD							
Surrogate	%Recovery	Qualifier	Limits						

68 - 127

Prep Type: Total/NA

RPD

19

4

Client Sample ID: MW-211S_MSD_080924

7

RPD

Limit 20

8

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QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-209337-1

GC/MS VOA

Analysis Batch: 623601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-209337-1	TRIP BLANK_66	Total/NA	Water	8260D	
240-209337-2	MW-211S_080924	Total/NA	Water	8260D	
MB 240-623601/9	Method Blank	Total/NA	Water	8260D	
LCS 240-623601/5	Lab Control Sample	Total/NA	Water	8260D	
240-209337-2 MS	MW-211S_MS_080924	Total/NA	Water	8260D	
240-209337-2 MSD	MW-211S_MSD_080924	Total/NA	Water	8260D	

Analysis Batch: 624313

Lab Sample ID 240-209337-2	Client Sample ID MW-211S_080924	Prep Type Total/NA	Matrix Water	Method Prep Batch 8260D SIM
MB 240-624313/6	Method Blank	Total/NA	Water	8260D SIM
LCS 240-624313/4	Lab Control Sample	Total/NA	Water	8260D SIM
240-209337-2 MS	MW-211S_MS_080924	Total/NA	Water	8260D SIM
240-209337-2 MSD	MW-211S_MSD_080924	Total/NA	Water	8260D SIM

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Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-209337-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_66

Lab Sample ID: 240-209337-1 Date Collected: 08/09/24 00:00

Matrix: Water

Date Received: 08/13/24 09:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	623601	MS	EET CLE	08/16/24 19:30

Client Sample ID: MW-211S_080924 Lab Sample ID: 240-209337-2

Date Collected: 08/09/24 09:55 Matrix: Water

Date Received: 08/13/24 09:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	623601	MS	EET CLE	08/16/24 19:55
Total/NA	Analysis	8260D SIM		1	624313	MS	EET CLE	08/22/24 17:19

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.

Project/Site: Ford LTP

Job ID: 240-209337-1

Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
lowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

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Chain of Custody Record

MICHIGAN 190

Company



8112/24 12:250

TestAmerica Laboratory location: Brighton --- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 Client Contact NPDES Regulatory program: RCRA Other Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 City/State/Zip: Novi, MI, 48377 1 of 1 COCs Analysis Turnaround Time Email: kristoffer.hinskey@arcadis.com Analyses For lab use only Phone: 248-994-2240 AT if different from below Sampler Name: Project Name: Ford LTP 3 weeks JENemy. 10 day → 2 weeks Lab sampling Project Number: 30206169.0401.03 Method of Shipment/Carrier: 1 week 1,4-Dioxane 8260D SIM Composite=C/Grab=G Filtered Sample (Y / N) 2 days Vinyl Chloride 8260D PO # US3410018772 Shipping/Tracking No: Job/SDG No Matrix Containers & Preservatives Sample Specific Notes / NaOH HC Special Instructions: Sample Date | Sample Time | 🕏 Sample Identification TRIP BLANK_ 60 G Χ Х 1 Trip Blank MU-215_080924 3 VOAs for 8260D 3 VOAs for 8260D SIM MW-245-MS_080924 08/08/24 09:55 Run MS/MSP MG-2115-MSD-081924 fron MS/MSD 08/09/24 19:55 240-209337 Chain of Custody Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Poison B Jnknown sin Irritant Return to Client Disposal By Lab Archive For Special Instructions/QC Requirements & Comments: Submit all results through Cadena at itomatia@cadenacc.com Level IV Reporting requested Relinquished by Company Ale 2dis Date/Time 08/08/29 14-30 08/09/24 4:30 Novi Cold Sturse

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8/12/24 +338

EETA

Received in Laboratory

8/26/2024

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nte/Time VOAs Frozen.	VOA Sample Preservation - Date/Time VOAs Frozen.
רובאבו אמוואב(א) מממכת/בטו חתוווחבו(א)	Time preserved.
were further preserved in the laboratory	
ON	20. SAMPLE PRESERVATION
were received with bubble >6 mm in diameter (Notify PM)	Sample(s)
were received after the recommended holding time had expired were received in a broken container	19. SAMPLE CONDITION Sample(s) Sample(s)
CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	18. CHAIN OF CUSTODY &
	Concerning
Datebyvıa Verbal Voice Mail Other	Contacted PM
	17 Was a LL Hg or Me Hg trip blank present?
r(s)? Trip	
ger than this Yes XIII	14 Were VOAs on the COC?
Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lo# HC442471	13 Were all preserved sample(s)
es and all listed on the COC? Yes (No)	12. Are these work share samples and all listed on the COC?
s?	11 Sufficient quantity received to
For each sample, does the COC specify preservanves (VN), # of containers (VN), and sample type of grab/comp((YN)); Were correct bottle(s) used for the test(s) indicated? Yes No	Yor each sample, does the COC specify preservance 10 Were correct bottle(s) used for the test(s) indicated?
early identified on the COC?	 Was/were the person(s) who c Did all hottles arrive in good
in the appropriate place?	
2	3 Shippers' packing slip attached to the cooler(s)? 4 Did custody papers accompany the sample(s)?
promised? YES No NA	2
-Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes Xo Receiving.	
le of the cooler(s)? If Yes Quantity Yes) No	2. Were tamper/custody seals or
O. / °C) Observed Cooler	IR GUN# CC
	upon 7
Blue Ice Dry Ice Water None Other	Packing material used: Built COOL ANT: Wet he
ox Client Cooler Box	Eurofins Cooler #
Storage Location	Drop-off
PAS Waynoint Client Drop Off E	FedEx: 1st Grd Exp UPS 1
	1,001
	Halberton Facility
Eurofins — Cleveland Sample Receipt Form/Narrative — Login # L	nuroling — Cleveland Sample

WT-NC-099-062024 Cooler Receipt Form.doc

	R GUN *	EC Client Box Other
Well ce Blue tee by lee Well ce Blue tee Well ce Blue tee Well ce Blue tee Well ce Blue tee	R GUN *	Client Box
Well ce sliue ice Dry ice	R GUN *	Client Box
Well ce Blue Ice Dry Ice	R GUN *	Client Box
Wellce Blue lce Dry lce	R GUN *: R	Client Box
Well ce Blus lice Dry lice	R GUN *	Client Box
Well ice Blue ice Dry ice Weller None Weller Blue ice Dry ice Weller Slue ice Dry ice	R GUN *:	Client Box
Well ce Blue ice Dry ice	R GUN *	Client Box
Wellice Blue ice Dry ice Wel ice Blue ice Dry ice	R GUN *:	Client Box
Wellice Blue ice Dry ice Wel ice Blue ice Dry ice	R GUN *: R	Client Box
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	IR GUN #:	Client Box
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None None None	IR GUN #:	EC Client Box Other
None e Ice None e Ice	IR GUN #:	EC Client Box Other
None e ice None	IR GUN #:	EC Client Box Other
None	IR GUN #:	EC Client Box Other
E Co	IR GUN #:	EC Client Box Other
" Bue	IR GUN #:	EC Client Box Other
Blue	IR GUN #:	EC Client Box Other
Wet ice Blue ice Dry ice Water None	IR GUN #:	EC Client Box Other
¥ We	JR GUN #:	EC Client Box Other
7 3.6 Wellow	1	EC Client Box Other
	IR Gun # Obse (Circle) Tem	Cooler Description (Circle)
Eurofins - Cleveland Sample Receipt Multiple Cooler Form	Eurofins - Cleveland Sample	

WI-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

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Login Container Summary Report

240-209337

8/26/2024

8/13/2024

MW-211S_080924	MW-211S_080924	MW-211S_080924	MW-211S_080924	MW-211S_080924	MW-211S_080924	MW-2118_080924	MW-211S_080924	MW-211S_080924	MW-211S_080924	MW-211S_080924	MW-211S_080924	MW-2118_080924	MW-211S_080924	MW-211S_080924	MW-211S_080924	MW-211S_080924	MW-211S_080924	TRIP BLANK_66	Client Sample ID
240-209337-G-2	240-209337-F-2 MSI	240-209337-F-2 MS	240-209337-E-2 MSD	240-209337-E-2 MS	240-209337-E-2	240-209337-D-2 MSD	240-209337-D-2 MS	240-209337-D-2	240-209337-C-2 MSD	240-209337-C-2 MS	240-209337-C-2	240-209337-B-2 MSD	240-209337-B-2 MS	240-209337-B-2	240-209337-A-2 MSD	240-209337-A-2 MS	240-209337-A-2	240-209337-A-1	Lab ID
Voa Vial 40ml - Hydrochloric Acid	240-209337-F-2 MSDVoa Vial 40ml - Hydrochloric Acid	240-209337-F-2 MS Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	240-209337-E-2 MS Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	240-209337-D-2 MS Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	240-209337-C-2 MS Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acıd	240-209337-B-2 MS Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Voa Vıal 40ml - Hydrochloric Acid	240-209337-A-2 MS Voa Vial 40ml - Hydrochloric Acıd	Voa Vial 40ml - Hydrochloric Acid	Voa Vial 40ml - Hydrochloric Acid	Container Type
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		The state of the s			Page	e 21 of	21			- Annual Control of the Control of t			The state of the s	The state of the s		and the second s		The state of the s	Preservation Preservation Added Lot Number

DATA VERIFICATION REPORT



August 27, 2024

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

CADENA project ID: E203728

Project: Ford Livonia Transmission Plant - Soil Gas, Ground Water and Soil

Project number: 30206169.0401.04_WA-02

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

Laboratory submittal: 209337-1 Sample date: 2024-08-09

Report received by CADENA: 2024-08-27

Initial Data Verification completed by CADENA: 2024-08-27

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, MS/MSD Recovery, MS/MSD RPD, 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 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: 209337-1

		Sample Name:	TRIP BL	ANK_66			MW-211			
		Lab Sample ID:								
		Sample Date:	8/9/202	4			8/9/202	Valid		
				Report		Valid				
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260	<u>DD</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										
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	