5

7

9

10

12

14

PREPARED FOR

ANALYTICAL REPORT

Attn: Kristoffer Hinskey Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 5/31/2024 7:24:27 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-204989-1

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

Generated 5/31/2024 7:24:27 AM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396

4

5

6

9

10

11

12

13

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

Laboratory Job ID: 240-204989-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	15
Lab Chronicle	16
Certification Summary	17
Chain of Custody	18

10

12

13

Definitions/Glossary

Client: Arcadis U.S., Inc. Job ID: 240-204989-1

Project/Site: Ford LTP

Qualifiers

GC/MS VOA
Qualifier Qualifier Description

F1 MS and/or MSD recovery exceeds control limits.
U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

6

0

16

11

Eurofins Cleveland

Case Narrative

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

Job ID: 240-204989-1 Eurofins Cleveland

Job Narrative 240-204989-1

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 temperatures of the 2 coolers at receipt time were 3.5°C and 3.7°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

Page 5 of 20 5/31/2024

2

Job ID: 240-204989-1

3

4

5

6

8

9

4 4

12

Method Summary

Client: Arcadis U.S., Inc. Job ID: 240-204989-1 Project/Site: Ford LTP

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

Sample Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204989-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-204989-1	TRIP BLANK_102	Water	05/17/24 00:00	05/22/24 08:00
240-204989-2	MW-171S_051724	Water	05/17/24 13:50	05/22/24 08:00

3

4

3

9

4 4

12

13

Detection Summary

Client: Arcadis U.S., Inc.

Job ID: 240-204989-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_102

Lab Sample ID: 240-204989-1

No Detections.

Client Sample ID: MW-171S_051724 Lab Sample ID: 240-204989-2

No Detections.

-

6

7

9

10

12

13

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204989-1

Project/Site: Ford LTP

Date Received: 05/22/24 08:00

Client Sample ID: TRIP BLANK_102

Lab Sample ID: 240-204989-1 Date Collected: 05/17/24 00:00

Matrix: Water

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 15:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/28/24 15:01	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 15:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/28/24 15:01	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 15:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/28/24 15:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		62 - 137					05/28/24 15:01	1
4-Bromofluorobenzene (Surr)	84		56 ₋ 136					05/28/24 15:01	1
Toluene-d8 (Surr)	96		78 - 122					05/28/24 15:01	1
Dibromofluoromethane (Surr)	112		73 - 120					05/28/24 15:01	1

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204989-1

Project/Site: Ford LTP

Date Received: 05/22/24 08:00

Dibromofluoromethane (Surr)

Client Sample ID: MW-171S_051724

Date Collected: 05/17/24 13:50

108

Lab Sample ID: 240-204989-2

05/28/24 15:26

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			05/29/24 13:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		68 - 127			-		05/29/24 13:41	1
Method: SW846 8260D - Volati	ile Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/28/24 15:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/28/24 15:26	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 15:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/28/24 15:26	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 15:26	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/28/24 15:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		05/28/24 15:26	1
4-Bromofluorobenzene (Surr)	79		56 ₋ 136					05/28/24 15:26	1
Toluene-d8 (Surr)	93		78 - 122					05/28/24 15:26	1

73 - 120

Surrogate Summary

Client: Arcadis U.S., Inc.

Job ID: 240-204989-1

Project/Site: Ford LTP

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)
240-204929-B-2 MSD	Matrix Spike Duplicate	105	99	96	102
240-204929-C-2 MS	Matrix Spike	104	94	99	103
240-204989-1	TRIP BLANK_102	113	84	96	112
240-204989-2	MW-171S_051724	113	79	93	108
LCS 240-614540/6	Lab Control Sample	104	96	101	101
MB 240-614540/10	Method Blank	113	85	95	108

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)	
240-204989-2	MW-171S_051724	88	
240-205008-A-2 MS	Matrix Spike	89	
240-205008-A-2 MSD	Matrix Spike Duplicate	93	
LCS 240-614704/4	Lab Control Sample	87	
MB 240-614704/6	Method Blank	85	
Surrogate Legend			

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

Eurofins Cleveland

2

Λ

5

7

9

11

14

13

Client: Arcadis U.S., Inc. Job ID: 240-204989-1

Project/Site: Ford LTP

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

Matrix: Water

Analysis Batch: 614540

Lab Sample ID: MB 240-614540/10

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

	МВ	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 13:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/28/24 13:44	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 13:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/28/24 13:44	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 13:44	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/28/24 13:44	1

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepared	d Analyzed	Dil Fac
	1,2-Dichloroethane-d4 (Surr)	113		62 - 137		05/28/24 13:44	1
	4-Bromofluorobenzene (Surr)	85		56 - 136		05/28/24 13:44	1
	Toluene-d8 (Surr)	95		78 - 122		05/28/24 13:44	1
İ	Dibromofluoromethane (Surr)	108		73 - 120		05/28/24 13:44	1

Lab Sample ID: LCS 240-614540/6

Matrix: Water

Analysis Batch: 614540

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	17.5		ug/L		87	63 - 134	
cis-1,2-Dichloroethene	20.0	18.4		ug/L		92	77 - 123	
Tetrachloroethene	20.0	17.3		ug/L		87	76 - 123	
trans-1,2-Dichloroethene	20.0	18.4		ug/L		92	75 - 124	
Trichloroethene	20.0	18.0		ug/L		90	70 - 122	
Vinyl chloride	20.0	21.4		ug/L		107	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		62 - 137
4-Bromofluorobenzene (Surr)	96		56 ₋ 136
Toluene-d8 (Surr)	101		78 - 122
Dibromofluoromethane (Surr)	101		73 - 120

Lab Sample ID: 240-204929-B-2 MSD

Matrix: Water

Analysis Batch: 614540

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	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	20.0	17.5		ug/L		87	56 - 135	1	26
cis-1,2-Dichloroethene	1.7		20.0	20.4		ug/L		94	66 - 128	1	14
Tetrachloroethene	37	F1	20.0	46.5	F1	ug/L		50	62 - 131	8	20
trans-1,2-Dichloroethene	1.0	U	20.0	18.4		ug/L		92	56 - 136	1	15
Trichloroethene	2.9		20.0	20.6		ug/L		88	61 - 124	2	15
Vinyl chloride	1.0	U	20.0	21.8		ug/L		109	43 - 157	7	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	96		78 ₋ 122

Eurofins Cleveland

5/31/2024

Page 12 of 20

Job ID: 240-204989-1

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

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

Lab Sample ID: 240-204929-B-2 MSD

Matrix: Water

Analysis Batch: 614540

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

MSD MSD

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 102 73 - 120

Lab Sample ID: 240-204929-C-2 MS

Matrix: Water

Analysis Batch: 614540

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

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 1,1-Dichloroethene 1.0 U 20.0 17.2 ug/L 86 56 - 135 cis-1,2-Dichloroethene 20.0 20.1 92 66 - 128 1.7 ug/L Tetrachloroethene 37 F1 20.0 50.3 ug/L 69 62 - 131

trans-1.2-Dichloroethene 20.0 18.3 ug/L 91 1.0 U 56 - 136 Trichloroethene 2.9 20.0 21.0 ug/L 91 61 - 124 Vinyl chloride 1.0 U 20.0 20.4 ug/L 102 43 - 157

MS MS

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		62 - 137
4-Bromofluorobenzene (Surr)	94		56 - 136
Toluene-d8 (Surr)	99		78 - 122
Dibromofluoromethane (Surr)	103		73 - 120

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

Lab Sample ID: MB 240-614704/6

Matrix: Water

Analysis Batch: 614704

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 05/29/24 11:20

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 85 68 - 127 05/29/24 11:20

Lab Sample ID: LCS 240-614704/4

Matrix: Water Prep Type: Total/NA Analysis Batch: 614704 Spike LCS LCS %Rec

Analyte Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 10.0 9.49 ug/L 95 75 - 121

LCS LCS

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

Lab Sample ID: 240-205008-A-2 MS

Matrix: Water

Analysis Batch: 614704

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

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,4-Dioxane 2.0 U 10.0 9.81 ug/L 98 20 - 180

Eurofins Cleveland

QC Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204989-1

Project/Site: Ford LTP

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

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

Lab Sample	ID: 240	-205008-A-	2 MSD
Lub Cumpic	,0		_ 11100

Matrix: Water

Surrogate

Analysis Batch: 614704

1,2-Dichloroethane-d4 (Surr)

•	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	10.1		ug/L		101	20 - 180	3	20
	MSD	MSD									

 %Recovery
 Qualifier
 Limits

 93
 68 - 127

ŏ

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

10

44

12

QC Association Summary

Client: Arcadis U.S., Inc.

Project/Site: Ford LTP

Job ID: 240-204989-1

GC/MS VOA

Analysis Batch: 614540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
240-204989-1	TRIP BLANK_102	Total/NA	Water	8260D	
240-204989-2	MW-171S_051724	Total/NA	Water	8260D	
MB 240-614540/10	Method Blank	Total/NA	Water	8260D	
LCS 240-614540/6	Lab Control Sample	Total/NA	Water	8260D	
240-204929-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
240-204929-C-2 MS	Matrix Spike	Total/NA	Water	8260D	

Analysis Batch: 614704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-204989-2	MW-171S_051724	Total/NA	Water	8260D SIM	
MB 240-614704/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-614704/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-205008-A-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-205008-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

2

4

1

Ö

4.6

11

12

13

Lab Chronicle

Client: Arcadis U.S., Inc. Job ID: 240-204989-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_102

Lab Sample ID: 240-204989-1 Date Collected: 05/17/24 00:00

Matrix: Water

Dilution Batch Batch Batch Prepared Method Prep Type Туре Run Factor **Number Analyst** Lab or Analyzed Total/NA 8260D 614540 HMB EET CLE 05/28/24 15:01 Analysis

Client Sample ID: MW-171S_051724 Lab Sample ID: 240-204989-2

Date Collected: 05/17/24 13:50 **Matrix: Water**

Date Received: 05/22/24 08:00

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	614540	НМВ	EET CLE	05/28/24 15:26
Total/NA	Analysis	8260D SIM		1	614704	MDH	EET CLE	05/29/24 13:41

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

Job ID: 240-204989-1

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	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
Ohio VAP	State	ORELAP 4062	02-27-25
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

5

7

10

11

MICHIGAN 190

Chain of Custody Record

14	116	<u>TestAmeric</u>
. /	11 1	THE LEADER IN ENVIRONMENTAL TEST

Client Contact	Regula	tory program:		٦	DW		f I	NPD	ES		┌ RC	CRA	Г	Oth	er											
Company Name: Arcadis	Client Project	Manager: Kris	Hinske	y			Site (Cont	act: C	Chris	stina W	eaver/			-	Lab (Contac	t: Mil	e Dell	Monic						TestAmerica Laboratories, Inc. COC No:
Address: 28550 Cabot Drive, Suite 500		Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396																								
City/State/Zip: Novi, MI, 48377			andir a								round	Time	and the same			Analyses									_	1 of 1 COCs For lab use only
Phone: 248-994-2240		Email: kristoffer.hinskey@arcadis.com							44					8		Allalyses										
Project Name: Ford LTP	Sampler Name	"Alam	a 1	2	26	\circ				F 3	3 weeks															Walk-in client
Project Number: 30206169.0401.03	Method of Ship	ment/Carrier:		-17	<u> </u>	ч	10) day	ſ		2 weeks 1 week		2	ړ							₹					Lab sampling
PO # US3410018772	Shipping/Traci	cing No:									2 days 1 day		e (Y/)	Grab		8260D	8260D			8260D	360D S					Job/SDG No:
				M	atrix			Cont	ainers	& P	reserva	tives	Sampl	re-C/	8260	CE 8	S-DCE	9	Q0	oride	ane 87					
Sample Identification	Sample Date	Sample Time	Αir	Aqueous	Solid	Other:	H2SO4	HNO3	HCI	NaOil	NaOH Unpres	Other:	Filtered Sample (Y / N)	Composite	1,1-DCE 8260D	cls-1,2-DCE	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM					Sample Specific Notes / Special Instructions:
TRIP BLANK_102				1					1				N	G	X	X	х	Х	Х	Х						1 Trip Blank
MW-1715_051724	5/17/24	1350	(a					6				N	61	X	人	X	×	×	х	Χ					3 VOAs for 8260D 3 VOAs for 8260D SIM
					Ī		П		Т				T													
				\dagger	Г					1	_	+	T	+												
			H	+	+		H	+	+	+	+	+	+	+			-		-				\dashv		\dashv	
		Lifetiffi ive can		+	Ł	_	H	-	_	\dashv	+	+	+	+	-		-							$\vdash \vdash$	\dashv	
										-	+	-	+	-	_									$\vdash \vdash$	\dashv	
								Ш			1															
		240-204989	Chai	n of d									1													
		1	-			ody			-	T			Т													
				+			П	-	1	+	\top	-	\top											\Box		
Possible Hazard Identification							Sa	mple	Disp	osal	(A fee	may b	e asses	sed if	samp	es are	retai	ned lor	ger ti	an 1 r			_			
▼ Non-Hazard	ritant Poise	on B	Jnkno		_				_		Client		Dispo	osal B	y Lab		<u> </u>	rchive	POT 1		MC	onths	_			
Submit all results through Cadena at jtomalia@caden Level IV Reporting requested.	aco.com. Cadena #l	E203728	17)	Br	eu	US	He	X	- S	+.														
Relinquished by: Allew Piller	Company:	SUS	Ē		٣ ا	HI	44	0	R	Recci V	CU.	((C	ld	S	tci	a	92		Comp		d	S			, j	5/17/24 140
Relinquished by:	Company:	eli		S Z			98	25	l n	Recei	ived by	C	f	4	_	-			Comp <i>Te</i>	any:						Date/Times 5/71/24 OSTS
Relinquished by:	Company:		E.	Pato/Ti	mej	4 (090	7)	R	Recci	ived in		tory b	-	V r	0.14	/ F P		Comp	7	7	10	C			Date Fine J-14 800

©2008, TretAmerica Laboratories, Inc., All rights reserved. TestAmerica & Design ¹⁶ are trademarks of TestAmerica Laboratories, Inc.

VOA Sample Preservation Date/Time VOAs Frozen
Sample(s)were further preserved in the laboratory Time preservedPreservative(s) added/Lot number(s)
20 SAMPLE PRESERVATION
Sample(s)were received after the recommended holding time had expired. Sample(s)were received in a broken container Sample(s)were received with bubble >6 mm in diameter (Notify PM)
18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by:
Concerning
Contacted PM Date by via Verbal Voice Mail Other
14. Were VOAs on the COC? 15. Were air bubbles >6 mm in any VOA vials? 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # COVR COVR Yes No. 17. Was a LL Hg or Me Hg trip blank present? Yes No.
ve been checked at the originating laboratory (s) at the correct pH upon receipt?
11 Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC? Yes You
9 For each sample, does the COC specify preservatives (Y/N), # of container (Y/N), and sample type of grab/comp(Y/N)? 10 Were correct bottle(s) used for the test(s) indicated?
Was/were the person(s) who collected the samples clearly identified on the COC? Did all bottles arrive in good condition (Unbroken)?
Did custody papers accompany the sample(s)? Were the custody papers relinquished & signed in the appropriate place? Yes
-Were tamper/custody seals intact and uncompromised? Shippers' packing slip attached to the cooler(s)? Yes No
-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 No
IR GUN# (CF (CF) Observed Cooler Temp. °C Corrected Cooler Temp °C 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity/COC) Yes No
perature upon receipt See Multiple Cooler Form
Packing material used: Shubble Wrap Foam Plastic Bag None Other COOLANT: Wet Ice Blue Ice Dry Ice Waten None
x Client Cooler Box Oth
cp UPS FAS (Waypoint) Chent Drop Off E
Cooler Received on 5-27-24 Opened on 5-22-24 TAMMY ROYER
Eurofins = Cleveland Sample Receipt Form/Narrative

Page 19 of 20

Wellee Bluelee Dry		IR GUN #	Box Other	Client	r
Wet Ice Bive Ice Dry Ice Water None		IR GUN #:	Box Other	Cllent	ñ
Wellice Blue ice Dry Woler None		R GUN #	Box Other	Client	TC
Wel ice Bive Ice Dry Ice Water None		IR GUN #:	Box Other	Client	EC.
Welfice Bive Ice Dry Water None		IR GUN #:	Box Other	Client	8
Wet ice Blue Ice Dry ice Water None		IR GUN #:	Box Ofher	Client	n n
Welice Biveice Dryice Water None		IR GUN #:	Box Other	Client	EC
Wettice Blue ice Drytice Water None		IR GUN #:	Box Other	Client	n
Wet Ice Blue Ice Dry Water None	-	IR GUN #:	Box Other	Client	EC .
Wet Ice Blue Ice Dry Ice Water Mone		IR GUN #:	Box Other	Client	E.
Wet Ice Blue Ice Dry Ice Water None		IR GUN #:	Box Other	Client	ا ا
Wet Ice Blue Ice Dry Ice Water None		IR GUN #:	Box Offier	Client	ក
Blue /ater		IR GUN #:	Box Other	Client	EC.
Blue Ice /aler None		R GUN #:	Box Olher	Client	EC.
Wellice Bluelice Dry Water None		IR GUN #:	Box Other	Client	<u>ت</u>
Wellice Bluelice Dry Water None		IR GUN #:	Box Other	Client	ñ
=		IR GÜN #:	Box Other	Client	23
Wellice Bluelice Dry Water None		IR GUN #:	Box Olher	Client	EC .
Wellice Bluelice Drylice Waler None		IR GUN #:	Box Ofher	Client	EC.
Wetthe Blueice Dry Water None		IR GUN #:	Box Ofher	Client	EC
Wel Ice Blue Ice Dry Water None		IR GUN #:	Box Other	Client	ក
Welice Blueice Dryice Waler None		IR GUN #:	Box Other	Client	53
Wetice Blueice Dry		IR GUN #:	Box Other	Client	Ē.
Wet Ice Blue Ice Dry Woter None		IR GUN #:	Box Other	Client	E.C.
Wet Ice Stue Ice Dry Ice Water None		IR GUN #:	Box Other	Client	23
Wet Ice Blue Ice Dry Water None		IR GUN #:	Box Ofher	Client	23
Wet ice Blue ice Dry ice Water None		IR GUN #:	Box Other	Client	23
Wet fice Blue fice Dry fice Water None		IR GUN #:	Box Other	Client	EC
Wet ice Blue ice Dry Water None		IR GUN #:	Box Other	Client	EC
Wet Ice Bive Ice Dry Ice Water None		IR GUN #:	Box Other	Client	E
Wet Ice Blue Ice Dry Water None		IR GUN #:	Box Olher	Client	۳.
Wet ice Blue ice Dry Water None		IR GUN #:	Box Other	Client	E.C
37 (Wellice) Blue Ice Dry Ice	3.7	IR GUN #:	kax Olher	Client	(55)
Wet Ke Blue Ice Water None	ن ک ک	IR GUN #:	box Other	Client	SE.
Coolant (Circle)	Observed, Temp.°C	IR Gun # (Circle)	scription le)	Cooler Description (Circle)	β°
Enfollisticisticisticisticisticisticisticist	n nambic ischen inn	#Entollus - Clevelan	THE WASHINGTON	STATE OF THE PARTY	

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

DATA VERIFICATION REPORT



May 31, 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: 204989-1 Sample date: 2024-05-17

Report received by CADENA: 2024-05-31

Initial Data Verification completed by CADENA: 2024-05-31

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

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

There were no significant QC anomalies or exceptions to report.

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA 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: 204989-1

		Sample Name:	TRIP BL	ANK_10:	2		MW-171	1S_0517	24	
		Lab Sample ID:	240204	9891			240204	9892		
		Sample Date:	5/17/20	24			5/17/20	24		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	<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	
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 # 240-204989-1

CADENA Verification Report: 2024-05-31

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 54323R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-204989-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Parent Sample	Ana	lysis
Sample ID	Labib	Watrix	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_102	240-204989-1	Water	05/17/2024		Х	
MW-171S_051724	240-204989-2	Water	05/17/2024		Х	Х

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		Х		Х	
Master tracking list		Х		Х	
4. Methods of analysis		Х		Х	
5. Reporting limits		Х		Х	
6. Sample collection date		X		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.

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

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

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted	Perfo	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: BASHIME

DATE: June 25, 2024

PEER REVIEW: Andrew Korycinski

DATE: June 30, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record

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

14/16

<u>TestAmerica</u>

																				•				
Client Contact	Regular	tory program:	:		DW	Γ	NPI	ES	1	┌ RCI	RA	\vdash o	ther											
Company Name: Arcadis	Client Project	Manager: Kris	Uinekay			C:+	Con	ta ata C	Chale	tina We				li ab	Conta	ct: Mi	ro Dol!	Monie			_		TestAmerica Laborato COC No:	ries, Inc.
Address: 28550 Cabot Drive, Suite 500			zanske,								4761								, 					
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240				Tele	ephor	ie: 248	8-994	-2240				Tele	phone	330-4	97-939	6					1 of 1 CC	OCs OCs
	Email: kristoff	er.hinskey@ar	cadis.cor	n			Ana	ysis T	urna	round T	ime				_		A	nalys	es				For lab use only	FEA. A.
Phone: 248-994-2240	Sampler Name					TA	Γ if dif	ferent fro	om bel	ow	1												Walk-in client	
Project Name: Ford LTP		Alan	Γ	مدلا	<i>(</i> ()				□ 3	weeks weeks	P													
Project Number: 30206169.0401.03	Method of Ship		<u> </u>	1	71 9	٦ ٔ	10 da	١	□ 1	week			,						Σ				Lab sampling	
PO # US3410018772	Shipping/Traci	cing No:				-			☐ 2 ☐ 1			Filtered Sample (Y / N)		9	8260D			Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM				Job/SDG No:	1
0 11 000 1100 100 100 100 100 100 100 1	ompping Trace	ung										륄		cls-1,2-DCE 8260D	CE 8			le 82	826				300,025 110.	
				Mat	rix		Con	tainers	s & Pi	reservati	ves	Sam S	826	S S	,2-D	69	G09	lorid	cane					
			Air	Sediment	- E	हु	60	_	₹	NaOH Unpres	Ë	lered	1 1-nce 8260n	1 2	Trans-1,2-DCE	PCE 8260D	TCE 8260D	2	<u>ê</u>	-			Sample Specific No Special Instructio	
Sample Identification	Sample Date	Sample Time	Agu Ar	Sed	Solid Other:	H2SO4	HNO3	IICI	Z Z	Os I	Other:	臣	3	- ÷	Tra	S.	1C	ŝ	1,4				Special first dello	
TRIP BLANK_(O?			1					1				NC	3 >	< x	X	x	х	Х					1 Trip Blank	1
MW-1715_051724	5/17/24	1250	6					7				NE	77 >	/ x	X	×	X	х	χ				3 VOAs for 8260D	
MW-1113-03/124	7/11/61	1950	+	4-1	-	+		9				NE	11/	1/	<u> </u>			-	<u> </u>	_	-	+	3 VOAs for 8260D	SIM

				\perp				4	_	\perp			_	_	-	ļ					-	4		
									-												1			
		fill the man	Biller Bass	+-+		+						1		+-	 					\top	_			
								III								_				\perp	\bot	\perp		
																1								
									+	_	_	+	+-		+			_		-	+	+		
		240-204989	Chain	of C	ustody			li																
		1			- Cody																			
			++	+	1-		T	1	+	-		++	+		+-	\vdash	\vdash		-	+	+	+		
Possible Hazard Identification Non-Hazard Tammable cin Irrit	tant	on B	Jnknov	vn		1 5	ampl	e Disp Return	n to C	(A fee r	may be	assessed Disposal	if sar By La	nples ar	e reta	ined lo Archive	nger the	an 1 r	nonth) Moi	oths				
Special Instructions/QC Requirements & Comments:					_								-,								$\overline{}$			
Submit all results through Cadena at jtomalia@cadenac	co.com. Cadena #E	E203728	12	10	1 B	rei	D)	SHE	r	٠	 .													
Level IV Reporting requested.								-11																
Relinquished by:	Company:	US	Da	tc/Tim	1724	14	iC) R	Receiv	ved by:	(0)	d	540	ro	92	_	Comp	any:	di	 S			5/17/74 K	140
Relinquished by:	Company:		Da	tc/Tim			2	р		ved by:	20	Ë,					Comp	any:			1		Date/Times	
Relinquished by:		eli							Peca!	ved in L	abora	ory by:									_			CIDA
XXX	Company;		3	Tai	124	09	W	ľ	Kecci	veu III L		ory by:	١٧	D O	VED)	2000	34	T	ろつ			Date Time: 2-14	800

©2008, TestAmerica Laboratories, Inc., All rights reserved, TestAmerica & Design ¹⁴ are trademarks of TestAmerica Laboratories, Inc.

Client Sample Results

Client: Arcadis U.S., Inc. Job ID: 240-204989-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_102

Date Collected: 05/17/24 00:00 Matrix: Water

Date Received: 05/22/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/28/24 15:01	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/28/24 15:01	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 15:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/28/24 15:01	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 15:01	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/28/24 15:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		62 - 137			_		05/28/24 15:01	1
4-Bromofluorobenzene (Surr)	84		56 ₋ 136					05/28/24 15:01	1
Toluene-d8 (Surr)	96		78 - 122					05/28/24 15:01	1
Dibromofluoromethane (Surr)	112		73 - 120					05/28/24 15:01	1

Client Sample ID: MW-171S_051724 Lab Sample ID: 240-204989-2

Date Collected: 05/17/24 13:50

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			05/29/24 13:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		68 - 127			-		05/29/24 13:41	1
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 15:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/28/24 15:26	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 15:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/28/24 15:26	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/28/24 15:26	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/28/24 15:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		62 - 137			_		05/28/24 15:26	1
4-Bromofluorobenzene (Surr)	79		56 ₋ 136					05/28/24 15:26	1
Toluene-d8 (Surr)	93		78 - 122					05/28/24 15:26	1
Dibromofluoromethane (Surr)	108		73 - 120					05/28/24 15:26	1

Lab Sample ID: 240-204989-1

Matrix: Water