

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 3/6/2024 9:30:02 PM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-200194-1

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

lowo

Generated 3/6/2024 9:30:02 PM

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

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	12
QC Sample Results	13
QC Association Summary	15
Lab Chronicle	16
Certification Summary	17
Chain of Custody	18

GC/MS VOA Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		5
Abbreviation	These commonly used abbreviations may or may not be present in this report.	6
¤	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	0
CNF	Contains No Free Liquid	0
DER	Duplicate Error Ratio (normalized absolute difference)	0
Dil Fac	Dilution Factor	9
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)	13
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	

Job ID: 240-200194-1

Eurofins Cleveland

Job Narrative 240-200194-1

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

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

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

Receipt

The samples were received on 2/29/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.2°C and 2.8°C.

GC/MS VOA

Method 8260D: The matrix spike/matrix spike duplicate (MS/MSD) for samples TRIP BLANK_63 (240-200194-1), MW-139S_022724 (240-200194-2) and MW-141S_022724 (240-200194-3) was not reported, because the analyte list for these samples did not match the analyte list for the MS/MSD parent sample.

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

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

3 4

5

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 - Off Site

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-200194-1	TRIP BLANK_63	Water	02/27/24 00:00	02/29/24 08:00
240-200194-2	MW-139S_022724	Water	02/27/24 14:10	02/29/24 08:00
240-200194-3	MW-141S_022724	Water	02/27/24 10:50	02/29/24 08:00

Detection Summary		1
Client: Arcadis U.S., Inc. Project/Site: Ford LTP - Off Site	Job ID: 240-200194-1	2
Client Sample ID: TRIP BLANK_63	Lab Sample ID: 240-200194-1	
No Detections.		
Client Sample ID: MW-139S_022724	Lab Sample ID: 240-200194-2	4
No Detections.		5
Client Sample ID: MW-141S_022724	Lab Sample ID: 240-200194-3	
No Detections.		7
		8
		9
		1

Client Sample ID: TRIP BLANK_63

Date Collected: 02/27/24 00:00 Date Received: 02/29/24 08:00

Method: SW846 8260D - Volati	le Organic Comp	ounds by G	iC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/04/24 20:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/24 20:21	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 20:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/04/24 20:21	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 20:21	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/04/24 20:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137			-		03/04/24 20:21	1
4-Bromofluorobenzene (Surr)	94		56 - 136					03/04/24 20:21	1
Toluene-d8 (Surr)	108		78 - 122					03/04/24 20:21	1
Dibromofluoromethane (Surr)	86		73 - 120					03/04/24 20:21	1

Job ID: 240-200194-1

Matrix: Water

Lab Sample ID: 240-200194-1

Eurofins Cleveland

Client Sample ID: MW-139S_022724

Date Collected: 02/27/24 14:10 Date Received: 02/29/24 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			03/06/24 06:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		68 - 127			-		03/06/24 06:36	1
Method: SW846 8260D - Volati	ile Organic Comr	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			03/05/24 00:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/05/24 00:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/05/24 00:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/05/24 00:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/05/24 00:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/05/24 00:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137			-		03/05/24 00:32	1
4-Bromofluorobenzene (Surr)	93		56 - 136					03/05/24 00:32	1
Toluene-d8 (Surr)	96		78 - 122					03/05/24 00:32	1
Dibromofluoromethane (Surr)	88		73 - 120					03/05/24 00:32	1

3/6/2024

Lab Sample ID: 240-200194-2 Matrix: Water

Client Sample ID: MW-141S_022724

Date Collected: 02/27/24 10:50 Date Received: 02/29/24 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			03/06/24 07:00	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	86	Quanter	68 - 127			-	Treparea	03/06/24 07:00	1	
Method: SW846 8260D - Volati	ile 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			03/05/24 00:57	1	
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/05/24 00:57	1	
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/05/24 00:57	1	
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/05/24 00:57	1	
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/05/24 00:57	1	
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/05/24 00:57	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	98		62 - 137			-		03/05/24 00:57	1	
4-Bromofluorobenzene (Surr)	99		56 - 136					03/05/24 00:57	1	
Toluene-d8 (Surr)	98		78 - 122					03/05/24 00:57	1	
Dibromofluoromethane (Surr)	89		73 - 120					03/05/24 00:57	1	

3/6/2024

Job ID: 240-200194-1

Matrix: Water

Lab Sample ID: 240-200194-3

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

Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits) BFB DCA TOL DBFM Lab Sample ID **Client Sample ID** (62-137) (56-136) (78-122) (73-120) 240-200194-1 TRIP BLANK_63 95 94 108 86 240-200194-2 MW-139S_022724 98 93 96 88 240-200194-3 MW-141S_022724 98 99 98 89 LCS 240-604901/5 Lab Control Sample 107 107 105 103 MB 240-604901/8 Method Blank 95 99 91 87 Surrogate Legend DCA = 1,2-Dichloroethane-d4 (Surr) BFB = 4-Bromofluorobenzene (Surr) TOL = Toluene-d8 (Surr) DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

			Percent Surrogate Recovery (Acceptance Limits)	
		DCA		
Lab Sample ID	Client Sample ID	(68-127)		
240-200194-2	MW-139S_022724	90		
240-200194-3	MW-141S_022724	86		
500-246731-A-11 MS	Matrix Spike	92		
500-246731-A-11 MSD	Matrix Spike Duplicate	97		
LCS 240-605036/4	Lab Control Sample	115		
MB 240-605036/6	Method Blank	97		

Surrogate Legend

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

3/6/2024

Prep Type: Total/NA

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

	Lab Sample	ID: MB	240-604901/8
--	------------	--------	--------------

Matrix: Water Analysis Batch: 604901

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

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

Lab Sample ID: LCS 240-604901/5 Matrix: Water Analysis Batch: 604901

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	24.4		ug/L		98	63 - 134	
cis-1,2-Dichloroethene	25.0	26.4		ug/L		106	77 - 123	
Tetrachloroethene	25.0	25.5		ug/L		102	76 - 123	
trans-1,2-Dichloroethene	25.0	27.6		ug/L		110	75 _ 124	
Trichloroethene	25.0	29.1		ug/L		116	70 - 122	
Vinyl chloride	12.5	9.58		ug/L		77	60 - 144	
	LCS LCS							

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

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

Lab Sample ID: MB 240-605036/6 Matrix: Water Analysis Batch: 605036							Client Sa	ample ID: Metho Prep Type: 1	
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/05/24 21:51	1
	МВ	МВ							
Surrogate %R	Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		68 - 127			-		03/05/24 21:51	1

Prep Type: Total/NA

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

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

Lab Sample ID: LCS 240-60	5036/4						Client	Sample	ID: Lab Co		
Matrix: Water									Prep T	ype: To	tal/NA
Analysis Batch: 605036											
			Spike	LCS	LCS				%Rec		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane			10.0	10.7		ug/L		107	75 - 121		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	115		68 - 127								
Lab Sample ID: 500-246731-	A-11 MS							Client	Sample ID:	: Matrix	Spik
Matrix: Water									Prep T	ype: To	tal/N
Analysis Batch: 605036											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane	3.7		10.0	13.4		ug/L		97	20 - 180		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	92		68 - 127								
Lab Sample ID: 500-246731-	A-11 MSD						Client Sa	ample ID	: Matrix Sp	oike Dup	olicat
Matrix: Water									Prep T	ype: To	tal/N
Analysis Batch: 605036											
	Sample	Sample	Spike	MSD	MSD				%Rec		RP
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lim
1,4-Dioxane	3.7		10.0	12.5		ug/L		88	20 - 180	7	2
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	97		68 - 127								

GC/MS VOA Analysis Batch: 604901

500-246731-A-11 MS

500-246731-A-11 MSD

Matrix Spike

Matrix Spike Duplicate

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200194-1	TRIP BLANK_63	Total/NA	Water	8260D	
240-200194-2	MW-139S_022724	Total/NA	Water	8260D	
240-200194-3	MW-141S_022724	Total/NA	Water	8260D	
MB 240-604901/8	Method Blank	Total/NA	Water	8260D	
00 040 004004/5	Lab Control Sample	Total/NA	Water	8260D	
LCS 240-604901/5 nalysis Batch: 6050	•	Iotal/IvA	Mator	02000	
nalysis Batch: 6050	36		Matrix	Method	Prep Batch
	•	Prep Type Total/NA			Prep Batch
nalysis Batch: 60503 Lab Sample ID 240-200194-2	36 Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
nalysis Batch: 6050 Lab Sample ID	36 Client Sample ID MW-139S_022724	Prep Type Total/NA	Matrix Water	Method 8260D SIM	Prep Batch

Total/NA

Total/NA

Water

Water

8260D SIM

8260D SIM

5

12 13

Client Sample ID: TRIP BLANK_63 Lab Sample ID: 240-200194-1 Date Collected: 02/27/24 00:00 Matrix: Water Date Received: 02/29/24 08:00 Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed 8260D 604901 EET CLE 03/04/24 20:21 Total/NA Analysis CDG 1 Client Sample ID: MW-139S_022724 Lab Sample ID: 240-200194-2 Date Collected: 02/27/24 14:10 Matrix: Water Date Received: 02/29/24 08:00 Batch Batch Dilution Batch Prepared Prep Type Method Run Factor Number Analyst or Analyzed Туре Lab Total/NA 8260D 604901 CDG EET CLE 03/05/24 00:32 Analysis 1 Total/NA Analysis 8260D SIM 605036 MDH 03/06/24 06:36 1 EET CLE Client Sample ID: MW-141S_022724 Lab Sample ID: 240-200194-3 Date Collected: 02/27/24 10:50 Matrix: Water Date Received: 02/29/24 08:00 Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst or Analyzed Lab 03/05/24 00:57 Total/NA 8260D 604901 CDG EET CLE Analysis 1

1

605036 MDH

03/06/24 07:00

EET CLE

Laboratory References:

Total/NA

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

8260D SIM

Analysis

Eurofins Cleveland

Accreditation/Certification Summary

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

13

Laboratory: Eurofins Cleveland

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

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

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Chain of Custody Record



TestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 610-229-2763

Client Contact	Kegulat	ory program:		DW	NPC	103	RCRA		her						TestAmerica Lab	oratories,	
	Client Project M	lanager: Kris	H Inskey		Site Con	tact: Ch	ristin a Weaver			Lab Cont	act: Mik	e D elM o	nico		COC Na		
Idress: 28550 Cabot Drive, Suite 500	Telephone: 248	994-2240			Telepho	e: 248-9	994-2240			Telephon	e: 330-49	7-9396					
ty/State/Zlp: NovI, MI, 48377									_				110.00		1 of 1 COC		
one: 248-994-2240	Em all: kristoffer.hinskey@arcadis.com				Analysis Yurnaround Time				Analyses					For lab use only			
	Sampler Name:			TAT if different from below										Walk-in chent			
roject Name: Ford LTP Off-Site	Method of Ship	int le	6.7 101	1	10 da	y v	3 weeks 2 weeks								Lab sampling		
roject Number: 30167538.402.04	Method of Ship	nent/Carrier:	P		1	1	l week 2 days	2 P					Wis		-		
) # 30167538.402.04	Shipping/Track	ing No:			1		l day	Stal C		82600 CE 82600		Leon of the case o	8		Job/SDG No		
······································			M	atrix	Cit	taluers d	Preservatives		8	8 8		4	8 83		-		
Sample I dentification	Sample Date	Sample Time	Alt Aquess	Solid Other:	H2SOM	HCI NaOH	ZrAd NiOH U apies Other:	Filtered Sample (Y/N) Composite=C / Grab=G	1,1-DCE 8260D	as-1,2-DCE 82 Trans-1,2-DCE	PCE 82 60D	TCE 8260D	1,4-Dioxane 82600		Sample Speci Special Inst		
TRIP BLANK_ 63			1			1		NG	X	x x	X	x >	<		1 Trip Blan	k	
	2/27/24	1410	6			6		NG	X	XX	XX	xx			3 VOAs for 8 3 VOAs for 8		
MW-1415_022724	2 27/24	1050	6			6		NG	1	XX	ſΧ	XX				_	
	216161	1050			+												
														M	CHIG	AN	
					2	40-200	194 Chain of	Custody			-				190		
					TT												
Possible Hazard I dentification Non-Hazard Rammable Skin Irrita	nt Poiso	. 0	Unknown			Return to	al (A fee may b	assessed Disposal E			alned lo		Months				
	Doi 1 SG			CL D		K cturin to		Crisposal c	, Cab		- Citre		(violitity)				
ecial Instructions/QC Requirements & Comments: ample Address: 12066 Boston	2/2/2/2/2/2/	Dost	Trift	ust Ra	JAN												
iomit all results inrough Cadena at pomaliage denaco. Ivel IV Reporting requested.	cont. Cabena M	6203031															
inquisted by	Company	. du	Date/T	122/2	1 16	Re	ceived by MCV ceived by	Ci	15	tava	~	Company	Vachis		Date Tinte:	4 11.	
hinquished by am mas Au	Company:	dis	Date T	ime 78/74	093		ceived by:	DAT	\sim	0,0	77	Company			Date Time:	L In	
shnquished by:	Company:		Date/T		012	_	reived in Labora	Gry by:	~			<u>Compan</u>	y:		Detertime:	NA R	
nootro	EE-	TA	bl	2824	10/02		1 Lind	SPA	6			1	1 .		N-21.	04	

CC005, Testhererica Laboratories, Inc. All rights resoured. Testamenta & Design *** protocomarks of Testamenta Laboratories, In

18 CHAIN OF CUSTODY & SAMPLE DISCREPANCIES L additional next page Samples processed by: 19 SAMPLE CONDITION were received after the recommended holding time had expired Sample(s) were received after the recommended holding time had expired Sample(s) were received after the recommended holding time had expired Sample(s) were received with bubble >6 mm in diameter (Notify PM) 20 SAMPLE PRESERVATION Preservative(s) added/Lot number(s) Sample(s) Preservative(s) added/Lot number(s)	Barrofins Clevelual Sample Receipt Form/Nartative Login # Clear Multiple Code Provide Code Provide Code Provide
---	---

HI.NC.899 Coola Acator Form Pape 1 - Multiple Contra

Temperature Excursion Form				2 ¥	Ŗ	B	ন
			R CAN I				
			R CHH F:	ł	F		ñ
Wiles and the Miles				- OF	Ş.		7
WHEN HANNESS DITES				¥	Ĩ	ŧ	7
West Teo Barrier Manne					I	ł	T a
THE REAL			* CM ?:		ł		Ţ
Wider Have			# GWI #:		Ŧ	Î	8
to as and the firm			KGNP:	0 [°]	Ŧ		7
Helice Huelos Dyla				Q. Ž	Ŧ	Ę	8
Wellst Market Plan				5			1
Net and a second se			Xemt		ļ	1	
Water Heat			# GW 5:	ŧ		- [8
			X GWI 7:	¥	ž		8
			# GWN 1:		Ŧ	-	8
ALA COME COME				Ċ.	Ĩ.		8
414 431 449 451 451 451 451 451 451 451 451 451 451				Q.	Ŧ	£	8
Weiter She too Pitt					Ĭ	I	1
			X ON ?				Ţ
			3 NON 1:	¥	Ŧ	£	8
Weiter Bloo bot My ba			* GIN ::	Ö X SAY	ž	C T	8
NAME AND ADDRESS			XGX P	Other	Ţ	Q	8
And and for the second					Ŧ		8
WHITE AND ING				4	Ŧ	£	8
The second secon					Į		Ţ,
Well Street Lines			W GAN #:			E	,],
HAR HAR			W GUN C:	ł	Ŧ	£	8
			* CHI 1:	Other	Ŧ	21	8
Rails 401 and 421 MA				Ŷ	Ŧ	0. 1	8
Weiter Harrison					ž	Î	8
Welke She ka hite				ŧ	ž	ŝ	R
Weite the ist				₽ ¥	ž	Î	8
Weise Sheeker				ł	ž	ł	5
Wellist New York			R GHK 1:				
High Hone	-		M GVN 4:	₽	Ē		5
Worky Here					Ξ.	Ŧ	ਨ
Wetke Heeks			R GON F.	OHIN	1 _{px}		ħ
Welke She ke				₽₽ ₽	2 2	<u>S</u>	ה ⁽
Weike sive ice		α , D	DA -	Othey	žõ	Ê	5
Walks /' She ke	755	2 V			3		Sa
Weitey Hone		72	IN GUN #; 22	Offic:	Lox Lox		P
(Circia)	Je dual	(Circle) Temp °C Temp °C	(Circle)	non	r Descript (Circle)	Cooler Description	0 C
							•

C

3/6/2024

Logín #'

5

DATA VERIFICATION REPORT



March 07, 2024

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

CADENA project ID: E203631 Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater Project number: 30167538.402.04 Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory submittal: 200194-1 Sample date: 2024-02-27 Report received by CADENA: 2024-03-06 Initial Data Verification completed by CADENA: 2024-03-07 Number of Samples:3 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 <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: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory Submittal: 200194-1

		Sample Name: Lab Sample ID:	TRIP BLA 2402001	-			MW-139 2402001	S_02272	4		MW-1413	-	4	
		Sample Date:	2/27/202				2/27/2024				2/27/202			
				Report		Valid		Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC														
<u>OSW-8260D</u>														
1,:	1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
cis	s-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
Те	trachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
tra	ans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
Tri	chloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
Vir	nyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
OSW-8260DS	<u>IM</u>													
1,4	4-Dioxane	123-91-1					ND	2.0	ug/l		ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-200194-1 CADENA Verification Report: 2024-03-07

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 53353R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-200194-1 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	Analysis		
Sample ID		Matrix	Collection Date		VOC	VOC SIM	
TRIP BLANK_63	240-200194-1	Water	02/27/2024		Х		
MW-139S_022724	240-200194-2	Water	02/27/2024		Х	Х	
MW-141S_022724	240-200194-3	Water	02/27/2024		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 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.

DATA REVIEW

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		Performance Acceptable		
	No	Yes	No	Yes	Required	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)					
Tier II Validation						
Holding times/Preservation		Х		X		
Tier III Validation		1		-		
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		X		
C. RT of sample compounds within the established RT windows		Х		Х		
D. Transcription/calculation errors present		Х		X		
E. Reporting limits adjusted to reflect sample dilutions		Х		Х		
Notes:						

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

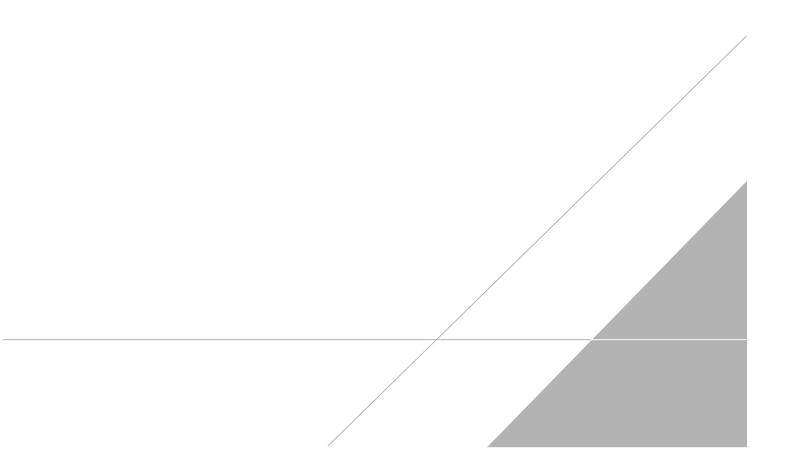
%D Percent difference

VALIDATION PERFORMED BY:	Dilip Kumar
SIGNATURE:	Perting
DATE:	March 21, 2024

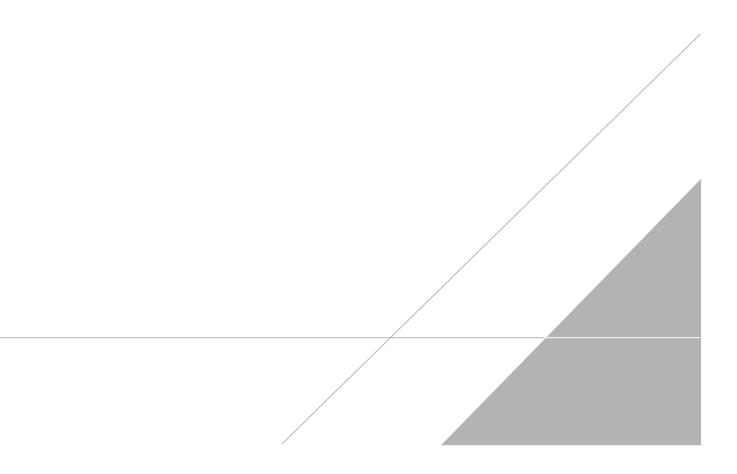
PEER REVIEW: Andrew Korycinski

DATE: April 2, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record



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

Client Project M Telephone: 248- Em all: kristoffe Sampler Name: Method of Shipn Shipping/TrackJ Sample Date	994-2240 er.hinskey@arc M / // nent/Carrier:	Cadis.com	61	Te	sieph or Anat	ie: 248 ysis Ti fereni fro	Christina 8-994-22 urwaroun om below 3 we v 2 we	40 Id Nime eks		-		b Cont: tephone		197-93			- 1 1	COC Noc 1 of For lab use on	ly
Em all: kristoffe Sampler Name: Le. Method of Shipm Shipping/Tracki	er.hinskey@arc <u>nf k</u> nent/Carrier:	azp	61		Anal Tiran	ysis T i Fereni fro	urmaroun om below 3 we ~ 2 we	id Nine		-	T	lephane	: 330-			es	- 1 1	For lab use on	ly
Em all: kristoffe Sampler Name: Le. Method of Shipm Shipping/Tracki	er.hinskey@arc <u>nf k</u> nent/Carrier:	azp	lar -		Anal Tiran	ysis T i Fereni fro	urmaroun om below 3 we ~ 2 we	id Nine		F		T				es		For lab use on	ly
Sampler Name:	mf K nent/Carrier:	azp	lar	TA	Tirdin	ferent fro	om below 3 we ✓ 2 we	eks		F			Γ		larys		TT		
Method of Shipm Shipping/Tracki	nt K nent/Carrier:		lar_	TA			3 we 2 we											171-11	
Shipping/Tracki			61		10 da	y	✓ 2 we					1	1					Walk-in chent	
Shipping/Tracki				_														Lab sampling	
	ing No:						l we 2 day		Z	C L		g			Q	SIM			
Sample Date							- I day		2	Gra		CE 82 60D			82.60	2600		Job/SDG No	
Sample Date			il atrix		CHE	tain ers	d. Prese	atives		C			0	0	wide	90 Bu			
Sample Date			¥	-				-	s pa	posit	8		82 60 D	8260D	Chid	ě j		Sample	Specific Notes /
	Sample Time	Alt	Selianeet Solid Other:	H2SOM	EO NH	HCI	HOAN PANZ	U upte	Filtered Sample (Y/N)	Composite=C / Grab=G	1,1-DCE	Trans-1,2-DOE	PCE	10E	Vinyl Chloride 8260D	1,4=Dioxane 82600 SIM		Specia	l instructions:
					Ē								T	T			1 T	1 Trin C	
						-				G	$^{\prime}$	$\langle ^{\wedge} \rangle$	×	×	×				
2/27/24	1410	6				6			N	G	XX	. X	X	x	x	$\boldsymbol{\lambda}$			for 8260D for 8260D SIM
2 122/24		10				10			hi	6	VI		X	X	x	X		_	}
212129	1050								$\downarrow \downarrow$	4	~	\geq	+		. 、	1			
				-									+						
				-+	1168		IN MAN							-					
					-111														
																		CIII	GAN
				-	111		0194 (hain of	Custo	dy									<u>^</u>
					24	10-20	0134					1	1					19	<u> </u>
					1		11												
		┝╌┼╌┼		-	+	-			+			-	+	-					
t Poison	n B	Unknown													han 1	month) Months			
2 156	Bach	NP	het	2014	1														
2126	DOST	Oria	0311		V														
Company		Date	Time:	as t	11.	R	leceived	1	0	il	<+	3.10		Com	any.	c. li	-	Date/Tinte:	che
Corpoany	units		Time:	-7		2/ R	eceived	by:		<u>I</u> <u>U</u>	210	ir a	77	Com	any:	(con)	>	Date Time:	10/ 162
	cus	2/	28/24	10	930	2	, 2	nle	Pet 1	6	\geq				E	ETA		2/28	124 101
Company:	TA			1.10	in	5	erelved	a Labora	y by	-				200	Dany:			Defertime:	5,249
		2/27/24 1050 2/27/24 1050 2/27/24 1050 Poison B 2015 2015 2015 2015 2015 2015 2015 2015	2/27/24 1410 6 2/27/24 1050 6 2/27/24 1050 6 Poison B Unknown 2011 2016 BOSTON P 2011 2016 Date 2016 2016 2016 2016 2016 2016 2016 2016	2/27/24 1410 6 2/27/24 1050 6 2/27/24 1050 6 Poison B Unknown 25/26 Boston Post 6 25/21/2 Boston Post 6 25/22/2 Company Date Time: 2/28/24 Company: Date Time: 2/28/24 Company: Date Time:	Poison B Unknown Poison B Unk	$\frac{2/27/24}{2} \frac{1410}{1050} \frac{16}{6}$ $\frac{2}{2} \frac{27}{24} \frac{1050}{1050} \frac{16}{6}$ $\frac{2}{2} \frac{127}{24} \frac{1050}{1050} \frac{16}{6}$ $\frac{2}{2} \frac{1}{2} \frac{10}{2} 1$	$\frac{2/27/24}{2} \frac{1410}{1050} \frac{16}{6}$ $\frac{2}{2} \frac{27}{24} \frac{1050}{1050} \frac{16}{6}$ $\frac{2}{2} \frac{27}{24} \frac{1050}{1050} \frac{16}{6}$ $\frac{100}{240-20}$ $\frac{240-20}{240-20}$ $\frac{240-20}{240-20}$ $\frac{100}{240-20}$ $\frac{100}{24$	$\frac{2/27/24}{2} \frac{1410}{1050} \frac{16}{6}$ $\frac{2}{2} \frac{27}{24} \frac{1050}{1050} \frac{16}{6}$ $\frac{16}{6}$ $\frac{2}{2} \frac{27}{24} \frac{1050}{1050} \frac{16}{6}$ $\frac{16}{6}$ $\frac{16}$	2/27/24 1050 6 6 6 2/27/24 1050 6 6 6 2/27/24 1050 6 6 6 2/27/24 1050 6 6 6 2/20-200194 Chain of 6 240-200194	2/27/24 1410 6 N 2/27/24 1050 6 10 10 Poison B Unknown Sample Disposal (A fee may be assess Reum to Client > Dispos 20194 Sample Disposal (A fee may be assess Reum to Client > Dispos > Dispos 2125 Boston Post Row Received by > Dispos 20096411 21/27/24 1651 Received by 20096412 21/27/24 1651 Received by 2125 Date/Time Received by Received by 2128/24 6930 Received by Mathematical Science Company: Date/Time Negator Negator	2/27/24 1410 6 NG 2/27/24 1050 6 NG 2/20-200194 Chain of Custody 240-200194 2/20-200194 Chain of Custody 240-200194 Chain of Custody 240-20030 Company Date/Time Neceived by 2402106 Company Date/Time Neceived by 2402107 Neceived by <td>2/27/24 j410 6 N K 2/27/24 1050 6 6 N K 2/20/20194 Chain of Custody 240-200194 Chain of Custody 240-200194 Chain of Custody 240-200194 Chain of Custody Poison B Unknown Sample Disposal (A fee may be assessed if samples Recur to Chent > Disposal By Lab 20-200194 Chain of Custody 24-2126 Boos ton Post ROW Sompany Date/Time: 21/28/24 6930 Company Date/Time: 21/28/24 6930 Negetived by Laboration</td> <td>2/27/24 júlio 6 NGXXX 2/27/24 1050 6 6 NGXXX 240-200194 Chain of Custody 2000194 Chain of Custody 21/2 21/2 21/2 1/2 21/2 1/2 21/2 1/2 21/2 1/2 21/2 1/2 21/2 1/2 21/2 1/2 21/2 1/2 21/2 1/2 21/2 1/2 21/2 1/2 21/2 1/2 21/2 1/2 21/</td> <td>2/27/24 1410 6 6 NGXXXXX 2/27/24 1050 6 6 NGXXXXX 2/20-200194 Chain of Custody 240-200194 Chain of Custody 240-200194 Chain of Custody 240-200194 Chain of Custody Poison 8 Unknown Sample Disposal (A fee may be assessed if samples are retailed if Poison 8 Unknown Recurred Client > Disposal By Lab 20-20194 Booston Post ROW Archive 20-20194 Datel Time: 2/27/24 ILosi Company Datel Time: Received by Machine Company: Datel Time: Preperved la Laboraget provided to</td> <td>2/27/24 1410 6 6 N G X X X X X 2/27/24 1050 6 6 N G X X X X X 2/27/24 1050 6 6 N G X X X X X 20-200194 Chain of Custody 240-200194 Chain of Custody 240-200194 Chain of Custody 240-200194 Chain of Custody 240-200194 Chain of Custody 240-200194 Custody 240-200194 Chain of Custody Custody 240-200194 240-200194 Control Disposal (A fee may be assessed if samples are retained longer t Received by Control Disposal By Lab Archive For 24-2145 Booston Post ROW Micury, Cold Storag - Disposal By Lab Archive For 24-2145 Daud Time 24/27/24 16/30 Micury, Cold Storag - Disposal By Cong -</td> <td>2/27/24 1050 6 6 N G X X X X X X 2/27/24 1050 6 6 N G X X X X X X 2/27/24 1050 6 6 N G X X X X X X 2/27/24 1050 6 6 N G X X X X X X 2/27/24 1050 6 6 N G X X X X X X 2/27/24 1050 6 6 N G X X X X X X 2/27/24 1050 6 6 N G X X X X X X 2/20-200194 Chain of Custody 240-200194 6 2/20-200194 Chain of Custody 6 6 2/20-200194 Chain of Custody 6 7 2/20-200194 Chain of Custody 7 7 2/20-200194 Control N 7 7</td> <td>2/27/24 1410 6 N X</td> <td>2/27/24 1410 6 NGXXXXXXXXXXXXX 2/27/24 1050 6 6 NGXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX</td> <td>2/27/24/1410 6 6 N G X X X X X X X X 3 VOAs 2/27/24/1050 6 6 N G X X X X X X X X 3 VOAs 2/27/24/1050 6 6 N G X X X X X X X X - 2/27/24/1050 6 6 N G X X X X X X X X - 2/27/24/1050 6 0 N G X X X X X X X X - 2/27/24/1050 6 0 N G X X X X X X X X - 2/27/24/1050 6 0 N G X X X X X X X X - 2/20/20194 Chain of Custody MCHI 2/40-200194 Chain of Custody 19 2/19 Company Months 2/19 Company Months 2/19 2/27/24/103 N Custody 2/17 Company Date/Time 2/28/24/0930 Netword by Cald Storagt Company 2/28/24/0930 Netword by Cald Storagt Company 2/27 Company Date/Time 2/</td>	2/27/24 j410 6 N K 2/27/24 1050 6 6 N K 2/20/20194 Chain of Custody 240-200194 Chain of Custody 240-200194 Chain of Custody 240-200194 Chain of Custody Poison B Unknown Sample Disposal (A fee may be assessed if samples Recur to Chent > Disposal By Lab 20-200194 Chain of Custody 24-2126 Boos ton Post ROW Sompany Date/Time: 21/28/24 6930 Company Date/Time: 21/28/24 6930 Negetived by Laboration	2/27/24 júlio 6 NGXXX 2/27/24 1050 6 6 NGXXX 240-200194 Chain of Custody 2000194 Chain of Custody 21/2 21/2 21/2 1/2 21/2 1/2 21/2 1/2 21/2 1/2 21/2 1/2 21/2 1/2 21/2 1/2 21/2 1/2 21/2 1/2 21/2 1/2 21/2 1/2 21/2 1/2 21/2 1/2 21/	2/27/24 1410 6 6 NGXXXXX 2/27/24 1050 6 6 NGXXXXX 2/20-200194 Chain of Custody 240-200194 Chain of Custody 240-200194 Chain of Custody 240-200194 Chain of Custody Poison 8 Unknown Sample Disposal (A fee may be assessed if samples are retailed if Poison 8 Unknown Recurred Client > Disposal By Lab 20-20194 Booston Post ROW Archive 20-20194 Datel Time: 2/27/24 ILosi Company Datel Time: Received by Machine Company: Datel Time: Preperved la Laboraget provided to	2/27/24 1410 6 6 N G X X X X X 2/27/24 1050 6 6 N G X X X X X 2/27/24 1050 6 6 N G X X X X X 20-200194 Chain of Custody 240-200194 Chain of Custody 240-200194 Chain of Custody 240-200194 Chain of Custody 240-200194 Chain of Custody 240-200194 Custody 240-200194 Chain of Custody Custody 240-200194 240-200194 Control Disposal (A fee may be assessed if samples are retained longer t Received by Control Disposal By Lab Archive For 24-2145 Booston Post ROW Micury, Cold Storag - Disposal By Lab Archive For 24-2145 Daud Time 24/27/24 16/30 Micury, Cold Storag - Disposal By Cong -	2/27/24 1050 6 6 N G X X X X X X 2/27/24 1050 6 6 N G X X X X X X 2/27/24 1050 6 6 N G X X X X X X 2/27/24 1050 6 6 N G X X X X X X 2/27/24 1050 6 6 N G X X X X X X 2/27/24 1050 6 6 N G X X X X X X 2/27/24 1050 6 6 N G X X X X X X 2/20-200194 Chain of Custody 240-200194 6 2/20-200194 Chain of Custody 6 6 2/20-200194 Chain of Custody 6 7 2/20-200194 Chain of Custody 7 7 2/20-200194 Control N 7 7	2/27/24 1410 6 N X	2/27/24 1410 6 NGXXXXXXXXXXXXX 2/27/24 1050 6 6 NGXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2/27/24/1410 6 6 N G X X X X X X X X 3 VOAs 2/27/24/1050 6 6 N G X X X X X X X X 3 VOAs 2/27/24/1050 6 6 N G X X X X X X X X - 2/27/24/1050 6 6 N G X X X X X X X X - 2/27/24/1050 6 0 N G X X X X X X X X - 2/27/24/1050 6 0 N G X X X X X X X X - 2/27/24/1050 6 0 N G X X X X X X X X - 2/20/20194 Chain of Custody MCHI 2/40-200194 Chain of Custody 19 2/19 Company Months 2/19 Company Months 2/19 2/27/24/103 N Custody 2/17 Company Date/Time 2/28/24/0930 Netword by Cald Storagt Company 2/28/24/0930 Netword by Cald Storagt Company 2/27 Company Date/Time 2/

CC005, Testamerica Laboratories, Inc. All rights received. Testamerica & Design ** protadomarks of Testamerica Laboratories, Inc.

Client Sample ID: TRIP BLANK_63

Date Collected: 02/27/24 00:00

Date Received: 02/29/24 08:00

Mathady SW946 9260D Valatile Organia Compounds by	COME
Method: SW846 8260D - Volatile Organic Compounds by	GC/WS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/04/24 20:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/04/24 20:21	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 20:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/04/24 20:21	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/04/24 20:21	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/04/24 20:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137			-		03/04/24 20:21	1

j	,,		-	 · · · · · · · · · · · · · · · · · · ·	
1,2-Dichloroethane-d4 (Surr)	95	62 - 1	37	 03/04/24 20:21	1
4-Bromofluorobenzene (Surr)	94	56 - 1	36	03/04/24 20:21	1
Toluene-d8 (Surr)	108	78 - 1	22	03/04/24 20:21	1
Dibromofluoromethane (Surr)	86	73 - 1	20	03/04/24 20:21	1

Client Sample ID: MW-139S_022724 Date Collected: 02/27/24 14:10 Date Received: 02/29/24 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			03/06/24 06:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		68 - 127					03/06/24 06:36	1
Method: SW846 8260D - V	olatile Organic	Compound	ds by GC/MS						
						-	Design and d	A	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte 1,1-Dichloroethene	Result 1.0				ug/L	<u> </u>	Prepared	Analyzed 03/05/24 00:32	DII Fac

Surrogate	%Pecoverv	Qualifier	l imite		Propared Analyzed	Dil Eac
Vinyl chloride	1.0	U	1.0	0.45 ug/L	03/05/24 00:32	1
Trichloroethene	1.0	U	1.0	0.44 ug/L	03/05/24 00:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51 ug/L	03/05/24 00:32	1
Tetrachloroethene	1.0	U	1.0	0.44 ug/L	03/05/24 00:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46 ug/L	03/05/24 00:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137		03/05/24 00:32	1
4-Bromofluorobenzene (Surr)	93		56 - 136		03/05/24 00:32	1
Toluene-d8 (Surr)	96		78 - 122		03/05/24 00:32	1
Dibromofluoromethane (Surr)	88		73 - 120		03/05/24 00:32	1

Client Sample ID: MW-141S_022724 Date Collected: 02/27/24 10:50 Date Received: 02/29/24 08:00

Method: SW846 8260D SIM -	Volatile Organic Compounds (GC/MS)								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/06/24 07:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		68 - 127			-		03/06/24 07:00	1

Lab Sample ID: 240-200194-1 Matrix: Water

Lab Sample ID: 240-200194-2

Lab Sample ID: 240-200194-3

Matrix: Water

Matrix: Water

Client Sample ID: MW-141S_022724 Date Collected: 02/27/24 10:50

Date Received: 02/29/24 08:00

Lab Sample ID: 240-200194-3 Matrix: Water

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	1.0	0.49	ug/L			03/05/24 00:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/05/24 00:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/05/24 00:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/05/24 00:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/05/24 00:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/05/24 00:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137			-		03/05/24 00:57	1
4-Bromofluorobenzene (Surr)	99		56 - 136					03/05/24 00:57	1
Toluene-d8 (Surr)	98		78 - 122					03/05/24 00:57	1
Dibromofluoromethane (Surr)	89		73 - 120					03/05/24 00:57	1