🛟 eurofins

Environment Testing America

ANALYTICAL REPORT

Eurofins Canton 180 S. Van Buren Avenue Barberton, OH 44203 Tel: (330)497-9396

Laboratory Job ID: 240-163275-1

Client Project/Site: Ford LTP - Off Site

For:

ARCADIS U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Attn: Kristoffer Hinskey

Mole Del your

Authorized for release by: 3/18/2022 9:53:18 AM

Michael DelMonico, Project Manager I (330)497-9396 Michael.DelMonico@Eurofinset.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Method Summary	5
Sample Summary	6
Detection Summary	7
Client Sample Results	8
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	13
Lab Chronicle	14
Certification Summary	15
Chain of Custody	16

3

Qualifiers

GC/MS VOA		
Qualifier	Qualifier Description	
*+	LCS and/or LCSD is outside acceptance limits, high biased.	_
U	Indicates the analyte was analyzed for but not detected.	5

Glossary

Abbraviation	These commonly used abbreviations may as may not be assessed in this way at
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤ V D	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
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: 240-163275-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-163275-1

Case Narrative

Comments

No additional comments.

Receipt

The samples were received on 3/4/2022 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 3 coolers at receipt time were 1.6° C, 2.2° C and 2.8° C.

GC/MS VOA

Method 8260B: The continuing calibration verification (CCV) associated with batch 519393 recovered above the upper control limit for multiple analytes. The samples associated with this CCV were non-detect for the affected analytes; therefore, the data have been reported. The associated samples are impacted: TRIP BLANK_107 (240-163275-1) and MW-130S_022822 (240-163275-2).

Method 8260B: The laboratory control sample (LCS) for 519393 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported: TRIP BLANK_107 (240-163275-1), MW-130S 022822 (240-163275-2) and (LCS 240-519393/5).

Method 8260B SIM: The matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-519570 was above calibration range.

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

VOA Prep

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

Job ID: 240-163275-1

Method Summary

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

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
5030B	Purge and Trap	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = Eurofins Canton, 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
240-163275-1	TRIP BLANK_107	Water	02/28/22 00:00	03/04/22 08:00
240-163275-2	MW-130S_022822	Water	02/28/22 09:50	03/04/22 08:00

Detection Sur	nmary
----------------------	-------

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

Client Sample ID: TRIP BLANK_107

No Detections.

Client Sample ID: MW-130S_022822

No Detections.

Lab Sample ID: 240-163275-1

Lab Sample ID: 240-163275-2

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK_107 Date Collected: 02/28/22 00:00 Date Received: 03/04/22 08:00

Date Received. 05/04/22 00.00									
Method: 8260B - Volatile Organic Compounds (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			03/08/22 14:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/22 14:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/22 14:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/22 14:58	1
Trichloroethene	1.0	U *+	1.0	0.44	ug/L			03/08/22 14:58	1
Vinyl chloride	1.0	U *+	1.0	0.45	ug/L			03/08/22 14:58	1

Vinyl chloride	1.0	U *+	1.0	0.45 ug/L		03/08/22 14:58	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		62 - 137			03/08/22 14:58	1
4-Bromofluorobenzene (Surr)	111		56 - 136			03/08/22 14:58	1
Toluene-d8 (Surr)	80		78 - 122			03/08/22 14:58	1
Dibromofluoromethane (Surr)	96		73 - 120			03/08/22 14:58	1

Job ID: 240-163275-1

Client Sample ID: MW-130S_022822 Date Collected: 02/28/22 09:50 Date Received: 03/04/22 08:00

Method: 8260B SIM - Volatile (Organic Co	mpounds (G	C/MS)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared
1,4-Dioxane	2.0	U	2.0	0.86	ug/L		

				= =	•	_		/		
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/09/22 20:07	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	82		66 - 120			-		03/09/22 20:07	1	
Method: 8260B - Volatile Org	anic Compo	unds (GC/	MS)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	ξ
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/08/22 15:22	1	
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/22 15:22	1	
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/22 15:22	1	
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/22 15:22	1	
Trichloroethene	1.0	U *+	1.0	0.44	ug/L			03/08/22 15:22	1	
Vinyl chloride	1.0	U *+	1.0	0.45	ug/L			03/08/22 15:22	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	72		62 - 137			-		03/08/22 15:22	1	
4-Bromofluorobenzene (Surr)	110		56 <u>-</u> 136					03/08/22 15:22	1	
Toluene-d8 (Surr)	84		78 - 122					03/08/22 15:22	1	
Dibromofluoromethane (Surr)	92		73 - 120					03/08/22 15:22	1	

Job ID: 240-163275-1

Matrix: Water

Dil Fac

Lab Sample ID: 240-163275-2

Analyzed

8

Surrogate Summary

81

84

Lab Sample ID

240-163275-1

240-163275-2

240-163304-E-4 MS

LCS 240-519393/5

MB 240-519393/8

Matrix: Water

Lab Sample ID

LCS 240-519570/4

MB 240-519570/5

240-163275-2

240-163304-K-4 MSD

Surrogate Legend

Method: 8260B - Volatile Organic Compounds (GC/MS) **Matrix: Water**

Lab Control Sample

Method Blank

Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits) DCA BFB DBFM TOL **Client Sample ID** (62-137) (56-136) (78-122) (73-120) TRIP BLANK_107 77 111 80 96 MW-130S_022822 72 92 110 84 Matrix Spike 70 113 79 87 Matrix Spike Duplicate 78 81 91 114 Lab Control Sample 71 117 82 92 Method Blank 80 83 92 110 9 DCA = 1,2-Dichloroethane-d4 (Surr) BFB = 4-Bromofluorobenzene (Surr) TOL = Toluene-d8 (Surr) DBFM = Dibromofluoromethane (Surr) Method: 8260B SIM - Volatile Organic Compounds (GC/MS) Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits) DCA (66-120) **Client Sample ID** MW-130S 022822 82

Surrogate Legend

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

Job ID: 240-163275-1

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

Lab Sample ID: MB 240-519393/8

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

Matrix: Water Analysis Batch: 519393

-	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/08/22 12:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/22 12:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/22 12:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/22 12:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/08/22 12:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/08/22 12:57	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		62 - 137		03/08/22 12:57	1
4-Bromofluorobenzene (Surr)	110		56 - 136		03/08/22 12:57	1
Toluene-d8 (Surr)	83		78 - 122		03/08/22 12:57	1
Dibromofluoromethane (Surr)	92		73 - 120		03/08/22 12:57	1

Lab Sample ID: LCS 240-519393/5 Matrix: Water Analysis Batch: 519393

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	24.3		ug/L		121	63 - 134	
cis-1,2-Dichloroethene	20.0	23.4		ug/L		117	77 - 123	
Tetrachloroethene	20.0	19.2		ug/L		96	76 - 123	
trans-1,2-Dichloroethene	20.0	24.8		ug/L		124	75 - 124	
Trichloroethene	20.0	24.9	*+	ug/L		125	70 - 122	
Vinyl chloride	20.0	29.2	*+	ug/L		146	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	71		62 - 137
4-Bromofluorobenzene (Surr)	117		56 - 136
Toluene-d8 (Surr)	82		78 - 122
Dibromofluoromethane (Surr)	92		73 - 120

113

79

Lab Sample ID: 240-163304-E-4 MS **Matrix: Water** Analysis Batch: 519393

4-Bromofluorobenzene (Surr)

Toluene-d8 (Surr)

,, joio	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	1.0	U	20.0	23.3		ug/L		117	56 - 135
cis-1,2-Dichloroethene	0.65	J	20.0	21.9		ug/L		106	66 - 128
Tetrachloroethene	1.0	U	20.0	17.3		ug/L		86	62 - 131
trans-1,2-Dichloroethene	1.0	U	20.0	22.5		ug/L		113	56 - 136
Trichloroethene	1.0	U *+	20.0	21.8		ug/L		109	61 - 124
Vinyl chloride	1.0	U *+	20.0	26.8		ug/L		134	43 - 157
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	70		62 - 137						

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

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

Eurofins Canton

56 - 136

78 - 122

QC Sample Results

10

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

Lab Sample ID: 240-1633 Matrix: Water Analysis Batch: 519393	04-E-4 MS								С	lient Sa	mple ID: M Prep Typ		
	MS	MS											
Surrogate	%Recovery	Qualifie	er Limits										
Dibromofluoromethane (Surr)	87		73 - 120	_									
	04-K-4 MSD							Clien	t Sam	ole ID: N	latrix Spik	e Dup	olicate
Matrix: Water											Prep Typ	be: To	tal/NA
Analysis Batch: 519393													
-	Sample	Sample	Spike		MSD	MSD					%Rec.		RPD
Analyte	Result	Qualifie	r Added	R	esult	Qualif	fier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0	U	20.0		24.2			ug/L		121	56 - 135	4	26
cis-1,2-Dichloroethene	0.65	J	20.0		23.5			ug/L		114	66 - 128	7	14
Tetrachloroethene	1.0	U	20.0		17.5			ug/L		87	62 - 131	1	20
trans-1,2-Dichloroethene	1.0	U	20.0		24.4			ug/L		122	56 - 136	8	15
Trichloroethene	1.0	U *+	20.0		23.1			ug/L		115	61 - 124	6	15
Vinyl chloride	1.0	U *+	20.0		26.6			ug/L		133	43 - 157	1	24
	MSD	MSD											
Surrogate	%Recovery	Qualifie	er Limits										
1,2-Dichloroethane-d4 (Surr)	78		62 - 137	_									
4-Bromofluorobenzene (Surr)	114		56 - 136										
Toluene-d8 (Surr)	81		78 - 122										
Dibromofluoromethane (Surr)	91		73 - 120										
Method: 8260B SIM - \	/olatile Ord	ganic	Compoun	ds (GC	C/MS	;)							
_				- 1		,							
Lab Sample ID: MB 240-5	19570/5								Cli	ent Sam	ple ID: Me		
Matrix: Water											Prep Typ	be: To	tal/NA
Analysis Batch: 519570													
	_	MB ME	-								. .		
Analyte	Re	esult Qu	alifier	RL					D F	Prepared	Analyz		Dil Fac
1,4-Dioxane		2.0 U		2.0	0).86 u	ıg/L				03/09/22	19:19	1

	2.0	0	2.0		0.00 ug/L				00/00/22 10.10	
	MB	МВ								
Surrogate	%Recovery	Qualifier	Limits				P	repared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		66 - 120						03/09/22 19:19	1
Lab Sample ID: LCS 240-5195 Matrix: Water Analysis Batch: 519570	70/4					Clier	nt Sai	mple ID:	: Lab Control S Prep Type: To	
			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane			10.0	10.8		ug/L		108	80 - 122	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	81		66 - 120

Eurofins Canton

QC Association Summary

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

GC/MS VOA

Analysis Batch: 519393

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
240-163275-1	TRIP BLANK_107	Total/NA	Water	8260B	
240-163275-2	MW-130S_022822	Total/NA	Water	8260B	
MB 240-519393/8	Method Blank	Total/NA	Water	8260B	
LCS 240-519393/5	Lab Control Sample	Total/NA	Water	8260B	
240-163304-E-4 MS	Matrix Spike	Total/NA	Water	8260B	
240-163304-K-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 519570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-163275-2	MW-130S_022822	Total/NA	Water	8260B SIM	
MB 240-519570/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-519570/4	Lab Control Sample	Total/NA	Water	8260B SIM	

Matrix: Water

Lab Sample ID: 240-163275-1

Client Sample ID: TRIP BLANK_107 Date Collected: 02/28/22 00:00 Date Received: 03/04/22 08:00

Date Receive	d: 03/04/22 0 Batch	8:00 Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8260B		1	519393	03/08/22 14:58	LEE	TAL CAN	
Client Sam	ple ID: MW	-130S_022822					Lab Sa	ample ID:	240-163275-2
Date Collecte	d: 02/28/22 0	9:50						-	Matrix: Water
Date Receive	d: 03/04/22 0	8:00							

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	519393	03/08/22 15:22	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	519570	03/09/22 20:07	CS	TAL CAN

Laboratory References:

TAL CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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

Laboratory: Eurofins Canton

Authority	Program	Identification Number	Expiration Date	
California	State	2927	02-23-22 *	
Connecticut	State	PH-0590	12-31-21 *	
Florida	NELAP	E87225	06-30-22	
Georgia	State	4062	02-23-22 *	
Illinois	NELAP	200004	07-31-22	
lowa	State	421	06-01-23	
Kansas	NELAP	E-10336	04-30-22	
Kentucky (UST)	State	112225	02-23-22 *	
Kentucky (WW)	State	KY98016	12-31-22	
Minnesota	NELAP	039-999-348	12-31-22	
Minnesota (Petrofund)	State	3506	08-01-23	
New Jersey	NELAP	OH001	11-06-22	
New York	NELAP	10975	03-31-22	
Ohio	State	8303	02-23-23	
Ohio VAP	State	CL0024	02-27-23	
Oregon	NELAP	4062	02-27-23	
Pennsylvania	NELAP	68-00340	08-31-22	
Texas	NELAP	T104704517-21-14	08-31-22	
Virginia	NELAP	11570	09-14-22	
Washington	State	C971	01-12-23	
West Virginia DEP	State	210	12-31-22	

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

A
Ua
manual G 1
personal beautivel
C
Rectanged
5
Bransof

Chain of Custody Record

TestAmerica

E	TestAmerica Laboratory location Brighton	y location Brig		tion Drive Suite 2	10448 Citation Drive Suite 200 / Brighton, MI 48116 / 810-229-2763	48116 / 81	10-229-27	63))) ; ; ; ; ; ; ;	69 4-
Client Contact	Regulatory program	y program	ΜŪ	NPDES	RCRA	ŏ	Other	PC Status de seconseque	and severalized					
Company Name Arcadis	Client Protect Managor, Vrie U	aator: Kris Ilindoo					- [TestA	TestAmerica Laboratories, Inc	
Address 28550 Cabot Drive, Suite 500		nager wris mus	æy	Site Contact: .	Site Contact: Julia McClafferty		<u> </u>	Lab Contact: Mike DelMonico	t: Mike D	elMonic		COC	No	
City/State/Zip: Novi, MI, 48377	Telephone 248-994-2240	4-2240		Telephone 734-644-5131	14-644-5131		<u> -</u>	Telephone 330-497-9396	330-497-	396				_
Phone 248-004-2240	Email kristoffer hinskey@arcadis.com	hinskey@arcadis	com	Analysis 1	Analysis Turnaround Time	h				Analyses	S	For lat	For lab use only	_
	Country Manual			TAT	_				┝					
Project Name [.] Ford LTP Off-Site	/ histor	J	م الم م	1A1 if different from below 3 w	rom below 3 weeks							Walk-	Walk-m clicnt	
Project Number: 30080642.402.04	Method of Shipment/Carrier		~	- 10 day	Veeks 1 week	offic p		Ę			MI	Lab sa	Lab sampling	
PO # 30080642.402.04	Shipping/Tracking No	No			z days 1 day		8			80928	S 8093	Job/SI	Job/SDG No.	
			Matrix	Containers	s & Preservatives		10928				28 ər			
Sample Identification	Sample Date S	Sample Time	Aqueous Sediment Selid Other	HCI HNO3 H5204	Ofher Unpres NaOH ZaAc NaOH	Filtered S Composit	3 30-1 1	Cis-1,2-DC	LCE 8560	old) IyniV	16xoiQ-4 f		Sample Specific Notes / Special Instructions	_
TRIP BLANK_ JUT	TRAT					202	×	××	××	×			1 Trip Blank	
RACTO- 3051- WW	12/35/2	950	ß	2		5	X	X	ע ע	9			3 VOAs for 8260B	
								1	-	e		5	VUAS IOF 02000 SIM	
										-				
							240-16	240-163275 Chain of Custody	hain of	Custo	ly second se			
						-	2	-	_			+		
									-	_				
Possible Hazard Identification ~ Non-Hazard Elammable Skin Irritant	rtant Poison B		l l l l	Sample Dis	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	e assessed	if samples	are retai	ed longe	than 1	nonth)			
omments hCM omalia@	ico com Cadena #E2			Verm		LISposal D	y Lab	S	Archive For		Months			
Relanduisted by Hurre	Company / Arrend I S		Date/Time	0101	Received by Co	old St	Starue		[™]	Company Lo	L.c.	Date/Time	Time 1 1 1 2	
Relinquished by ONAI art	Company AYCOID115	5	Date/Time	1315	Receivedby				<u>. 5</u> .	Company.		Date/Time	21 12	
Reinguisted by	Company. EEETA		Date/Time 3.3 72	1354	Received in Labor	atory by	\Rightarrow	1	2 <u>5</u> 2	Company	TNU			
©2008) TrestAmentca Laboratories. Inc. All rights reserved. ItestAmenta & Uesgn * are trademarks of festAmenta Laboratores, Inc.									ĺ)			6	

Eurofins TestAmerica Canton Sample Receipt Form/Narrative	Login # : 163275
Canton Facility	Cooler unpacked by.
Client Arcadus Site Name	
Cooler Received on $3 - 4 - 22$ Opened on $3 - 4 - 22$	A dam gener
FedEx. 1 st Grd Exp UPS FAS Chipper-Client Drop Off TestAmerica Cour	
Receipt After-hours. Drop-off Date/Time Storage Locati	
	oler Temp _°C oler Temp _°C Yes No Yes No
17 Was a LL Hg or Me Hg trip blank present?	Yes No
Contacted PM Date by via Verb	ai voice Mail Other
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page	ge Samples processed by
19. SAMPLE CONDITION	
Sample(s) were received after the recommended h	holding time had expired.
Sample(s) were rece	eved in a broken container
Sample(s)	nm in diameter (Notify PM)
20. SAMPLE PRESERVATION	
Sample(s)	e further preserved in the laboratory
Sample(s)werewere	-
VOA Sample Preservation - Date/Time VOAs Frozen	

3/18/2022

Login # : _____

Cooler Description (Circle)	IR Gun # (Círcle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
TA Cliers Box Other	(IR-14) IR-15	3-0	2.8	Wet ice Blue ice Dry ic Water None
(TA) Client Box Other	12-14 IR-15	1-8	1-6	Wet ice Blue ice Dry ic Water None
TÀ Cliènt Box Other	(R-1)4 IR-15	2-4	2-2	Wefice Blue Ice Dry Ic Water None
TA Client Box Other	IR-14 IR-15	.		Wet Ice Blue Ice Dry Ic Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ic Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ic Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic Water None
TA Client Box Other	JR-14 JR-15			Wet Ice Blue Ice Dry Ic Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ic Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ic Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ic Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ic Water None
TA Client Box Other	IR-14 IR-15			Wetice Blueice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ic Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15	11/10/2		Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Biue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet ice Blue ice Dry ice Water None
TA Client Box Other	IR-14 IR-15			Wet Ice Blue Ice Dry Ice Water None

٠

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

DATA VERIFICATION REPORT



March 18, 2022

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: 30080642.402.04 WA04 OFF-SITE GW Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - North Central Laboratory submittal: 163275-1 Sample date: 2022-02-28 Report received by CADENA: 2022-03-18 Initial Data Verification completed by CADENA: 2022-03-18 Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

The following minor QC exceptions or missing information were noted:

GCMS VOC QC batch 519393 LCS recoveries were outliers biased high for the following analytes: TRICHLOROETHENE and VINYL CHORIDE. Associated client sample results were non-detect so qualification was not required based on these high bias QC outliers.

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

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

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

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

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - North Central Laboratory Submittal: 163275-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401632 2/28/20	_ 2751	,		MW-130 2401632 2/28/20		22	
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC OSW-826	סר									
0300-8200	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
<u>OSW-826</u>	<u>OBBSim</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 # 240-163275-1 CADENA Verification Report: 2022-03-18

Analyses Performed By: TestAmerica North Canton, Ohio

Report # 45033R Review Level: Tier III Project: 30080642.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-163275-1 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 Collection		Ana	lysis
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM
TRIP BLANK_107	240-163275-1	Water	02/28/2022		Х	
MW-130S_022822	240-163275-2	Water	02/28/2022		Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance ptable	Not
	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		Х	
5. Reporting limits		Х		Х	
6. Sample collection date		Х		Х	
7. Laboratory sample received date		Х		Х	
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 8260B and 8260B SIM. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

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.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - 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 8260B/8260B-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 calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample ID	Initial / Continuing	Compound	Criteria
TRIP BLANK_107 MW-130S 022822	Continuous Calibration Verification %D	Vinyl chloride	+32.3%
WW-1000_022022	Continuous Calibration Vernication %D	1,1-Dichloroethene	+25.5%

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

Initial/Continuing	Criteria	Sample Result	Qualification
		Non-detect	R
	RRF <0.05	Detect	J
Initial and Continuing Calibration	RRF <0.01 ¹	Non-detect	R
Gailbraidh	RRF <0.01	Detect	J
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No Action

Initial/Continuing	Criteria	Sample Result	Qualification
		Detect	
	%RSD > 20% or a correlation coefficient	Non-detect	UJ
Initial Calibration	<0.99	Detect	J
	%RSD > 90%	Non-detect	R
	%RSD > 90%	Detect	J
	0/ D > 200/ (increases in consitiuity)	Non-detect	No Action
	%D >20% (increase in sensitivity)	Detect	J
Continuing Colibration		Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
	0/D > 0.00/ (increase/decrease in consitivity)	Non-detect	R
	%D > 90% (increase/decrease in sensitivity)	Detect	J

Note:

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

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample is 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: 8260B/8260B-SIM	Rep	orted		rmance ptable	Not Required
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		X	
Tier III Validation					1
System performance and column resolution		Х		X	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х	Х		
Instrument tune and performance check		Х		Х	
lon abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		х	
D. Transcription/calculation errors present		Х		Х	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	
Notes:					

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

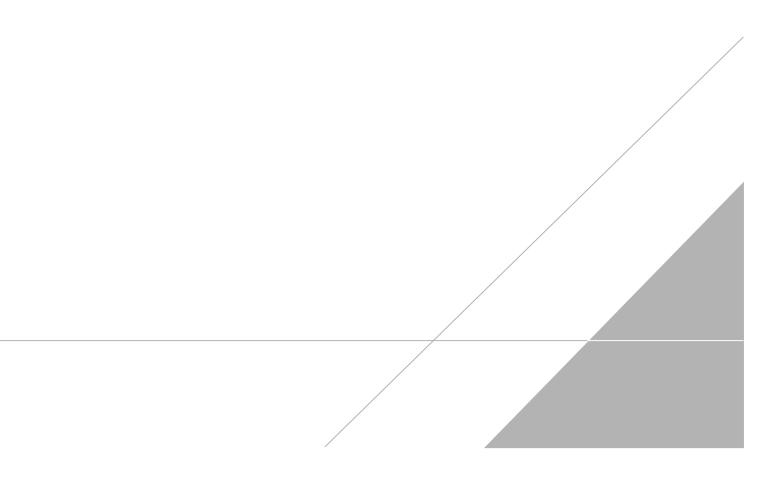
%D Percent difference

VALIDATION PERFORMED BY:	Bhagyashree Fulzele
SIGNATURE:	Brutzele
DATE:	March 29, 2022

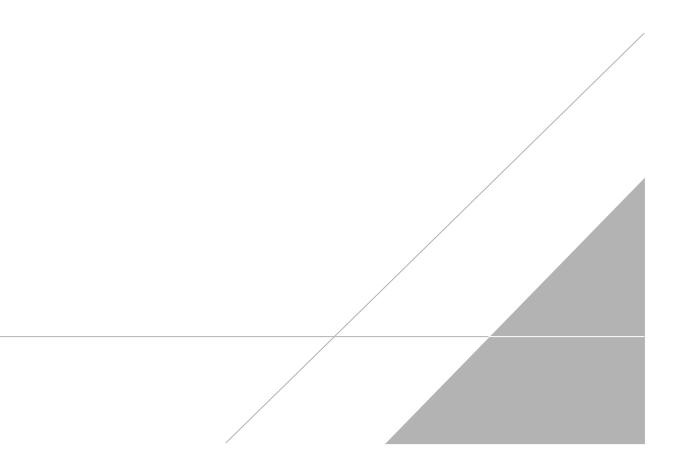
PEER REVIEW: Andrew Korycinski

DATE: March 30, 2022

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 Contact	Regulate	ory program			DW		NPDE	s		RCR	4		Other [*********		~~~~~	an commu			-				-	
Company Name Arcadis	Client Project M	lanager: Kris	Hinske	PV		Site	Conto	st. Ini	ia Ma	Claffa				Б										estAmerica Laboratori	es, Iı
Address 28550 Cabot Drive, Suite 500			THINK									Lab Contact: Mike DelMonico					C	DC No							
City/State/Zip: Novi, MI, 48377	Telephone 248-	994-2240				Tele	Telephone 734-644-5131					Telephone 330-497-9396					F	1							
Phone 248-994-2240	Email kristoffe	Email kristoffer hinskey@arcadis.com				-	Analysis Turnaround Time					Analyses					F	1 of 1 COC or lab use only	S						
Project Name· Ford LTP Off-Site		Sampler Name				TAT	TAT if different from below3 weeks													w	alk-ın client				
Project Number · 30080642.402.04	Method of Shipr	Christian Grando Method of Shipment/Carrier			- 1	0 day		2 we 1 we	eeks													Ŀ	b sampling		
PO # 30080642.402.04	Shipping/Tracki	ng No				-			2 da 1 da			(2) (2)	l'ab=	B	260B			60B	DB SIN				Te	b/SDG No.	
			Louis	М	atrix	-	Contai	iners &	Prese	rvative	5	mple	C/ C	826(OCE 8			de 82	926(10	0/3DG NO.	
Sample Identification	Sample Date	Sample Time		Aqueous Sediment	Solid Other	H2SO4	HN03	NaOH	ZnAc' NaOH	Unpres	La	Filtered Sample (Y / N)	Composite=C / Grab=G 1 1-DCE 8260B	cis-1 2-DCE 8260B	Trans-1 2 DCE 8260B	PCE 8260B	TCE 8260B	Vinyl Chloride 8260B	4-Dioxane 8260B SIM				F	Sample Specific Note Special Instructions	
				<u> </u>		Ξ		T	N SZ	5 0		-		-		1	<u> </u>	1	7	T			╪	-	
107	21/8/22						1	<u> </u>			/	2	ĢΧ	X	X	X	X	X						1 Trip Blank	
TRIP BLANK_ 107 MW - 1305_022822	2/28/22	950		b			5	0			ľ	/ (6 x	: 7	<	×	×	8	×					3 VOAs for 8260B 3 VOAs for 8260B	SIM
														1									+		
										┝──┼		+		+		+		<u> </u>							u
			+					_	+			_											+		
			$\left \right $		<u> </u>				<u> </u>			_	_				 	 	 1 14 14 14	1 1 1 1 1 1 1	, , 		Ļ		
																							T		
									1						3275 (hair)	of C	usto	dy dy						
			╂╌┼		+			+		┝╌┼╴	— 	+	240	-10.	5210	<u></u>					. 1	I	+		
			╉┼		+								+	+		<u> </u>									
Possible Hazard Identification																									
 Non-Hazard Flammable Skin 	Irritant Poisor	n B	Unkn	own		S	ample I Re	Dispos turn to	al (A Cher	fee ma	ay be as: Dis	sessee posal	d if sam l By Lab	ples a		ined lo Archive		han 1		a) onths	·t				
Special Instructions/QC Requirements & Comments Sample Address 54600 fraceM						•											101 9		141	011113					
Submit all results through Cadena at jtomalia@cade _evel IV Reporting requested	naco com Cadena #E	E203631																							
Church Sure	Company.	5.6	I	Date/Ti	me. RIJK	1	(Rec	ceived	by.	old		-1.				Com	oany [.] NH	,				Dr	ite/Time	
Relinquished by ALANK	Company AY (AC	1)		400 Date/Ti	122		616 515	Rec	erved	py A .	1	$\frac{\circ}{2}$	oran	ye			Com	nany:	<u>e is</u>					$\frac{1}{2} \frac{1}{2} \frac{1}$	S
Relimquished by	Company EETA	11)	I	Date/Tr		3	515) Te	<u>H</u> eized	JUL)in Lat	Doratory	bh	$\overline{}$	T		****	Ef	oany EI/I						13 72 13	16
LUHU	EEIA		ļ.	3 <i>-3</i>	72	135	9	43	K	ac	boratory	X	-1	W	Tel	1	E	Ē	Tr	VC				34-22 8($\boldsymbol{\chi}$
32008, TestAmerica Laboratories. hc., Ali rights reserved, lestAmerica & Design * are trademarks of YestAmerica Laboratories, Inc.)				\sim												

3/18/2022



Client Sample ID: TRIP BLANK_107 Date Collected: 02/28/22 00:00 Date Received: 03/04/22 08:00

Date Received. 03/04/22 00.00	0								
Method: 8260B - Volatile Org	ganic Compo	unds (GC/MS	5)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/08/22 14:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/22 14:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/22 14:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/22 14:58	1

Trichloroethene	1.0	U * 	1.0	0.44 ug/L		03/08/22 14:58	1
Vinyl chloride	1.0	U *-	1.0	0.45 ug/L		03/08/22 14:58	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77		62 - 137			03/08/22 14:58	1
4-Bromofluorobenzene (Surr)	111		56 - 136			03/08/22 14:58	1
Toluene-d8 (Surr)	80		78 - 122			03/08/22 14:58	1
Dibromofluoromethane (Surr)	96		73 - 120			03/08/22 14:58	1

Lab Sample ID: 240-163275-1

Matrix: Water

8

13

Client Sample ID: MW-130S_022822 Date Collected: 02/28/22 09:50 Date Received: 03/04/22 08:00

Job ID: 240-163275-1

Lab Sample ID: 240-163275-2 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			03/09/22 20:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		66 - 120			-		03/09/22 20:07	1
Method: 8260B - Volatile O	rganic Compo	unds (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			03/08/22 15:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/22 15:22	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/22 15:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/22 15:22	1
Trichloroethene	1.0	U *-	1.0	0.44	ug/L			03/08/22 15:22	1
Vinyl chloride	1.0	U *+	1.0	0.45	ug/L			03/08/22 15:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	72		62 - 137			-		03/08/22 15:22	1
4-Bromofluorobenzene (Surr)	110		56 <u>-</u> 136					03/08/22 15:22	1
Toluene-d8 (Surr)	84		78 - 122					03/08/22 15:22	1
Dibromofluoromethane (Surr)	92		73 - 120					03/08/22 15:22	1