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Environment Testing America

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ANALYTICAL REPORT

Eurofins TestAmerica, Canton 4101 Shuffel Street NW North Canton, OH 44720 Tel: (330)497-9396

Laboratory Job ID: 240-139464-1

Client Project/Site: Ford LTP - Off Site

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

Attn: Kristoffer Hinskey

Mole Del your

Authorized for release by: 11/18/2020 11:33:55 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.

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Qualifiers

GC/MS VOA	
Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

Glossary

F1	MS and/or MSD recovery exceeds control limits.	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	7
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	8
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	9
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: 240-139464-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP - Off Site

Report Number: 240-139464-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Eurofins TestAmerica, Canton attests to the validity of the laboratory data generated by Eurofins TestAmerica facilities reported herein. All analyses performed by Eurofins TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

RECEIPT

The samples were received on 11/4/2020 9:20 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.9° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TRIP BLANK (240-139464-1) and MW-154S_110220 (240-139464-2) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/12/2020.

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

VOLATILE ORGANIC COMPOUNDS (GCMS SIM)

Sample MW-154S_110220 (240-139464-2) was analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The sample was analyzed on 11/09/2020.

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

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 TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

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

Z40-139464-1 TRIP BLANK Water 11/02/20 00:00 11/04/20 09:20 240-139464-2 MW-154S 110220 Water 11/02/20 09:25 11/04/20 09:20	Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-139464-2 MW-154S 110220 Water 11/02/20 09:25 11/04/20 09:20			Water	11/02/20 00:00	11/04/20 09:20	
	240-139464-2	MW-154S_110220	Water	11/02/20 09:25	11/04/20 09:20	

Detection Sur	nmary
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Client Sample ID: TRIP BLANK

No Detections.

Client Sample ID: MW-154S_110220

No Detections.

Lab Sample ID: 240-139464-1

Lab Sample ID: 240-139464-2

Client Sample ID: TRIP BLANK Date Collected: 11/02/20 00:00 Date Received: 11/04/20 09:20

Lab Sample ID: 240-139464-1

Matrix: Water

5 6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/12/20 12:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/12/20 12:53	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/12/20 12:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/12/20 12:53	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/12/20 12:53	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/12/20 12:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		75 - 130					11/12/20 12:53	1
4-Bromofluorobenzene (Surr)	92		47 - 134					11/12/20 12:53	1
Toluene-d8 (Surr)	86		69 - 122					11/12/20 12:53	1
Dibromofluoromethane (Surr)	99		78 - 129					11/12/20 12:53	1

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: MW-154S_110220 Date Collected: 11/02/20 09:25 Date Received: 11/04/20 09:20

Method: 8260B 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			11/09/20 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 133					11/09/20 19:22	1
Method: 8260B - Volatile Org	anic Compo	unde (GC/	MS)						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
							Flepaleu		
1,1-Dichloroethene	1.0		1.0	0.19	0			11/12/20 13:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/12/20 13:15	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/12/20 13:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/12/20 13:15	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/12/20 13:15	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/12/20 13:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 130					11/12/20 13:15	1
4-Bromofluorobenzene (Surr)	95		47 - 134					11/12/20 13:15	1

69 - 122

78 - 129

88

100

11/12/20 13:15

11/12/20 13:15

Lab Sample ID: 240-139464-2 Matrix: Water

1

1

11/18/2020

Surrogate Summary

Lab Sample ID

240-139464-1

240-139464-2

Matrix: Water

LCS 240-460588/5

MB 240-460588/8

Surrogate Legend

240-139407-B-5 MS

240-139407-B-5 MSD

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

Percent Surrogate Recovery (Acceptance Limits) DCA BFB DBFM TOL (75-130) (78-129) **Client Sample ID** (47-134) (69-122) Matrix Spike 110 104 103 93 Matrix Spike Duplicate 104 105 94 115 TRIP BLANK 92 92 86 99 MW-154S 110220 97 95 88 100 Lab Control Sample 101 103 95 113 Method Blank 102 103 94 106 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)

			Fercent Surrogate Recovery (Acceptance Linits)	
		DCA		
Lab Sample ID	Client Sample ID	(70-133)		
240-139464-2	MW-154S_110220	102		
240-139466-C-5 MS	Matrix Spike	104		
240-139466-C-5 MSD	Matrix Spike Duplicate	106		
LCS 240-459934/4	Lab Control Sample	100		
MB 240-459934/5	Method Blank	99		
0				
Surrogate Legend				

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

Prep Type: Total/NA

Job ID: 240-139464-1

Prep Type: Total/NA

Client Sample ID: Method Blank

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

Lab Sample ID: MB 240-460588/8 **Matrix: Water**

Analysis Batch: 460588

MB	MB							
Analyte Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene 1.0	U	1.0	0.19	ug/L			11/12/20 10:57	1
cis-1,2-Dichloroethene 1.0	U	1.0	0.16	ug/L			11/12/20 10:57	1
Tetrachloroethene 1.0	U	1.0	0.15	ug/L			11/12/20 10:57	1
trans-1,2-Dichloroethene 1.0	U	1.0	0.19	ug/L			11/12/20 10:57	1
Trichloroethene 1.0	U	1.0	0.10	ug/L			11/12/20 10:57	1
Vinyl chloride 1.0	U	1.0	0.20	ug/L			11/12/20 10:57	1

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 130		11/12/20 10:57	1
4-Bromofluorobenzene (Surr)	103		47 - 134		11/12/20 10:57	1
Toluene-d8 (Surr)	94		69 - 122		11/12/20 10:57	1
Dibromofluoromethane (Surr)	106		78 - 129		11/12/20 10:57	1

Lab Sample ID: LCS 240-460588/5 Matrix: Water Analysis Batch: 460588

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	19.5		ug/L		98	73 - 129	
cis-1,2-Dichloroethene	20.0	20.7		ug/L		104	75 - 124	
Tetrachloroethene	20.0	21.1		ug/L		105	70 - 125	
trans-1,2-Dichloroethene	20.0	18.5		ug/L		93	74 - 130	
Trichloroethene	20.0	23.0		ug/L		115	71 - 121	
Vinyl chloride	20.0	18.6		ug/L		93	61 - 134	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		75 - 130
4-Bromofluorobenzene (Surr)	103		47 - 134
Toluene-d8 (Surr)	95		69 - 122
Dibromofluoromethane (Surr)	113		78 - 129

Lab Sample ID: 240-139407-B-5 MS **Matrix: Water** Analysis Batch: 460588

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
cis-1,2-Dichloroethene	25	J	800	826		ug/L		100	68 - 121	
trans-1,2-Dichloroethene	46		800	777		ug/L		91	69 - 126	
Trichloroethene	1100	F1	800	1930		ug/L		104	56 - 124	
Vinyl chloride	40	U	800	669		ug/L		84	49 - 136	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	104		75 - 130							
4-Bromofluorobenzene (Surr)	103		47 - 134							
Toluene-d8 (Surr)	93		69 - 122							
Dibromofluoromethane (Surr)	110		78 - 129							

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

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

10

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

Lab Sample ID: 240-1394 Matrix: Water Analysis Batch: 460588	07-D-3 1413D					Chefft 3	amp	Ie ID. N	Aatrix Spil Prep Ty		
Analyte	•	Sample Qualifier	Spike Added	-	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPC Limi ^s
cis-1,2-Dichloroethene	25	J	800	914		ug/L		111	68 - 121	10	35
trans-1,2-Dichloroethene	46		800	843		ug/L		100	69 - 126	8	35
Trichloroethene	1100	F1	800	2120	F1	ug/L		128	56 - 124	9	3
Vinyl chloride	40	U	800	707		ug/L		88	49 - 136	6	3
	MSD	MSD				-					
Surrogate	%Recovery		Limits								
1,2-Dichloroethane-d4 (Surr)		quanner	75 - 130								
4-Bromofluorobenzene (Surr)	105		47 - 134								
Toluene-d8 (Surr)	94		69 - 122								
Dibromofluoromethane (Surr)	94 115		09 - 122 78 - 129								
	115		10-129								
Lab Sample ID: MB 240-4 Matrix: Water	159934/5						Clie	ent San	nple ID: M Prep Ty		
Analysis Batch: 459934											
	_	MB MB				_	_				
Analyte	Re	esult Quali			MDL Unit	D	P	repared	Analyz		Dil Fa
1,4-Dioxane		2.0 U		2.0	0.86 ug/L				11/09/20	13:39	
		MB MB									
Surrogate	%Reco	<u> </u>					P	repared	Analyz		Dil Fa
1,2-Dichloroethane-d4 (Surr)		99	70 - 13	33					11/09/20	13:39	
Lab Sample ID: LCS 240- Matrix: Water Analysis Batch: 459934	459934/4					Clien	it Sar	nple ID	: Lab Cor Prep Ty		
			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane			10.0	10.9		ug/L		109	80 - 135		
	1.00	LCS				U U					
Surrogate	%Recovery		Limits								
		Quaimer									
1,2-Dichloroethane-d4 (Surr)	100		70 - 133								
Lab Sample ID: 240-1394	66-C-5 MS						CI	ient Sa	mple ID: I		
Matrix: Water									Prep Ty	he: 10	
Analysis Batch: 459934	Commis	Samela	C miles	MO	MS				0/ Doo		
Analysia		Sample	Spike	-	-	11	~	0/ B	%Rec.		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
1,4-Dioxane	44		10.0	54.7	4	ug/L		104	46 - 170		
	MS	MS									
Surrogate	%Recovery		Limits								
1.2 Dichloroethane d4 (Surr)	104		70 122								

1,2-Dichloroethane-d4 (Surr)

LIMITS 70 - 133

104

10

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

Lab Sample ID: 240-13946 Matrix: Water Analysis Batch: 459934	6-C-5 MSD					Client	Samp	le ID: N	latrix Spil Prep Ty		
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	44		10.0	57.9	4	ug/L		136	46 - 170	6	26
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	106		70 - 133								
—											

QC Association Summary

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

GC/MS VOA

Analysis Batch: 459934

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-139464-2	MW-154S_110220	Total/NA	Water	8260B SIM	
MB 240-459934/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-459934/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-139466-C-5 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-139466-C-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
240-139464-1	TRIP BLANK	Total/NA	Water	8260B	
240-139464-2	MW-154S_110220	Total/NA	Water	8260B	
MB 240-460588/8	Method Blank	Total/NA	Water	8260B	
LCS 240-460588/5	Lab Control Sample	Total/NA	Water	8260B	
240-139407-B-5 MS	Matrix Spike	Total/NA	Water	8260B	
240-139407-B-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Matrix: Water

Lab Sample ID: 240-139464-1

Client Sample ID: TRIP BLANK Date Collected: 11/02/20 00:00 Date Received: 11/04/20 09:20

	: 11/02/20 0 : 11/04/20 0								Matrix: Water
	Batch	Batch		Dilution	Batch	Prepared			
	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
	Analysis	8260B		1	460588	11/12/20 12:53	HMB	TAL CAN	
np	le ID: MW	/-154S_110220					Lab Sa	ample ID:	240-139464-2

Client Sample ID: MW-154S_110220 Date Collected: 11/02/20 09:25 Date Received: 11/04/20 09:20

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	460588	11/12/20 13:15	HMB	TAL CAN
Total/NA	Analysis	8260B SIM		1	459934	11/09/20 19:22	SAM	TAL CAN

Laboratory References:

Prep Type Total/NA

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Job ID: 240-139464-1

Laboratory: Eurofins TestAmerica, Canton

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-21
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21
Illinois	NELAP	004498	07-31-21
lowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21
Kentucky (WW)	State	KY98016	12-31-20
Minnesota	NELAP	OH00048	12-31-20
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-24-21
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-21
West Virginia DEP	State	210	12-31-20

Client Contact Company Name: Arcadis	Regulat	ory program	:	1-	DW	1	⊢ N	PDES		r RC	RA	1	Othe	r						1	90	AN		est America	Laboratories, In	
	Client Project N	lanager: Kris	Hinsk	ey	-		Site Co	ontact	: Julia	McCla	fferty	-			Lab Contact: Mike DelMonico									COC No:		
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-2240					Telepl	hone: '	734-64	4-5131	-	-		-	Telep	hone:	330-4	97-939	6							
ity/State/Zip: Novi, MI, 48377	Email: kristoff	r hinskav@a	adie				A	nalvsis	Turna	round	Time	_						A	alys	05	-	_	E) of or lab use only	COCs	
hone: 248-994-2240			cautsa	on		_		200	1					1			1				1	11			and the second s	
roject Name: Ford LTP Off-Site	Sampler Name		+	1				differen	from be	low weeks	L	-											W	alk-in client		
Project Number: 30050315.402.04		hmt l	m	her	500	000	10	day	17 2	2 weeks													L	ab sampling		
Tojeet Number: 30050313.402.04	Method of Ship	ment/Carrier:								l week 2 days		(N)	94		-	08			8	SIM						
O # 30050315.402.04	Shipping/Track	ing No:					1		F I	day		mple (Y / N)	C/Grab		cis-1,2-DCE 8260B	82608			8260B	8260B SIM			Je	ob/SDG No:		
				Ma	atrix		0	ontain	ers & P	reserva	tives			1260	E 82	DCE	0	8	ride	1e 82				-		
				as			7					red Sa	Composite	1,1-DCE 8260B	2-DC	Trans-1,2-DCE	PCE 8260B	TCE 8260B	Vinyl Chloride	4-Dioxane			Г	Sample S	pecific Notes /	
Sample Identification	Sample Date	Sample Time	¥!	Aqueo	Solid	Other	H2SO4	HCI HVO	HORN	Unpres	Other:	Filter	Com	1-D	is-1.	rans	CE	GE	/inyl	1.4-D					Instructions:	
TRIP BLANK	-	-		1	T			1				N	G	X	X	X	X	Х	X	X	1			1 Trip	blank	
MW-1545_110220	11/2/20	925		0	1			1		1		N	C	20	21	V	V	11	V	V				3 Voas F	or 8260B	
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Possible Hazard Identification					-		Sar				may be				les are				han 1							
✓ Non-Hazard □ flammable □ cir pecial Instructions/QC Requirements & Comments:	Irritant Poiso	n B	Unk	lown	_		1	Ret	urn to (lient	~	Dispos	sal By	Lab	-	Ar	chive	For	-	Mo	nths	_				
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11/18/2020

Client Arcadis, Site Name	Cooler uppacked by:
	- MANY
FedEx: 1 st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica C Receipt After-hours: Drop-off Date/Time Storage Lo	
	ther
	Cooler Form Cooler Temp. 7.9°C Cooler Temp. °C Yes No Yes No
17. Was a LL Hg or Me Hg trip blank present?	Yes No
Contacted PM Date by via V	erbal Voice Mail Other
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next	page Samples processed by:
	ed holding time had expired.
	received in a broken container.
Sample(s) were received with bubble >	>6 mm in diameter. (Notify PM)
20. SAMPLE PRESERVATION	
	were further preserved in the laboratory.

DATA VERIFICATION REPORT



November 18, 2020

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: 30050315.0301.01 off site Event Specific Scope of Work References: Sample COC Laboratory: TestAmerica - North Canton Laboratory submittal: 139464-1 Sample date: 2020-11-02 Report received by CADENA: 2020-11-18 Initial Data Verification completed by CADENA: 2020-11-18 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 MS/MSD recovery outliers were not determined using a client sample so qualification was not required based on these sample-specific QC outliers.

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

Reportable Results Only

CADENA Project ID: E203631

Laboratory: TestAmerica - North Canton Laboratory Submittal: 139464-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BL/ 2401394 11/2/20	4641			MW-154 2401394 11/2/20	4642	20	
		0	D It	Report		Valid	D It	Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
<u>OSW-8260</u>	<u>)B</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
<u>OSW-8260</u>	<u>DBBSim</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 # 240-139464-1 CADENA Verification Report: 2020-11-18

Analyses Performed By: TestAmerica North Canton, Ohio

Report #39142R Review Level: Tier III Project: 30050315.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-139464-1 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) includes 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		Analy	/sis
Sample ID	Lab ID	Matrix	Collection Date	Parent Sample	VOC (Full Scan)	VOC (SIM)
TRIP BLANK	240-139464-1	Water	11/02/2020		х	
MW-154S_110220	240-139464-2	Water	11/02/2020		Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

			orted		mance ptable	Not	
	Items Reviewed	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.

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent

sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

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

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260B/8260B-SIM	Re	ported		ormance eptable	Not
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMET	RY (GC/N	IS)			
Tier II Validation					
Holding times/Preservation		Х		Х	
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	X				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		X		Х	
C. RT of sample compounds within the established RT windows		X		X	
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:	Hrishikesh Upadhyaya
SIGNATURE:	Curindialued [
DATE:	November 20, 2020

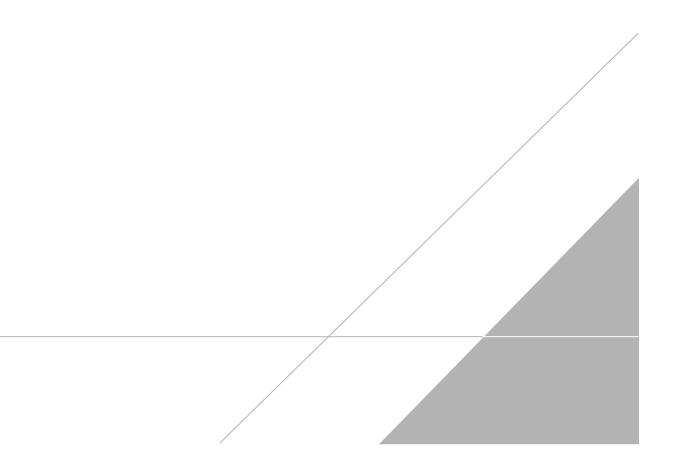
PEER REVIEW: Andrew Korycinski

DATE: November 24, 2020

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record

1000	TestAmerica
MICHIGAN	THE LEADER IN ENVIRONMENTAL TESTING

FestAmerica Laboratory h	ocation: Brighto	n — 10448 Citation	Drive, Suite 200	Brighton, MI 48116	/ 810-229-2763

Client Contact	Regulat	tory program:		T	DW			PDES		- F	RCRA		o	ther		-				1	90	[A]			
Company Name: Arcadis	Client Project !	Manager: Kris	Hinsk	key		-	Site C	ontact	t: Julia	McC	lafferty	/		-	Lab	Contac	t: Mil			_				TestAmerica Laborate COC No:	ories, Inc.
Address: 28550 Cabot Drive, Suite 500													_												
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-2240							734-64						Tele	phone:	330-4	97-939	96) of] CC	OCs
Phone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.	.com			A	nalysis	s Turn	aroun	d Time	_		F	-	-	_	A	nalys	ies		-1	-	For lab use only	
	Sampler Name		-	1.4		-	TAT if	differen	nt from be						1									Walk-in client	
Project Name: Ford LTP Off-Site	EV	nmx l	Ni	The	rspo	on	10	day		3 wee 2 wee														Lab sampling	11.11
Project Number: 30050315.402.04	Method of Ship	ment/Carrier:					19455			1 wee 2 days		3	24			8			~	SIM					1121
PO # 30050315.402.04	Shipping/Track	ding No:								1 day			mple (Y/N)		808	8260B			8260B	8260B (Job/SDG No:	121.73
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							_		Π	T			ed Sa	CE 82	S-DCF	1,2-[260E	260B	Chlori	oxan				Sample Specific No	atos /
Sample Identification	Sample Date	Sample Time	Air	Aqueou	Solid	CIBCL	H2SO4	HCI HCI	NaOH	VaOH NaOH	Unpres Other:		Filtered	1,1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE	PCE 8260B	TCE 8260B	Vinyl Chloride	1,4-Dioxane				Special Instruction	
TRIP BLANK	-	-	Ī	1				1				1	110	TX	X	X	X	X	X	X	1			1 Trip blar	ile
MW-1545_110220	11/2/20	925		0	++	-		1		1				2 V	20	0	X	10	X		-	-	-		
110-13-13_10220	11/2/20	165		6				6	2	-	-	- f	0	чX	X	X	X	Х	X	K	-	-	-	3 boas for 820 Burns for 87	6035
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Possible Hazard Identification							Sau				-			16 care			11								
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Special Instructions/QC Requirements & Comments:																									
Submit all results through Cadena at jtomalia@cad Level IV Reporting requested.	ienaco.com. Cadena #	E203631																							
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Relinquished by:	Company: A	radis			3/20:	20	13	15		eived b	10	1	A	a	it	A	7	Comp	-1	A				Date/Time: 11/3/2013	345
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Client Sample ID: TRIP BLANK

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

Lab Sample ID: 240-139464-1 Matrix: Water

	3								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/12/20 12:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/12/20 12:53	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/12/20 12:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/12/20 12:53	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/12/20 12:53	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/12/20 12:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		75 - 130			-		11/12/20 12:53	1
4-Bromofluorobenzene (Surr)	92		47 - 134					11/12/20 12:53	1
Toluene-d8 (Surr)	86		69 - 122					11/12/20 12:53	1
Dibromofluoromethane (Surr)	99		78 - 129					11/12/20 12:53	1

Client Sample ID: MW-154S_110220 Date Collected: 11/02/20 09:25 Date Received: 11/04/20 09:20

Lab Sample ID: 240-139464-2

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			11/09/20 19:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 133					11/09/20 19:22	1

Analyte	Result	Qualifier	RL	MDL I	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19 ı	ug/L			11/12/20 13:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16 ı	ug/L			11/12/20 13:15	1
Tetrachloroethene	1.0	U	1.0	0.15 ı	ug/L			11/12/20 13:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19 ı	ug/L			11/12/20 13:15	1
Trichloroethene	1.0	U	1.0	0.10 ı	ug/L			11/12/20 13:15	1
Vinyl chloride	1.0	U	1.0	0.20 u	ug/L			11/12/20 13:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 130			_		11/12/20 13:15	1

1,2-Dichloroethane-d4 (Surr)	97	75 - 130	11/12/20 13:15	1
4-Bromofluorobenzene (Surr)	95	47 - 134	11/12/20 13:15	1
Toluene-d8 (Surr)	88	69 - 122	11/12/20 13:15	1
Dibromofluoromethane (Surr)	100	78 - 129	11/12/20 13:15	1