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Environment Testing TestAmerica

ANALYTICAL REPORT

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

Laboratory Job ID: 240-126327-1

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: 2/28/2020 10:30:01 AM

Michael DelMonico, Project Manager I (330)497-9396 michael.delmonico@testamericainc.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	Λ
U	Indicates the analyte was analyzed for but not detected.	
х	Surrogate is outside control limits	5

Glossary

These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis Percent Recovery Contains Free Liguid
Percent Recovery
•
Contains Free Liquid
Contains No Free Liquid
Duplicate Error Ratio (normalized absolute difference)
Dilution Factor
Detection Limit (DoD/DOE)
Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
Decision Level Concentration (Radiochemistry)
Estimated Detection Limit (Dioxin)
Limit of Detection (DoD/DOE)
Limit of Quantitation (DoD/DOE)
Minimum Detectable Activity (Radiochemistry)
Minimum Detectable Concentration (Radiochemistry)
Method Detection Limit
Minimum Level (Dioxin)
Not Calculated
Not Detected at the reporting limit (or MDL or EDL if shown)
Practical Quantitation Limit
Quality Control
Relative Error Ratio (Radiochemistry)
Reporting Limit or Requested Limit (Radiochemistry)
Relative Percent Difference, a measure of the relative difference between two points
Toxicity Equivalent Factor (Dioxin)
Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-126327-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP Off Site

Report Number: 240-126327-1

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 2/14/2020 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 3.6° C, 4.4° C and 4.6° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TRIP BLANK (240-126327-1) and MW-182S_021220 (240-126327-2) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 02/19/2020.

Dibromofluoromethane (Surr) failed the surrogate recovery criteria low for TRIP BLANK (240-126327-1). Refer to the QC report for details.

Surrogate recovery for the following sample was outside of acceptance limits: TRIP BLANK (240-126327-1). There was insufficient sample to perform a re-extraction; therefore, the data have been reported.

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-182S_021220 (240-126327-2) was analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The sample was analyzed on 02/24/2020.

No 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

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

Lab Sample ID Client Sample ID	Matrix	Collected	Received	Asset ID
240-126327-1 TRIP BLANK	Water	02/12/20 00:00	02/14/20 08:50	
240-126327-2 MW-182S_021220	Water	02/12/20 13:25	02/14/20 08:50	

Detection	Summary
------------------	---------

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

Client Sample ID: TRIP BLANK

No Detections.

Client Sample ID: MW-182S_021220

No Detections.

Job ID: 240-126327-1

00010.2401200211

Lab Sample ID: 240-126327-1

Lab Sample ID: 240-126327-2

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK Date Collected: 02/12/20 00:00 Date Received: 02/14/20 08:50

5 6

Lab Sample ID: 240-126327-1 Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/19/20 14:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/19/20 14:23	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/19/20 14:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/19/20 14:23	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/19/20 14:23	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/19/20 14:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		75 - 130			-		02/19/20 14:23	1
4-Bromofluorobenzene (Surr)	60		47 - 134					02/19/20 14:23	1
Toluene-d8 (Surr)	77		69 - 122					02/19/20 14:23	1
Dibromofluoromethane (Surr)	75	X	78 - 129					02/19/20 14:23	• • • • • •

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

Client Sample ID: MW-182S_021220 Date Collected: 02/12/20 13:25 Date Received: 02/14/20 08:50

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

Lab Sample ID: 240-126327-2 Matrix: Water

Job ID: 240-126327-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/24/20 17:39	1	i.
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	103		70 - 133					02/24/20 17:39	1	
Method: 8260B - Volatile Orgar	nic Compo	unds (GC/	MS)							÷
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/19/20 14:45	1	7
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/19/20 14:45	1	
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/19/20 14:45	1	
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/19/20 14:45	1	
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/19/20 14:45	1	
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/19/20 14:45	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	82		75 - 130					02/19/20 14:45	1	
4-Bromofluorobenzene (Surr)	63		47 - 134					02/19/20 14:45	1	
Toluene-d8 (Surr)	81		69 - 122					02/19/20 14:45	1	
Dibromofluoromethane (Surr)	80		78 - 129					02/19/20 14:45	1	

Surrogate Summary

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

			Pe	ercent Surro	ogate Recovery (Ac	ceptance Limits)
		DCA	BFB	TOL	DBFM	
ab Sample ID	Client Sample ID	(75-130)	(47-134)	(69-122)	(78-129)	
0-126327-1	TRIP BLANK	76	60	77	75 X	
40-126327-2	MW-182S_021220	82	63	81	80	
0-126339-E-4 MSD	Matrix Spike Duplicate	72 X	76	83	77 X	
40-126339-F-4 MS	Matrix Spike	72 X	76	83	81	
CS 240-423393/4	Lab Control Sample	75	80	87	79	
IB 240-423393/7	Method Blank	81	67	80	80	
Surrogate Legend						
DCA = 1,2-Dichloroeth						
BFB = 4-Bromofluorob	penzene (Surr)					
TOL = Toluene-d8 (Su	ırr)					
DBFM = Dibromofluor	omethane (Surr)					
athod: 8260B S	IM - Volatile Organic	Compoun	de (GC/	MS)		
atrix: Water	ini - Volutile Organie	oompoun		110)		Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)	
		DCA		
Lab Sample ID	Client Sample ID	(70-133)		
240-126327-2	MW-182S_021220	103		
240-126349-G-5 MS	Matrix Spike	103		
240-126349-G-5 MSD	Matrix Spike Duplicate	105		
LCS 240-423939/4	Lab Control Sample	101		
MB 240-423939/5	Method Blank	102		
Surrogate Legend				

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

Job ID: 240-126327-1

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

Lab Sample ID: MB 240-423393/7 Matrix: Water

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

Matrix: Water Analysis Batch: 423393

	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			02/19/20 13:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/19/20 13:17	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/19/20 13:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/19/20 13:17	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/19/20 13:17	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/19/20 13:17	1
	MB	MR							

I		IVIB	INIB				
	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1,2-Dichloroethane-d4 (Surr)	81		75 - 130		02/19/20 13:17	1
	4-Bromofluorobenzene (Surr)	67		47 - 134		02/19/20 13:17	1
	Toluene-d8 (Surr)	80		69 - 122		02/19/20 13:17	1
l	Dibromofluoromethane (Surr)	80		78 - 129		02/19/20 13:17	1

Lab Sample ID: LCS 240-423393/4 Matrix: Water Analysis Batch: 423393

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	10.0	9.59		ug/L		96	73 - 129	
cis-1,2-Dichloroethene	10.0	9.33		ug/L		93	75 - 124	
Tetrachloroethene	10.0	11.3		ug/L		113	70 - 125	
trans-1,2-Dichloroethene	10.0	9.21		ug/L		92	74 - 130	
Trichloroethene	10.0	9.51		ug/L		95	71 ₋ 121	
Vinyl chloride	10.0	6.48		ug/L		65	61 ₋ 134	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	75		75 - 130
4-Bromofluorobenzene (Surr)	80		47 - 134
Toluene-d8 (Surr)	87		69 - 122
Dibromofluoromethane (Surr)	79		78 - 129

Lab Sample ID: 240-126339-E-4 MSD Matrix: Water Analysis Batch: 423393

Analysis Batch. 423353		Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	•	Qualifier	Added	-	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0	U	10.0	8.45		ug/L		85	64 - 132	7	35
cis-1,2-Dichloroethene	1.0	U	10.0	8.70		ug/L		87	68 - 121	1	35
Tetrachloroethene	1.0	U	10.0	9.65		ug/L		97	52 - 129	1	35
trans-1,2-Dichloroethene	1.0	U	10.0	8.48		ug/L		85	69 - 126	1	35
Trichloroethene	1.0	U	10.0	8.39		ug/L		84	56 - 124	2	35
Vinyl chloride	0.32	J	10.0	6.51		ug/L		62	49 - 136	12	35
		MSD									
Surrogate	%Recoverv	Qualifier	Limits								

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	72	X	75 - 130
4-Bromofluorobenzene (Surr)	76		47 - 134
Toluene-d8 (Surr)	83		69 - 122

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

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

10

13

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

Lab Sample ID: 240-1263 Matrix: Water Analysis Batch: 423393	39-E-4 MSD							Clier	it Sa	mpl	e ID: N	Aatrix Spike Du Prep Type: T	
	MSD	MSL	ס										
Surrogate	%Recovery	Qua	lifier	Limits									
Dibromofluoromethane (Surr)	77	X		78 - 129									
_ Lab Sample ID: 240-1263	39-F-4 MS									Cli	ent Sa	mple ID: Matri	x Spike
Matrix: Water												· Prep Type: T	
Analysis Batch: 423393													
-	Sample	Sam	nple	Spike	MS	MS						%Rec.	
Analyte	Result	Qua	lifier	Added	Result	t Qua	lifier	Unit		D	%Rec	Limits	
1,1-Dichloroethene	1.0	U		10.0	9.09)		ug/L			91	64 - 132	_
cis-1,2-Dichloroethene	1.0	U		10.0	8.76	6		ug/L			88	68 - 121	
Tetrachloroethene	1.0	U		10.0	9.57	,		ug/L			96	52 - 129	
trans-1,2-Dichloroethene	1.0	U		10.0	8.57			ug/L			86	69 - 126	
Trichloroethene	1.0	U		10.0	8.19)		ug/L			82	56 - 124	
Vinyl chloride	0.32	J		10.0	7.34	ļ		ug/L			70	49 - 136	
	MS	мs											
Surrogate	%Recovery	Qua	lifier	Limits									
1,2-Dichloroethane-d4 (Surr)	72	X		75 - 130									
4-Bromofluorobenzene (Surr)	76			47 - 134									
Toluene-d8 (Surr)	83			69 - 122									
Dibromofluoromethane (Surr)	81			78 - 129									
Method: 8260B SIM - \	/olatile Or	gan	ic Con	npound	s (GC/M	S)							
Lab Sample ID: MB 240-4 Matrix: Water	23939/5								(Clie	nt Sam	nple ID: Metho Prep Type: T	
Analysis Batch: 423939													
		ΜВ	МВ										
Analyte	Re	sult	Qualifier		RL	MDL	Unit		D	Pr	epared	Analyzed	Dil Fac
1,4-Dioxane		2.0	U		2.0	0.86	ug/L					02/24/20 11:11	1
		MВ	МВ										
Surrogate	%Poco	vorv	Qualifier	Limi	te					р,	boreno	Analyzod	Dil Fac

Matrix: Water											Prep Type: T	otal/NA
Analysis Batch: 423939												
-		MB ME	3									
Analyte	Re	sult Qı	ualifier	RL	-	MDL	Unit	D) P	repared	Analyzed	Dil Fac
1,4-Dioxane		2.0 U		2.0	0	0.86	ug/L				02/24/20 11:11	1
		МВ МІ	В									
Surrogate	%Recov	very Qu	ualifier	Limits					F	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)		102		70 - 133	-						02/24/20 11:11	1
Lab Sample ID: LCS 240-4	423939/4							Clier	nt Sa	mple ID	: Lab Control	Sample
Matrix: Water											Prep Type: T	otal/NA
Analysis Batch: 423939												
-				Spike	LCS	LCS	5				%Rec.	
Analyte				Added	Result	Qua	lifier	Unit	D	%Rec	Limits	
1,4-Dioxane				10.0	9.41			ug/L		94	80 - 135	
	LCS	LCS										
Surrogate	%Recovery	Qualifie	er	Limits								
1,2-Dichloroethane-d4 (Surr)	101			70 - 133								
_ Lab Sample ID: 240-12634	49-G-5 MS								С	lient Sa	mple ID: Matri	x Spike
Matrix: Water											Prep Type: T	
Analysis Batch: 423939												
•	Sample	Sample)	Spike	MS	MS					%Rec.	
Analyte	Result	Qualifie	ər	Added	Result	Qua	lifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0											

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

	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	103		70 - 133									5
Lab Sample ID: 240-1263 Matrix: Water Analysis Batch: 423939	49-G-5 MSD					Client	Samp	ole ID: N	Aatrix Spil Prep Ty			6
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
1,4-Dioxane	2.0	U	10.0	10.2		ug/L		102	46 - 170	2	26	8
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									9
1,2-Dichloroethane-d4 (Surr)	105		70 - 133									
												10

GC/MS VOA

LCS 240-423939/4

240-126349-G-5 MS

240-126349-G-5 MSD

Lab Control Sample

Matrix Spike Duplicate

Matrix Spike

Analysis Batch: 423393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-126327-1	TRIP BLANK	Total/NA	Water	8260B	
240-126327-2	MW-182S_021220	Total/NA	Water	8260B	
MB 240-423393/7	Method Blank	Total/NA	Water	8260B	
LCS 240-423393/4	Lab Control Sample	Total/NA	Water	8260B	
240-126339-E-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
240-126339-F-4 MS	Matrix Spike	Total/NA	Water	8260B	
Analysis Batch: 423	939				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-126327-2	MW-182S_021220	Total/NA	Water	8260B SIM	
MB 240-423939/5	Method Blank	Total/NA	Water	8260B SIM	

Total/NA

Total/NA

Total/NA

Water

Water

Water

8260B SIM

8260B SIM

8260B SIM

Matrix: Water

Lab Sample ID: 240-126327-1

TAL CAN

Client Sample ID: TRIP BLANK Date Collected: 02/12/20 00:00 Date Received: 02/14/20 08:50

Analysis

8260B SIM

Date Received	d: 02/14/20 0	8:50							
	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8260B		1	423393	02/19/20 14:23	LEE	TAL CAN	
Client Sam	ple ID: MW	-182S_021220					Lab Sa	mple ID:	240-126327-2
Date Collecte	d: 02/12/20 1	3:25							Matrix: Water
Date Received	d: 02/14/20 0	8:50							
Γ	Batch	Batch		Dilution	Batch	Prepared			
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab	
Total/NA	Analysis	8260B		1	423393	02/19/20 14:45	LEE	TAL CAN	

1

423939 02/24/20 17:39 SAM

Laboratory References:

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: 240-126327-1

Laboratory: Eurofins TestAmerica, Canton

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	02-23-20 *	
Connecticut	State	PH-0590	12-31-19 *	
Florida	NELAP	E87225	06-30-20	
Georgia	State	4062	02-23-20 *	
Illinois	NELAP	004498	07-31-20	
lowa	State	421	06-01-21	
Kansas	NELAP	E-10336	04-30-20	
Kentucky (WW)	State	KY98016	12-31-20	
Minnesota	NELAP	OH00048	12-31-20	
Minnesota (Petrofund)	State	3506	08-01-21	
New Jersey	NELAP	OH001	06-30-20	
New York	NELAP	10975	03-31-20	
Ohio VAP	State	CL0024	06-05-21	
Oregon	NELAP	4062	02-23-20 *	
Pennsylvania	NELAP	68-00340	08-31-20	
Texas	NELAP	T104704517-18-10	08-31-20	
USDA	US Federal Programs	P330-16-00404	12-28-19 *	
Virginia	NELAP	010101	09-14-20	
Washington	State	C971	01-12-21	
West Virginia DEP	State	210	12-31-20	

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

	- uompira	200 / Brighton, Mi 46110	8	Weill I I I I I I I I I I I I I I I I I I
Commany Name: Arradis	Kegulatory program: DW	NPDES RCRA Other		TestAmerica Laboratoria. Iao
	Client Project Manager: Kris Hinskey	Site Contact: Julia McClafferty LL	Lab Contact: Mike DelMonico	COC No:
Address: 28550 Cabot Drive, Suite 500	Telephone: 248-994-2240	Telephone: 734-644-5131	Telephone: 330-497-9396	
City/State/Zip: Novi, MJ. 48377	Email: treictoffer hineteev@aroadis.com	Time	Analyses	For lab use only
Phone: 248-994-2240		TAT Is for the second before		Walk-in client
Project Name: Ford LTP Off-Site	SULAN SULANS	10 day 3 2 weeks		Lab sampling
Project Namber; 30042006,0402.02	Method of Shipmeau/Carrier:	- 1 week	8	
PO# 30042006.0402.02	Shipping/Tracking No:		e 8260	Job/SDG No:
Sample Identification	Sample Dute Sample Time	11,1-DGE 020 Composite Filtered Sam Na.OH HC1 HNO3 HNO3 HNO3 HNO3 HNO3 HNO3 HNO3 HNO3	cis-1,2-DCE Trans-1,2-DCE PCE 82608 Vinyl Chlorid 7,4-Dioxane	Sampic Speelde Neter / Special Instructionur
TRIP BLANK				1-TEP BLACK
22100 2281-1114	DA 6. 1375 V	NJ 11 2 1	XXXXXX	3.458 8.4
	Data Transmission 240.	126327 Chain of Custody 126327 Chain of Custo	ALE Company: Company: Active For Months Active For Months Active AL	
Mally Marken			5/12	
		12 13 14	7 8 9 10 11	2 3 4 5 6

Page 17 of 19

2/28/2020

urofins TestAmerica Canton Sample Receipt Form/Narrative Canton Facility	
ient Arcadis Site Name	Cooler unpacked by:
poler Received on $2 - 14 - 20$ Opened on $2 - 14 - 20$	11/1/1
edEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier	Other
eceipt After-hours: Drop-off Date/Time Storage Location_	
COOLANT: Wet the Blue Ice Dry Ice Water None Cooler temperature upon receipt IR GUN# IR-10 (CF +0.7 °C) Observed Cooler Temp. C Corrected Cooler IR GUN #IR-11 (CF +0.9 °C) Observed Cooler Temp. °C Corrected Cooler Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Yes -Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised? Shippers' packing slip attached to the cooler(s)? Did custody papers relinquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC? Did all bottle sarrive in good condition (Unbroken)? Could all bottle labels be reconciled with the COC? Were correct bottle(s) used for the test(s) indicated?	Temp. °C r Tests that are not checked for pH by Receiving: r VOAs Oil and Grease TOC
Are these work share samples? Ye If yes, Questions 12-16 have been checked at the originating laboratory. Ye Were all preserved sample(s) at the correct pH upon receipt? Ye	es No (NA) pH Strip Lot# <u>HC995364</u>
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WI-NC-099

Q

Login # : 17632-

Cooler Description	IR Gun # (Circle)	Canton Sample Rece Observed Temp °C	Corrected Temp °C	Coolant (Circle)
(Circle)		2.9	3.6	Wette Blue Ice Dry Ic
TA Client Box Other	JR-10 IR-11		con the second s	Water None Wet Ice Blue Ice Dry Ic
D Client Box Other	HR-TO IR-11	3.7	4.4	Water None
TA Client Box Other	IR-10 IR-11	3.9	4.6	Wet Ice Blue Ice Dry Ic Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ic Water None
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TA Client Box Other	IR-10 IR-11			Water None
TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ic Water None
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TA Client Box Other	IR-10 IR-11			Wet Ice Blue Ice Dry Ic Water None

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

DATA VERIFICATION REPORT



February 28, 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: 30042006.0402.02 off site Event Specific Scope of Work References: Sample COC Laboratory: TestAmerica - North Canton Laboratory submittal: 126327-1 Sample date: 2020-02-12 Report received by CADENA: 2020-02-28 Initial Data Verification completed by CADENA: 2020-02-28 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:

SUR - GCM VOC sample -001 surrogate recoveries were outliers biased low but greater than 10% for at least 1 out of 4 surrogates. These client sample results should be considered to be estimated and qualified with UJ flags if non-detect.

GCMS VOC QC batch MS/MSD surrogate 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.

SAMPLING AND ANALYSIS SUMMARY

CADENA Project ID: E203631 Laboratory: TestAmerica-North Canton Laboratory Submittal: 126327-1

		Collection Date	Collection Time	Volatile Organics	8260B with Single	
Lab Sample ID	Sample ID	(mm/yy/dd)	(hh:mm:ss)	by GCMS	Ion Monitoring	Comment
2401263271	TRIP BLANK	2/12/2020	12:00:00	х		
2401263272	MW-182S_021220	2/12/2020	1:25:00	x	х	

Qualified Results Summary

CADENA Project ID: E203631 Laboratory: TestAmerica - North Canton Laboratory Submittal: 126327-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401263 2/12/20	8271		
		Sumple Bate.	2,12,20	Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier
GC/MS VOC OSW-8260)B					
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	UJ
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	UJ
	Tetrachloroethene	127-18-4	ND	1.0	ug/l	UJ
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	UJ
	Trichloroethene	79-01-6	ND	1.0	ug/l	UJ
	Vinyl chloride	75-01-4	ND	1.0	ug/l	UJ

Analytical Results Summary

Reportable Results Only

CADENA Project ID: E203631

Laboratory: TestAmerica - North Canton Laboratory Submittal: 126327-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401263 2/12/20	3271			MW-182 2401263 2/12/20		20	
		a b		Report		Valid	- I.	Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
<u>OSW-826</u>	<u>DB</u>									
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	UJ	ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	UJ	ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l	UJ	ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	UJ	ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l	UJ	ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l	UJ	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 # 240-126327-1 CADENA Verification Report: 2020-02-28

Analyses Performed By: TestAmerica Edison, New Jersey

Report #36107R Review Level: Tier III Project: 30042006.0402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-126327-1 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:

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	VOC (Full Scan)	Analysis VOC (SIM)	MISC
	TRIP BLANK	240-126327-1	Water	2/12/2020		Х		
240-126327-1	MW-182S_021220	240-126327-2	Water	2/12/2020		Х	Х	

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

		Reported		Performance d Acceptable		Not
	Items Reviewed	No	Yes	No	Yes	Required
1. 5	Sample receipt condition		Х		Х	
2. F	Requested analyses and sample results		Х		Х	
3. N	Master tracking list		Х		Х	
4. N	Methods of analysis		Х		Х	
5. F	Reporting limits		Х		Х	
6. 5	Sample collection date		Х		Х	
7. L	_aboratory sample received date		Х		Х	
8. 5	Sample preservation verification (as applicable)		Х		Х	
9. 8	Sample preparation/extraction/analysis dates		Х		Х	
10. F	Fully executed Chain-of-Custody (COC) form		Х		Х	
	Narrative summary of Quality Assurance or sample problems provided		х		Х	
12. E	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.

arcadis.com

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.

DATA REVIEW

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 was not performed on a sample within 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	Reported		ormance eptable	Not
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMET	RY (GC/I	MS)			
Tier II Validation					
Holding times/Preservation		X		X	
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		Х	
Continuing calibration RRFs		X		Х	
Continuing calibration %Ds		X		Х	
Instrument tune and performance check		X		Х	
Ion abundance criteria for each instrument used		X		Х	
Field Duplicate RPD		X		Х	
Internal standard		X		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		Х	
B. Quantitation Reports		X		Х	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		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: Andrew Korycinski

SIGNATURE:

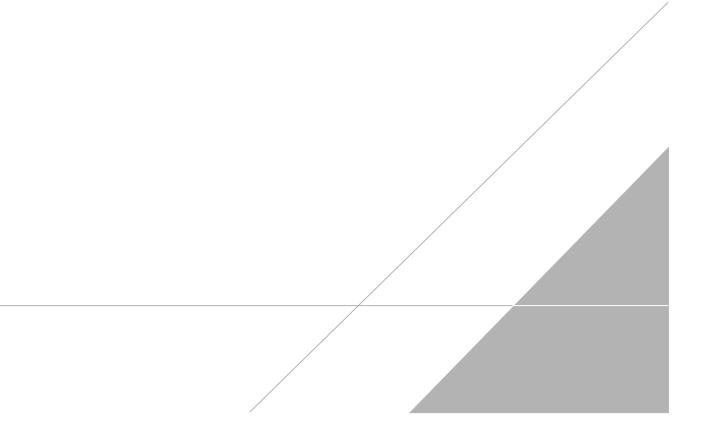
a Kapt

DATE: March 10, 2020

PEER REVIEW: Joseph C. Houser

DATE: March 12, 2020

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



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Commany Name: Arradis	Kegulatory program: DW	NPDES RCRA Other		TestAmerica Laboratorias, Iao
	Client Project Manager: Kris Hinskey	Site Contact: Julia McClafferty L	Lab Contact: Mike DelMonico	COC No:
Address: 28550 Cabot Drive, Suite 500	Telephone: 248-994-2240	Telephone: 734-644-5131	Telephone: 330-497-9396	
City/State/Zip: Novî, MI, 48377	Email: krittaffar hinekav@avvadie.com	Tune	Analyses	For lab use only
Phone: 248-994-2240		TAT is included and the second s		Walk-in client
Project Name: Ford LTP Off-Site	VS/HPC.S	101 Rullicrum tom below 3 weeks 10 day 7 2 weeks		Lab sampling
Project Number: 30042006,0402.02	Method of Shipment/Curvier:	- 1 week	8	
PO# 30042006.0402.02	Shipping/Tracking No:		e 8260	Job/SDG No:
Sample Identification	Sample Date Sample Time Alt	1,1-DGE 020 Composite Rittered Sam NaOH HOC Inpres NaOH HOC Inpres NaOH HOC Intered Sam NaOH HOC Intered Sam NaOH HOC Intered Sam NaOH HOC Interes NaOH HIC Interes NAOH HIC Interes NAOH Interes NAOH HIC Interes NAOH HIC Interes NAOH HIC Interes NAOH IN NAOH IN NAOH IN NAOH IN N	cis-1,2-DCE Trans-1,2-DCE PCE 8260B TCE 8260B 7,4-Dioxane	Sampic Speelfte Neter / Special Instructionur
TRIP BLANK				1-TEP BLANK
2210 2081-1100	7 212 1 275	NJ 1 2	XXXXX	3.45 8.4.4
Possible Hazard Identification Possible Hazard Identification	240- 21/1/1 21/1/2	126327 Chain of Custody 126327 Chain of Custo	Les ar retained longer (han 1 month) Archive For Months Archive For Months Archive For Months Archive For Months Archive For Months Archive For Months	Date Time: 242/20 ISC 242/20 ISC 242/20 ISC 2412/20 IST 2412/20 IST 2412/20 IST
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		12 13 14	7 8 9 10	2 3 4 5 6

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2/28/2020

Client Sample Results

Client Sample ID: TRIP BLANK Date Collected: 02/12/20 00:00 Date Received: 02/14/20 08:50

Lab Sample ID: 240-126327-1

Matrix: Water

5

8 9

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 J	1.0	0.19	ug/L			02/19/20 14:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/19/20 14:23	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/19/20 14:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/19/20 14:23	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/19/20 14:23	1
Vinyl chloride	1.0	υ 🗸	1.0	0.20	ug/L			02/19/20 14:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		75 - 130					02/19/20 14:23	1
4-Bromofluorobenzene (Surr)	60		47 - 134					02/19/20 14:23	1
Toluene-d8 (Surr)	77		69 - 122					02/19/20 14:23	1
Dibromofluoromethane (Surr)	75	X	78 - 129					02/19/20 14:23	1

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

Client Sample ID: MW-182S_021220 Date Collected: 02/12/20 13:25 Date Received: 02/14/20 08:50

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

Lab Sample ID: 240-126327-2 Matrix: Water

Job ID: 240-126327-1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/24/20 17:39	1	ŝ
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	103		70 - 133					02/24/20 17:39	1	
Method: 8260B - Volatile Org	ganic Compo	unds (GC/	MS)							
Analyte	· · ·	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/19/20 14:45	1	7
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/19/20 14:45	1	
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/19/20 14:45	1	
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/19/20 14:45	1	
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/19/20 14:45	1	
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/19/20 14:45	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	82		75 - 130					02/19/20 14:45	1	
4-Bromofluorobenzene (Surr)	63		47 - 134					02/19/20 14:45	1	
Toluene-d8 (Surr)	81		69 - 122					02/19/20 14:45	1	
Dibromofluoromethane (Surr)	80		78 - 129					02/19/20 14:45	1	Ī