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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: 240-119214-1

Client Project/Site: Ford LTP Livonia MI - E203631

For:

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

Attn: Kristoffer Hinskey

Mole Del your

Authorized for release by: 10/4/2019 2:18:35 PM

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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3

Qualifiers

GC/MS VOA Qualifier	Qualifier Description	4
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
U	Indicates the analyte was analyzed for but not detected.	5

Glossary

Giussaiy	
Abbreviation	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
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Job ID: 240-119214-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Case Narrative

Client: ARCADIS U.S., Inc.

Project: Ford LTP Livonia MI - E203631

Report Number: 240-119214-1

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 9/20/2019 8:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.9° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples MW-149S_091819 (240-119214-1) and TRIP BLANK (240-119214-2) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 09/30/2019.

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

VOLATILE ORGANIC COMPOUNDS (GCMS SIM)

Sample MW-149S_091819 (240-119214-1) was analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The sample was analyzed on 09/26/2019.

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 Livonia MI - E203631

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 Livonia MI - E203631

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-119214-1	MW-149S_091819	Water	09/18/19 13:03	09/20/19 08:25	
240-119214-2	TRIP BLANK	Water	09/18/19 00:00	09/20/19 08:25	

Detection Summary

		Detect	ion Sun	nmary	/			
Client: ARCADIS U.S., Inc. Project/Site: Ford LTP Livo				-	,		Job ID:	240-119214-1
Client Sample ID: MW	/-149S_091819	Lab Sample ID: 240-119214						
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type
1,4-Dioxane	0.96	J	2.0	0.86	ug/L	1	8260B SIM	Total/NA
Vinyl chloride	1.9		1.0	0.20	ug/L	1	8260B	Total/NA
Client Sample ID: TR	IP BLANK					Lab Sar	nple ID: 24	0-119214-2
No Detections.								
								7
								8
								4
								1

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP Livonia MI - E203631

Client Sample ID: MW-149S_091819 Date Collected: 09/18/19 13:03 Date Received: 09/20/19 08:25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.96	J	2.0	0.86	ug/L			09/26/19 21:36	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	71		63 - 125					09/26/19 21:36	
Method: 8260B - Volatile O	rganic Compo	unds (GC/	MS)						
Analyte	-	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/19 13:42	
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/30/19 13:42	
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/30/19 13:42	
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/19 13:42	
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/30/19 13:42	
Vinyl chloride	1.9		1.0	0.20	ug/L			09/30/19 13:42	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)			70 - 121					09/30/19 13:42	
4-Bromofluorobenzene (Surr)	93		59 - 120					09/30/19 13:42	
Toluene-d8 (Surr)	95		70 - 123					09/30/19 13:42	
Dibromofluoromethane (Surr)	86		75 - 128					09/30/19 13:42	

Job ID: 240-119214-1

Lab Sample ID: 240-119214-1

Matrix: Water

Client Sample Results

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP Livonia MI - E203631

Client Sample ID: TRIP BLANK Date Collected: 09/18/19 00:00 Date Received: 09/20/19 08:25

Trichloroethene

Date Received: 09/20/19 08:2	.5								
Method: 8260B - Volatile Or	ganic Compo	unds (GC/M	S)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U –	1.0	0.19	ug/L			09/30/19 14:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/30/19 14:04	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/30/19 14:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/19 14:04	1

0.10 ug/L

1.0

Vinyl chloride	1.0 U	1.0	0.20 ug/L		09/30/19 14:04
Surrogate	%Recovery Qu	ualifier Limits		Prepared	Analyzed
1,2-Dichloroethane-d4 (Surr)	116	70 - 121			09/30/19 14:04
4-Bromofluorobenzene (Surr)	99	59 - 120			09/30/19 14:04
Toluene-d8 (Surr)	100	70 - 123			09/30/19 14:04
Dibromofluoromethane (Surr)	86	75 - 128			09/30/19 14:04

1.0 U

Lab Sample ID: 240-119214-2 **Matrix: Water**

09/30/19 14:04

Job ID: 240-119214-1

8

13

1

1

1

1

1

1

Dil Fac

Surrogate Summary

Matrix: Water

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

Prep Type: Total/NA

9

			Pe	ercent Surre	ogate Recovery (Ad	cceptance Limits)
		DCA	BFB	TOL	DBFM	
Lab Sample ID	Client Sample ID	(70-121)	(59-120)	(70-123)	(75-128)	
240-119214-1	MW-149S_091819	116	93	95	86	
240-119214-2	TRIP BLANK	116	99	100	86	
320-54525-D-6 MS	Matrix Spike	121	104	106	93	
320-54525-F-6 MSD	Matrix Spike Duplicate	113	100	101	92	
LCS 240-403151/4	Lab Control Sample	118	102	102	91	
MB 240-403151/6	Method Blank	118	101	104	88	
Surrogate Legend						
DCA = 1,2-Dichloroet	hane-d4 (Surr)					
BFB = 4-Bromofluorol	penzene (Surr)					
TOL = Toluene-d8 (Su	urr)					
DBFM = Dibromofluor	omethane (Surr)					
Aethod: 8260B S	IM - Volatile Organic	Compoun	ds (GC/	MS)		
latrix: Water	•			,		Prep Type: Total
			Pe	ercent Surre	ogate Recovery (Ad	cceptance Limits)

		DCA
Lab Sample ID	Client Sample ID	(63-125)
240-119202-D-1 MS	Matrix Spike	73
240-119202-D-1 MSD	Matrix Spike Duplicate	72
240-119214-1	MW-149S_091819	71
CS 240-402640/4	Lab Control Sample	72
/IB 240-402640/5	Method Blank	72

Surrogate Legend

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

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

Lab Sample ID: MB 240-403151/6 **Matrix: Water**

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

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analysis Batch: 403151

	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			09/30/19 10:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/30/19 10:21	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/30/19 10:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/19 10:21	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/30/19 10:21	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			09/30/19 10:21	1
	MR	MR							

		D			
Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118	70 - 121		09/30/19 10:21	1
4-Bromofluorobenzene (Surr)	101	59 - 120		09/30/19 10:21	1
Toluene-d8 (Surr)	104	70 - 123		09/30/19 10:21	1
Dibromofluoromethane (Surr)	88	75 - 128		09/30/19 10:21	1

Lab Sample ID: LCS 240-403151/4 Matrix: Water Analysis Batch: 403151

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	10.0	9.46		ug/L		95	65 - 139	
cis-1,2-Dichloroethene	10.0	9.76		ug/L		98	76 - 128	
Tetrachloroethene	10.0	8.73		ug/L		87	74 - 130	
trans-1,2-Dichloroethene	10.0	9.60		ug/L		96	78 - 133	
Trichloroethene	10.0	8.59		ug/L		86	76 - 125	
Vinyl chloride	10.0	7.85		ug/L		79	58 - 143	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	118		70 - 121
4-Bromofluorobenzene (Surr)	102		59 - 120
Toluene-d8 (Surr)	102		70 - 123
Dibromofluoromethane (Surr)	91		75 - 128

104

106

Lab Sample ID: 320-54525-D-6 MS **Matrix: Water** Analysis Batch: 403151

4-Bromofluorobenzene (Surr)

Toluene-d8 (Surr)

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	1.0	U	10.0	8.49		ug/L		85	53 - 140
cis-1,2-Dichloroethene	1.0	U	10.0	9.43		ug/L		94	64 - 130
Tetrachloroethene	1.0	U	10.0	8.59		ug/L		86	51 - 136
trans-1,2-Dichloroethene	1.0	U	10.0	8.99		ug/L		90	68 - 133
Trichloroethene	1.0	U	10.0	8.59		ug/L		86	55 - 131
Vinyl chloride	1.0	U	10.0	8.48		ug/L		85	43 - 154
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	121		70 - 121						

59 - 120

70 - 123

Eurofins	TestAmerica,	Canton
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Client Sample ID: Matrix Spike

Prep Type: Total/NA

QC Sample Results

Lab Sample ID: 320-54525-D-6 MS

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

Matrix: Water Prep Type: Total/NA Analysis Batch: 403151 MS MS Limits Surrogate %Recovery Qualifier Dibromofluoromethane (Surr) 75 - 128 93 Lab Sample ID: 320-54525-F-6 MSD **Client Sample ID: Matrix Spike Duplicate** Matrix: Water Prep Type: Total/NA Analysis Batch: 403151 RPD Sample Sample Spike MSD MSD %Rec. **Result Qualifier** Added **Result Qualifier** Unit %Rec Limits RPD Limit Analyte D 1.0 U 10.0 9.15 35 1,1-Dichloroethene ug/L 92 53 - 140 8 cis-1,2-Dichloroethene 1.0 U 8.95 89 64 - 130 10.0 ug/L 5 21 1.0 U Tetrachloroethene 10.0 8.46 ug/L 85 51 - 136 2 23 trans-1,2-Dichloroethene 1.0 U 10.0 8.89 89 68 - 133 24 ug/L 1 ug/L 55 - 131 Trichloroethene 1.0 U 10.0 7.87 79 9 23 Vinyl chloride 1.0 U 10.0 7.17 ug/L 72 43 - 154 17 29 MSD MSD Limits Surrogate %Recovery Qualifier 113 70 - 121 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) 100 59 - 120 101 Toluene-d8 (Surr) 70 - 123 92 Dibromofluoromethane (Surr) 75 - 128 Method: 8260B SIM - Volatile Organic Compounds (GC/MS) Lab Sample ID: MB 240-402640/5 **Client Sample ID: Method Blank Matrix: Water** Prep Type: Total/NA Analysis Batch: 402640 MB MB Analyte **Result Qualifier** RI MDL Unit п Prepared Analyzed Dil Fac 2.0 1,4-Dioxane 2.0 U 0.86 ug/L 09/26/19 12:48 MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 63 - 125 09/26/19 12:48 1,2-Dichloroethane-d4 (Surr) 72 1 Lab Sample ID: LCS 240-402640/4 **Client Sample ID: Lab Control Sample** Matrix: Water Prep Type: Total/NA Analysis Batch: 402640 LCS LCS Spike %Rec. Analvte Added **Result Qualifier** Unit D %Rec Limits 1,4-Dioxane 10.0 11.5 ug/L 115 59 - 131 LCS LCS Surrogate %Recovery Qualifier Limits 63 - 125 1,2-Dichloroethane-d4 (Surr) 72 **Client Sample ID: Matrix Spike** Lab Sample ID: 240-119202-D-1 MS Prep Type: Total/NA Matrix: Water Analysis Batch: 402640 Sample Sample Spike MS MS %Rec. Analyte **Result Qualifier** Added **Result Qualifier** Unit D %Rec Limits 2.0 U 1,4-Dioxane 10.0 12.3 ug/L 123 52 - 129

Eurofins TestAmerica, Canton

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Job ID: 240-119214-1

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

	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	73		63 - 125									
- Lab Sample ID: 240-1192	02-D-1 MSD					Client	Samp	le ID: N	latrix Spil	ke Dup	licate	
Matrix: Water									Prep Ty	pe: Tot	al/NA	
Analysis Batch: 402640												
-	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	12.7		ug/L		127	52 - 129	3	13	
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	72		63 - 125									-

Eurofins TestAmerica, Canton

QC Association Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP Livonia MI - E203631

GC/MS VOA

Analysis Batch: 402640

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-119214-1	MW-149S_091819	Total/NA	Water	8260B SIM	
MB 240-402640/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-402640/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-119202-D-1 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-119202-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Analysis Batch: 403151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
240-119214-1	MW-149S_091819	Total/NA	Water	8260B		
240-119214-2	TRIP BLANK	Total/NA	Water	8260B		
MB 240-403151/6	Method Blank	Total/NA	Water	8260B		
LCS 240-403151/4	Lab Control Sample	Total/NA	Water	8260B		
320-54525-D-6 MS	Matrix Spike	Total/NA	Water	8260B		
320-54525-F-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B		4

Job ID: 240-119214-1

Job ID: 240-119214-1

Matrix: Water

Matrix: Water

Lab Sample ID: 240-119214-1

Lab Sample ID: 240-119214-2

Client Sample ID: MW-149S_091819 Date Collected: 09/18/19 13:03 Date Received: 09/20/19 08:25

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	403151	09/30/19 13:42	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	402640	09/26/19 21:36	SAM	TAL CAN

Client Sample ID: TRIP BLANK Date Collected: 09/18/19 00:00 Date Received: 09/20/19 08:25

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	403151	09/30/19 14:04	LEE	TAL CAN

Laboratory References:

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 Livonia MI - E203631

Job ID: 240-119214-1

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
Georgia	State Program	N/A	02-23-20
Illinois	NELAP	004498	07-31-20
Iowa	State	421	06-01-20
Kansas	NELAP	E-10336	04-30-20
Kentucky (UST)	State	112225	02-23-20
Kentucky (WW)	State	KY98016	12-31-19
Minnesota	NELAP	OH00048	12-31-19
Minnesota (Petrofund)	State Program	3506	07-31-21
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	01-12-20
West Virginia DEP	State	210	12-31-19

DIHC 1900	a Laboratory location: Brighton	Chain of Custody Record 10448 Citation Drive, Suite 200 / Brighton, MI 48115 / 810-229-2753	29-2763	
Client Contact	Regulatory program:	□ NPDES □ RCRA □ Other		
Company Name: Arcadis	Client Protect Manager: Kris Hinskev	Site Contact: Rachel Bielak	Lab Contact: Mike DelMonico	TestAmerica Laboratories, Inc. COC No:
Address: 28550 Cabot Drive, Suite 500	Telenhane: 248-004-2240	Teleahone: 248-946-6331	Telenhone, 330-497-0306	
City/State/Zip: Novi, MI, 48377	freedor and the state of the second se	Analysis [urascound] [me	Ånalves	of COCs
Phone: 248-994-2240	L.mail: kr1stoliter.ninskey@arcadis.com	NEED FRANKLER IN STREET		For lab use only
Project Name: Ford LTP		IAT if different from below 3 weeks 40 Any 7 2 weeks		Walk-in client
Project Number: M1001454.0004.0002B	Method of Shipment/Carrier:	T 1 week X	5	Southings and
PO#M1001454.0004.0002B	Shipping/Tracking No:	ole (Y /	E 82608	Job/SDG Nor
	Attraction of the second of th	Composite Continues & Continue	1-DCE 8260 5-1,2-DCE 8 7603-1,2-DCE 8 7603-1,2-DCE 8 7603-1,2-DCE 8 7603-1,2-DCE 8 74-Dioxane 8	Sample Specific Notes / Specifi Instructions:
MW-1495_041819	(303 × 2 3 3		X L X L X L	6 1000
trip blank	*	×	X X X X X X X X X X X X X X X X X X X	1 100
	240-119214 Chain of Custody	of Custody		
Possible Hazard Identification	tant 🔽 Poison B 🗌 Jnknown	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	imples are retained longer than 1 month) ab	
ments & Comment dena at jim.tomal				
Relinquished by: Jour Q.Q. Relinquished by: Relinquished	Company: A.M.A. Date Time: Company: Company: Date Time: 3-1 Company: Date Time: 3-1 APCHOIS 9-15-19	1700 Received by: January 2022 Received by: January 1015 Received in Laboratory by:	USBUGL Company: MTCUDIS (USBUGL Company: MTCUDIS ETT	Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime Datafrime
公历				

Eurofins TestAmerica Canton Sample Receipt Form/Narrative	Login # :	11 9214
Canton Facility	Cooler unpa	acked by:
lient Arcalis Site Name	DO	5
poler Received on <u>9/20/19</u> Opened on <u>9/20/19</u>		
edEx: 1 st Gra Exp UPS FAS Clipper Client Drop Off TestAmerica Courier	Other	
eceipt After-hours: Drop-off Date/Time Storage Location		
estAmerica Cooler # The point Box Client Cooler Box Other Packing material used: Buble Wrap Foam Pastic Pag None Other COOLANT: Wet Ico 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 Ye -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Ye -Were tamper/custody seals intact and uncompromised? Ye Shippers' packing slip attached to the cooler(s)? Ye Did custody papers accompany the sample(s)? Ye Was/were the person(s) who collected the samples clearly identified on the COC? Ye Did all bottle labels be reconciled with the COC? Ye Were correct bottle(s) used for the test(s) indicated? Ye 0. Sufficient quantity received to perform indicated analyses? Ye 1. Are these work share samples? Ye 1. Are these work share sample(s) at the correct pH upon receipt? Ye	Temp. Temp. Temp. No No No No No No No No No No	C C Tests that are not checked for pH by Receiving: VOAs Oil and Grease TOC Strip Lot# <u>HC991818</u>
oncerning		
	Samples	processed by:
7. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES		-
8. SAMPLE CONDITION ample(s)	ding time had ext	nired
imple(s)	ed in a broken cor	ntainer.
mple(s)		
9. SAMPLE PRESERVATION		
were fi	urther preserved i	n the laboratory
ample(s) were find ime preserved: Preservative(s) added/Lot number(s):	urtifici preserved i	n die laboratory.
OA Sample Preservation - Date/Time VOAs Frozen:		

Q

DATA VERIFICATION REPORT



October 06, 2019

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: MI001454.0003 30016344 - VI sampling Event Specific Scope of Work References: Sample COC Laboratory: TestAmerica - North Canton Laboratory submittal: 119214-1 Sample date: 2019-09-18 Report received by CADENA: 2019-10-04 Initial Data Verification completed by CADENA: 2019-10-06 Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

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

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

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

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 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: 119214-1

		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
2401192141	MW-149S_091819	9/18/2019	1:03:00	х	х	
2401192142	TRIP BLANK	9/18/2019	12:00:00	х		

Analytical Results Summary

Reportable Results Only

CADENA Project ID: E203631

Laboratory: TestAmerica - North Canton Laboratory Submittal: 119214-1

		Sample Name: Lab Sample ID: Sample Date:	MW-149 2401192 9/18/20	_ 2141	19		TRIP BLA 2401192 9/18/20	2142		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC OSW-826	ΩD									
0310-820	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	1.9	1.0	ug/l		ND	1.0	ug/l	
<u>OSW-826</u>	<u>OBBSim</u>									
	1,4-Dioxane	123-91-1	0.96	2.0	ug/l	J				



Ford Motor Company – Livonia Transmission Project

DATA REVIEW

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG #240-119214-1 CADENA Verification Report: 2019-10-06

Analyses Performed By: TestAmerica Canton, Ohio

Report #34450R Review Level: Tier III Project: 30016346.00002

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-119214-1 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
	MW-149S_091819	240-119214-1	Water	9/18/2019		х	х	
240-119214-1	TRIP BLANK	240-119214-2	Water	9/18/2019		Х		

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

		Reported		Performance 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 insure 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. Compound Identification

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

DATA REVIEW

All identified compounds met the specified criteria.

6. 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	Performance Acceptable		Not Required
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMET	'RY (GC/I	VIS)			
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation			!		1
System performance and column resolution		X		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		X		Х	
Instrument tune and performance check		Х		Х	
Ion abundance criteria for each instrument used		X		Х	
Internal standard		X		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		Х	
B. Quantitation Reports		Х		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:

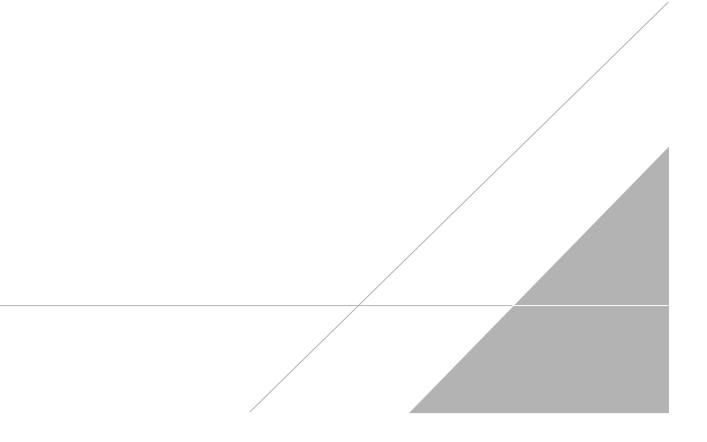
akor

DATE: October 16, 2019

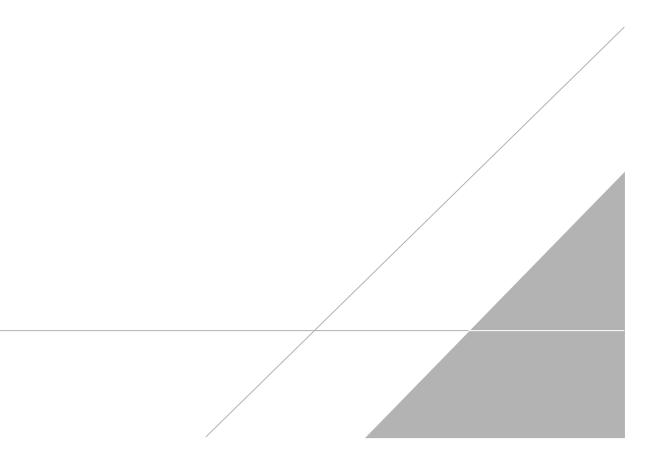
PEER REVIEW: Joseph C. Houser

DATE: October 16, 2019

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



DIHC 1900	a Laboratory location: Brighton	Chain of Custody Record 10448 Citation Drive, Suite 200 / Brighton, MI 48115 / 810-229-2753	29-2763	
Client Contact	Regulatory program:	□ NPDES □ RCRA □ Other		
Company Name: Arcadis	Client Protect Manager: Kris Hinskev	Site Contact: Rachel Bielak	Lab Contact: Mike DelMonico	TestAmerica Laboratories, Inc. COC No:
Address: 28550 Cabot Drive, Suite 500	Telenhane: 248-004-2240	Teleahone: 248-946-6331	Telenhone, 330-497-0306	
City/State/Zip: Novi, MI, 48377	freedor and the state of the second se	Analysis [urascound] [me	Ånalves	of COCs
Phone: 248-994-2240	L.mail: kr1stoliter.ninskey@arcadis.com	NEED FRANKLER IN STOLE FRANKLE		For lab use only
Project Name: Ford LTP		IAT if different from below 3 weeks 40 Any 7 2 weeks		Walk-in client
Project Number: M1001454.0004.0002B	Method of Shipment/Carrier:	T 1 week X	5	Southings and
PO#M1001454.0004.0002B	Shipping/Tracking No:	ole (Y /	E 82608	Job/SDG Nor
	Attraction of the second of th	Composite Continues & Continue	1-DCE 8260 5-1,2-DCE 8 7603-1,2-DCE 8 7603-1,2-DCE 8 7603-1,2-DCE 8 7603-1,2-DCE 8 74-Dioxane 8	Sample Specific Notes / Specifi Instructions:
MW-1495_041819	(303 × 2 3 3		X L X L X L	6 1000
trip blank	*	×	X X X X X X X X X X X X X X X X X X X	1 100
	240-119214 Chain of Custody	of Custody		
Possible Hazard Identification	tant 🔽 Poison B 🗌 Jnknown	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	imples are retained longer than 1 month) ab	
ments & Comment dena at jim.tomal				
Relinquished by: Jour Q.Q. Relinquished by: Relinquished	Company: A.M.A. Date Trime: Company: Company: Date Trime: Bate Trime: APCHONS Date Trime: APCHONS 9-15-18	1700 Received by: January 2022 Received by: January 1015 Received in Laboratory by:	USBUGL Company: MTCUDIS (USBUGL Company: MTCUDIS ETT	Datafrime Delay Time Datafrime Datafrime Datafrime G-18-18 1615 A [20]19 828
公历				

Client Sample Results

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP Livonia MI - E203631

Client Sample ID: MW-149S_091819 Date Collected: 09/18/19 13:03 Date Received: 09/20/19 08:25

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.96	J	2.0	0.86	ug/L			09/26/19 21:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	71		63 - 125					09/26/19 21:36	1
Method: 8260B - Volatile O	rganic 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			09/30/19 13:42	
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/30/19 13:42	
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/30/19 13:42	
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/19 13:42	
Trichloroethene	1.0	U	1.0	0.10	ug/L			09/30/19 13:42	
Vinyl chloride	1.9		1.0	0.20	ug/L			09/30/19 13:42	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)			70 - 121					09/30/19 13:42	
4-Bromofluorobenzene (Surr)	93		59 - 120					09/30/19 13:42	
Toluene-d8 (Surr)	95		70 - 123					09/30/19 13:42	
Dibromofluoromethane (Surr)	86		75 - 128					09/30/19 13:42	

10/4/2019

Lab Sample ID: 240-119214-1 Matrix: Water

10 11 12

Client Sample Results

1.0 U

1.0 U

%Recovery Qualifier

116

99

100

86

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP Livonia MI - E203631

Client Sample ID: TRIP BLANK Date Collected: 09/18/19 00:00 Date Received: 09/20/19 08:25

Trichloroethene

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Vinyl chloride

Surrogate

Date Received: 09/20/19 08:2	5								
Method: 8260B - Volatile Or	ganic Compo	unds (GC/MS	5)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil F
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/19 14:04	
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			09/30/19 14:04	
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			09/30/19 14:04	
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			09/30/19 14:04	

0.10 ug/L

0.20 ug/L

1.0

1.0

Limits

70 - 121

59 - 120

70 - 123

75 - 128

Job ID: 240-119214-1	I
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Matrix: Water

Fac

1

1

1

1

1

1

1

1

1

1

Dil Fac

Lab Sample ID: 240-119214-2

09/30/19 14:04

09/30/19 14:04

Analyzed

09/30/19 14:04

09/30/19 14:04

09/30/19 14:04

09/30/19 14:04

Prepared

8

Eurofins TestAmerica, Canton