

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
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North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-126695-1
Client Project/Site: Ford LTP On Site

For:
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Attn: Kristoffer Hinskey



Authorized for release by:
3/6/2020 2:05:08 PM

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



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Definitions/Glossary

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

Job ID: 240-126695-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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.
▫	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)

Case Narrative

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

Job ID: 240-126695-1

Job ID: 240-126695-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP On Site

Report Number: 240-126695-1

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 2/22/2020 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.5° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TRIP BLANK (240-126695-1) and MW-218S_022020 (240-126695-2) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 02/26/2020 and 02/27/2020.

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-218S_022020 (240-126695-2) was analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 02/28/2020.

No 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 On Site

Job ID: 240-126695-1

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

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Sample Summary

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

Job ID: 240-126695-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-126695-1	TRIP BLANK	Water	02/20/20 00:00	02/22/20 09:40	
240-126695-2	MW-218S_022020	Water	02/20/20 13:17	02/22/20 09:40	

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Detection Summary

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

Job ID: 240-126695-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-126695-1

No Detections.

Client Sample ID: MW-218S_022020

Lab Sample ID: 240-126695-2

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Client Sample Results

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

Job ID: 240-126695-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-126695-1

Date Collected: 02/20/20 00:00

Matrix: Water

Date Received: 02/22/20 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/26/20 20:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/26/20 20:14	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/26/20 20:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/26/20 20:14	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/26/20 20:14	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/26/20 20:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		75 - 130		02/26/20 20:14	1
4-Bromofluorobenzene (Surr)	62		47 - 134		02/26/20 20:14	1
Toluene-d8 (Surr)	85		69 - 122		02/26/20 20:14	1
Dibromofluoromethane (Surr)	96		78 - 129		02/26/20 20:14	1

Client Sample Results

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

Job ID: 240-126695-1

Client Sample ID: MW-218S_022020

Lab Sample ID: 240-126695-2

Date Collected: 02/20/20 13:17

Matrix: Water

Date Received: 02/22/20 09:40

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	-		02/28/20 20:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 133		02/28/20 20:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L	-		02/27/20 11:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L	-		02/27/20 11:41	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L	-		02/27/20 11:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L	-		02/27/20 11:41	1
Trichloroethene	1.0	U	1.0	0.10	ug/L	-		02/27/20 11:41	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L	-		02/27/20 11:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		75 - 130		02/27/20 11:41	1
4-Bromofluorobenzene (Surr)	66		47 - 134		02/27/20 11:41	1
Toluene-d8 (Surr)	86		69 - 122		02/27/20 11:41	1
Dibromofluoromethane (Surr)	89		78 - 129		02/27/20 11:41	1

Surrogate Summary

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

Job ID: 240-126695-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (75-130)	BFB (47-134)	TOL (69-122)	DBFM (78-129)
240-126571-F-4 MSD	Matrix Spike Duplicate	79	81	89	89
240-126571-H-4 MS	Matrix Spike	78	78	88	88
240-126695-1	TRIP BLANK	91	62	85	96
240-126695-2	MW-218S_022020	85	66	86	89
LCS 240-424351/4	Lab Control Sample	77	80	91	89
LCS 240-424516/4	Lab Control Sample	79	80	89	88
LCSD 240-424516/36	Lab Control Sample Dup	80	78	92	90
MB 240-424351/7	Method Blank	90	70	88	95
MB 240-424516/7	Method Blank	93	67	89	96

Surrogate Legend

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)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA
		(70-133)
240-126552-O-2 MS	Matrix Spike	92
240-126552-O-2 MSD	Matrix Spike Duplicate	93
240-126695-2	MW-218S_022020	93
LCS 240-424746/4	Lab Control Sample	90
MB 240-424746/5	Method Blank	91

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-126695-1

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

Lab Sample ID: MB 240-424351/7
Matrix: Water
Analysis Batch: 424351

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/26/20 12:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/26/20 12:59	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/26/20 12:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/26/20 12:59	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/26/20 12:59	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/26/20 12:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		75 - 130		02/26/20 12:59	1
4-Bromofluorobenzene (Surr)	70		47 - 134		02/26/20 12:59	1
Toluene-d8 (Surr)	88		69 - 122		02/26/20 12:59	1
Dibromofluoromethane (Surr)	95		78 - 129		02/26/20 12:59	1

Lab Sample ID: LCS 240-424351/4
Matrix: Water
Analysis Batch: 424351

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	9.69		ug/L		97	73 - 129
cis-1,2-Dichloroethene	10.0	10.2		ug/L		102	75 - 124
Tetrachloroethene	10.0	12.0		ug/L		120	70 - 125
trans-1,2-Dichloroethene	10.0	10.3		ug/L		103	74 - 130
Trichloroethene	10.0	10.1		ug/L		101	71 - 121
Vinyl chloride	10.0	8.21		ug/L		82	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	77		75 - 130
4-Bromofluorobenzene (Surr)	80		47 - 134
Toluene-d8 (Surr)	91		69 - 122
Dibromofluoromethane (Surr)	89		78 - 129

Lab Sample ID: 240-126571-F-4 MSD
Matrix: Water
Analysis Batch: 424351

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,2-Dichloroethene	1.0	U	10.0	9.03		ug/L		90	68 - 121	2	35
Tetrachloroethene	1.0	U	10.0	10.6		ug/L		106	52 - 129	9	35
trans-1,2-Dichloroethene	1.0	U	10.0	9.24		ug/L		92	69 - 126	3	35
Trichloroethene	1.0	U	10.0	8.63		ug/L		86	56 - 124	1	35
Vinyl chloride	1.0	U	10.0	8.41		ug/L		84	49 - 136	19	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	79		75 - 130
4-Bromofluorobenzene (Surr)	81		47 - 134
Toluene-d8 (Surr)	89		69 - 122
Dibromofluoromethane (Surr)	89		78 - 129

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QC Sample Results

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

Job ID: 240-126695-1

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

Lab Sample ID: 240-126571-H-4 MS

Matrix: Water

Analysis Batch: 424351

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec.
	Result	Qualifier	Added	Result	Qualifier				
cis-1,2-Dichloroethene	1.0	U	10.0	8.82		ug/L		88	68 - 121
Tetrachloroethene	1.0	U	10.0	9.66		ug/L		97	52 - 129
trans-1,2-Dichloroethene	1.0	U	10.0	8.97		ug/L		90	69 - 126
Trichloroethene	1.0	U	10.0	8.58		ug/L		86	56 - 124
Vinyl chloride	1.0	U	10.0	6.92		ug/L		69	49 - 136

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	78		75 - 130
4-Bromofluorobenzene (Surr)	78		47 - 134
Toluene-d8 (Surr)	88		69 - 122
Dibromofluoromethane (Surr)	88		78 - 129

Lab Sample ID: MB 240-424516/7

Matrix: Water

Analysis Batch: 424516

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/27/20 11:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/27/20 11:19	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/27/20 11:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/27/20 11:19	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/27/20 11:19	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/27/20 11:19	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	93		75 - 130		02/27/20 11:19	1
4-Bromofluorobenzene (Surr)	67		47 - 134		02/27/20 11:19	1
Toluene-d8 (Surr)	89		69 - 122		02/27/20 11:19	1
Dibromofluoromethane (Surr)	96		78 - 129		02/27/20 11:19	1

Lab Sample ID: LCS 240-424516/4

Matrix: Water

Analysis Batch: 424516

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
		Result	Qualifier				
1,1-Dichloroethene	10.0	9.30		ug/L		93	73 - 129
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	75 - 124
Tetrachloroethene	10.0	12.0		ug/L		120	70 - 125
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	74 - 130
Trichloroethene	10.0	10.0		ug/L		100	71 - 121
Vinyl chloride	10.0	8.16		ug/L		82	61 - 134

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	79		75 - 130
4-Bromofluorobenzene (Surr)	80		47 - 134
Toluene-d8 (Surr)	89		69 - 122
Dibromofluoromethane (Surr)	88		78 - 129

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QC Sample Results

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

Job ID: 240-126695-1

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

Lab Sample ID: LCSD 240-424516/36
Matrix: Water
Analysis Batch: 424516

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	10.0	8.50		ug/L		85	73 - 129	9	35
cis-1,2-Dichloroethene	10.0	9.98		ug/L		100	75 - 124	4	35
Tetrachloroethene	10.0	11.7		ug/L		117	70 - 125	3	35
trans-1,2-Dichloroethene	10.0	9.87		ug/L		99	74 - 130	6	35
Trichloroethene	10.0	9.82		ug/L		98	71 - 121	2	35
Vinyl chloride	10.0	7.51		ug/L		75	61 - 134	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	LCSD Limits
1,2-Dichloroethane-d4 (Surr)	80		75 - 130
4-Bromofluorobenzene (Surr)	78		47 - 134
Toluene-d8 (Surr)	92		69 - 122
Dibromofluoromethane (Surr)	90		78 - 129

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

Lab Sample ID: MB 240-424746/5
Matrix: Water
Analysis Batch: 424746

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/28/20 12:24	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 133		02/28/20 12:24	1

Lab Sample ID: LCS 240-424746/4
Matrix: Water
Analysis Batch: 424746

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	10.0	10.2		ug/L		102	80 - 135

Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits
1,2-Dichloroethane-d4 (Surr)	90		70 - 133

Lab Sample ID: 240-126552-O-2 MS
Matrix: Water
Analysis Batch: 424746

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.0	U	10.0	9.86		ug/L		99	46 - 170

Surrogate	MS %Recovery	MS Qualifier	MS Limits
1,2-Dichloroethane-d4 (Surr)	92		70 - 133

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-126695-1

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

Lab Sample ID: 240-126552-O-2 MSD

Matrix: Water

Analysis Batch: 424746

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	2.0	U	10.0	9.91		ug/L		99	46 - 170	0	26
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	93		70 - 133								

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QC Association Summary

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

Job ID: 240-126695-1

GC/MS VOA

Analysis Batch: 424351

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-126695-1	TRIP BLANK	Total/NA	Water	8260B	
MB 240-424351/7	Method Blank	Total/NA	Water	8260B	
LCS 240-424351/4	Lab Control Sample	Total/NA	Water	8260B	
240-126571-F-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
240-126571-H-4 MS	Matrix Spike	Total/NA	Water	8260B	

Analysis Batch: 424516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-126695-2	MW-218S_022020	Total/NA	Water	8260B	
MB 240-424516/7	Method Blank	Total/NA	Water	8260B	
LCS 240-424516/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 240-424516/36	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 424746

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-126695-2	MW-218S_022020	Total/NA	Water	8260B SIM	
MB 240-424746/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-424746/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-126552-O-2 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-126552-O-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Lab Chronicle

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

Job ID: 240-126695-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-126695-1

Date Collected: 02/20/20 00:00

Matrix: Water

Date Received: 02/22/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	424351	02/26/20 20:14	LEE	TAL CAN

Client Sample ID: MW-218S_022020

Lab Sample ID: 240-126695-2

Date Collected: 02/20/20 13:17

Matrix: Water

Date Received: 02/22/20 09:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	424516	02/27/20 11:41	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	424746	02/28/20 20:13	SAM	TAL CAN

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 240-126695-1

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
N/A	N/A	None on record.	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Regulatory Program: DW NPDES RCRA Other:

Client Contact
 ARCADIS of Michigan
 28550 Cabot Drive Suite 500
 Novi, Michigan 48377
 (248)-994-2240 Phone
 (248)-994-2241 FAX
 Project Name: Ford LTP On-Site
 Site: Ford LTP
 P O # 30042006.0401.02

Client Project Manager: Kris Hinsky
 Tel/Fax: 248-994-2240

Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
 TAT if different from Below : 3 Day
 2 weeks
 1 week
 2 days
 1 day

Site Contact: Julia McClafferty
Lab Contact: Mike DellMonico
 Date: 2/20/20
 Sampler Name: H. V. [Signature]
 COC No: [Blank] of [Blank] COCs

Sample Identification
 MW-2185-022020
 TRIP BLANK

Sample Type (C-Comp, G-Grab)
 G
 W

Sample Date
 2/20/20

Sample Time
 1317

Matrix
 W

of Cont.
 1

Filtered Sample (Y/N)
 Y

Perform MS/MSD (Y/N)
 Y

Vinyl Chloride 8260B
 X X X X X X

TCE 8260B
 X X X X X X

cis-1,2-DCE 8260B
 X X X X X X

trans-1,2-DCE 8260B
 X X X X X X

1,1-DCE 8260B
 X X X X X X

PCE 8260B
 X X X X X X

1,4-Dioxane 8260B SIM
 X X X X X X

Sample Specific Notes:
 1VOA
 3VOA FOR 8260
 3VOA FOR 8260B SIM



Preservation Used: 1=Ice, 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other

Possible Hazard Identification:
 Are any samples from a listed EPA Hazardous Waste? Please list any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazardous Flammable Skin Irritant
 Return to Client Disposal by Lab Archive for Months

Special Instructions/QC Requirements & Comments:
 Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728
 Level IV Reporting requested

Custody Seal No.:	Relinquished by:	Company:	Date/Time:	Cooler Temp (°C):	Obs'd:	Corr'd:	Therm ID No.:
	John [Signature]	Arcadis	2/20/20 1300				
	John [Signature]	Arcadis	2/20/20 1700				
	John [Signature]	Arcadis	2/21/20 1500				
	John [Signature]	Arcadis	2/21/20 1600				
	John [Signature]	Arcadis	2/21/20 1520				

1
2
3
4
5
6
7
8
9
10
11
12
13
14

ETA-MI
2/21/20 1600

Relinquished by: John [Signature]
 Green Morgan

Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 126695

Client Accuris Site Name _____
 Cooler Received on 02/22/20 Opened on 02/22/20
 FedEx: 1st Grd UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Cooler unpacked by:
DSD

Receipt After-hours: Drop-off Date/Time _____ **Storage Location** _____

TestAmerica Cooler # TAC Foam Box Client Cooler Box Other _____
 Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-10 (CF +0.7°C) Observed Cooler Temp. 3.8 °C Corrected Cooler Temp. 4.5 °C
 IR GUN #IR-11 (CF +0.9°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
 If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC995364
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes No NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # NA Yes No
16. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:

 VOAs
 Oil and Grease
 TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:
AG

18. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____