

ANALYTICAL REPORT

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

Laboratory Job ID: 240-140274-1
Client Project/Site: Ford LTP - Off Site

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

Attn: Kristoffer Hinskey



Authorized for release by:
11/30/2020 4:00:34 PM

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

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

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
Surrogate Summary	13
QC Sample Results	14
QC Association Summary	16
Lab Chronicle	17
Certification Summary	18
Chain of Custody	19



Definitions/Glossary

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

Job ID: 240-140274-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

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

Job ID: 240-140274-1

Job ID: 240-140274-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP - Off Site

Report Number: 240-140274-1

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

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

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

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

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

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

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

RECEIPT

The samples were received on 11/14/2020 10:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 2.8° C and 3.2° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TRIP BLANK (240-140274-1), MW-76S_111220 (240-140274-2), MW-76_111220 (240-140274-3) and MW-101S_111220 (240-140274-4) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/24/2020.

The continuing calibration verification (CCV) for analytical batch 462426 exceeded control criteria for one or multiple compounds. The samples associated with this CCV were non-detect for the affected analytes. In accordance with the laboratory SOP, a low level CCV at the reporting limit (labeled as an MRL) was analyzed and the affected compounds were detected; therefore the data has been reported. No further corrective action was required: TRIP BLANK (240-140274-1), MW-76S_111220 (240-140274-2), MW-76_111220 (240-140274-3) and MW-101S_111220 (240-140274-4).

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

VOLATILE ORGANIC COMPOUNDS (GCMS SIM)

Samples MW-76S_111220 (240-140274-2), MW-76_111220 (240-140274-3) and MW-101S_111220 (240-140274-4) were analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 11/22/2020.

Case Narrative

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

Job ID: 240-140274-1

Job ID: 240-140274-1 (Continued)

Laboratory: Eurofins TestAmerica, Canton (Continued)

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

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

Method Summary

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

Job ID: 240-140274-1

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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- 2
- 3
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- 11
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- 13
- 14

Sample Summary

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

Job ID: 240-140274-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-140274-1	TRIP BLANK	Water	11/12/20 00:00	11/14/20 10:00	
240-140274-2	MW-76S_111220	Water	11/12/20 11:40	11/14/20 10:00	
240-140274-3	MW-76_111220	Water	11/12/20 12:35	11/14/20 10:00	
240-140274-4	MW-101S_111220	Water	11/12/20 14:20	11/14/20 10:00	

- 1
- 2
- 3
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- 14

Detection Summary

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

Job ID: 240-140274-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-140274-1

No Detections.

Client Sample ID: MW-76S_111220

Lab Sample ID: 240-140274-2

No Detections.

Client Sample ID: MW-76_111220

Lab Sample ID: 240-140274-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.93	J	1.0	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: MW-101S_111220

Lab Sample ID: 240-140274-4

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

1
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6
7
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11
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13
14

Client Sample Results

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

Job ID: 240-140274-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-140274-1

Date Collected: 11/12/20 00:00

Matrix: Water

Date Received: 11/14/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/24/20 04:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/24/20 04:07	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/24/20 04:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/24/20 04:07	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/24/20 04:07	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/24/20 04:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		75 - 130		11/24/20 04:07	1
4-Bromofluorobenzene (Surr)	77		47 - 134		11/24/20 04:07	1
Toluene-d8 (Surr)	97		69 - 122		11/24/20 04:07	1
Dibromofluoromethane (Surr)	100		78 - 129		11/24/20 04:07	1

Client Sample Results

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

Job ID: 240-140274-1

Client Sample ID: MW-76S_111220

Lab Sample ID: 240-140274-2

Date Collected: 11/12/20 11:40

Matrix: Water

Date Received: 11/14/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/22/20 10:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 133					11/22/20 10:00	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			11/24/20 04:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/24/20 04:29	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/24/20 04:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/24/20 04:29	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/24/20 04:29	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/24/20 04:29	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 130					11/24/20 04:29	1
4-Bromofluorobenzene (Surr)	71		47 - 134					11/24/20 04:29	1
Toluene-d8 (Surr)	96		69 - 122					11/24/20 04:29	1
Dibromofluoromethane (Surr)	99		78 - 129					11/24/20 04:29	1

Client Sample Results

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

Job ID: 240-140274-1

Client Sample ID: MW-76_111220

Lab Sample ID: 240-140274-3

Date Collected: 11/12/20 12:35

Matrix: Water

Date Received: 11/14/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/22/20 10:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 133		11/22/20 10:25	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			11/24/20 04:51	1
cis-1,2-Dichloroethene	0.93	J	1.0	0.16	ug/L			11/24/20 04:51	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/24/20 04:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/24/20 04:51	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/24/20 04:51	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/24/20 04:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		75 - 130		11/24/20 04:51	1
4-Bromofluorobenzene (Surr)	73		47 - 134		11/24/20 04:51	1
Toluene-d8 (Surr)	97		69 - 122		11/24/20 04:51	1
Dibromofluoromethane (Surr)	100		78 - 129		11/24/20 04:51	1

Client Sample Results

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

Job ID: 240-140274-1

Client Sample ID: MW-101S_111220

Lab Sample ID: 240-140274-4

Date Collected: 11/12/20 14:20

Matrix: Water

Date Received: 11/14/20 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/22/20 10:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 133					11/22/20 10:50	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			11/24/20 05:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/24/20 05:13	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/24/20 05:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/24/20 05:13	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/24/20 05:13	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/24/20 05:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 130					11/24/20 05:13	1
4-Bromofluorobenzene (Surr)	74		47 - 134					11/24/20 05:13	1
Toluene-d8 (Surr)	95		69 - 122					11/24/20 05:13	1
Dibromofluoromethane (Surr)	97		78 - 129					11/24/20 05:13	1

Surrogate Summary

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

Job ID: 240-140274-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	TOL	DBFM
		(75-130)	(47-134)	(69-122)	(78-129)
240-140274-1	TRIP BLANK	107	77	97	100
240-140274-2	MW-76S_111220	104	71	96	99
240-140274-3	MW-76_111220	107	73	97	100
240-140274-4	MW-101S_111220	103	74	95	97
LCS 240-462426/4	Lab Control Sample	86	96	104	84
MB 240-462426/7	Method Blank	97	76	96	91

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)
240-140274-2	MW-76S_111220	91
240-140274-3	MW-76_111220	90
240-140274-4	MW-101S_111220	89
LCS 240-462242/4	Lab Control Sample	90
MB 240-462242/5	Method Blank	89

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-140274-1

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

Lab Sample ID: MB 240-462426/7
Matrix: Water
Analysis Batch: 462426

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			11/23/20 22:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/23/20 22:59	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/23/20 22:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/23/20 22:59	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/23/20 22:59	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/23/20 22:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 130		11/23/20 22:59	1
4-Bromofluorobenzene (Surr)	76		47 - 134		11/23/20 22:59	1
Toluene-d8 (Surr)	96		69 - 122		11/23/20 22:59	1
Dibromofluoromethane (Surr)	91		78 - 129		11/23/20 22:59	1

Lab Sample ID: LCS 240-462426/4
Matrix: Water
Analysis Batch: 462426

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	7.85		ug/L		79	73 - 129
cis-1,2-Dichloroethene	10.0	10.7		ug/L		107	75 - 124
Tetrachloroethene	10.0	10.5		ug/L		105	70 - 125
trans-1,2-Dichloroethene	10.0	10.5		ug/L		105	74 - 130
Trichloroethene	10.0	8.72		ug/L		87	71 - 121
Vinyl chloride	10.0	7.69		ug/L		77	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		75 - 130
4-Bromofluorobenzene (Surr)	96		47 - 134
Toluene-d8 (Surr)	104		69 - 122
Dibromofluoromethane (Surr)	84		78 - 129

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

Lab Sample ID: MB 240-462242/5
Matrix: Water
Analysis Batch: 462242

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			11/22/20 04:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 133		11/22/20 04:31	1

QC Sample Results

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

Job ID: 240-140274-1

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

Lab Sample ID: LCS 240-462242/4
 Matrix: Water
 Analysis Batch: 462242

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	10.8		ug/L		108	80 - 135
Surrogate		LCS %Recovery	LCS Qualifier				Limits
1,2-Dichloroethane-d4 (Surr)		90					70 - 133

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

QC Association Summary

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

Job ID: 240-140274-1

GC/MS VOA

Analysis Batch: 462242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140274-2	MW-76S_111220	Total/NA	Water	8260B SIM	
240-140274-3	MW-76_111220	Total/NA	Water	8260B SIM	
240-140274-4	MW-101S_111220	Total/NA	Water	8260B SIM	
MB 240-462242/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-462242/4	Lab Control Sample	Total/NA	Water	8260B SIM	

Analysis Batch: 462426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140274-1	TRIP BLANK	Total/NA	Water	8260B	
240-140274-2	MW-76S_111220	Total/NA	Water	8260B	
240-140274-3	MW-76_111220	Total/NA	Water	8260B	
240-140274-4	MW-101S_111220	Total/NA	Water	8260B	
MB 240-462426/7	Method Blank	Total/NA	Water	8260B	
LCS 240-462426/4	Lab Control Sample	Total/NA	Water	8260B	

Lab Chronicle

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

Job ID: 240-140274-1

Client Sample ID: TRIP BLANK

Date Collected: 11/12/20 00:00

Date Received: 11/14/20 10:00

Lab Sample ID: 240-140274-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	462426	11/24/20 04:07	LEE	TAL CAN

Client Sample ID: MW-76S_111220

Date Collected: 11/12/20 11:40

Date Received: 11/14/20 10:00

Lab Sample ID: 240-140274-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	462426	11/24/20 04:29	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	462242	11/22/20 10:00	TJL2	TAL CAN

Client Sample ID: MW-76_111220

Date Collected: 11/12/20 12:35

Date Received: 11/14/20 10:00

Lab Sample ID: 240-140274-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	462426	11/24/20 04:51	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	462242	11/22/20 10:25	TJL2	TAL CAN

Client Sample ID: MW-101S_111220

Date Collected: 11/12/20 14:20

Date Received: 11/14/20 10:00

Lab Sample ID: 240-140274-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	462426	11/24/20 05:13	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	462242	11/22/20 10:50	TJL2	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 - Off Site

Job ID: 240-140274-1

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

TestAmerica Laboratory location: Brighton --- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

Regulatory program: DW NPDES RCRA Other

Client Project Manager: Kris Hinskey | Site Contact: Julia McClafferty | Lab Contact: Mike DelMontico | TestAmerica Laboratories, Inc. | COC No: _____

Address: 28550 Cabot Drive, Suite 500 | Telephone: 248-994-2240 | Telephone: 330-497-9396 | For lab use only

City/State/Zip: Novi, MI, 48377 | Email: kristoffer.hinskey@arcadis.com


Phone: 248-994-2240 | Analysis Turnaround Time: 10 day

Project Name: Ford LTP Off-Site | Method of Shipment/Carrier: ALLYSON HARTZ

Project Number: 30050315.402.04 | Shipping/Tracking No: _____

PO # 30050315.402.04

Sample Identification	Sample Date	Sample Time	Matrix			Containers & Preservatives					Filtered Sample (Y/N)	Composite C/Grab G	Analyses					Sample Specific Notes / Special Instructions:				
			Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH			ZnAc	Unpres	Other:	1,1-DCE 8260B	cis-1,2-DCE 8260B		Trans-1,2-DCE 8260B	PCE 8260B	TCF 8260B	Vinyl Chloride 8260B
TRIP BLANK	---	---	1																		1 TRIP BLANK	
MW-765-111220	11/12/20	11:40	6																			3 VOAS FCT 8260B 3 VOAS FCT 8260B SIM
MW-76-111220	11/12/20	12:35	6																			
MW-1015-111220	11/12/20	14:20	6																			



240-140274 Chain of Custody

Possible Hazard Identification: Non-Hazard Irritable Corrosive Flammable Volatile Other

Special Instructions/QC Requirements & Comments: _____

Submit all results through Cadena at jtomalia@cadenaco.com, Cadena #E203631 | Level IV Reporting requested.

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Autarchy	ARCADIS	11/12/20 16:00	NOVI cold storage	ARCADIS	11/12/20 16:00
Julia McClafferty	ARCADIS	11/13/20 1500	Gina Rivera	ETA	11-13-20 1500
Gina Rivera	ETA	11-13-20 1700	Fanny Page	ETA	11-14-20 1000

TestAmerica Laboratories, Inc. All TestAmerica Laboratory locations are ISO 17025 certified.



Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 140274

Client Arcadis Site Name _____
 Cooler Received on 11-14-20 Opened on 11-14-20
 FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Cooler unpacked by: Yamy Rosh

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

TestAmerica Cooler # TA 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-11 (CF +0.9 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN #IR-12 (CF +0.5 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

- 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 2 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 NA
 - 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 (ID/Date/Time) be reconciled with the COC? Yes No
- 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
- 10. Were correct bottle(s) used for the test(s) indicated? Yes No
- 11. Sufficient quantity received to perform indicated analyses? Yes No
- 12. Are these work share samples and all listed on the COC? Yes No

Tests that are not checked for pH by Receiving:

 VOAs
 Oil and Grease
 TOC

- If yes, Questions 13-17 have been checked at the originating laboratory.
- 13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC907861
- 14. Were VOAs on the COC? Yes No NA
- 15. Were air bubbles >6 mm in any VOA vials? Yes No NA ● ← Larger than this.
- 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
- 17. Was a LL Hg or Me Hg trip blank present? Yes No

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

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: Ryan C
Missing 3 VOA's sample - MW-totals - 111220 TR-11-14-20

19. 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)

20. 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: _____

