

## ANALYTICAL REPORT

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

Laboratory Job ID: 240-130851-1  
Client Project/Site: Ford LTP Off-Site

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

Attn: Kristoffer Hinskey



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Authorized for release by:  
6/10/2020 9:42:34 AM

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*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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# Definitions/Glossary

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

Job ID: 240-130851-1

## 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.
▫	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)
MQL	Method Quantitation Limit
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 Off-Site

Job ID: 240-130851-1

**Job ID: 240-130851-1**

**Laboratory: Eurofins TestAmerica, Canton**

**Narrative**

## CASE NARRATIVE

**Client: ARCADIS U.S., Inc.**

**Project: Ford LTP Off-Site**

**Report Number: 240-130851-1**

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 5/27/2020 10:25 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.1° C.

### **VOLATILE ORGANIC COMPOUNDS (GCMS)**

Samples TRIP BLANK (240-130851-1), MW-73D\_052220 (240-130851-2) and MW-73SR\_052220 (240-130851-3) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/02/2020.

The matrix spike/matrix spike duplicate (MS/MSD) for samples TRIP BLANK (240-130851-1), MW-73D\_052220 (240-130851-2) and MW-73SR\_052220 (240-130851-3) was not reported, because the analyte list for these samples did not match the analyte list for the MS/MSD parent sample.

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

### **VOLATILE ORGANIC COMPOUNDS (GCMS SIM)**

Samples MW-73D\_052220 (240-130851-2) and MW-73SR\_052220 (240-130851-3) were analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 06/04/2020.

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 Off-Site

Job ID: 240-130851-1

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



# Sample Summary

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

Job ID: 240-130851-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-130851-1	TRIP BLANK	Water	05/22/20 00:00	05/27/20 10:25	
240-130851-2	MW-73D_052220	Water	05/22/20 10:21	05/27/20 10:25	
240-130851-3	MW-73SR_052220	Water	05/22/20 11:31	05/27/20 10:25	

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

# Detection Summary

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

Job ID: 240-130851-1

## Client Sample ID: TRIP BLANK

Lab Sample ID: 240-130851-1

No Detections.

## Client Sample ID: MW-73D\_052220

Lab Sample ID: 240-130851-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	3.4		2.0	0.86	ug/L	1		8260B SIM	Total/NA
Vinyl chloride	0.28	J	1.0	0.20	ug/L	1		8260B	Total/NA

## Client Sample ID: MW-73SR\_052220

Lab Sample ID: 240-130851-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.6		1.0	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	1.4		1.0	0.20	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

# Client Sample Results

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

Job ID: 240-130851-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 240-130851-1**

**Date Collected: 05/22/20 00:00**

**Matrix: Water**

**Date Received: 05/27/20 10:25**

**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			06/02/20 21:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/02/20 21:47	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/02/20 21:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/20 21:47	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/02/20 21:47	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/02/20 21:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		75 - 130		06/02/20 21:47	1
4-Bromofluorobenzene (Surr)	103		47 - 134		06/02/20 21:47	1
Toluene-d8 (Surr)	89		69 - 122		06/02/20 21:47	1
Dibromofluoromethane (Surr)	94		78 - 129		06/02/20 21:47	1



# Client Sample Results

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

Job ID: 240-130851-1

**Client Sample ID: MW-73D\_052220**

**Lab Sample ID: 240-130851-2**

Date Collected: 05/22/20 10:21

Matrix: Water

Date Received: 05/27/20 10:25

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.4		2.0	0.86	ug/L			06/04/20 14:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 133		06/04/20 14:27	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			06/02/20 17:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/02/20 17:08	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/02/20 17:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/20 17:08	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/02/20 17:08	1
Vinyl chloride	0.28	J	1.0	0.20	ug/L			06/02/20 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 130		06/02/20 17:08	1
4-Bromofluorobenzene (Surr)	98		47 - 134		06/02/20 17:08	1
Toluene-d8 (Surr)	94		69 - 122		06/02/20 17:08	1
Dibromofluoromethane (Surr)	100		78 - 129		06/02/20 17:08	1

# Client Sample Results

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

Job ID: 240-130851-1

**Client Sample ID: MW-73SR\_052220**

**Lab Sample ID: 240-130851-3**

Date Collected: 05/22/20 11:31

Matrix: Water

Date Received: 05/27/20 10:25

**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	-		06/04/20 14:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 133		06/04/20 14:52	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	-		06/02/20 17:33	1
<b>cis-1,2-Dichloroethene</b>	<b>1.6</b>		1.0	0.16	ug/L			06/02/20 17:33	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/02/20 17:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/20 17:33	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/02/20 17:33	1
<b>Vinyl chloride</b>	<b>1.4</b>		1.0	0.20	ug/L			06/02/20 17:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 130		06/02/20 17:33	1
4-Bromofluorobenzene (Surr)	95		47 - 134		06/02/20 17:33	1
Toluene-d8 (Surr)	91		69 - 122		06/02/20 17:33	1
Dibromofluoromethane (Surr)	96		78 - 129		06/02/20 17:33	1

# Surrogate Summary

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

Job ID: 240-130851-1

## 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 (75-130)	BFB (47-134)	TOL (69-122)	DBFM (78-129)
240-130851-1	TRIP BLANK	95	103	89	94
240-130851-2	MW-73D_052220	97	98	94	100
240-130851-3	MW-73SR_052220	96	95	91	96
LCS 240-436533/4	Lab Control Sample	100	109	95	96
MB 240-436533/7	Method Blank	94	104	94	95

#### 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)
240-130851-2	MW-73D_052220	89
240-130851-3	MW-73SR_052220	90
240-130852-A-3 MS	Matrix Spike	87
240-130852-A-3 MSD	Matrix Spike Duplicate	93
LCS 240-436818/4	Lab Control Sample	91
MB 240-436818/5	Method Blank	90

#### Surrogate Legend

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

# QC Sample Results

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

Job ID: 240-130851-1

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

**Lab Sample ID: MB 240-436533/7**  
**Matrix: Water**  
**Analysis Batch: 436533**

**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			06/02/20 15:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/02/20 15:03	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/02/20 15:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/20 15:03	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/02/20 15:03	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/02/20 15:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		75 - 130		06/02/20 15:03	1
4-Bromofluorobenzene (Surr)	104		47 - 134		06/02/20 15:03	1
Toluene-d8 (Surr)	94		69 - 122		06/02/20 15:03	1
Dibromofluoromethane (Surr)	95		78 - 129		06/02/20 15:03	1

**Lab Sample ID: LCS 240-436533/4**  
**Matrix: Water**  
**Analysis Batch: 436533**

**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	10.1		ug/L		101	73 - 129
cis-1,2-Dichloroethene	10.0	10.1		ug/L		101	75 - 124
Tetrachloroethene	10.0	11.1		ug/L		111	70 - 125
trans-1,2-Dichloroethene	10.0	9.72		ug/L		97	74 - 130
Trichloroethene	10.0	9.98		ug/L		100	71 - 121
Vinyl chloride	10.0	12.8		ug/L		128	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		75 - 130
4-Bromofluorobenzene (Surr)	109		47 - 134
Toluene-d8 (Surr)	95		69 - 122
Dibromofluoromethane (Surr)	96		78 - 129

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

**Lab Sample ID: MB 240-436818/5**  
**Matrix: Water**  
**Analysis Batch: 436818**

**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			06/04/20 06:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	90		70 - 133		06/04/20 06:43	1

# QC Sample Results

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

Job ID: 240-130851-1

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

**Lab Sample ID: LCS 240-436818/4**  
**Matrix: Water**  
**Analysis Batch: 436818**

**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	9.26		ug/L		93	80 - 135
<b>LCS LCS</b>							
Surrogate	%Recovery	Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	91		70 - 133				

**Lab Sample ID: 240-130852-A-3 MS**  
**Matrix: Water**  
**Analysis Batch: 436818**

**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	9.13		ug/L		91	46 - 170
<b>MS MS</b>									
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	87		70 - 133						

**Lab Sample ID: 240-130852-A-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 436818**

**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	9.23		ug/L		92	46 - 170	1	26
<b>MSD MSD</b>											
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	93		70 - 133								

# QC Association Summary

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

Job ID: 240-130851-1

## GC/MS VOA

### Analysis Batch: 436533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-130851-1	TRIP BLANK	Total/NA	Water	8260B	
240-130851-2	MW-73D_052220	Total/NA	Water	8260B	
240-130851-3	MW-73SR_052220	Total/NA	Water	8260B	
MB 240-436533/7	Method Blank	Total/NA	Water	8260B	
LCS 240-436533/4	Lab Control Sample	Total/NA	Water	8260B	

### Analysis Batch: 436818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-130851-2	MW-73D_052220	Total/NA	Water	8260B SIM	
240-130851-3	MW-73SR_052220	Total/NA	Water	8260B SIM	
MB 240-436818/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-436818/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-130852-A-3 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-130852-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

# Lab Chronicle

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

Job ID: 240-130851-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 240-130851-1**

**Date Collected: 05/22/20 00:00**

**Matrix: Water**

**Date Received: 05/27/20 10:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436533	06/02/20 21:47	LRW	TAL CAN

**Client Sample ID: MW-73D\_052220**

**Lab Sample ID: 240-130851-2**

**Date Collected: 05/22/20 10:21**

**Matrix: Water**

**Date Received: 05/27/20 10:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436533	06/02/20 17:08	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	436818	06/04/20 14:27	TJL2	TAL CAN

**Client Sample ID: MW-73SR\_052220**

**Lab Sample ID: 240-130851-3**

**Date Collected: 05/22/20 11:31**

**Matrix: Water**

**Date Received: 05/27/20 10:25**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436533	06/02/20 17:33	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	436818	06/04/20 14:52	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: 240-130851-1

## 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	06-30-20
Georgia	State	4062	02-23-21
Illinois	NELAP	004498	07-31-20
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	06-30-20
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-24-21
Pennsylvania	NELAP	68-00340	08-31-20
Texas	NELAP	T104704517-18-10	08-31-20
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-20
Washington	State	C971	01-12-21
West Virginia DEP	State	210	12-31-20





MICHIGAN  
190


Chain of Custody Record

TestAmerica Laboratory location: Brighton --- 10648 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763

TestAmerica  
THE LEADER IN ENVIRONMENTAL TESTING

2-4143

<b>Client Contact</b> Company Name: Arcadis Address: 28550 Cabot Drive, Suite 500 City/State/Zip: Novi, MI, 48377 Phone: 248-994-2240 Project Name: Ford LTP Off-Site Project Number: 30050315.402.04 PO # 30050315.402.04		<b>Regulatory program:</b> <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other	
<b>Client Project Manager:</b> Kris Hinskey Telephone: 248-994-2240 Email: kristoff@hinskey@arcadis.com		<b>Lab Contact:</b> Mike DeMonico Telephone: 330-397-9396	
<b>Sampler Name:</b> GARY SCHAFER		<b>Analysis Turnaround Time</b> TAT (if different from below) <input type="checkbox"/> 3 weeks <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day	
<b>Method of Shipment/Carrier:</b> Shipping/Tracking No:		<b>Containers &amp; Preservatives</b> HCl <input type="checkbox"/> HNO3 <input type="checkbox"/> H2SO4 <input type="checkbox"/> NaOH <input type="checkbox"/> Zn Ac <input type="checkbox"/> Upret <input type="checkbox"/> Other:	
<b>Sample Identification</b> Sample Date Sample Time TRIP BLANK MW-73D-052220 MW-735R-052220		<b>Matrix</b> Aqueous <input type="checkbox"/> Solid <input type="checkbox"/> Sediment <input type="checkbox"/> Other:	
<b>Filtered Sample (Y/N)</b> Composite C/Grab-C		<b>Analyses</b> 1,1-DCE 8260B GS-1,2-DCE 8260B Trans-1,2-DCE 8260B PCE 8260B TCE 8260B Vinyl Chloride 8260B 1,4-Dioxane 8260B SIM	
<b>Sample Specific Notes / Special Instructions:</b>		<b>Walk-in client</b> <input type="checkbox"/> <b>Lab sampling</b> <input type="checkbox"/> <b>Job/SDG No:</b>	



240-130851 Chain of Custody

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)  
 Return to Client  Disposal By Lab  Archive For \_\_\_\_\_ Months

<b>Relinquished by:</b> Gary Schaffer	<b>Company:</b> Arcadis	<b>Date/Time:</b> 5/22/20 12:11	<b>Received by:</b> RACHEL BIELEK	<b>Company:</b> ARCADIS	<b>Date/Time:</b> 5/22/21 12:11
<b>Relinquished by:</b> RACHEL BIELEK	<b>Company:</b> ARCADIS	<b>Date/Time:</b> 5/22/20 12:13	<b>Received by:</b> NOVILAND STORAGE	<b>Company:</b> ARCADIS	<b>Date/Time:</b> 5/22/20 12:43
<b>Relinquished by:</b> John Bantel	<b>Company:</b> Arcadis	<b>Date/Time:</b> 5/26/20 12:20	<b>Received in Laboratory by:</b> John Heel	<b>Company:</b> ETA	<b>Date/Time:</b> 5/26/20 12:21

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

Relinquished by: *John Heel*    Date: 5/26/20 12:22  
 Received by: *Adam Gantel*    Date: 5/27/20 9:10

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**Eurofins TestAmerica Canton Sample Receipt Form/Narrative**  
**Canton Facility**

Login # : 130851

Client Arcadis Ford LTP Site Name \_\_\_\_\_  
 Cooler Received on 5-27-20 Opened on 5-27-20 Cooler unpacked by: Adawn Parry  
 FedEx: 1<sup>st</sup>  (Grd) Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other \_\_\_\_\_

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: Water 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. 34 °C Corrected Cooler Temp. 41 °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# HC902937
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 # 02477215 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: PC

**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: \_\_\_\_\_