

## ANALYTICAL REPORT

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Laboratory Job ID: 240-114325-1  
Client Project/Site: Ford LTP Livonia MI - E203728

For:  
ARCADIS U.S., Inc.  
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Authorized for release by:  
7/2/2019 3:19:28 PM

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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 Livonia MI - E203728

Job ID: 240-114325-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
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)
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 Livonia MI - E203728

Job ID: 240-114325-1

**Job ID: 240-114325-1**

**Laboratory: Eurofins TestAmerica, Canton**

**Narrative**

## CASE NARRATIVE

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

**Project: Ford LTP Livonia MI - E203728**

**Report Number: 240-114325-1**

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 6/13/2019 8:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.5° C, 2.7° C and 4.1° C.

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

Samples MW-44\_061119 (240-114325-1), TW-16-04\_061119 (240-114325-2), TW-16-03\_061119 (240-114325-3), PW-16-02\_061119 (240-114325-4), DUP-03 (240-114325-5) and TRIP BLANK (240-114325-6) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/22/2019 and 06/24/2019.

Samples MW-44\_061119 (240-114325-1)[20X] and TW-16-04\_061119 (240-114325-2)[2.5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No MS/MSD in batch 387698 due to incorrect dilution: TW-16-04\_061119 (240-114325-2), PW-16-02\_061119 (240-114325-4), DUP-03 (240-114325-5) and TRIP BLANK (240-114325-6).

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for 387795 recovered outside control limits for multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.(240-114293-B-1)

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

# Case Narrative

Client: ARCADIS U.S., Inc.  
Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114325-1

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## Job ID: 240-114325-1 (Continued)

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### Laboratory: Eurofins TestAmerica, Canton (Continued)

#### VOLATILE ORGANIC COMPOUNDS (GCMS SIM)

Samples MW-44\_061119 (240-114325-1), TW-16-04\_061119 (240-114325-2), TW-16-03\_061119 (240-114325-3), PW-16-02\_061119 (240-114325-4) and DUP-03 (240-114325-5) were analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 06/18/2019.

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

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# Method Summary

Client: ARCADIS U.S., Inc.  
Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114325-1

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 Livonia MI - E203728

Job ID: 240-114325-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-114325-1	MW-44_061119	Water	06/11/19 10:26	06/14/19 09:40	
240-114325-2	TW-16-04_061119	Water	06/11/19 17:05	06/14/19 09:40	
240-114325-3	TW-16-03_061119	Water	06/11/19 12:39	06/14/19 09:40	
240-114325-4	PW-16-02_061119	Water	06/11/19 15:20	06/14/19 09:40	
240-114325-5	DUP-03	Water	06/11/19 00:00	06/14/19 09:40	
240-114325-6	TRIP BLANK	Water	06/11/19 00:00	06/14/19 09:40	

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# Detection Summary

Client: ARCADIS U.S., Inc.  
Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114325-1

## Client Sample ID: MW-44\_061119

## Lab Sample ID: 240-114325-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	14		2.0	0.86	ug/L	1		8260B SIM	Total/NA
Vinyl chloride	180		20	4.0	ug/L	20		8260B	Total/NA

## Client Sample ID: TW-16-04\_061119

## Lab Sample ID: 240-114325-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.1	J	2.0	0.86	ug/L	1		8260B SIM	Total/NA
cis-1,2-Dichloroethene	14		2.5	0.40	ug/L	2.5		8260B	Total/NA
Vinyl chloride	51		2.5	0.50	ug/L	2.5		8260B	Total/NA

## Client Sample ID: TW-16-03\_061119

## Lab Sample ID: 240-114325-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	14		1.0	0.16	ug/L	1		8260B	Total/NA
Vinyl chloride	20		1.0	0.20	ug/L	1		8260B	Total/NA

## Client Sample ID: PW-16-02\_061119

## Lab Sample ID: 240-114325-4

No Detections.

## Client Sample ID: DUP-03

## Lab Sample ID: 240-114325-5

No Detections.

## Client Sample ID: TRIP BLANK

## Lab Sample ID: 240-114325-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton



# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114325-1

**Client Sample ID: MW-44\_061119**

**Lab Sample ID: 240-114325-1**

Date Collected: 06/11/19 10:26

Matrix: Water

Date Received: 06/14/19 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	14		2.0	0.86	ug/L			06/18/19 15:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		63 - 125		06/18/19 15:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	20	U	20	3.8	ug/L			06/24/19 11:06	20
cis-1,2-Dichloroethene	20	U	20	3.2	ug/L			06/24/19 11:06	20
Tetrachloroethene	20	U	20	3.0	ug/L			06/24/19 11:06	20
trans-1,2-Dichloroethene	20	U	20	3.8	ug/L			06/24/19 11:06	20
Trichloroethene	20	U	20	2.0	ug/L			06/24/19 11:06	20
Vinyl chloride	180		20	4.0	ug/L			06/24/19 11:06	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		70 - 121		06/24/19 11:06	20
4-Bromofluorobenzene (Surr)	94		59 - 120		06/24/19 11:06	20
Toluene-d8 (Surr)	108		70 - 123		06/24/19 11:06	20
Dibromofluoromethane (Surr)	113		75 - 128		06/24/19 11:06	20

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114325-1

**Client Sample ID: TW-16-04\_061119**

**Lab Sample ID: 240-114325-2**

Date Collected: 06/11/19 17:05

Matrix: Water

Date Received: 06/14/19 09:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.1	J	2.0	0.86	ug/L			06/18/19 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		63 - 125		06/18/19 16:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	2.5	U	2.5	0.48	ug/L			06/22/19 16:43	2.5
cis-1,2-Dichloroethene	14		2.5	0.40	ug/L			06/22/19 16:43	2.5
Tetrachloroethene	2.5	U	2.5	0.38	ug/L			06/22/19 16:43	2.5
trans-1,2-Dichloroethene	2.5	U	2.5	0.48	ug/L			06/22/19 16:43	2.5
Trichloroethene	2.5	U	2.5	0.25	ug/L			06/22/19 16:43	2.5
Vinyl chloride	51		2.5	0.50	ug/L			06/22/19 16:43	2.5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 121		06/22/19 16:43	2.5
4-Bromofluorobenzene (Surr)	68		59 - 120		06/22/19 16:43	2.5
Toluene-d8 (Surr)	82		70 - 123		06/22/19 16:43	2.5
Dibromofluoromethane (Surr)	91		75 - 128		06/22/19 16:43	2.5

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114325-1

**Client Sample ID: TW-16-03\_061119**

**Lab Sample ID: 240-114325-3**

Date Collected: 06/11/19 12:39

Matrix: Water

Date Received: 06/14/19 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			06/18/19 16:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		63 - 125		06/18/19 16:46	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			06/24/19 12:01	1
<b>cis-1,2-Dichloroethene</b>	<b>14</b>		1.0	0.16	ug/L			06/24/19 12:01	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/24/19 12:01	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/24/19 12:01	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/24/19 12:01	1
<b>Vinyl chloride</b>	<b>20</b>		1.0	0.20	ug/L			06/24/19 12:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 121		06/24/19 12:01	1
4-Bromofluorobenzene (Surr)	66		59 - 120		06/24/19 12:01	1
Toluene-d8 (Surr)	79		70 - 123		06/24/19 12:01	1
Dibromofluoromethane (Surr)	90		75 - 128		06/24/19 12:01	1

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114325-1

**Client Sample ID: PW-16-02\_061119**

**Lab Sample ID: 240-114325-4**

Date Collected: 06/11/19 15:20

Matrix: Water

Date Received: 06/14/19 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	-		06/18/19 17:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		63 - 125		06/18/19 17:11	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	-		06/22/19 17:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L	-		06/22/19 17:27	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L	-		06/22/19 17:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L	-		06/22/19 17:27	1
Trichloroethene	1.0	U	1.0	0.10	ug/L	-		06/22/19 17:27	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L	-		06/22/19 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		70 - 121		06/22/19 17:27	1
4-Bromofluorobenzene (Surr)	66		59 - 120		06/22/19 17:27	1
Toluene-d8 (Surr)	83		70 - 123		06/22/19 17:27	1
Dibromofluoromethane (Surr)	91		75 - 128		06/22/19 17:27	1

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114325-1

**Client Sample ID: DUP-03**

**Lab Sample ID: 240-114325-5**

**Date Collected: 06/11/19 00:00**

**Matrix: Water**

**Date Received: 06/14/19 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	-		06/18/19 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		63 - 125		06/18/19 17:36	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	-		06/22/19 17:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L	-		06/22/19 17:49	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L	-		06/22/19 17:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L	-		06/22/19 17:49	1
Trichloroethene	1.0	U	1.0	0.10	ug/L	-		06/22/19 17:49	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L	-		06/22/19 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		70 - 121		06/22/19 17:49	1
4-Bromofluorobenzene (Surr)	79		59 - 120		06/22/19 17:49	1
Toluene-d8 (Surr)	99		70 - 123		06/22/19 17:49	1
Dibromofluoromethane (Surr)	112		75 - 128		06/22/19 17:49	1

# Client Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114325-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 240-114325-6**

**Date Collected: 06/11/19 00:00**

**Matrix: Water**

**Date Received: 06/14/19 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			06/22/19 18:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/22/19 18:11	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/22/19 18:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/22/19 18:11	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/22/19 18:11	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/22/19 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 121		06/22/19 18:11	1
4-Bromofluorobenzene (Surr)	67		59 - 120		06/22/19 18:11	1
Toluene-d8 (Surr)	80		70 - 123		06/22/19 18:11	1
Dibromofluoromethane (Surr)	95		75 - 128		06/22/19 18:11	1

# Surrogate Summary

Client: ARCADIS U.S., Inc.  
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114325-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (70-121)	BFB (59-120)	TOL (70-123)	DBFM (75-128)
240-114282-A-3 MSD	Matrix Spike Duplicate	83	93	92	79
240-114282-C-3 MS	Matrix Spike	85	95	96	82
240-114293-E-1 MSD	Matrix Spike Duplicate	102	103	108	104
240-114293-H-1 MS	Matrix Spike	91	96	104	96
240-114325-1	MW-44_061119	109	94	108	113
240-114325-2	TW-16-04_061119	96	68	82	91
240-114325-3	TW-16-03_061119	95	66	79	90
240-114325-4	PW-16-02_061119	95	66	83	91
240-114325-5	DUP-03	121	79	99	112
240-114325-6	TRIP BLANK	101	67	80	95
LCS 240-387698/4	Lab Control Sample	81	90	89	80
LCS 240-387795/4	Lab Control Sample	100	111	113	107
LCS 240-387795/9	Lab Control Sample	98	101	107	104
LCS 240-387799/4	Lab Control Sample	82	92	88	80
LCS 240-387795/10	Lab Control Sample Dup	101	105	108	110
LCS 240-387795/8	Lab Control Sample Dup	100	107	114	105
MB 240-387698/6	Method Blank	96	74	82	96
MB 240-387795/6	Method Blank	110	97	109	115
MB 240-387799/6	Method Blank	97	70	82	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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DCA (63-125)
240-114325-1	MW-44_061119	107
240-114325-2	TW-16-04_061119	106
240-114325-3	TW-16-03_061119	107
240-114325-4	PW-16-02_061119	109
240-114325-5	DUP-03	107
240-114490-A-4 MS	Matrix Spike	108
240-114490-A-4 MSD	Matrix Spike Duplicate	110
LCS 240-386776/4	Lab Control Sample	105
MB 240-386776/5	Method Blank	109

### Surrogate Legend

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

# QC Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114325-1

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

**Lab Sample ID: MB 240-387698/6**  
**Matrix: Water**  
**Analysis Batch: 387698**

**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			06/22/19 15:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/22/19 15:59	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/22/19 15:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/22/19 15:59	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/22/19 15:59	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/22/19 15:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 121		06/22/19 15:59	1
4-Bromofluorobenzene (Surr)	74		59 - 120		06/22/19 15:59	1
Toluene-d8 (Surr)	82		70 - 123		06/22/19 15:59	1
Dibromofluoromethane (Surr)	96		75 - 128		06/22/19 15:59	1

**Lab Sample ID: LCS 240-387698/4**  
**Matrix: Water**  
**Analysis Batch: 387698**

**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	8.27		ug/L		83	65 - 139
cis-1,2-Dichloroethene	10.0	8.49		ug/L		85	76 - 128
Tetrachloroethene	10.0	8.76		ug/L		88	74 - 130
trans-1,2-Dichloroethene	10.0	8.88		ug/L		89	78 - 133
Trichloroethene	10.0	8.54		ug/L		85	76 - 125
Vinyl chloride	10.0	8.35		ug/L		83	58 - 143

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	81		70 - 121
4-Bromofluorobenzene (Surr)	90		59 - 120
Toluene-d8 (Surr)	89		70 - 123
Dibromofluoromethane (Surr)	80		75 - 128

**Lab Sample ID: MB 240-387795/6**  
**Matrix: Water**  
**Analysis Batch: 387795**

**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			06/24/19 10:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/24/19 10:44	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/24/19 10:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/24/19 10:44	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/24/19 10:44	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/24/19 10:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		70 - 121		06/24/19 10:44	1
4-Bromofluorobenzene (Surr)	97		59 - 120		06/24/19 10:44	1
Toluene-d8 (Surr)	109		70 - 123		06/24/19 10:44	1

Eurofins TestAmerica, Canton



# QC Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114325-1

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

**Lab Sample ID: MB 240-387795/6**  
**Matrix: Water**  
**Analysis Batch: 387795**

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

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	115		75 - 128		06/24/19 10:44	1

**Lab Sample ID: LCS 240-387795/4**  
**Matrix: Water**  
**Analysis Batch: 387795**

**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
cis-1,2-Dichloroethene	10.0	11.3		ug/L		113	76 - 128	
Tetrachloroethene	10.0	9.50		ug/L		95	74 - 130	
trans-1,2-Dichloroethene	10.0	10.7		ug/L		107	78 - 133	
Trichloroethene	10.0	9.41		ug/L		94	76 - 125	
Vinyl chloride	10.0	9.55		ug/L		95	58 - 143	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	100		70 - 121
4-Bromofluorobenzene (Surr)	111		59 - 120
Toluene-d8 (Surr)	113		70 - 123
Dibromofluoromethane (Surr)	107		75 - 128

**Lab Sample ID: LCS 240-387795/9**  
**Matrix: Water**  
**Analysis Batch: 387795**

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

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	98		70 - 121
4-Bromofluorobenzene (Surr)	101		59 - 120
Toluene-d8 (Surr)	107		70 - 123
Dibromofluoromethane (Surr)	104		75 - 128

**Lab Sample ID: LCSD 240-387795/10**  
**Matrix: Water**  
**Analysis Batch: 387795**

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

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		70 - 121
4-Bromofluorobenzene (Surr)	105		59 - 120
Toluene-d8 (Surr)	108		70 - 123
Dibromofluoromethane (Surr)	110		75 - 128

**Lab Sample ID: LCSD 240-387795/8**  
**Matrix: Water**  
**Analysis Batch: 387795**

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD Limit	
							1,1-Dichloroethene	10.0	10.9	
cis-1,2-Dichloroethene	10.0	10.6		ug/L		106	76 - 128	6	35	
Tetrachloroethene	10.0	8.87		ug/L		89	74 - 130	7	35	

Eurofins TestAmerica, Canton

# QC Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114325-1

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

**Lab Sample ID: LCSD 240-387795/8**  
**Matrix: Water**  
**Analysis Batch: 387795**

**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
trans-1,2-Dichloroethene	10.0	10.8		ug/L		108	78 - 133	1	35
Trichloroethene	10.0	9.05		ug/L		90	76 - 125	4	35
Vinyl chloride	10.0	10.5		ug/L		105	58 - 143	9	35

  

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 121
4-Bromofluorobenzene (Surr)	107		59 - 120
Toluene-d8 (Surr)	114		70 - 123
Dibromofluoromethane (Surr)	105		75 - 128

**Lab Sample ID: 240-114293-E-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 387795**

**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
1,1-Dichloroethene	1.0	U	10.0	11.9		ug/L		119	53 - 140	15	35
cis-1,2-Dichloroethene	1.0	U	10.0	11.2		ug/L		112	64 - 130	16	21
Tetrachloroethene	1.0	U	10.0	9.54		ug/L		95	51 - 136	18	23
trans-1,2-Dichloroethene	1.0	U	10.0	11.5		ug/L		115	68 - 133	13	24
Trichloroethene	1.0	U	10.0	9.70		ug/L		97	55 - 131	10	23
Vinyl chloride	1.0	U F2	10.0	10.8	F2	ug/L		108	43 - 154	39	29

  

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		70 - 121
4-Bromofluorobenzene (Surr)	103		59 - 120
Toluene-d8 (Surr)	108		70 - 123
Dibromofluoromethane (Surr)	104		75 - 128

**Lab Sample ID: 240-114293-H-1 MS**  
**Matrix: Water**  
**Analysis Batch: 387795**

**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	RPD	RPD Limit
1,1-Dichloroethene	1.0	U	10.0	10.2		ug/L		102	53 - 140		
cis-1,2-Dichloroethene	1.0	U	10.0	9.50		ug/L		95	64 - 130		
Tetrachloroethene	1.0	U	10.0	7.99		ug/L		80	51 - 136		
trans-1,2-Dichloroethene	1.0	U	10.0	10.0		ug/L		100	68 - 133		
Trichloroethene	1.0	U	10.0	8.77		ug/L		88	55 - 131		
Vinyl chloride	1.0	U F2	10.0	7.23		ug/L		72	43 - 154		

  

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		70 - 121
4-Bromofluorobenzene (Surr)	96		59 - 120
Toluene-d8 (Surr)	104		70 - 123
Dibromofluoromethane (Surr)	96		75 - 128

# QC Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114325-1

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

**Lab Sample ID: MB 240-387799/6**  
**Matrix: Water**  
**Analysis Batch: 387799**

**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			06/24/19 11:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/24/19 11:09	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/24/19 11:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/24/19 11:09	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/24/19 11:09	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/24/19 11:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 121		06/24/19 11:09	1
4-Bromofluorobenzene (Surr)	70		59 - 120		06/24/19 11:09	1
Toluene-d8 (Surr)	82		70 - 123		06/24/19 11:09	1
Dibromofluoromethane (Surr)	91		75 - 128		06/24/19 11:09	1

**Lab Sample ID: LCS 240-387799/4**  
**Matrix: Water**  
**Analysis Batch: 387799**

**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	10.4		ug/L		104	65 - 139
cis-1,2-Dichloroethene	10.0	8.72		ug/L		87	76 - 128
Tetrachloroethene	10.0	9.28		ug/L		93	74 - 130
trans-1,2-Dichloroethene	10.0	10.0		ug/L		100	78 - 133
Trichloroethene	10.0	8.62		ug/L		86	76 - 125
Vinyl chloride	10.0	10.6		ug/L		106	58 - 143

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	82		70 - 121
4-Bromofluorobenzene (Surr)	92		59 - 120
Toluene-d8 (Surr)	88		70 - 123
Dibromofluoromethane (Surr)	80		75 - 128

**Lab Sample ID: 240-114282-A-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 387799**

**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
1,1-Dichloroethene	1.0	U	10.0	8.66		ug/L		87	53 - 140	6	35
cis-1,2-Dichloroethene	1.0	U	10.0	7.88		ug/L		79	64 - 130	6	21
Tetrachloroethene	1.0	U	10.0	8.62		ug/L		86	51 - 136	1	23
trans-1,2-Dichloroethene	1.0	U	10.0	8.61		ug/L		86	68 - 133	3	24
Trichloroethene	1.7		10.0	9.25		ug/L		76	55 - 131	4	23
Vinyl chloride	1.0	U	10.0	8.72		ug/L		87	43 - 154	26	29

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		70 - 121
4-Bromofluorobenzene (Surr)	93		59 - 120
Toluene-d8 (Surr)	92		70 - 123

Eurofins TestAmerica, Canton

# QC Sample Results

Client: ARCADIS U.S., Inc.  
Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114325-1

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

**Lab Sample ID: 240-114282-A-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 387799**

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

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	79		75 - 128

**Lab Sample ID: 240-114282-C-3 MS**  
**Matrix: Water**  
**Analysis Batch: 387799**

**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
1,1-Dichloroethene	1.0	U	10.0	8.15		ug/L		81	53 - 140
cis-1,2-Dichloroethene	1.0	U	10.0	8.37		ug/L		84	64 - 130
Tetrachloroethene	1.0	U	10.0	8.74		ug/L		87	51 - 136
trans-1,2-Dichloroethene	1.0	U	10.0	8.89		ug/L		89	68 - 133
Trichloroethene	1.7		10.0	9.59		ug/L		79	55 - 131
Vinyl chloride	1.0	U	10.0	6.69		ug/L		67	43 - 154

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		70 - 121
4-Bromofluorobenzene (Surr)	95		59 - 120
Toluene-d8 (Surr)	96		70 - 123
Dibromofluoromethane (Surr)	82		75 - 128

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

**Lab Sample ID: MB 240-386776/5**  
**Matrix: Water**  
**Analysis Batch: 386776**

**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			06/18/19 12:37	1

  

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		63 - 125		06/18/19 12:37	1

**Lab Sample ID: LCS 240-386776/4**  
**Matrix: Water**  
**Analysis Batch: 386776**

**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	10.9		ug/L		109	59 - 131

  

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		63 - 125

**Lab Sample ID: 240-114490-A-4 MS**  
**Matrix: Water**  
**Analysis Batch: 386776**

**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	10.2		ug/L		102	52 - 129

Eurofins TestAmerica, Canton

# QC Sample Results

Client: ARCADIS U.S., Inc.  
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114325-1

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	108		63 - 125

**Lab Sample ID: 240-114490-A-4 MSD**  
**Matrix: Water**  
**Analysis Batch: 386776**

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

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>	<i>RPD</i>	<i>RPD Limit</i>
1,4-Dioxane	2.0	U	10.0	10.6		ug/L		106	52 - 129	4	13

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	110		63 - 125

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# QC Association Summary

Client: ARCADIS U.S., Inc.  
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114325-1

## GC/MS VOA

### Analysis Batch: 386776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-114325-1	MW-44_061119	Total/NA	Water	8260B SIM	
240-114325-2	TW-16-04_061119	Total/NA	Water	8260B SIM	
240-114325-3	TW-16-03_061119	Total/NA	Water	8260B SIM	
240-114325-4	PW-16-02_061119	Total/NA	Water	8260B SIM	
240-114325-5	DUP-03	Total/NA	Water	8260B SIM	
MB 240-386776/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-386776/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-114490-A-4 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-114490-A-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

### Analysis Batch: 387698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-114325-2	TW-16-04_061119	Total/NA	Water	8260B	
240-114325-4	PW-16-02_061119	Total/NA	Water	8260B	
240-114325-5	DUP-03	Total/NA	Water	8260B	
240-114325-6	TRIP BLANK	Total/NA	Water	8260B	
MB 240-387698/6	Method Blank	Total/NA	Water	8260B	
LCS 240-387698/4	Lab Control Sample	Total/NA	Water	8260B	

### Analysis Batch: 387795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-114325-1	MW-44_061119	Total/NA	Water	8260B	
MB 240-387795/6	Method Blank	Total/NA	Water	8260B	
LCS 240-387795/4	Lab Control Sample	Total/NA	Water	8260B	
LCS 240-387795/9	Lab Control Sample	Total/NA	Water	8260B	
LCSD 240-387795/10	Lab Control Sample Dup	Total/NA	Water	8260B	
LCSD 240-387795/8	Lab Control Sample Dup	Total/NA	Water	8260B	
240-114293-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
240-114293-H-1 MS	Matrix Spike	Total/NA	Water	8260B	

### Analysis Batch: 387799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-114325-3	TW-16-03_061119	Total/NA	Water	8260B	
MB 240-387799/6	Method Blank	Total/NA	Water	8260B	
LCS 240-387799/4	Lab Control Sample	Total/NA	Water	8260B	
240-114282-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
240-114282-C-3 MS	Matrix Spike	Total/NA	Water	8260B	

# Lab Chronicle

Client: ARCADIS U.S., Inc.  
Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114325-1

**Client Sample ID: MW-44\_061119**

**Lab Sample ID: 240-114325-1**

**Date Collected: 06/11/19 10:26**

**Matrix: Water**

**Date Received: 06/14/19 09:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	387795	06/24/19 11:06	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	386776	06/18/19 15:56	SAM	TAL CAN

**Client Sample ID: TW-16-04\_061119**

**Lab Sample ID: 240-114325-2**

**Date Collected: 06/11/19 17:05**

**Matrix: Water**

**Date Received: 06/14/19 09:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2.5	387698	06/22/19 16:43	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	386776	06/18/19 16:21	SAM	TAL CAN

**Client Sample ID: TW-16-03\_061119**

**Lab Sample ID: 240-114325-3**

**Date Collected: 06/11/19 12:39**

**Matrix: Water**

**Date Received: 06/14/19 09:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	387799	06/24/19 12:01	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	386776	06/18/19 16:46	SAM	TAL CAN

**Client Sample ID: PW-16-02\_061119**

**Lab Sample ID: 240-114325-4**

**Date Collected: 06/11/19 15:20**

**Matrix: Water**

**Date Received: 06/14/19 09:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	387698	06/22/19 17:27	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	386776	06/18/19 17:11	SAM	TAL CAN

**Client Sample ID: DUP-03**

**Lab Sample ID: 240-114325-5**

**Date Collected: 06/11/19 00:00**

**Matrix: Water**

**Date Received: 06/14/19 09:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	387698	06/22/19 17:49	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	386776	06/18/19 17:36	SAM	TAL CAN

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 240-114325-6**

**Date Collected: 06/11/19 00:00**

**Matrix: Water**

**Date Received: 06/14/19 09:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	387698	06/22/19 18:11	LEE	TAL CAN

**Laboratory References:**

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

Eurofins TestAmerica, Canton

# Accreditation/Certification Summary

Client: ARCADIS U.S., Inc.  
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114325-1

## Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State		2927	02-23-20
California	State Program	9	2927	02-23-20
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-20
Florida	NELAP		E87225	06-30-19
Illinois	NELAP	5	200004	07-31-19 *
Illinois	NELAP		004498	07-31-19
Iowa	State Program	7	421	06-01-21
Kansas	NELAP	7	E-10336	04-30-20
Kentucky (UST)	State Program	4	58	02-23-20
Kentucky (WW)	State Program	4	98016	12-31-19
Minnesota	NELAP	5	039-999-348	12-31-19 *
Minnesota (Petrofund)	State Program	1	3506	07-31-19 *
Nevada	State Program	9	OH00048	07-31-19
New Jersey	NELAP	2	OH001	06-30-20
New York	NELAP	2	10975	03-31-20
New York	NELAP		10975	03-31-20
Ohio VAP	State Program	5	CL0024	06-05-21
Oregon	NELAP	10	4062	02-23-20
Oregon	NELAP		4062	02-23-20
Pennsylvania	NELAP	3	68-00340	08-31-19 *
Pennsylvania	NELAP		68-00340	08-31-19
Texas	NELAP	6	T104704517-18-10	08-31-19 *
Texas	NELAP		T104704517-18-10	08-31-19
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-19 *
Virginia	NELAP		010101	09-14-19
Washington	State		C971	01-12-20
Washington	State Program	10	C971	01-12-20 *
West Virginia DEP	State		210	12-31-19
West Virginia DEP	State Program	3	210	12-31-19

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



# MICHIGAN Chain of Custody Record

## 190

Eurofins TestAmerica, Canton  
 4101 Shuffel Street NW  
 North Canton, OH 44720  
 Phone: 330-497-9396 Fax: 330-497-0772

<b>Client Information</b> Client Contact: Caitlin O'Neill Company: ARCADIS U.S. Inc. Address: 28550 Cabot Drive Suite 500 City: Novi State: Zp: MI, 48377 Phone: Email: Caitlin.O'Neill@arcadis.com Project Name: Ford LTP Livonia MI - E203634 T2B Site: LTP		Lab PM: Deimonico, Michael E-Mail: michael.deimonico@testamerica.com Carrier Tracking No(s): COC No: 240-61361-26116.8 Page: Page 8 of 10 Job #:	
<b>Due Date Requested:</b> TAT Requested (days): 10 day (standard) PO #: MI001454-0006-00001 WO #: Cadena #: E203634 T2B Project #: 24015353 SSOW#:		<b>Analysis Requested</b> Perform MS/MSD (Yes or No) <input checked="" type="checkbox"/> A 8260B, 8260B SIM <input checked="" type="checkbox"/> A 8260B - VOCs (Short List) <input checked="" type="checkbox"/> A Total Number of containers: 6	
<b>Sample Identification</b> MW-44-061119 TW-16-04-061119 TW-16-03-061119 PW-16-03-061119 DUP-03. TRIP BLANK		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4.5 Z - other (specify)	
<b>Sample Date</b> 6-11-19 6-12-19 6-13-19		<b>Sample Time</b> 10:26 17:05 12:39 15:20	
<b>Sample Type</b> (C=Comp, G=grab) G ↓ ↓ ↓		<b>Matrix</b> (W=water, S=solid, O=wastol, BT=trace, A-A) Water Water Water Water Water Water Water Water Water	
<b>Field Filtered Sample (Yes or No)</b> <input checked="" type="checkbox"/> A <b>Form MS/MSD (Yes or No)</b> <input checked="" type="checkbox"/> A <b>8260B, 8260B SIM</b> <input checked="" type="checkbox"/> A <b>8260B - VOCs (Short List)</b> <input checked="" type="checkbox"/> A		Special Instructions/Note: 240-114325 Chain of Custody	
<b>Possible Hazard Identification</b> <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological			
<b>Deliverable Requested:</b> I, II, III, IV, Other (specify)			
<b>Empty Kit Relinquished by:</b>			
Relinquished by: Patrick Sabahi Relinquished by: RACHEL BIELAK Paul Paulak Relinquished by: Zee Jee		Date: 6-11-19 / 17:55 Date/Time: 6/12/19 1020 Date/Time: 6-12-19 1340	
Relinquished by: Patrick Sabahi Relinquished by: RACHEL BIELAK Paul Paulak Relinquished by: Zee Jee		Date/Time: 6-11-19 / 17:55 Date/Time: 6/12/19 1020 Date/Time: 6-12-19 1340	
Custody Seal Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No.:		Received by: Novi Cold Storage Received by: RACHA Received by: Patrick Sabahi Date/Time: 6/11/19 2015 Date/Time: 6-12-19 1020 Date/Time: 6/13/19 4:10 Company: ARCADIS Company: ARCADIS Company: ETA Company: ETA	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			
Special Instructions/QC Requirements:			
Method of Shipment:			



Canton Facility Cooler unpacked by: Asant

Client ARCADIS Site Name \_\_\_\_\_

Cooler Received on 6/13/19 Opened on 6/14/19

FedEx: 1<sup>st</sup>  Gro Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

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

TestAmerica Cooler # CANTON 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-8 (CF +0.1 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C

IR GUN #36 (CF +0.6 °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 ea  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 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# HC984738

13. Were VOAs on the COC?  Yes  No

14. Were air bubbles >6 mm in any VOA vials?  Yes  No  NA

15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # B904401NB  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: AMM

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

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: \_\_\_\_\_



Login # : \_\_\_\_\_

TestAmerica Canton Sample Receipt Multiple Cooler Form							
Cooler Description (Circle)				IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
<input checked="" type="radio"/> TA	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	<input checked="" type="radio"/> IR-8 #36	4.0	4.1	<input checked="" type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
<input checked="" type="radio"/> TA	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	<input checked="" type="radio"/> IR-8 #36	2.6	2.7	<input checked="" type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
<input checked="" type="radio"/> TA	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	<input checked="" type="radio"/> IR-8 #36	2.4	2.5	<input checked="" type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
<input type="radio"/> TA	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	<input type="radio"/> IR-8 #36			<input type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
<input type="radio"/> TA	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	<input type="radio"/> IR-8 #36			<input type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
<input type="radio"/> TA	<input type="radio"/> Client	<input type="radio"/> Box	<input type="radio"/> Other	<input type="radio"/> IR-8 #36			<input type="radio"/> Wet Ice <input type="radio"/> Blue Ice <input type="radio"/> Dry Ice <input type="radio"/> Water <input type="radio"/> None
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<input type="checkbox"/> See Temperature Excursion Form							

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