

## ANALYTICAL REPORT

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

Laboratory Job ID: 240-148877-1  
Client Project/Site: Ford LTP - On 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:  
5/21/2021 11:06:32 AM

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



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# Definitions/Glossary

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

Job ID: 240-148877-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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 - On Site

Job ID: 240-148877-1

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## Job ID: 240-148877-1

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### Laboratory: Eurofins TestAmerica, Canton

#### Narrative

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#### Job Narrative 240-148877-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 5/7/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4° C.

#### GC/MS VOA

Method 8260B: No MS/MSD in batch 486030 due to another analysis needed on the parent sample. Internal standard area fell: TRIP BLANK\_06 (240-148877-1), MW-14\_050521 (240-148877-2), MW-09\_050521 (240-148877-3), MW-07\_050521 (240-148877-4) and MW-01\_050521 (240-148877-5).

Method 8260B SIM: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-01\_050521 (240-148877-5). Elevated reporting limits (RLs) are provided.

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

#### VOA Prep

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

# Method Summary

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

Job ID: 240-148877-1

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 - On Site

Job ID: 240-148877-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-148877-1	TRIP BLANK_06	Water	05/05/21 00:00	05/07/21 08:00	
240-148877-2	MW-14_050521	Water	05/05/21 11:35	05/07/21 08:00	
240-148877-3	MW-09_050521	Water	05/05/21 12:40	05/07/21 08:00	
240-148877-4	MW-07_050521	Water	05/05/21 13:50	05/07/21 08:00	
240-148877-5	MW-01_050521	Water	05/05/21 15:15	05/07/21 08:00	

- 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 - On Site

Job ID: 240-148877-1

**Client Sample ID: TRIP BLANK\_06**

**Lab Sample ID: 240-148877-1**

No Detections.

**Client Sample ID: MW-14\_050521**

**Lab Sample ID: 240-148877-2**

No Detections.

**Client Sample ID: MW-09\_050521**

**Lab Sample ID: 240-148877-3**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	8.8		2.0	0.86	ug/L	1		8260B SIM	Total/NA
Vinyl chloride	3.9		1.0	0.20	ug/L	1		8260B	Total/NA

**Client Sample ID: MW-07\_050521**

**Lab Sample ID: 240-148877-4**

No Detections.

**Client Sample ID: MW-01\_050521**

**Lab Sample ID: 240-148877-5**

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 - On Site

Job ID: 240-148877-1

**Client Sample ID: TRIP BLANK\_06**

**Lab Sample ID: 240-148877-1**

**Date Collected: 05/05/21 00:00**

**Matrix: Water**

**Date Received: 05/07/21 08:00**

**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			05/17/21 10:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/17/21 10:52	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/17/21 10:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/17/21 10:52	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/17/21 10:52	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/17/21 10:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		75 - 130		05/17/21 10:52	1
4-Bromofluorobenzene (Surr)	65		47 - 134		05/17/21 10:52	1
Toluene-d8 (Surr)	82		69 - 122		05/17/21 10:52	1
Dibromofluoromethane (Surr)	105		78 - 129		05/17/21 10:52	1



# Client Sample Results

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

Job ID: 240-148877-1

**Client Sample ID: MW-14\_050521**

**Lab Sample ID: 240-148877-2**

**Date Collected: 05/05/21 11:35**

**Matrix: Water**

**Date Received: 05/07/21 08:00**

**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			05/11/21 18:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		70 - 133		05/11/21 18:23	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			05/17/21 11:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/17/21 11:14	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/17/21 11:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/17/21 11:14	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/17/21 11:14	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/17/21 11:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		75 - 130		05/17/21 11:14	1
4-Bromofluorobenzene (Surr)	66		47 - 134		05/17/21 11:14	1
Toluene-d8 (Surr)	80		69 - 122		05/17/21 11:14	1
Dibromofluoromethane (Surr)	105		78 - 129		05/17/21 11:14	1

# Client Sample Results

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

Job ID: 240-148877-1

**Client Sample ID: MW-09\_050521**

**Lab Sample ID: 240-148877-3**

Date Collected: 05/05/21 12:40

Matrix: Water

Date Received: 05/07/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	8.8		2.0	0.86	ug/L			05/11/21 18:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		70 - 133					05/11/21 18:48	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			05/17/21 11:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/17/21 11:35	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/17/21 11:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/17/21 11:35	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/17/21 11:35	1
Vinyl chloride	3.9		1.0	0.20	ug/L			05/17/21 11:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		75 - 130					05/17/21 11:35	1
4-Bromofluorobenzene (Surr)	65		47 - 134					05/17/21 11:35	1
Toluene-d8 (Surr)	83		69 - 122					05/17/21 11:35	1
Dibromofluoromethane (Surr)	103		78 - 129					05/17/21 11:35	1

# Client Sample Results

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

Job ID: 240-148877-1

**Client Sample ID: MW-07\_050521**

**Lab Sample ID: 240-148877-4**

Date Collected: 05/05/21 13:50

Matrix: Water

Date Received: 05/07/21 08:00

**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			05/11/21 19:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		70 - 133		05/11/21 19:12	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			05/17/21 11:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/17/21 11:57	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/17/21 11:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/17/21 11:57	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/17/21 11:57	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/17/21 11:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		75 - 130		05/17/21 11:57	1
4-Bromofluorobenzene (Surr)	65		47 - 134		05/17/21 11:57	1
Toluene-d8 (Surr)	83		69 - 122		05/17/21 11:57	1
Dibromofluoromethane (Surr)	107		78 - 129		05/17/21 11:57	1

# Client Sample Results

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

Job ID: 240-148877-1

**Client Sample ID: MW-01\_050521**

**Lab Sample ID: 240-148877-5**

**Date Collected: 05/05/21 15:15**

**Matrix: Water**

**Date Received: 05/07/21 08:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	4.0	U	4.0	1.7	ug/L			05/11/21 19:37	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		70 - 133		05/11/21 19:37	2

**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			05/17/21 12:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/17/21 12:19	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/17/21 12:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/17/21 12:19	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/17/21 12:19	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/17/21 12:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 130		05/17/21 12:19	1
4-Bromofluorobenzene (Surr)	67		47 - 134		05/17/21 12:19	1
Toluene-d8 (Surr)	81		69 - 122		05/17/21 12:19	1
Dibromofluoromethane (Surr)	108		78 - 129		05/17/21 12:19	1

# Surrogate Summary

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

Job ID: 240-148877-1

## 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)
240-148877-1	TRIP BLANK_06	109	65	82	105
240-148877-2	MW-14_050521	108	66	80	105
240-148877-3	MW-09_050521	109	65	83	103
240-148877-4	MW-07_050521	111	65	83	107
240-148877-5	MW-01_050521	113	67	81	108
LCS 240-486030/4	Lab Control Sample	90	96	92	89
MB 240-486030/7	Method Blank	106	69	81	101

### 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)
240-148877-2	MW-14_050521	80
240-148877-3	MW-09_050521	84
240-148877-4	MW-07_050521	85
240-148877-5	MW-01_050521	85
240-149041-H-2 MS	Matrix Spike	83
240-149041-N-2 MSD	Matrix Spike Duplicate	82
LCS 240-485164/4	Lab Control Sample	81
MB 240-485164/5	Method Blank	81

### Surrogate Legend

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

# QC Sample Results

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

Job ID: 240-148877-1

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

**Lab Sample ID: MB 240-486030/7**  
**Matrix: Water**  
**Analysis Batch: 486030**

**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			05/17/21 09:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/17/21 09:46	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/17/21 09:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/17/21 09:46	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/17/21 09:46	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/17/21 09:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		75 - 130		05/17/21 09:46	1
4-Bromofluorobenzene (Surr)	69		47 - 134		05/17/21 09:46	1
Toluene-d8 (Surr)	81		69 - 122		05/17/21 09:46	1
Dibromofluoromethane (Surr)	101		78 - 129		05/17/21 09:46	1

**Lab Sample ID: LCS 240-486030/4**  
**Matrix: Water**  
**Analysis Batch: 486030**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	9.38		ug/L		94	73 - 129
cis-1,2-Dichloroethene	10.0	9.75		ug/L		98	75 - 124
Tetrachloroethene	10.0	9.85		ug/L		98	70 - 125
trans-1,2-Dichloroethene	10.0	10.3		ug/L		103	74 - 130
Trichloroethene	10.0	9.20		ug/L		92	71 - 121
Vinyl chloride	10.0	10.9		ug/L		109	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		75 - 130
4-Bromofluorobenzene (Surr)	96		47 - 134
Toluene-d8 (Surr)	92		69 - 122
Dibromofluoromethane (Surr)	89		78 - 129

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

**Lab Sample ID: MB 240-485164/5**  
**Matrix: Water**  
**Analysis Batch: 485164**

**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			05/11/21 14:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		70 - 133		05/11/21 14:15	1

# QC Sample Results

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

Job ID: 240-148877-1

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

**Lab Sample ID: LCS 240-485164/4**  
**Matrix: Water**  
**Analysis Batch: 485164**

**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	10.5		ug/L		105	80 - 135
<b>Surrogate</b>							
	%Recovery	LCS Qualifier	LCS Limits				
1,2-Dichloroethane-d4 (Surr)	81		70 - 133				

**Lab Sample ID: 240-149041-H-2 MS**  
**Matrix: Water**  
**Analysis Batch: 485164**

**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	10.1		ug/L		101	46 - 170
<b>Surrogate</b>									
	%Recovery	MS Qualifier	MS Limits						
1,2-Dichloroethane-d4 (Surr)	83		70 - 133						

**Lab Sample ID: 240-149041-N-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 485164**

**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	10.0		ug/L		100	46 - 170	1	26
<b>Surrogate</b>											
	%Recovery	MSD Qualifier	MSD Limits								
1,2-Dichloroethane-d4 (Surr)	82		70 - 133								

# QC Association Summary

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

Job ID: 240-148877-1

## GC/MS VOA

### Analysis Batch: 485164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-148877-2	MW-14_050521	Total/NA	Water	8260B SIM	
240-148877-3	MW-09_050521	Total/NA	Water	8260B SIM	
240-148877-4	MW-07_050521	Total/NA	Water	8260B SIM	
240-148877-5	MW-01_050521	Total/NA	Water	8260B SIM	
MB 240-485164/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-485164/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-149041-H-2 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-149041-N-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

### Analysis Batch: 486030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-148877-1	TRIP BLANK_06	Total/NA	Water	8260B	
240-148877-2	MW-14_050521	Total/NA	Water	8260B	
240-148877-3	MW-09_050521	Total/NA	Water	8260B	
240-148877-4	MW-07_050521	Total/NA	Water	8260B	
240-148877-5	MW-01_050521	Total/NA	Water	8260B	
MB 240-486030/7	Method Blank	Total/NA	Water	8260B	
LCS 240-486030/4	Lab Control Sample	Total/NA	Water	8260B	



# Lab Chronicle

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

Job ID: 240-148877-1

## Client Sample ID: TRIP BLANK\_06

Lab Sample ID: 240-148877-1

Date Collected: 05/05/21 00:00

Matrix: Water

Date Received: 05/07/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	486030	05/17/21 10:52	LEE	TAL CAN

## Client Sample ID: MW-14\_050521

Lab Sample ID: 240-148877-2

Date Collected: 05/05/21 11:35

Matrix: Water

Date Received: 05/07/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	486030	05/17/21 11:14	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	485164	05/11/21 18:23	CS	TAL CAN

## Client Sample ID: MW-09\_050521

Lab Sample ID: 240-148877-3

Date Collected: 05/05/21 12:40

Matrix: Water

Date Received: 05/07/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	486030	05/17/21 11:35	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	485164	05/11/21 18:48	CS	TAL CAN

## Client Sample ID: MW-07\_050521

Lab Sample ID: 240-148877-4

Date Collected: 05/05/21 13:50

Matrix: Water

Date Received: 05/07/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	486030	05/17/21 11:57	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	485164	05/11/21 19:12	CS	TAL CAN

## Client Sample ID: MW-01\_050521

Lab Sample ID: 240-148877-5

Date Collected: 05/05/21 15:15

Matrix: Water

Date Received: 05/07/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	486030	05/17/21 12:19	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		2	485164	05/11/21 19:37	CS	TAL CAN

### Laboratory References:

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

# Accreditation/Certification Summary

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

Job ID: 240-148877-1

## 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	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-22
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	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
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	01-12-22
West Virginia DEP	State	210	12-31-21

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



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

Regulatory program:  DW  NPDES  RCRA  Other

Client Contact

Company Name: Arcadis

Address: 28550 Cabot Drive, Suite 500

City/State/Zip: Novi, MI, 48377

Phone: 248-994-2240

Project Name: Ford LTP On-Site

Project Number: 30080642.401.03

PO # 30080642.401.03

Client Project Manager: Kris Hinskey  
 Telephone: 248-994-2240  
 Email: kris@hinskey.com

Site Contact: Julia McClafferty  
 Telephone: 734-644-5131

Lab Contact: Mike DelMonico  
 Telephone: 330-497-9396

Company: TestAmerica Laboratories, Inc.  
 COC No: 1 of 1 COCs

Analyses Turnaround Time  
 TAT if different from below  
 10 day  3 weeks  2 weeks  1 week  2 days  1 day

Sampler Name: CHRISTINA WEAVER  
 Method of Shipment/Carrier:  
 Shipping/Tracking No:

Sample Identification	Sample Date	Sample Time	Matrix				Containers & Preservatives				Filtered Sample (Y/N)	Composite=C / Grab=C	1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B	Vinyl Chloride 8260B	1,4-Dioxane 8260B SIM	Sample Specific Notes / Special Instructions:
			Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl										
TRIP BLANK_06	---	---	X																	1 Trip Blank
MW-14-050521	5/5/21	1135	X																	3 VOAs for 8260B 3 VOAs for 8260B SIM
MW-09-050521	5/5/21	1240	X																	" "
MW-07-050521	5/5/21	1350	X																	" "
MW-01-050521	5/5/21	1515	X																	" "

Barcode: 240-148877 Chain of Custody

Possible Hazard Identification  
 Non-Hazard  Irritant  Poison B  Unknown

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

Special Instructions/QC Requirements & Comments:

Submit all results through Cadena at jtormalia@cadenaco.com. Cadena #E203728  
 Level IV Reporting requested.

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Christina Weaver	ARCADIS	5/5/2021/1630	NOVI COOL STORAGE	ARCADIS	5/5/21/1630
Julia McClafferty	Arcadis	5/6/21 950	Received by:	Company:	ETA
Christina Weaver	ETA	5/6/21 1507	Received in Laboratory by:	Company:	TA

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

Login # : 18677


Client ARCADIS Site Name \_\_\_\_\_  
Cooler Received on 5-7-21 Opened on 5-7-21  
FedEx: 1<sup>st</sup> Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other \_\_\_\_\_

Cooler unpacked by:



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 +0.1 °C) Observed Cooler Temp. 23 °C Corrected Cooler Temp. 2.4 °C  
IR GUN #IR-12 (CF +0.2°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 (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (YN), # of containers (YN), and sample type of grab/comp(YN)?
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  
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# HC022887
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials?  ← Larger than this. Yes No NA
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

Tests that are not checked for pH by Receiving:  
VOAs  
Oil and Grease  
TOC

Contacted PM \_\_\_\_\_ Date \_\_\_\_\_ by \_\_\_\_\_ via Verbal Voice Mail Other \_\_\_\_\_

Concerning \_\_\_\_\_

**18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES**  additional next page

Samples processed by:

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