

## ANALYTICAL REPORT

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

Laboratory Job ID: 240-144584-1  
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:  
3/3/2021 10:37:19 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 - On Site

Job ID: 240-144584-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

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

# Case Narrative

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

Job ID: 240-144584-1

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**Job ID: 240-144584-1**

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**Laboratory: Eurofins TestAmerica, Canton**

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**Narrative**

**Job Narrative  
240-144584-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 2/17/2021 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 0.9° C.

**GC/MS VOA**

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

**VOA Prep**

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

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# Method Summary

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

Job ID: 240-144584-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
5030B	Purge and Trap	SW846	TAL CAN

**Protocol References:**

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

**Laboratory References:**

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

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# Sample Summary

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

Job ID: 240-144584-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-144584-1	TRIP BLANK	Water	02/13/21 00:00	02/17/21 08:00	
240-144584-2	MW-15-61D_021321	Water	02/13/21 09:43	02/17/21 08:00	
240-144584-3	MW-42_021321	Water	02/13/21 11:17	02/17/21 08:00	
240-144584-4	MW-211S_021321	Water	02/13/21 12:53	02/17/21 08:00	
240-144584-5	MW-35_021321	Water	02/13/21 14:18	02/17/21 08:00	
240-144584-6	MW-212S_021321	Water	02/13/21 15:13	02/17/21 08:00	

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# Detection Summary

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

Job ID: 240-144584-1

## Client Sample ID: TRIP BLANK

Lab Sample ID: 240-144584-1

No Detections.

## Client Sample ID: MW-15-61D\_021321

Lab Sample ID: 240-144584-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.42	J	1.0	0.16	ug/L	1		8260B	Total/NA

## Client Sample ID: MW-42\_021321

Lab Sample ID: 240-144584-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.96	J	2.0	0.86	ug/L	1		8260B SIM	Total/NA
Vinyl chloride	0.59	J	1.0	0.20	ug/L	1		8260B	Total/NA

## Client Sample ID: MW-211S\_021321

Lab Sample ID: 240-144584-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.16	J	1.0	0.16	ug/L	1		8260B	Total/NA
Trichloroethene	0.45	J	1.0	0.10	ug/L	1		8260B	Total/NA

## Client Sample ID: MW-35\_021321

Lab Sample ID: 240-144584-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	3.9		2.0	0.86	ug/L	1		8260B SIM	Total/NA
Vinyl chloride	1.2		1.0	0.20	ug/L	1		8260B	Total/NA

## Client Sample ID: MW-212S\_021321

Lab Sample ID: 240-144584-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.9		1.0	0.16	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.27	J	1.0	0.19	ug/L	1		8260B	Total/NA
Trichloroethene	0.13	J	1.0	0.10	ug/L	1		8260B	Total/NA
Vinyl chloride	0.40	J	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 - On Site

Job ID: 240-144584-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 240-144584-1**

**Date Collected: 02/13/21 00:00**

**Matrix: Water**

**Date Received: 02/17/21 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			02/25/21 17:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/25/21 17:08	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/25/21 17:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/25/21 17:08	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/25/21 17:08	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/25/21 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 130		02/25/21 17:08	1
4-Bromofluorobenzene (Surr)	86		47 - 134		02/25/21 17:08	1
Toluene-d8 (Surr)	96		69 - 122		02/25/21 17:08	1
Dibromofluoromethane (Surr)	89		78 - 129		02/25/21 17:08	1



# Client Sample Results

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

Job ID: 240-144584-1

**Client Sample ID: MW-15-61D\_021321**

**Lab Sample ID: 240-144584-2**

Date Collected: 02/13/21 09:43

Matrix: Water

Date Received: 02/17/21 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			02/23/21 22:46	1
<b>Surrogate</b>									
	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 133					02/23/21 22:46	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			02/25/21 17:30	1
<b>cis-1,2-Dichloroethene</b>	<b>0.42</b>	<b>J</b>	1.0	0.16	ug/L			02/25/21 17:30	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/25/21 17:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/25/21 17:30	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/25/21 17:30	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/25/21 17:30	1
<b>Surrogate</b>									
	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		75 - 130					02/25/21 17:30	1
4-Bromofluorobenzene (Surr)	81		47 - 134					02/25/21 17:30	1
Toluene-d8 (Surr)	91		69 - 122					02/25/21 17:30	1
Dibromofluoromethane (Surr)	95		78 - 129					02/25/21 17:30	1

# Client Sample Results

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

Job ID: 240-144584-1

**Client Sample ID: MW-42\_021321**

**Lab Sample ID: 240-144584-3**

Date Collected: 02/13/21 11:17

Matrix: Water

Date Received: 02/17/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.96	J	2.0	0.86	ug/L			02/24/21 11:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		70 - 133		02/24/21 11:51	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/25/21 17:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/25/21 17:52	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/25/21 17:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/25/21 17:52	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/25/21 17:52	1
Vinyl chloride	0.59	J	1.0	0.20	ug/L			02/25/21 17:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 130		02/25/21 17:52	1
4-Bromofluorobenzene (Surr)	85		47 - 134		02/25/21 17:52	1
Toluene-d8 (Surr)	98		69 - 122		02/25/21 17:52	1
Dibromofluoromethane (Surr)	95		78 - 129		02/25/21 17:52	1

# Client Sample Results

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

Job ID: 240-144584-1

**Client Sample ID: MW-211S\_021321**

**Lab Sample ID: 240-144584-4**

Date Collected: 02/13/21 12:53

Matrix: Water

Date Received: 02/17/21 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			02/23/21 23:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		70 - 133					02/23/21 23:11	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			02/25/21 18:59	1
<b>cis-1,2-Dichloroethene</b>	<b>0.16</b>	<b>J</b>	1.0	0.16	ug/L			02/25/21 18:59	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/25/21 18:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/25/21 18:59	1
<b>Trichloroethene</b>	<b>0.45</b>	<b>J</b>	1.0	0.10	ug/L			02/25/21 18:59	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/25/21 18:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		75 - 130					02/25/21 18:59	1
4-Bromofluorobenzene (Surr)	88		47 - 134					02/25/21 18:59	1
Toluene-d8 (Surr)	99		69 - 122					02/25/21 18:59	1
Dibromofluoromethane (Surr)	96		78 - 129					02/25/21 18:59	1

# Client Sample Results

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

Job ID: 240-144584-1

**Client Sample ID: MW-35\_021321**

**Lab Sample ID: 240-144584-5**

Date Collected: 02/13/21 14:18

Matrix: Water

Date Received: 02/17/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.9		2.0	0.86	ug/L			02/24/21 13:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		70 - 133		02/24/21 13:07	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/25/21 19:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/25/21 19:22	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/25/21 19:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/25/21 19:22	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/25/21 19:22	1
Vinyl chloride	1.2		1.0	0.20	ug/L			02/25/21 19:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		75 - 130		02/25/21 19:22	1
4-Bromofluorobenzene (Surr)	82		47 - 134		02/25/21 19:22	1
Toluene-d8 (Surr)	95		69 - 122		02/25/21 19:22	1
Dibromofluoromethane (Surr)	92		78 - 129		02/25/21 19:22	1

# Client Sample Results

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

Job ID: 240-144584-1

**Client Sample ID: MW-212S\_021321**

**Lab Sample ID: 240-144584-6**

Date Collected: 02/13/21 15:13

Matrix: Water

Date Received: 02/17/21 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			02/24/21 13:32	1
<b>Surrogate</b>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		70 - 133					02/24/21 13:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/25/21 19:44	1
<b>cis-1,2-Dichloroethene</b>	<b>1.9</b>		1.0	0.16	ug/L			02/25/21 19:44	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/25/21 19:44	1
<b>trans-1,2-Dichloroethene</b>	<b>0.27</b>	<b>J</b>	1.0	0.19	ug/L			02/25/21 19:44	1
<b>Trichloroethene</b>	<b>0.13</b>	<b>J</b>	1.0	0.10	ug/L			02/25/21 19:44	1
<b>Vinyl chloride</b>	<b>0.40</b>	<b>J</b>	1.0	0.20	ug/L			02/25/21 19:44	1
<b>Surrogate</b>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 130					02/25/21 19:44	1
4-Bromofluorobenzene (Surr)	87		47 - 134					02/25/21 19:44	1
Toluene-d8 (Surr)	98		69 - 122					02/25/21 19:44	1
Dibromofluoromethane (Surr)	101		78 - 129					02/25/21 19:44	1

# Surrogate Summary

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

Job ID: 240-144584-1

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (75-130)	BFB (47-134)	TOL (69-122)	DBFM (78-129)
240-144584-1	TRIP BLANK	98	86	96	89
240-144584-2	MW-15-61D_021321	97	81	91	95
240-144584-3	MW-42_021321	98	85	98	95
240-144584-3 MS	MW-42-MS_021321	91	86	92	92
240-144584-3 MSD	MW-42-MSD_021321	100	96	99	91
240-144584-4	MW-211S_021321	99	88	99	96
240-144584-5	MW-35_021321	94	82	95	92
240-144584-6	MW-212S_021321	104	87	98	101
LCS 240-474477/4	Lab Control Sample	97	91	100	96
MB 240-474477/6	Method Blank	88	78	90	84

#### 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)
240-144583-A-3 MS	Matrix Spike	84
240-144583-A-3 MSD	Matrix Spike Duplicate	84
240-144584-2	MW-15-61D_021321	97
240-144584-3	MW-42_021321	80
240-144584-3 MS	MW-42-MS_021321	81
240-144584-3 MSD	MW-42-MSD_021321	82
240-144584-4	MW-211S_021321	82
240-144584-5	MW-35_021321	81
240-144584-6	MW-212S_021321	81
LCS 240-474127/4	Lab Control Sample	79
LCS 240-474283/4	Lab Control Sample	84
MB 240-474127/5	Method Blank	83
MB 240-474283/5	Method Blank	86

#### Surrogate Legend

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

# QC Sample Results

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

Job ID: 240-144584-1

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

**Lab Sample ID: MB 240-474477/6**  
**Matrix: Water**  
**Analysis Batch: 474477**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/25/21 12:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/25/21 12:19	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/25/21 12:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/25/21 12:19	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/25/21 12:19	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/25/21 12:19	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		75 - 130		02/25/21 12:19	1
4-Bromofluorobenzene (Surr)	78		47 - 134		02/25/21 12:19	1
Toluene-d8 (Surr)	90		69 - 122		02/25/21 12:19	1
Dibromofluoromethane (Surr)	84		78 - 129		02/25/21 12:19	1

**Lab Sample ID: LCS 240-474477/4**  
**Matrix: Water**  
**Analysis Batch: 474477**

**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	10.6		ug/L		106	73 - 129
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	75 - 124
Tetrachloroethene	10.0	12.0		ug/L		120	70 - 125
trans-1,2-Dichloroethene	10.0	10.4		ug/L		104	74 - 130
Trichloroethene	10.0	10.4		ug/L		104	71 - 121
Vinyl chloride	10.0	10.6		ug/L		106	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		75 - 130
4-Bromofluorobenzene (Surr)	91		47 - 134
Toluene-d8 (Surr)	100		69 - 122
Dibromofluoromethane (Surr)	96		78 - 129

**Lab Sample ID: 240-144584-3 MS**  
**Matrix: Water**  
**Analysis Batch: 474477**

**Client Sample ID: MW-42-MS\_021321**  
**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	8.35		ug/L		84	64 - 132
cis-1,2-Dichloroethene	1.0	U	10.0	8.68		ug/L		87	68 - 121
Tetrachloroethene	1.0	U	10.0	8.69		ug/L		87	52 - 129
trans-1,2-Dichloroethene	1.0	U	10.0	8.43		ug/L		84	69 - 126
Trichloroethene	1.0	U	10.0	8.68		ug/L		87	56 - 124
Vinyl chloride	0.59	J	10.0	9.87		ug/L		93	49 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	91		75 - 130
4-Bromofluorobenzene (Surr)	86		47 - 134
Toluene-d8 (Surr)	92		69 - 122

# QC Sample Results

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

Job ID: 240-144584-1

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

Lab Sample ID: 240-144584-3 MS  
Matrix: Water  
Analysis Batch: 474477

Client Sample ID: MW-42-MS\_021321  
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	92		78 - 129

Lab Sample ID: 240-144584-3 MSD  
Matrix: Water  
Analysis Batch: 474477

Client Sample ID: MW-42-MSD\_021321  
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	9.38		ug/L		94	64 - 132	12	35
cis-1,2-Dichloroethene	1.0	U	10.0	9.35		ug/L		94	68 - 121	7	35
Tetrachloroethene	1.0	U	10.0	9.52		ug/L		95	52 - 129	9	35
trans-1,2-Dichloroethene	1.0	U	10.0	9.07		ug/L		91	69 - 126	7	35
Trichloroethene	1.0	U	10.0	9.83		ug/L		98	56 - 124	12	35
Vinyl chloride	0.59	J	10.0	10.1		ug/L		95	49 - 136	2	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		75 - 130
4-Bromofluorobenzene (Surr)	96		47 - 134
Toluene-d8 (Surr)	99		69 - 122
Dibromofluoromethane (Surr)	91		78 - 129

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

Lab Sample ID: MB 240-474127/5  
Matrix: Water  
Analysis Batch: 474127

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/23/21 13:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		70 - 133		02/23/21 13:30	1

Lab Sample ID: LCS 240-474127/4  
Matrix: Water  
Analysis Batch: 474127

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	10.0	10.8		ug/L		108	80 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	79		70 - 133

Lab Sample ID: 240-144583-A-3 MS  
Matrix: Water  
Analysis Batch: 474127

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	10.9		ug/L		109	46 - 170

Eurofins TestAmerica, Canton



# QC Sample Results

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

Job ID: 240-144584-1

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

	<i>MS</i>	<i>MS</i>	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	84		70 - 133

**Lab Sample ID: 240-144583-A-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 474127**

**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	10.7		ug/L		107	46 - 170	2	26

	<i>MSD</i>	<i>MSD</i>	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	84		70 - 133

**Lab Sample ID: MB 240-474283/5**  
**Matrix: Water**  
**Analysis Batch: 474283**

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

<i>Analyte</i>	<i>MB Result</i>	<i>MB Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			02/24/21 11:01	1

	<i>MB</i>	<i>MB</i>		<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>			
1,2-Dichloroethane-d4 (Surr)	86		70 - 133		02/24/21 11:01	1

**Lab Sample ID: LCS 240-474283/4**  
**Matrix: Water**  
**Analysis Batch: 474283**

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

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>
1,4-Dioxane	10.0	10.5		ug/L		105	80 - 135

	<i>LCS</i>	<i>LCS</i>	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	84		70 - 133

**Lab Sample ID: 240-144584-3 MS**  
**Matrix: Water**  
**Analysis Batch: 474283**

**Client Sample ID: MW-42-MS\_021321**  
**Prep Type: Total/NA**

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MS Result</i>	<i>MS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>
1,4-Dioxane	0.96	J	10.0	10.8		ug/L		98	46 - 170

	<i>MS</i>	<i>MS</i>	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	81		70 - 133

**Lab Sample ID: 240-144584-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 474283**

**Client Sample ID: MW-42-MSD\_021321**  
**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	0.96	J	10.0	11.0		ug/L		101	46 - 170	2	26

# QC Sample Results

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

Job ID: 240-144584-1

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

Lab Sample ID: 240-144584-3 MSD  
Matrix: Water  
Analysis Batch: 474283

Client Sample ID: MW-42-MSD\_021321  
Prep Type: Total/NA

<i>Surrogate</i>	<i>MSD</i>	<i>MSD</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
1,2-Dichloroethane-d4 (Surr)	82		70 - 133

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

# QC Association Summary

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

Job ID: 240-144584-1

## GC/MS VOA

### Analysis Batch: 474127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-144584-2	MW-15-61D_021321	Total/NA	Water	8260B SIM	
240-144584-4	MW-211S_021321	Total/NA	Water	8260B SIM	
MB 240-474127/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-474127/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-144583-A-3 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-144583-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

### Analysis Batch: 474283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-144584-3	MW-42_021321	Total/NA	Water	8260B SIM	
240-144584-5	MW-35_021321	Total/NA	Water	8260B SIM	
240-144584-6	MW-212S_021321	Total/NA	Water	8260B SIM	
MB 240-474283/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-474283/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-144584-3 MS	MW-42-MS_021321	Total/NA	Water	8260B SIM	
240-144584-3 MSD	MW-42-MSD_021321	Total/NA	Water	8260B SIM	

### Analysis Batch: 474477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-144584-1	TRIP BLANK	Total/NA	Water	8260B	
240-144584-2	MW-15-61D_021321	Total/NA	Water	8260B	
240-144584-3	MW-42_021321	Total/NA	Water	8260B	
240-144584-4	MW-211S_021321	Total/NA	Water	8260B	
240-144584-5	MW-35_021321	Total/NA	Water	8260B	
240-144584-6	MW-212S_021321	Total/NA	Water	8260B	
MB 240-474477/6	Method Blank	Total/NA	Water	8260B	
LCS 240-474477/4	Lab Control Sample	Total/NA	Water	8260B	
240-144584-3 MS	MW-42-MS_021321	Total/NA	Water	8260B	
240-144584-3 MSD	MW-42-MSD_021321	Total/NA	Water	8260B	

# Lab Chronicle

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

Job ID: 240-144584-1

## Client Sample ID: TRIP BLANK

Lab Sample ID: 240-144584-1

Date Collected: 02/13/21 00:00

Matrix: Water

Date Received: 02/17/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474477	02/25/21 17:08	LEE	TAL CAN

## Client Sample ID: MW-15-61D\_021321

Lab Sample ID: 240-144584-2

Date Collected: 02/13/21 09:43

Matrix: Water

Date Received: 02/17/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474477	02/25/21 17:30	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	474127	02/23/21 22:46	SAM	TAL CAN

## Client Sample ID: MW-42\_021321

Lab Sample ID: 240-144584-3

Date Collected: 02/13/21 11:17

Matrix: Water

Date Received: 02/17/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474477	02/25/21 17:52	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	474283	02/24/21 11:51	SAM	TAL CAN

## Client Sample ID: MW-211S\_021321

Lab Sample ID: 240-144584-4

Date Collected: 02/13/21 12:53

Matrix: Water

Date Received: 02/17/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474477	02/25/21 18:59	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	474127	02/23/21 23:11	SAM	TAL CAN

## Client Sample ID: MW-35\_021321

Lab Sample ID: 240-144584-5

Date Collected: 02/13/21 14:18

Matrix: Water

Date Received: 02/17/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474477	02/25/21 19:22	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	474283	02/24/21 13:07	SAM	TAL CAN

## Client Sample ID: MW-212S\_021321

Lab Sample ID: 240-144584-6

Date Collected: 02/13/21 15:13

Matrix: Water

Date Received: 02/17/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474477	02/25/21 19:44	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	474283	02/24/21 13:32	SAM	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 - On Site

Job ID: 240-144584-1

## Laboratory: Eurofins TestAmerica, Canton

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-21 *
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21 *
Illinois	NELAP	004498	07-31-21
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21 *
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21
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.



# Chain of Custody Record

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

Regulatory program:  DW  NPDES  RCRA  Other

Client Contact: Arcadis  
 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: 30050315.401.03  
 PO # 30050315.401.03

Client Project Manager: Kris Hinskey  
 Telephone: 248-994-2240  
 Email: kristoff.hinskey@arcadis.com  
 Site Contact: Julia McClafferty  
 Telephone: 734-644-5131

Sampler Name: Julia McClafferty  
 Method of Shipment/Carrier:  
 Shipping/Tracking No:

Sample Identification	Sample Date	Sample Time	Matrix				Containers & Preservatives				Filtered Sample (Y/N)	Composite=C / Grab=G	Analyses						Sample Specific Notes / Special Instructions:				
			Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl			NaOH	ZnAc	Unpres	Other:	1-DCE 8260B	cis-1,2-DCE 8260B		Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B	Vinyl Chloride 8260B
TRIP BLANK	2/13/21	---	X																				trip blank
MW-15-61D-021321	2/13/21	0943	X																				3 VOAS for 8260B 3 VOAS for 8260B SIM
MW-42-021321		1117	X																				
MW-42-MS-021321		1117	X																				Run MS/MSD
MW-42-MSD-021321		1117	X																				↓
MW-211S-021321		1253	X																				
MW-35-021321		1418	X																				
MW-212S-021321		1513	X																				

Possible Hazard Identification:  Non-Hazardous  Irritant  Unknown

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

Relinquished by: Julia McClafferty  
 Date/Time: 2/13/2021/1650  
 Company: Arcadis

Relinquished by: Amanda Battenbury  
 Date/Time: 2/15/21/1010  
 Company: ARCADIS

Relinquished by: Amanda Battenbury  
 Date/Time: 2/15/21/1057  
 Company: ETA

Received by: Novis Cold Storage  
 Date/Time: 2/15/21/10:57  
 Company: ETA

Received in Laboratory by: Amanda Battenbury  
 Date/Time: 2/15/21/10:57  
 Company: ETA

240-144584 Chain of Custody



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

Login # : 144584

Client Arcadis Site Name \_\_\_\_\_  
 Cooler Received on 2-17-21 Opened on 2-17-21  
 FedEx: 1<sup>st</sup> Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other \_\_\_\_\_

Cooler unpacked by:  
Math Snijder

**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. 2.8 °C Corrected Cooler Temp. 2.9 °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 \_\_\_\_\_ 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

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

3. Shippers' packing slip attached to the cooler(s)?  Yes No  
 4. Did custody papers accompany the sample(s)?  Yes No  
 5. Were the custody papers relinquished & signed in the appropriate place?  Yes No  
 6. Was/were the person(s) who collected the samples clearly identified on the COC?  Yes No  
 7. Did all bottles arrive in good condition (Unbroken)?  Yes No  
 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?  Yes No  
 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?  Yes No  
 10. Were correct bottle(s) used for the test(s) indicated?  Yes No  
 11. Sufficient quantity received to perform indicated analyses?  Yes No  
 12. Are these work share samples and all listed on the COC?  Yes No

If yes, Questions 13-17 have been checked at the originating laboratory.  
 13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC907861  
 14. Were VOAs on the COC?  Yes No  
 15. Were air bubbles >6 mm in any VOA vials?  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

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: \_\_\_\_\_