

## ANALYTICAL REPORT

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

Laboratory Job ID: 240-159639-1  
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:  
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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: 240-159639-1

## 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: 240-159639-1

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## Job ID: 240-159639-1

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Laboratory: Eurofins TestAmerica, Canton

### Narrative

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#### Job Narrative 240-159639-1

### Comments

No additional comments.

### Receipt

The samples were received on 11/9/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.7° C and 3.8° C.

### GC/MS VOA

Method 8260B SIM: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-01\_110521 (240-159639-4). 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: 240-159639-1

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

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

# Sample Summary

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

Job ID: 240-159639-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-159639-1	TRIP BLANK_55	Water	11/05/21 00:00	11/09/21 10:00
240-159639-2	MW-222S_110521	Water	11/05/21 09:36	11/09/21 10:00
240-159639-3	MW-07_110521	Water	11/05/21 11:03	11/09/21 10:00
240-159639-4	MW-01_110521	Water	11/05/21 12:43	11/09/21 10:00

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- 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: 240-159639-1

**Client Sample ID: TRIP BLANK\_55**

**Lab Sample ID: 240-159639-1**

No Detections.

**Client Sample ID: MW-222S\_110521**

**Lab Sample ID: 240-159639-2**

No Detections.

**Client Sample ID: MW-07\_110521**

**Lab Sample ID: 240-159639-3**

No Detections.

**Client Sample ID: MW-01\_110521**

**Lab Sample ID: 240-159639-4**

No Detections.

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

This Detection Summary does not include radiochemical test results.

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# Client Sample Results

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

Job ID: 240-159639-1

**Client Sample ID: TRIP BLANK\_55**

**Lab Sample ID: 240-159639-1**

**Date Collected: 11/05/21 00:00**

**Matrix: Water**

**Date Received: 11/09/21 10:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/17/21 01:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/17/21 01:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/17/21 01:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/17/21 01:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/17/21 01:58	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/17/21 01:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137		11/17/21 01:58	1
4-Bromofluorobenzene (Surr)	77		56 - 136		11/17/21 01:58	1
Toluene-d8 (Surr)	105		78 - 122		11/17/21 01:58	1
Dibromofluoromethane (Surr)	96		73 - 120		11/17/21 01:58	1



# Client Sample Results

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

Job ID: 240-159639-1

**Client Sample ID: MW-222S\_110521**

**Lab Sample ID: 240-159639-2**

Date Collected: 11/05/21 09:36

Matrix: Water

Date Received: 11/09/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/17/21 05:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		66 - 120					11/17/21 05:21	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	0.49	ug/L			11/17/21 02:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/17/21 02:20	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/17/21 02:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/17/21 02:20	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/17/21 02:20	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/17/21 02:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		62 - 137					11/17/21 02:20	1
4-Bromofluorobenzene (Surr)	72		56 - 136					11/17/21 02:20	1
Toluene-d8 (Surr)	94		78 - 122					11/17/21 02:20	1
Dibromofluoromethane (Surr)	90		73 - 120					11/17/21 02:20	1

# Client Sample Results

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

Job ID: 240-159639-1

**Client Sample ID: MW-07\_110521**

**Lab Sample ID: 240-159639-3**

Date Collected: 11/05/21 11:03

Matrix: Water

Date Received: 11/09/21 10:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/17/21 05:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		66 - 120		11/17/21 05:46	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	0.49	ug/L			11/17/21 02:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/17/21 02:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/17/21 02:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/17/21 02:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/17/21 02:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/17/21 02:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		62 - 137		11/17/21 02:43	1
4-Bromofluorobenzene (Surr)	88		56 - 136		11/17/21 02:43	1
Toluene-d8 (Surr)	113		78 - 122		11/17/21 02:43	1
Dibromofluoromethane (Surr)	102		73 - 120		11/17/21 02:43	1

# Client Sample Results

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

Job ID: 240-159639-1

**Client Sample ID: MW-01\_110521**

**Lab Sample ID: 240-159639-4**

Date Collected: 11/05/21 12:43

Matrix: Water

Date Received: 11/09/21 10:00

**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			11/16/21 20:36	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		66 - 120		11/16/21 20:36	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	0.49	ug/L			11/17/21 03:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/17/21 03:05	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/17/21 03:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/17/21 03:05	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/17/21 03:05	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/17/21 03:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		62 - 137		11/17/21 03:05	1
4-Bromofluorobenzene (Surr)	80		56 - 136		11/17/21 03:05	1
Toluene-d8 (Surr)	109		78 - 122		11/17/21 03:05	1
Dibromofluoromethane (Surr)	97		73 - 120		11/17/21 03:05	1

# Surrogate Summary

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

Job ID: 240-159639-1

## 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 (62-137)	BFB (56-136)	TOL (78-122)	DBFM (73-120)
240-159639-1	TRIP BLANK_55	97	77	105	96
240-159639-2	MW-222S_110521	91	72	94	90
240-159639-3	MW-07_110521	100	88	113	102
240-159639-4	MW-01_110521	97	80	109	97
240-159642-E-3 MS	Matrix Spike	93	86	109	94
240-159642-J-3 MSD	Matrix Spike Duplicate	93	89	108	93
LCS 240-513243/4	Lab Control Sample	88	82	102	89
MB 240-513243/6	Method Blank	91	80	107	95

#### Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)  
BFB = 4-Bromofluorobenzene (Surr)  
TOL = Toluene-d8 (Surr)  
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA
		(66-120)
240-159546-G-2 MS	Matrix Spike	82
240-159546-M-2 MSD	Matrix Spike Duplicate	85
240-159639-2	MW-222S_110521	87
240-159639-3	MW-07_110521	89
240-159639-4	MW-01_110521	84
LCS 240-513286/4	Lab Control Sample	82
MB 240-513286/5	Method Blank	85

#### Surrogate Legend

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

# QC Sample Results

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

Job ID: 240-159639-1

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

**Lab Sample ID: MB 240-513243/6**  
**Matrix: Water**  
**Analysis Batch: 513243**

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/16/21 23:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/16/21 23:44	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/16/21 23:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/16/21 23:44	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/16/21 23:44	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/16/21 23:44	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	91		62 - 137		11/16/21 23:44	1
4-Bromofluorobenzene (Surr)	80		56 - 136		11/16/21 23:44	1
Toluene-d8 (Surr)	107		78 - 122		11/16/21 23:44	1
Dibromofluoromethane (Surr)	95		73 - 120		11/16/21 23:44	1

**Lab Sample ID: LCS 240-513243/4**  
**Matrix: Water**  
**Analysis Batch: 513243**

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1-Dichloroethene	10.0	10.2		ug/L		102	63 - 134
cis-1,2-Dichloroethene	10.0	10.0		ug/L		100	77 - 123
Tetrachloroethene	10.0	9.78		ug/L		98	76 - 123
trans-1,2-Dichloroethene	10.0	9.89		ug/L		99	75 - 124
Trichloroethene	10.0	8.60		ug/L		86	70 - 122
Vinyl chloride	10.0	8.42		ug/L		84	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	88		62 - 137
4-Bromofluorobenzene (Surr)	82		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	89		73 - 120

**Lab Sample ID: 240-159642-E-3 MS**  
**Matrix: Water**  
**Analysis Batch: 513243**

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

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
1,1-Dichloroethene	1.0	U	10.0	8.98		ug/L		90	56 - 135
cis-1,2-Dichloroethene	1.0	U	10.0	9.84		ug/L		98	66 - 128
Tetrachloroethene	1.0	U	10.0	8.36		ug/L		84	62 - 131
trans-1,2-Dichloroethene	1.0	U	10.0	9.16		ug/L		92	56 - 136
Trichloroethene	1.0	U	10.0	7.35		ug/L		73	61 - 124
Vinyl chloride	1.0	U	10.0	8.00		ug/L		80	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	86		56 - 136
Toluene-d8 (Surr)	109		78 - 122

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# QC Sample Results

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

Job ID: 240-159639-1

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

**Lab Sample ID: 240-159642-E-3 MS**  
**Matrix: Water**  
**Analysis Batch: 513243**

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

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	94		73 - 120

**Lab Sample ID: 240-159642-J-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 513243**

**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	9.15		ug/L		92	56 - 135	2	26
cis-1,2-Dichloroethene	1.0	U	10.0	9.13		ug/L		91	66 - 128	7	14
Tetrachloroethene	1.0	U	10.0	8.06		ug/L		81	62 - 131	4	20
trans-1,2-Dichloroethene	1.0	U	10.0	8.69		ug/L		87	56 - 136	5	15
Trichloroethene	1.0	U	10.0	7.38		ug/L		74	61 - 124	0	15
Vinyl chloride	1.0	U	10.0	9.11		ug/L		91	43 - 157	13	24

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		62 - 137
4-Bromofluorobenzene (Surr)	89		56 - 136
Toluene-d8 (Surr)	108		78 - 122
Dibromofluoromethane (Surr)	93		73 - 120

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

**Lab Sample ID: MB 240-513286/5**  
**Matrix: Water**  
**Analysis Batch: 513286**

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/16/21 19:44	1

  

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		66 - 120		11/16/21 19:44	1

**Lab Sample ID: LCS 240-513286/4**  
**Matrix: Water**  
**Analysis Batch: 513286**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	10.0	9.78		ug/L		98	80 - 122

  

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	82		66 - 120

**Lab Sample ID: 240-159546-G-2 MS**  
**Matrix: Water**  
**Analysis Batch: 513286**

**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 F1	10.0	11.0		ug/L		110	51 - 153

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# QC Sample Results

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

Job ID: 240-159639-1

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

<i>Surrogate</i>	<i>MS</i> <i>%Recovery</i>	<i>MS</i> <i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	82		66 - 120

**Lab Sample ID: 240-159546-M-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 513286**

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

<i>Analyte</i>	<i>Sample</i> <i>Result</i>	<i>Sample</i> <i>Qualifier</i>	<i>Spike</i> <i>Added</i>	<i>MSD</i> <i>Result</i>	<i>MSD</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i> <i>Limits</i>	<i>RPD</i>	<i>RPD</i> <i>Limit</i>
1,4-Dioxane	2.0	U F1	10.0	9.83		ug/L		98	51 - 153	11	16

<i>Surrogate</i>	<i>MSD</i> <i>%Recovery</i>	<i>MSD</i> <i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	85		66 - 120

- 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: 240-159639-1

## GC/MS VOA

### Analysis Batch: 513243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-159639-1	TRIP BLANK_55	Total/NA	Water	8260B	
240-159639-2	MW-222S_110521	Total/NA	Water	8260B	
240-159639-3	MW-07_110521	Total/NA	Water	8260B	
240-159639-4	MW-01_110521	Total/NA	Water	8260B	
MB 240-513243/6	Method Blank	Total/NA	Water	8260B	
LCS 240-513243/4	Lab Control Sample	Total/NA	Water	8260B	
240-159642-E-3 MS	Matrix Spike	Total/NA	Water	8260B	
240-159642-J-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

### Analysis Batch: 513286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-159639-2	MW-222S_110521	Total/NA	Water	8260B SIM	
240-159639-3	MW-07_110521	Total/NA	Water	8260B SIM	
240-159639-4	MW-01_110521	Total/NA	Water	8260B SIM	
MB 240-513286/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-513286/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-159546-G-2 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-159546-M-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	



# Lab Chronicle

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

Job ID: 240-159639-1

## Client Sample ID: TRIP BLANK\_55

Lab Sample ID: 240-159639-1

Date Collected: 11/05/21 00:00

Matrix: Water

Date Received: 11/09/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	513243	11/17/21 01:58	LEE	TAL CAN

## Client Sample ID: MW-222S\_110521

Lab Sample ID: 240-159639-2

Date Collected: 11/05/21 09:36

Matrix: Water

Date Received: 11/09/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	513243	11/17/21 02:20	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	513286	11/17/21 05:21	CS	TAL CAN

## Client Sample ID: MW-07\_110521

Lab Sample ID: 240-159639-3

Date Collected: 11/05/21 11:03

Matrix: Water

Date Received: 11/09/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	513243	11/17/21 02:43	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	513286	11/17/21 05:46	CS	TAL CAN

## Client Sample ID: MW-01\_110521

Lab Sample ID: 240-159639-4

Date Collected: 11/05/21 12:43

Matrix: Water

Date Received: 11/09/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	513243	11/17/21 03:05	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		2	513286	11/16/21 20:36	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: 240-159639-1

## 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	06-30-22
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-22
Iowa	State	421	06-01-23
Kansas	NELAP	E-10336	04-30-22
Kentucky (UST)	State	112225	02-23-22
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-22
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-18-10	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21



Eurofins TestAmerica Canton Sample Receipt Form/Narrative

Login # : 159639

Canton Facility

Client ARCADIS Site Name \_\_\_\_\_  
Cooler Received on 11-9-21 Opened on 11-9-21  
FedEx: 1<sup>st</sup> Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Cooler unpacked by: Nancy Dyer

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

TestAmerica Cooler # \_\_\_\_\_ 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 \_\_\_\_\_  
IR GUN# IR-14 (CF +0.1 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C  
IR GUN #IR-15 (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 2  
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA  
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA  
-Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No

4. Did custody papers accompany the sample(s)? Yes No

5. Were the custody papers relinquished & signed in the appropriate place? Yes No

6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No

7. Did all bottles arrive in good condition (Unbroken)? Yes No

8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No

9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?

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# HC157842

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 # 60358 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: \_\_\_\_\_

The TB is not logged for SIM due to insufficient volume per corrected COC. (me) 11/11/21

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: \_\_\_\_\_

