

## ANALYTICAL REPORT

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

Laboratory Job ID: 240-144703-1  
Client Project/Site: Ford LTP - Off Site

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

Attn: Kristoffer Hinskey



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Authorized for release by:  
3/8/2021 10:52:17 AM

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*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

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



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# Definitions/Glossary

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

Job ID: 240-144703-1

## 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 - Off Site

Job ID: 240-144703-1

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## Job ID: 240-144703-1

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Laboratory: Eurofins TestAmerica, Canton

### Narrative

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Job Narrative  
240-144703-1

### Comments

No additional comments.

### Receipt

The samples were received on 2/20/2021 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 1.7° 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 - Off Site

Job ID: 240-144703-1

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 - Off Site

Job ID: 240-144703-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-144703-1	TRIP BLANK	Water	02/18/21 00:00	02/20/21 08:00	
240-144703-2	MW-108S_021821	Water	02/18/21 13:03	02/20/21 08:00	
240-144703-3	MW-142S_021821	Water	02/18/21 15:17	02/20/21 08:00	

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# Detection Summary

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

Job ID: 240-144703-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 240-144703-1**

No Detections.

**Client Sample ID: MW-108S\_021821**

**Lab Sample ID: 240-144703-2**

No Detections.

**Client Sample ID: MW-142S\_021821**

**Lab Sample ID: 240-144703-3**

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

# Client Sample Results

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

Job ID: 240-144703-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 240-144703-1**

**Date Collected: 02/18/21 00:00**

**Matrix: Water**

**Date Received: 02/20/21 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			02/26/21 15:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/26/21 15:34	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/26/21 15:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/26/21 15:34	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/26/21 15:34	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/26/21 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 130		02/26/21 15:34	1
4-Bromofluorobenzene (Surr)	104		47 - 134		02/26/21 15:34	1
Toluene-d8 (Surr)	90		69 - 122		02/26/21 15:34	1
Dibromofluoromethane (Surr)	107		78 - 129		02/26/21 15:34	1



# Client Sample Results

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

Job ID: 240-144703-1

**Client Sample ID: MW-108S\_021821**

**Lab Sample ID: 240-144703-2**

**Date Collected: 02/18/21 13:03**

**Matrix: Water**

**Date Received: 02/20/21 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			02/26/21 14:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		70 - 133					02/26/21 14:34	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			02/26/21 15:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/26/21 15:58	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/26/21 15:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/26/21 15:58	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/26/21 15:58	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/26/21 15:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 130					02/26/21 15:58	1
4-Bromofluorobenzene (Surr)	104		47 - 134					02/26/21 15:58	1
Toluene-d8 (Surr)	91		69 - 122					02/26/21 15:58	1
Dibromofluoromethane (Surr)	108		78 - 129					02/26/21 15:58	1

# Client Sample Results

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

Job ID: 240-144703-1

**Client Sample ID: MW-142S\_021821**

**Lab Sample ID: 240-144703-3**

Date Collected: 02/18/21 15:17

Matrix: Water

Date Received: 02/20/21 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			02/26/21 14:59	1
<b>Surrogate</b>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		70 - 133					02/26/21 14:59	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			02/26/21 16:23	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/26/21 16:23	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/26/21 16:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/26/21 16:23	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/26/21 16:23	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/26/21 16:23	1
<b>Surrogate</b>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 130					02/26/21 16:23	1
4-Bromofluorobenzene (Surr)	103		47 - 134					02/26/21 16:23	1
Toluene-d8 (Surr)	92		69 - 122					02/26/21 16:23	1
Dibromofluoromethane (Surr)	106		78 - 129					02/26/21 16:23	1

# Surrogate Summary

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

Job ID: 240-144703-1

## 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)
240-144703-1	TRIP BLANK	104	104	90	107
240-144703-2	MW-108S_021821	104	104	91	108
240-144703-3	MW-142S_021821	104	103	92	106
240-144712-E-3 MS	Matrix Spike	92	103	94	93
240-144712-H-3 MSD	Matrix Spike Duplicate	93	103	94	94
LCS 240-474649/5	Lab Control Sample	93	103	93	94
MB 240-474649/8	Method Blank	101	103	91	103

#### 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)
240-144703-2	MW-108S_021821	79
240-144703-3	MW-142S_021821	80
240-144712-L-3 MS	Matrix Spike	80
240-144712-L-3 MSD	Matrix Spike Duplicate	81
LCS 240-474632/4	Lab Control Sample	80
MB 240-474632/5	Method Blank	80

#### Surrogate Legend

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

# QC Sample Results

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

Job ID: 240-144703-1

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

**Lab Sample ID: MB 240-474649/8**  
**Matrix: Water**  
**Analysis Batch: 474649**

**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			02/26/21 12:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/26/21 12:15	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/26/21 12:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/26/21 12:15	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/26/21 12:15	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/26/21 12:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 130		02/26/21 12:15	1
4-Bromofluorobenzene (Surr)	103		47 - 134		02/26/21 12:15	1
Toluene-d8 (Surr)	91		69 - 122		02/26/21 12:15	1
Dibromofluoromethane (Surr)	103		78 - 129		02/26/21 12:15	1

**Lab Sample ID: LCS 240-474649/5**  
**Matrix: Water**  
**Analysis Batch: 474649**

**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	20.0	20.0		ug/L		100	73 - 129
cis-1,2-Dichloroethene	20.0	19.8		ug/L		99	75 - 124
Tetrachloroethene	20.0	19.2		ug/L		96	70 - 125
trans-1,2-Dichloroethene	20.0	19.5		ug/L		97	74 - 130
Trichloroethene	20.0	18.2		ug/L		91	71 - 121
Vinyl chloride	20.0	23.3		ug/L		116	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		75 - 130
4-Bromofluorobenzene (Surr)	103		47 - 134
Toluene-d8 (Surr)	93		69 - 122
Dibromofluoromethane (Surr)	94		78 - 129

**Lab Sample ID: 240-144712-E-3 MS**  
**Matrix: Water**  
**Analysis Batch: 474649**

**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	20.0	19.7		ug/L		99	64 - 132
cis-1,2-Dichloroethene	1.0	U	20.0	20.1		ug/L		100	68 - 121
Tetrachloroethene	1.0	U	20.0	19.0		ug/L		95	52 - 129
trans-1,2-Dichloroethene	1.0	U	20.0	19.7		ug/L		98	69 - 126
Trichloroethene	1.0	U	20.0	17.6		ug/L		88	56 - 124
Vinyl chloride	1.0	U	20.0	25.7		ug/L		129	49 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		75 - 130
4-Bromofluorobenzene (Surr)	103		47 - 134
Toluene-d8 (Surr)	94		69 - 122

# QC Sample Results

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

Job ID: 240-144703-1

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

**Lab Sample ID: 240-144712-E-3 MS**  
**Matrix: Water**  
**Analysis Batch: 474649**

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

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	93		78 - 129

**Lab Sample ID: 240-144712-H-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 474649**

**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	20.0	20.7		ug/L		104	64 - 132	5	35
cis-1,2-Dichloroethene	1.0	U	20.0	21.0		ug/L		105	68 - 121	4	35
Tetrachloroethene	1.0	U	20.0	19.5		ug/L		97	52 - 129	2	35
trans-1,2-Dichloroethene	1.0	U	20.0	20.2		ug/L		101	69 - 126	3	35
Trichloroethene	1.0	U	20.0	19.0		ug/L		95	56 - 124	8	35
Vinyl chloride	1.0	U	20.0	25.1		ug/L		125	49 - 136	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		75 - 130
4-Bromofluorobenzene (Surr)	103		47 - 134
Toluene-d8 (Surr)	94		69 - 122
Dibromofluoromethane (Surr)	94		78 - 129

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

**Lab Sample ID: MB 240-474632/5**  
**Matrix: Water**  
**Analysis Batch: 474632**

**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			02/26/21 10:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		70 - 133		02/26/21 10:47	1

**Lab Sample ID: LCS 240-474632/4**  
**Matrix: Water**  
**Analysis Batch: 474632**

**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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	80		70 - 133

**Lab Sample ID: 240-144712-L-3 MS**  
**Matrix: Water**  
**Analysis Batch: 474632**

**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	46 - 170

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# QC Sample Results

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

Job ID: 240-144703-1

## 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)	80		70 - 133

**Lab Sample ID: 240-144712-L-3 MSD**  
**Matrix: Water**  
**Analysis Batch: 474632**

**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	10.0	10.2		ug/L		102	46 - 170	0	26

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

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# QC Association Summary

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

Job ID: 240-144703-1

## GC/MS VOA

### Analysis Batch: 474632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-144703-2	MW-108S_021821	Total/NA	Water	8260B SIM	
240-144703-3	MW-142S_021821	Total/NA	Water	8260B SIM	
MB 240-474632/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-474632/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-144712-L-3 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-144712-L-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

### Analysis Batch: 474649

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-144703-1	TRIP BLANK	Total/NA	Water	8260B	
240-144703-2	MW-108S_021821	Total/NA	Water	8260B	
240-144703-3	MW-142S_021821	Total/NA	Water	8260B	
MB 240-474649/8	Method Blank	Total/NA	Water	8260B	
LCS 240-474649/5	Lab Control Sample	Total/NA	Water	8260B	
240-144712-E-3 MS	Matrix Spike	Total/NA	Water	8260B	
240-144712-H-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

# Lab Chronicle

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

Job ID: 240-144703-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 240-144703-1**

**Date Collected: 02/18/21 00:00**

**Matrix: Water**

**Date Received: 02/20/21 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474649	02/26/21 15:34	HMB	TAL CAN

**Client Sample ID: MW-108S\_021821**

**Lab Sample ID: 240-144703-2**

**Date Collected: 02/18/21 13:03**

**Matrix: Water**

**Date Received: 02/20/21 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474649	02/26/21 15:58	HMB	TAL CAN
Total/NA	Analysis	8260B SIM		1	474632	02/26/21 14:34	SAM	TAL CAN

**Client Sample ID: MW-142S\_021821**

**Lab Sample ID: 240-144703-3**

**Date Collected: 02/18/21 15:17**

**Matrix: Water**

**Date Received: 02/20/21 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	474649	02/26/21 16:23	HMB	TAL CAN
Total/NA	Analysis	8260B SIM		1	474632	02/26/21 14:59	SAM	TAL CAN

**Laboratory References:**

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



# Accreditation/Certification Summary

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

Job ID: 240-144703-1

## 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



<b>Client Contact</b> Company Name: Arcadis Address: 28550 Cabot Drive, Suite 500 City/State/Zip: Novi, MI, 48377 Phone: 248-994-2240		<b>Regulatory program:</b> <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other	
<b>Client Project Manager:</b> Kris Hinskey Telephone: 248-994-2240 Email: kris@hinskey@arcadis.com		<b>Site Contact:</b> Julia McClafferty Telephone: 734-644-5131	
<b>Analyses Turnaround Time</b> TAT if different from below: 10 day <input checked="" type="checkbox"/> 3 weeks <input type="checkbox"/> <input checked="" type="checkbox"/> 1 week <input type="checkbox"/> <input type="checkbox"/> 2 days <input type="checkbox"/> <input type="checkbox"/> 1 day <input type="checkbox"/>		<b>Analyses</b> 1-1-DCE 8260B Composite-C/Grab-C Filtered Sample (Y/N) Trans-1,2-DCE 8260B PCE 8260B Vinyl Chloride 8260B 1,4-Dioxane 8260B SIM	
<b>Containers &amp; Preservatives</b> Matrix: Aqueous, Solid, Other: H2SO4, HNO3, HCl, NaOH, KNOH, Others: Sample Date: 2/18/21 1303 Sample Date: 2/18/21 1517		Walk-in client Lab sampling Job/SDG No.:	
<b>Shipping/Tracking No:</b> MW-108S-021821 MW-142S-021821		Sample Specific Notes / Special Instructions: 1 Trip Blank 3VOCs for 8260 B 3VOCs for 8260 B SIM	
240-144703 Chain of Custody			
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			
Special Instructions: QC Requirements & Comments: Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.			
Relinquished by: <i>Kim Donohue</i>	Company: Arcadis	Date/Time: 2/18/21 1700	Received by: <i>Noni Gold Storage</i>
Relinquished by: <i>Kim Donohue</i>	Company: Arcadis	Date/Time: 2/19/21 10:11	Received by: <i>Aracelis Ballesteros</i>
Relinquished by: <i>Aracelis Ballesteros</i>	Company: ETTA	Date/Time: 2/19/21 1432	Received in Laboratory by: <i>Aracelis Ballesteros</i>
		Date/Time: 2/20/21 1700	Company: Arcadis
		Date/Time: 2/19/21 10:11	Company: ETTA
		Date/Time: 2/20/21 800	Company: TIA



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

Login # : 144703

Client Arcadis Site Name \_\_\_\_\_

Cooler unpacked by: \_\_\_\_\_

Cooler Received on 2-20-21 Opened on 2-20-21

FedEx: 1<sup>st</sup> Grd Exp UPS FAS Chopper Client Drop Off TestAmerica Courier Other \_\_\_\_\_

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


TestAmerica Cooler # TA Foam Box Client Cooler Box Other \_\_\_\_\_  
 Packing material used: Bubble Wrap Foam Plastic Bag None Other \_\_\_\_\_  
 COOLANT: 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. 1.6 °C Corrected Cooler Temp. 1.7 °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

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)?  
 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?  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

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: \_\_\_\_\_