

## ANALYTICAL REPORT

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

Laboratory Job ID: 240-140385-1  
Client Project/Site: Ford LTP - Off Site

For:  
ARCADIS U.S., Inc.  
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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 - Off Site

Job ID: 240-140385-1

## Qualifiers

### GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate recovery exceeds control limits

## 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: 240-140385-1

**Job ID: 240-140385-1**

**Laboratory: Eurofins TestAmerica, Canton**

**Narrative**

## CASE NARRATIVE

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

**Project: Ford LTP - Off Site**

**Report Number: 240-140385-1**

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Eurofins TestAmerica, Canton attests to the validity of the laboratory data generated by Eurofins TestAmerica facilities reported herein. All analyses performed by Eurofins TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

### **RECEIPT**

The samples were received on 11/17/2020 9:10 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 1.8° C and 2.4° C.

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

Samples TRIP BLANK (240-140385-1), MW-96S\_111320 (240-140385-2), MW-75SR\_111320 (240-140385-3), MW-75D\_111320 (240-140385-4) and DUP-13 (240-140385-5) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/25/2020 and 11/27/2020.

Dibromofluoromethane (Surr) failed the surrogate recovery criteria high for MW-75D\_111320 (240-140385-4). Refer to the QC report for details.

Surrogate recovery for the following sample was outside the upper control limit: MW-75D\_111320 (240-140385-4). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

The continuing calibration verification (CCV) for analytical batch 462977 exceeded control criteria for 1,1-Dichloroethene. The samples associated with this CCV were non-detect for the affected analytes. In accordance with the laboratory SOP, a low level CCV at the reporting limit (labeled as an MRL) was analyzed and the affected compound was detected; therefore the data has been reported. No further corrective action was required: DUP-13 (240-140385-5).

# Case Narrative

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

Job ID: 240-140385-1

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## Job ID: 240-140385-1 (Continued)

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

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

### VOLATILE ORGANIC COMPOUNDS (GCMS SIM)

Samples MW-96S\_111320 (240-140385-2), MW-75SR\_111320 (240-140385-3), MW-75D\_111320 (240-140385-4) and DUP-13 (240-140385-5) were analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 11/23/2020.

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

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# Method Summary

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

Job ID: 240-140385-1

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 - Off Site

Job ID: 240-140385-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-140385-1	TRIP BLANK	Water	11/13/20 00:00	11/17/20 09:10	
240-140385-2	MW-96S_111320	Water	11/13/20 09:35	11/17/20 09:10	
240-140385-3	MW-75SR_111320	Water	11/13/20 12:10	11/17/20 09:10	
240-140385-4	MW-75D_111320	Water	11/13/20 14:00	11/17/20 09:10	
240-140385-5	DUP-13	Water	11/13/20 00:00	11/17/20 09:10	

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- 12
- 13
- 14

# Detection Summary

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

Job ID: 240-140385-1

## Client Sample ID: TRIP BLANK

Lab Sample ID: 240-140385-1

No Detections.

## Client Sample ID: MW-96S\_111320

Lab Sample ID: 240-140385-2

No Detections.

## Client Sample ID: MW-75SR\_111320

Lab Sample ID: 240-140385-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.1		1.0	0.20	ug/L	1		8260B	Total/NA

## Client Sample ID: MW-75D\_111320

Lab Sample ID: 240-140385-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.7		2.0	0.86	ug/L	1		8260B SIM	Total/NA
Vinyl chloride	2.2		1.0	0.20	ug/L	1		8260B	Total/NA

## Client Sample ID: DUP-13

Lab Sample ID: 240-140385-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.8		2.0	0.86	ug/L	1		8260B SIM	Total/NA
Vinyl chloride	1.8		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 - Off Site

Job ID: 240-140385-1

**Client Sample ID: TRIP BLANK**

**Lab Sample ID: 240-140385-1**

**Date Collected: 11/13/20 00:00**

**Matrix: Water**

**Date Received: 11/17/20 09:10**

**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			11/25/20 16:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/25/20 16:58	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/25/20 16:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/25/20 16:58	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/25/20 16:58	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/25/20 16:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 130		11/25/20 16:58	1
4-Bromofluorobenzene (Surr)	96		47 - 134		11/25/20 16:58	1
Toluene-d8 (Surr)	102		69 - 122		11/25/20 16:58	1
Dibromofluoromethane (Surr)	128		78 - 129		11/25/20 16:58	1

# Client Sample Results

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

Job ID: 240-140385-1

**Client Sample ID: MW-96S\_111320**

**Lab Sample ID: 240-140385-2**

Date Collected: 11/13/20 09:35

Matrix: Water

Date Received: 11/17/20 09:10

**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			11/23/20 03:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		70 - 133					11/23/20 03:24	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			11/25/20 17:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/25/20 17:21	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/25/20 17:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/25/20 17:21	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/25/20 17:21	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/25/20 17:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 130					11/25/20 17:21	1
4-Bromofluorobenzene (Surr)	102		47 - 134					11/25/20 17:21	1
Toluene-d8 (Surr)	105		69 - 122					11/25/20 17:21	1
Dibromofluoromethane (Surr)	126		78 - 129					11/25/20 17:21	1

# Client Sample Results

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

Job ID: 240-140385-1

**Client Sample ID: MW-75SR\_111320**

**Lab Sample ID: 240-140385-3**

Date Collected: 11/13/20 12:10

Matrix: Water

Date Received: 11/17/20 09:10

**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			11/23/20 03:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		70 - 133		11/23/20 03:49	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			11/25/20 17:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/25/20 17:43	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/25/20 17:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/25/20 17:43	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/25/20 17:43	1
<b>Vinyl chloride</b>	<b>1.1</b>		1.0	0.20	ug/L			11/25/20 17:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		75 - 130		11/25/20 17:43	1
4-Bromofluorobenzene (Surr)	92		47 - 134		11/25/20 17:43	1
Toluene-d8 (Surr)	101		69 - 122		11/25/20 17:43	1
Dibromofluoromethane (Surr)	126		78 - 129		11/25/20 17:43	1

# Client Sample Results

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

Job ID: 240-140385-1

**Client Sample ID: MW-75D\_111320**

**Lab Sample ID: 240-140385-4**

Date Collected: 11/13/20 14:00

Matrix: Water

Date Received: 11/17/20 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.7		2.0	0.86	ug/L			11/23/20 04:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		70 - 133		11/23/20 04:15	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			11/25/20 18:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/25/20 18:05	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/25/20 18:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/25/20 18:05	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/25/20 18:05	1
Vinyl chloride	2.2		1.0	0.20	ug/L			11/25/20 18:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		75 - 130		11/25/20 18:05	1
4-Bromofluorobenzene (Surr)	98		47 - 134		11/25/20 18:05	1
Toluene-d8 (Surr)	102		69 - 122		11/25/20 18:05	1
Dibromofluoromethane (Surr)	133	X	78 - 129		11/25/20 18:05	1

# Client Sample Results

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

Job ID: 240-140385-1

**Client Sample ID: DUP-13**

**Lab Sample ID: 240-140385-5**

Date Collected: 11/13/20 00:00

Matrix: Water

Date Received: 11/17/20 09:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.8		2.0	0.86	ug/L			11/23/20 04:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		70 - 133		11/23/20 04:40	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			11/27/20 11:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/27/20 11:29	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/27/20 11:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/27/20 11:29	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/27/20 11:29	1
Vinyl chloride	1.8		1.0	0.20	ug/L			11/27/20 11:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 130		11/27/20 11:29	1
4-Bromofluorobenzene (Surr)	75		47 - 134		11/27/20 11:29	1
Toluene-d8 (Surr)	95		69 - 122		11/27/20 11:29	1
Dibromofluoromethane (Surr)	96		78 - 129		11/27/20 11:29	1

# Surrogate Summary

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

Job ID: 240-140385-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (75-130)	BFB (47-134)	TOL (69-122)	DBFM (78-129)
240-140385-1	TRIP BLANK	100	96	102	128
240-140385-2	MW-96S_111320	103	102	105	126
240-140385-3	MW-75SR_111320	98	92	101	126
240-140385-4	MW-75D_111320	105	98	102	133 X
240-140385-5	DUP-13	101	75	95	96
240-140392-A-6 MS	Matrix Spike	92	100	108	92
240-140392-A-6 MSD	Matrix Spike Duplicate	90	99	107	89
240-140392-B-7 MS	Matrix Spike	97	96	97	122
240-140392-B-7 MSD	Matrix Spike Duplicate	94	97	96	114
LCS 240-462763/4	Lab Control Sample	100	101	99	123
LCS 240-462977/4	Lab Control Sample	87	98	108	92
MB 240-462763/6	Method Blank	104	96	98	129
MB 240-462977/7	Method Blank	100	77	96	94

### Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DCA (70-133)
240-140385-2	MW-96S_111320	86
240-140385-3	MW-75SR_111320	86
240-140385-4	MW-75D_111320	87
240-140385-5	DUP-13	88
240-140389-A-2 MS	Matrix Spike	88
240-140389-A-2 MSD	Matrix Spike Duplicate	87
LCS 240-462286/4	Lab Control Sample	84
MB 240-462286/5	Method Blank	85

### Surrogate Legend

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

# QC Sample Results

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

Job ID: 240-140385-1

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

**Lab Sample ID: MB 240-462763/6**  
**Matrix: Water**  
**Analysis Batch: 462763**

**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			11/25/20 11:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/25/20 11:25	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/25/20 11:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/25/20 11:25	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/25/20 11:25	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/25/20 11:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 130		11/25/20 11:25	1
4-Bromofluorobenzene (Surr)	96		47 - 134		11/25/20 11:25	1
Toluene-d8 (Surr)	98		69 - 122		11/25/20 11:25	1
Dibromofluoromethane (Surr)	129		78 - 129		11/25/20 11:25	1

**Lab Sample ID: LCS 240-462763/4**  
**Matrix: Water**  
**Analysis Batch: 462763**

**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	11.5		ug/L		115	73 - 129
cis-1,2-Dichloroethene	10.0	10.6		ug/L		106	75 - 124
Tetrachloroethene	10.0	11.5		ug/L		115	70 - 125
trans-1,2-Dichloroethene	10.0	10.9		ug/L		109	74 - 130
Trichloroethene	10.0	10.9		ug/L		109	71 - 121
Vinyl chloride	10.0	10.4		ug/L		104	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		75 - 130
4-Bromofluorobenzene (Surr)	101		47 - 134
Toluene-d8 (Surr)	99		69 - 122
Dibromofluoromethane (Surr)	123		78 - 129

**Lab Sample ID: 240-140392-B-7 MS**  
**Matrix: Water**  
**Analysis Batch: 462763**

**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	14		100	142		ug/L		128	64 - 132
cis-1,2-Dichloroethene	240	F1	100	376	F1	ug/L		138	68 - 121
Tetrachloroethene	10	U	100	123		ug/L		123	52 - 129
trans-1,2-Dichloroethene	9.6	J F1	100	142	F1	ug/L		132	69 - 126
Trichloroethene	5.1	J	100	126		ug/L		121	56 - 124
Vinyl chloride	36		100	149		ug/L		113	49 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		75 - 130
4-Bromofluorobenzene (Surr)	96		47 - 134
Toluene-d8 (Surr)	97		69 - 122

# QC Sample Results

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

Job ID: 240-140385-1

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

**Lab Sample ID: 240-140392-B-7 MS**  
**Matrix: Water**  
**Analysis Batch: 462763**

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
<i>Dibromofluoromethane (Surr)</i>	122		78 - 129

**Lab Sample ID: 240-140392-B-7 MSD**  
**Matrix: Water**  
**Analysis Batch: 462763**

**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>
1,1-Dichloroethene	14		100	142		ug/L		128	64 - 132	0	35
cis-1,2-Dichloroethene	240	F1	100	337		ug/L		99	68 - 121	11	35
Tetrachloroethene	10	U	100	129		ug/L		129	52 - 129	4	35
trans-1,2-Dichloroethene	9.6	J F1	100	129		ug/L		120	69 - 126	9	35
Trichloroethene	5.1	J	100	123		ug/L		118	56 - 124	3	35
Vinyl chloride	36		100	144		ug/L		108	49 - 136	3	35

  

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	94		75 - 130
<i>4-Bromofluorobenzene (Surr)</i>	97		47 - 134
<i>Toluene-d8 (Surr)</i>	96		69 - 122
<i>Dibromofluoromethane (Surr)</i>	114		78 - 129

**Lab Sample ID: MB 240-462977/7**  
**Matrix: Water**  
**Analysis Batch: 462977**

**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>
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/27/20 11:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			11/27/20 11:07	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			11/27/20 11:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			11/27/20 11:07	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			11/27/20 11:07	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			11/27/20 11:07	1

  

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB MB Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	100		75 - 130		11/27/20 11:07	1
<i>4-Bromofluorobenzene (Surr)</i>	77		47 - 134		11/27/20 11:07	1
<i>Toluene-d8 (Surr)</i>	96		69 - 122		11/27/20 11:07	1
<i>Dibromofluoromethane (Surr)</i>	94		78 - 129		11/27/20 11:07	1

**Lab Sample ID: LCS 240-462977/4**  
**Matrix: Water**  
**Analysis Batch: 462977**

**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>
1,1-Dichloroethene	10.0	9.05		ug/L		90	73 - 129
cis-1,2-Dichloroethene	10.0	11.3		ug/L		113	75 - 124
Tetrachloroethene	10.0	11.7		ug/L		117	70 - 125
trans-1,2-Dichloroethene	10.0	11.7		ug/L		117	74 - 130
Trichloroethene	10.0	8.84		ug/L		88	71 - 121

Eurofins TestAmerica, Canton



# QC Sample Results

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

Job ID: 240-140385-1

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

**Lab Sample ID: LCS 240-462977/4**  
**Matrix: Water**  
**Analysis Batch: 462977**

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	10.0	8.53		ug/L		85	61 - 134
<b>Surrogate</b>							
	<b>LCS %Recovery</b>	<b>LCS Qualifier</b>	<b>Limits</b>				
1,2-Dichloroethane-d4 (Surr)	87		75 - 130				
4-Bromofluorobenzene (Surr)	98		47 - 134				
Toluene-d8 (Surr)	108		69 - 122				
Dibromofluoromethane (Surr)	92		78 - 129				

**Lab Sample ID: 240-140392-A-6 MS**  
**Matrix: Water**  
**Analysis Batch: 462977**

**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	20	U	200	150		ug/L		75	64 - 132
cis-1,2-Dichloroethene	20	U	200	209		ug/L		105	68 - 121
Tetrachloroethene	20	U	200	184		ug/L		92	52 - 129
trans-1,2-Dichloroethene	20	U	200	211		ug/L		105	69 - 126
Trichloroethene	20	U	200	162		ug/L		81	56 - 124
Vinyl chloride	5.2	J	200	156		ug/L		75	49 - 136
<b>Surrogate</b>									
	<b>MS %Recovery</b>	<b>MS Qualifier</b>	<b>Limits</b>						
1,2-Dichloroethane-d4 (Surr)	92		75 - 130						
4-Bromofluorobenzene (Surr)	100		47 - 134						
Toluene-d8 (Surr)	108		69 - 122						
Dibromofluoromethane (Surr)	92		78 - 129						

**Lab Sample ID: 240-140392-A-6 MSD**  
**Matrix: Water**  
**Analysis Batch: 462977**

**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	20	U	200	157		ug/L		78	64 - 132	4	35
cis-1,2-Dichloroethene	20	U	200	210		ug/L		105	68 - 121	0	35
Tetrachloroethene	20	U	200	198		ug/L		99	52 - 129	7	35
trans-1,2-Dichloroethene	20	U	200	203		ug/L		102	69 - 126	4	35
Trichloroethene	20	U	200	163		ug/L		81	56 - 124	0	35
Vinyl chloride	5.2	J	200	153		ug/L		74	49 - 136	2	35
<b>Surrogate</b>											
	<b>MSD %Recovery</b>	<b>MSD Qualifier</b>	<b>Limits</b>								
1,2-Dichloroethane-d4 (Surr)	90		75 - 130								
4-Bromofluorobenzene (Surr)	99		47 - 134								
Toluene-d8 (Surr)	107		69 - 122								
Dibromofluoromethane (Surr)	89		78 - 129								

# QC Sample Results

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

Job ID: 240-140385-1

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

**Lab Sample ID: MB 240-462286/5**  
**Matrix: Water**  
**Analysis Batch: 462286**

**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			11/23/20 02:33	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		70 - 133					11/23/20 02:33	1

**Lab Sample ID: LCS 240-462286/4**  
**Matrix: Water**  
**Analysis Batch: 462286**

**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	9.91		ug/L		99	80 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	84		70 - 133				

**Lab Sample ID: 240-140389-A-2 MS**  
**Matrix: Water**  
**Analysis Batch: 462286**

**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	1.5	J	10.0	12.2		ug/L		107	46 - 170
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	88		70 - 133						

**Lab Sample ID: 240-140389-A-2 MSD**  
**Matrix: Water**  
**Analysis Batch: 462286**

**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	Limit
1,4-Dioxane	1.5	J	10.0	12.3		ug/L		108	46 - 170	1	26
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	87		70 - 133								

# QC Association Summary

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

Job ID: 240-140385-1

## GC/MS VOA

### Analysis Batch: 462286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140385-2	MW-96S_111320	Total/NA	Water	8260B SIM	
240-140385-3	MW-75SR_111320	Total/NA	Water	8260B SIM	
240-140385-4	MW-75D_111320	Total/NA	Water	8260B SIM	
240-140385-5	DUP-13	Total/NA	Water	8260B SIM	
MB 240-462286/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-462286/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-140389-A-2 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-140389-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

### Analysis Batch: 462763

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140385-1	TRIP BLANK	Total/NA	Water	8260B	
240-140385-2	MW-96S_111320	Total/NA	Water	8260B	
240-140385-3	MW-75SR_111320	Total/NA	Water	8260B	
240-140385-4	MW-75D_111320	Total/NA	Water	8260B	
MB 240-462763/6	Method Blank	Total/NA	Water	8260B	
LCS 240-462763/4	Lab Control Sample	Total/NA	Water	8260B	
240-140392-B-7 MS	Matrix Spike	Total/NA	Water	8260B	
240-140392-B-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

### Analysis Batch: 462977

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-140385-5	DUP-13	Total/NA	Water	8260B	
MB 240-462977/7	Method Blank	Total/NA	Water	8260B	
LCS 240-462977/4	Lab Control Sample	Total/NA	Water	8260B	
240-140392-A-6 MS	Matrix Spike	Total/NA	Water	8260B	
240-140392-A-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

# Lab Chronicle

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

Job ID: 240-140385-1

## Client Sample ID: TRIP BLANK

Date Collected: 11/13/20 00:00

Date Received: 11/17/20 09:10

## Lab Sample ID: 240-140385-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	462763	11/25/20 16:58	LEE	TAL CAN

## Client Sample ID: MW-96S\_111320

Date Collected: 11/13/20 09:35

Date Received: 11/17/20 09:10

## Lab Sample ID: 240-140385-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	462763	11/25/20 17:21	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	462286	11/23/20 03:24	TJL2	TAL CAN

## Client Sample ID: MW-75SR\_111320

Date Collected: 11/13/20 12:10

Date Received: 11/17/20 09:10

## Lab Sample ID: 240-140385-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	462763	11/25/20 17:43	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	462286	11/23/20 03:49	TJL2	TAL CAN

## Client Sample ID: MW-75D\_111320

Date Collected: 11/13/20 14:00

Date Received: 11/17/20 09:10

## Lab Sample ID: 240-140385-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	462763	11/25/20 18:05	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	462286	11/23/20 04:15	TJL2	TAL CAN

## Client Sample ID: DUP-13

Date Collected: 11/13/20 00:00

Date Received: 11/17/20 09:10

## Lab Sample ID: 240-140385-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	462977	11/27/20 11:29	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	462286	11/23/20 04:40	TJL2	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: 240-140385-1

## 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	12-31-20
Minnesota	NELAP	OH00048	12-31-20
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	06-05-21
Oregon	NELAP	4062	02-24-21
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	01-12-21
West Virginia DEP	State	210	12-31-20

**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 Project Manager: Kris Hinsky  
Telephone: 248-994-2240  
Email: kristoffer.hinsky@arcadis.com

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

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

Company Name: Arcadis  
Address: 28550 Cabot Drive, Suite 500  
City/State/Zip: Novi, MI, 48377  
Phone: 248-994-2240

Project Name: Ford LTP Off-Site  
Project Number: 30050315.402.04  
PO # 30050315.402.04

Sampler Name: ALLYSON HARTZ  
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/NaOH	Urapes	Other:	1,1-DCE 8260B	cis-1,2-DCE 8260B		Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B
TRIP BLANK	---	---	1																			1 trip blank
MW-96S-111320	11/13/20	9:35	6																			3 VOAS for 8260B 3 VOAS for 8260B SIM
MW-75SR-111320	11/13/20	12:10	6																			
MW-75D-111320	11/13/20	14:00	6																			
DUP-13	11/13/20	---	6																			

Barcode: 240-140385 Chain of Custody

Possible Hazard Identification:  Non-Hazard  Flammable  Irritant  Unknown  Poison B  Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Special Instructions/QC Requirements & Comments:

Submit all results through Cadena at jtomalia@cadenaco.com, Cadena #E203631  
Level IV Reporting requested.

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
ALLYSON HARTZ	Arcadis	11/13/20 15:00	NOVI cold storage	Arcadis	11/13/20 15:00
Julie McClafferty	Arcadis	11/16/20 1140	Jenny Boyer	ETA	11-17-20 910
Matthew C. Adams	ETA	11/16/20 17:00	Received in Laboratory by:	Company:	Date/Time:

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**Eurofins TestAmerica Canton Sample Receipt Form/Narrative** Login # : 140385  
**Canton Facility**

Client Arcadis Site Name \_\_\_\_\_ Cooler unpacked by: Yanyan  
Cooler Received on 11-17-20 Opened on 11-17-20  
FedEx: 1<sup>st</sup>  Grd  Exp UPS FAS Clipper 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 +0.9 °C) Observed Cooler Temp. \_\_\_\_\_ °C Corrected Cooler Temp. \_\_\_\_\_ °C  
IR GUN #IR-12 (CF +0.5 °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 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 (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?  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 \_\_\_\_\_

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

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

