

## ANALYTICAL REPORT

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

Laboratory Job ID: 240-160622-1  
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:  
12/9/2021 11:48:03 AM

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results through  
**TotalAccess**

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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: 240-160622-1

## 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: 240-160622-1

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## Job ID: 240-160622-1

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### Laboratory: Eurofins TestAmerica, Canton

#### Narrative

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#### Job Narrative 240-160622-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 11/23/2021 10:40 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 1.4° C.

#### GC/MS VOA

Method 8260B: The continuing calibration verification (CCV) for analytical batch 515372 exceeded control criteria for one or multiple compounds. 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 compounds were detected; therefore the data has been reported. No further corrective action was required: TRIP BLANK\_175 (240-160622-1) and MW-101S\_111921 (240-160622-2).

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 - Off-Site

Job ID: 240-160622-1

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: 240-160622-1

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-160622-1	TRIP BLANK_175	Water	11/19/21 00:00	11/23/21 10:40
240-160622-2	MW-101S_111921	Water	11/19/21 13:15	11/23/21 10:40

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12

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# Detection Summary

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

Job ID: 240-160622-1

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**Client Sample ID: TRIP BLANK\_175**

**Lab Sample ID: 240-160622-1**

No Detections.

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**Client Sample ID: MW-101S\_111921**

**Lab Sample ID: 240-160622-2**

No Detections.

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- 12
- 13
- 14

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: 240-160622-1

**Client Sample ID: TRIP BLANK\_175**

**Lab Sample ID: 240-160622-1**

**Date Collected: 11/19/21 00:00**

**Matrix: Water**

**Date Received: 11/23/21 10:40**

**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			12/02/21 21:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/02/21 21:50	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/02/21 21:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/02/21 21:50	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/02/21 21:50	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/02/21 21:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	126		62 - 137		12/02/21 21:50	1
4-Bromofluorobenzene (Surr)	73		56 - 136		12/02/21 21:50	1
Toluene-d8 (Surr)	86		78 - 122		12/02/21 21:50	1
Dibromofluoromethane (Surr)	100		73 - 120		12/02/21 21:50	1



# Client Sample Results

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

Job ID: 240-160622-1

**Client Sample ID: MW-101S\_111921**

**Lab Sample ID: 240-160622-2**

**Date Collected: 11/19/21 13:15**

**Matrix: Water**

**Date Received: 11/23/21 10:40**

**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			11/25/21 04:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	75		66 - 120					11/25/21 04:21	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			12/02/21 22:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/02/21 22:12	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/02/21 22:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/02/21 22:12	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/02/21 22:12	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/02/21 22:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	125		62 - 137					12/02/21 22:12	1
4-Bromofluorobenzene (Surr)	69		56 - 136					12/02/21 22:12	1
Toluene-d8 (Surr)	86		78 - 122					12/02/21 22:12	1
Dibromofluoromethane (Surr)	99		73 - 120					12/02/21 22:12	1

# Surrogate Summary

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

Job ID: 240-160622-1

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

Matrix: Water

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	TOL	DBFM
		(62-137)	(56-136)	(78-122)	(73-120)
240-160599-C-1 MS	Matrix Spike	98	102	102	81
240-160599-H-1 MSD	Matrix Spike Duplicate	98	101	101	79
240-160622-1	TRIP BLANK_175	126	73	86	100
240-160622-2	MW-101S_111921	125	69	86	99
LCS 240-515372/4	Lab Control Sample	98	102	102	79
MB 240-515372/7	Method Blank	117	76	91	92

#### 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)
240-160508-G-4 MS	Matrix Spike	75
240-160508-M-4 MSD	Matrix Spike Duplicate	75
240-160622-2	MW-101S_111921	75
LCS 240-514583/4	Lab Control Sample	75
MB 240-514583/5	Method Blank	75

#### Surrogate Legend

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

# QC Sample Results

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

Job ID: 240-160622-1

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

**Lab Sample ID: MB 240-515372/7**  
**Matrix: Water**  
**Analysis Batch: 515372**

**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	0.49	ug/L			12/02/21 13:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			12/02/21 13:28	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			12/02/21 13:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			12/02/21 13:28	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			12/02/21 13:28	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			12/02/21 13:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		62 - 137		12/02/21 13:28	1
4-Bromofluorobenzene (Surr)	76		56 - 136		12/02/21 13:28	1
Toluene-d8 (Surr)	91		78 - 122		12/02/21 13:28	1
Dibromofluoromethane (Surr)	92		73 - 120		12/02/21 13:28	1

**Lab Sample ID: LCS 240-515372/4**  
**Matrix: Water**  
**Analysis Batch: 515372**

**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	8.55		ug/L		86	63 - 134
cis-1,2-Dichloroethene	10.0	9.74		ug/L		97	77 - 123
Tetrachloroethene	10.0	9.20		ug/L		92	76 - 123
trans-1,2-Dichloroethene	10.0	9.69		ug/L		97	75 - 124
Trichloroethene	10.0	8.31		ug/L		83	70 - 122
Vinyl chloride	10.0	7.65		ug/L		77	60 - 144

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	79		73 - 120

**Lab Sample ID: 240-160599-C-1 MS**  
**Matrix: Water**  
**Analysis Batch: 515372**

**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	10.0	8.09		ug/L		81	56 - 135
cis-1,2-Dichloroethene	1.5		10.0	10.5		ug/L		91	66 - 128
Tetrachloroethene	1.0	U	10.0	8.68		ug/L		87	62 - 131
trans-1,2-Dichloroethene	1.0	U	10.0	9.65		ug/L		96	56 - 136
Trichloroethene	1.0	U	10.0	8.23		ug/L		82	61 - 124
Vinyl chloride	0.64	J	10.0	7.39		ug/L		67	43 - 157

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	102		78 - 122

Eurofins TestAmerica, Canton

# QC Sample Results

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

Job ID: 240-160622-1

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

**Lab Sample ID: 240-160599-C-1 MS**  
**Matrix: Water**  
**Analysis Batch: 515372**

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

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	81		73 - 120

**Lab Sample ID: 240-160599-H-1 MSD**  
**Matrix: Water**  
**Analysis Batch: 515372**

**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	8.17		ug/L		82	56 - 135	1	26
cis-1,2-Dichloroethene	1.5		10.0	10.7		ug/L		92	66 - 128	1	14
Tetrachloroethene	1.0	U	10.0	8.78		ug/L		88	62 - 131	1	20
trans-1,2-Dichloroethene	1.0	U	10.0	9.65		ug/L		97	56 - 136	0	15
Trichloroethene	1.0	U	10.0	8.32		ug/L		83	61 - 124	1	15
Vinyl chloride	0.64	J	10.0	7.33		ug/L		67	43 - 157	1	24

  

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		62 - 137
4-Bromofluorobenzene (Surr)	101		56 - 136
Toluene-d8 (Surr)	101		78 - 122
Dibromofluoromethane (Surr)	79		73 - 120

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

**Lab Sample ID: MB 240-514583/5**  
**Matrix: Water**  
**Analysis Batch: 514583**

**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			11/24/21 20:04	1

  

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	75		66 - 120		11/24/21 20:04	1

**Lab Sample ID: LCS 240-514583/4**  
**Matrix: Water**  
**Analysis Batch: 514583**

**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	10.2		ug/L		102	80 - 122

  

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	75		66 - 120

**Lab Sample ID: 240-160508-G-4 MS**  
**Matrix: Water**  
**Analysis Batch: 514583**

**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	1.0	J F1	10.0	11.9		ug/L		109	51 - 153

Eurofins TestAmerica, Canton

# QC Sample Results

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

Job ID: 240-160622-1

## 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)	75		66 - 120

**Lab Sample ID: 240-160508-M-4 MSD**  
**Matrix: Water**  
**Analysis Batch: 514583**

**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	1.0	J F1	10.0	10.5		ug/L		95	51 - 153	13	16

<i>Surrogate</i>	<i>MSD</i> <i>%Recovery</i>	<i>MSD</i> <i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	75		66 - 120

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# QC Association Summary

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

Job ID: 240-160622-1

## GC/MS VOA

### Analysis Batch: 514583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-160622-2	MW-101S_111921	Total/NA	Water	8260B SIM	
MB 240-514583/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-514583/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-160508-G-4 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-160508-M-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

### Analysis Batch: 515372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-160622-1	TRIP BLANK_175	Total/NA	Water	8260B	
240-160622-2	MW-101S_111921	Total/NA	Water	8260B	
MB 240-515372/7	Method Blank	Total/NA	Water	8260B	
LCS 240-515372/4	Lab Control Sample	Total/NA	Water	8260B	
240-160599-C-1 MS	Matrix Spike	Total/NA	Water	8260B	
240-160599-H-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

# Lab Chronicle

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

Job ID: 240-160622-1

**Client Sample ID: TRIP BLANK\_175**

**Lab Sample ID: 240-160622-1**

**Date Collected: 11/19/21 00:00**

**Matrix: Water**

**Date Received: 11/23/21 10:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	515372	12/02/21 21:50	LEE	TAL CAN

**Client Sample ID: MW-101S\_111921**

**Lab Sample ID: 240-160622-2**

**Date Collected: 11/19/21 13:15**

**Matrix: Water**

**Date Received: 11/23/21 10:40**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	515372	12/02/21 22:12	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	514583	11/25/21 04:21	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 - Off-Site

Job ID: 240-160622-1

## 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 # : 160622

**Canton Facility**

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

Cooler unpacked by:  
Matthew Swma

Cooler Received on 11/23/21 Opened on 11/23/21

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 # J.A Foam Box Client Cooler Box Other \_\_\_\_\_  
 Packing material used: Bubble Wrap Foam Plastic Bag None Other \_\_\_\_\_  
 COOLANT: Water Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt  See Multiple Cooler Form  
 IR GUN# IR-14 (CF +0.1 °C) Observed Cooler Temp. 1.3 °C Corrected Cooler Temp. 1.4 °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 1  
 -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

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# HC157842  
 14. Were VOAs on the COC?  Yes  No  
 15. Were air bubbles >6 mm in any VOA vials?  Yes  No **●** ← Larger than this.  
 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 0226201F  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:

No SIM on TB per corrected COC. ~~ONE~~ 11/23/21

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