

ANALYTICAL REPORT

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

Laboratory Job ID: 240-130793-1
Client Project/Site: Ford LTP On-Site

For:
ARCADIS U.S., Inc.
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Attn: Kristoffer Hinskey



Authorized for release by:
6/9/2020 4:38:24 PM

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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: 240-130793-1

Qualifiers

GC/MS VOA

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Case Narrative

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

Job ID: 240-130793-1

Job ID: 240-130793-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP On-Site

Report Number: 240-130793-1

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 5/23/2020 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.2° C and 4.9° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TRIP BLANK (240-130793-1), MW-54_052120 (240-130793-2), MW-53_052120 (240-130793-3), MW-47_052120 (240-130793-4), MW-70_052120 (240-130793-5) and MW-54S_052120 (240-130793-6) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/01/2020 and 06/02/2020.

Samples MW-47_052120 (240-130793-4)[2X] and MW-70_052120 (240-130793-5)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-436581.

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-54_052120 (240-130793-2), MW-47_052120 (240-130793-4), MW-70_052120 (240-130793-5) and MW-54S_052120 (240-130793-6) were analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The

Case Narrative

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

Job ID: 240-130793-1

Job ID: 240-130793-1 (Continued)

Laboratory: Eurofins TestAmerica, Canton (Continued)

samples were analyzed on 06/02/2020 and 06/03/2020.

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 On-Site

Job ID: 240-130793-1

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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- 13
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Sample Summary

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

Job ID: 240-130793-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-130793-1	TRIP BLANK	Water	05/21/20 00:00	05/23/20 10:15	
240-130793-2	MW-54_052120	Water	05/21/20 09:02	05/23/20 10:15	
240-130793-3	MW-53_052120	Water	05/21/20 10:32	05/23/20 10:15	
240-130793-4	MW-47_052120	Water	05/21/20 12:10	05/23/20 10:15	
240-130793-5	MW-70_052120	Water	05/21/20 13:41	05/23/20 10:15	
240-130793-6	MW-54S_052120	Water	05/21/20 15:11	05/23/20 10:15	

Detection Summary

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

Job ID: 240-130793-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-130793-1

No Detections.

Client Sample ID: MW-54_052120

Lab Sample ID: 240-130793-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.9	J	2.0	0.86	ug/L	1		8260B SIM	Total/NA
Vinyl chloride	0.91	J	1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: MW-53_052120

Lab Sample ID: 240-130793-3

No Detections.

Client Sample ID: MW-47_052120

Lab Sample ID: 240-130793-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	16		2.0	0.32	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	3.7		2.0	0.38	ug/L	2		8260B	Total/NA
Vinyl chloride	85		2.0	0.40	ug/L	2		8260B	Total/NA

Client Sample ID: MW-70_052120

Lab Sample ID: 240-130793-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	3.9		2.0	0.86	ug/L	1		8260B SIM	Total/NA
cis-1,2-Dichloroethene	230		10	1.6	ug/L	10		8260B	Total/NA
Vinyl chloride	400		10	2.0	ug/L	10		8260B	Total/NA

Client Sample ID: MW-54S_052120

Lab Sample ID: 240-130793-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Client Sample Results

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

Job ID: 240-130793-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-130793-1

Date Collected: 05/21/20 00:00

Matrix: Water

Date Received: 05/23/20 10:15

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			06/01/20 23:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/01/20 23:39	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/01/20 23:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/01/20 23:39	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/01/20 23:39	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/01/20 23:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		75 - 130		06/01/20 23:39	1
4-Bromofluorobenzene (Surr)	92		47 - 134		06/01/20 23:39	1
Toluene-d8 (Surr)	96		69 - 122		06/01/20 23:39	1
Dibromofluoromethane (Surr)	106		78 - 129		06/01/20 23:39	1

Client Sample Results

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

Job ID: 240-130793-1

Client Sample ID: MW-54_052120

Lab Sample ID: 240-130793-2

Date Collected: 05/21/20 09:02

Matrix: Water

Date Received: 05/23/20 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.9	J	2.0	0.86	ug/L			06/02/20 14:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		70 - 133					06/02/20 14:48	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			06/02/20 00:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/02/20 00:02	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/02/20 00:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/20 00:02	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/02/20 00:02	1
Vinyl chloride	0.91	J	1.0	0.20	ug/L			06/02/20 00:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		75 - 130					06/02/20 00:02	1
4-Bromofluorobenzene (Surr)	88		47 - 134					06/02/20 00:02	1
Toluene-d8 (Surr)	94		69 - 122					06/02/20 00:02	1
Dibromofluoromethane (Surr)	104		78 - 129					06/02/20 00:02	1

Client Sample Results

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

Job ID: 240-130793-1

Client Sample ID: MW-53_052120

Lab Sample ID: 240-130793-3

Date Collected: 05/21/20 10:32

Matrix: Water

Date Received: 05/23/20 10:15

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			06/02/20 00:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/02/20 00:24	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/02/20 00:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/20 00:24	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/02/20 00:24	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/02/20 00:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		75 - 130		06/02/20 00:24	1
4-Bromofluorobenzene (Surr)	90		47 - 134		06/02/20 00:24	1
Toluene-d8 (Surr)	96		69 - 122		06/02/20 00:24	1
Dibromofluoromethane (Surr)	104		78 - 129		06/02/20 00:24	1

Client Sample Results

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

Job ID: 240-130793-1

Client Sample ID: MW-47_052120

Lab Sample ID: 240-130793-4

Date Collected: 05/21/20 12:10

Matrix: Water

Date Received: 05/23/20 10:15

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	-		06/03/20 12:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		70 - 133		06/03/20 12:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	2.0	U	2.0	0.38	ug/L	-		06/02/20 18:52	2
cis-1,2-Dichloroethene	16		2.0	0.32	ug/L			06/02/20 18:52	2
Tetrachloroethene	2.0	U	2.0	0.30	ug/L			06/02/20 18:52	2
trans-1,2-Dichloroethene	3.7		2.0	0.38	ug/L			06/02/20 18:52	2
Trichloroethene	2.0	U	2.0	0.20	ug/L			06/02/20 18:52	2
Vinyl chloride	85		2.0	0.40	ug/L			06/02/20 18:52	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	122		75 - 130		06/02/20 18:52	2
4-Bromofluorobenzene (Surr)	95		47 - 134		06/02/20 18:52	2
Toluene-d8 (Surr)	96		69 - 122		06/02/20 18:52	2
Dibromofluoromethane (Surr)	114		78 - 129		06/02/20 18:52	2

Client Sample Results

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

Job ID: 240-130793-1

Client Sample ID: MW-70_052120

Lab Sample ID: 240-130793-5

Date Collected: 05/21/20 13:41

Matrix: Water

Date Received: 05/23/20 10:15

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.9		2.0	0.86	ug/L			06/03/20 12:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		70 - 133					06/03/20 12:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	10	U	10	1.9	ug/L			06/02/20 03:45	10
cis-1,2-Dichloroethene	230		10	1.6	ug/L			06/02/20 03:45	10
Tetrachloroethene	10	U	10	1.5	ug/L			06/02/20 03:45	10
trans-1,2-Dichloroethene	10	U	10	1.9	ug/L			06/02/20 03:45	10
Trichloroethene	10	U	10	1.0	ug/L			06/02/20 03:45	10
Vinyl chloride	400		10	2.0	ug/L			06/02/20 03:45	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		75 - 130					06/02/20 03:45	10
4-Bromofluorobenzene (Surr)	93		47 - 134					06/02/20 03:45	10
Toluene-d8 (Surr)	94		69 - 122					06/02/20 03:45	10
Dibromofluoromethane (Surr)	103		78 - 129					06/02/20 03:45	10

Client Sample Results

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

Job ID: 240-130793-1

Client Sample ID: MW-54S_052120

Lab Sample ID: 240-130793-6

Date Collected: 05/21/20 15:11

Matrix: Water

Date Received: 05/23/20 10:15

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	-		06/03/20 13:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 133		06/03/20 13:05	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	-		06/02/20 01:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L	-		06/02/20 01:53	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L	-		06/02/20 01:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L	-		06/02/20 01:53	1
Trichloroethene	1.0	U	1.0	0.10	ug/L	-		06/02/20 01:53	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L	-		06/02/20 01:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		75 - 130		06/02/20 01:53	1
4-Bromofluorobenzene (Surr)	91		47 - 134		06/02/20 01:53	1
Toluene-d8 (Surr)	96		69 - 122		06/02/20 01:53	1
Dibromofluoromethane (Surr)	110		78 - 129		06/02/20 01:53	1

Surrogate Summary

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

Job ID: 240-130793-1

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)
240-130793-1	TRIP BLANK	117	92	96	106
240-130793-2	MW-54_052120	115	88	94	104
240-130793-3	MW-53_052120	116	90	96	104
240-130793-3 MS	MW-53-MS_052120	118	93	97	112
240-130793-3 MSD	MW-53-MSD_052120	115	91	96	108
240-130793-4	MW-47_052120	122	95	96	114
240-130793-5	MW-70_052120	117	93	94	103
240-130793-6	MW-54S_052120	120	91	96	110
LCS 240-436415/5	Lab Control Sample	117	95	96	106
LCS 240-436581/5	Lab Control Sample	119	96	97	110
MB 240-436415/8	Method Blank	115	91	94	107
MB 240-436581/8	Method Blank	117	94	96	107

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)
240-130793-2	MW-54_052120	105
240-130793-2 MS	MW-54_052120	103
240-130793-2 MSD	MW-54_052120	102
240-130793-4	MW-47_052120	102
240-130793-5	MW-70_052120	101
240-130793-6	MW-54S_052120	93
LCS 240-436445/4	Lab Control Sample	93
LCS 240-436630/4	Lab Control Sample	98
MB 240-436445/5	Method Blank	93
MB 240-436630/5	Method Blank	99

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-130793-1

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

Lab Sample ID: MB 240-436415/8
Matrix: Water
Analysis Batch: 436415

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			06/01/20 18:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/01/20 18:50	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/01/20 18:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/01/20 18:50	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/01/20 18:50	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/01/20 18:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		75 - 130		06/01/20 18:50	1
4-Bromofluorobenzene (Surr)	91		47 - 134		06/01/20 18:50	1
Toluene-d8 (Surr)	94		69 - 122		06/01/20 18:50	1
Dibromofluoromethane (Surr)	107		78 - 129		06/01/20 18:50	1

Lab Sample ID: LCS 240-436415/5
Matrix: Water
Analysis Batch: 436415

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	22.9		ug/L		115	73 - 129
cis-1,2-Dichloroethene	20.0	19.9		ug/L		99	75 - 124
Tetrachloroethene	20.0	19.4		ug/L		97	70 - 125
trans-1,2-Dichloroethene	20.0	21.8		ug/L		109	74 - 130
Trichloroethene	20.0	20.3		ug/L		102	71 - 121
Vinyl chloride	20.0	18.1		ug/L		90	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	117		75 - 130
4-Bromofluorobenzene (Surr)	95		47 - 134
Toluene-d8 (Surr)	96		69 - 122
Dibromofluoromethane (Surr)	106		78 - 129

Lab Sample ID: 240-130793-3 MS
Matrix: Water
Analysis Batch: 436415

Client Sample ID: MW-53-MS_052120
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	23.8		ug/L		119	64 - 132
cis-1,2-Dichloroethene	1.0	U	20.0	21.1		ug/L		106	68 - 121
Tetrachloroethene	1.0	U	20.0	18.7		ug/L		93	52 - 129
trans-1,2-Dichloroethene	1.0	U	20.0	22.7		ug/L		114	69 - 126
Trichloroethene	1.0	U	20.0	19.7		ug/L		98	56 - 124
Vinyl chloride	1.0	U	20.0	18.3		ug/L		92	49 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	118		75 - 130
4-Bromofluorobenzene (Surr)	93		47 - 134
Toluene-d8 (Surr)	97		69 - 122

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-130793-1

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

Lab Sample ID: 240-130793-3 MS
Matrix: Water
Analysis Batch: 436415

Client Sample ID: MW-53-MS_052120
Prep Type: Total/NA

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
<i>Dibromofluoromethane (Surr)</i>	112		78 - 129

Lab Sample ID: 240-130793-3 MSD
Matrix: Water
Analysis Batch: 436415

Client Sample ID: MW-53-MSD_052120
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	1.0	U	20.0	23.2		ug/L		116	64 - 132	3	35
cis-1,2-Dichloroethene	1.0	U	20.0	20.4		ug/L		102	68 - 121	3	35
Tetrachloroethene	1.0	U	20.0	18.9		ug/L		94	52 - 129	1	35
trans-1,2-Dichloroethene	1.0	U	20.0	22.2		ug/L		111	69 - 126	2	35
Trichloroethene	1.0	U	20.0	20.0		ug/L		100	56 - 124	1	35
Vinyl chloride	1.0	U	20.0	18.0		ug/L		90	49 - 136	2	35

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	115		75 - 130
<i>4-Bromofluorobenzene (Surr)</i>	91		47 - 134
<i>Toluene-d8 (Surr)</i>	96		69 - 122
<i>Dibromofluoromethane (Surr)</i>	108		78 - 129

Lab Sample ID: MB 240-436581/8
Matrix: Water
Analysis Batch: 436581

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			06/02/20 18:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/02/20 18:07	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/02/20 18:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/20 18:07	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/02/20 18:07	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/02/20 18:07	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>	117		75 - 130		06/02/20 18:07	1
<i>4-Bromofluorobenzene (Surr)</i>	94		47 - 134		06/02/20 18:07	1
<i>Toluene-d8 (Surr)</i>	96		69 - 122		06/02/20 18:07	1
<i>Dibromofluoromethane (Surr)</i>	107		78 - 129		06/02/20 18:07	1

Lab Sample ID: LCS 240-436581/5
Matrix: Water
Analysis Batch: 436581

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	20.0	23.8		ug/L		119	73 - 129
cis-1,2-Dichloroethene	20.0	20.7		ug/L		104	75 - 124
Tetrachloroethene	20.0	19.7		ug/L		98	70 - 125
trans-1,2-Dichloroethene	20.0	22.5		ug/L		112	74 - 130
Trichloroethene	20.0	20.6		ug/L		103	71 - 121

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-130793-1

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

Lab Sample ID: LCS 240-436581/5
Matrix: Water
Analysis Batch: 436581

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	20.0	19.7		ug/L		98	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	119		75 - 130
4-Bromofluorobenzene (Surr)	96		47 - 134
Toluene-d8 (Surr)	97		69 - 122
Dibromofluoromethane (Surr)	110		78 - 129

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

Lab Sample ID: MB 240-436445/5
Matrix: Water
Analysis Batch: 436445

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			06/02/20 05:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 133		06/02/20 05:36	1

Lab Sample ID: LCS 240-436445/4
Matrix: Water
Analysis Batch: 436445

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	9.10		ug/L		91	80 - 135

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	93		70 - 133

Lab Sample ID: 240-130793-2 MS
Matrix: Water
Analysis Batch: 436445

Client Sample ID: MW-54_052120
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1.9	J	10.0	10.7		ug/L		89	46 - 170

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 133

Lab Sample ID: 240-130793-2 MSD
Matrix: Water
Analysis Batch: 436445

Client Sample ID: MW-54_052120
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	1.9	J	10.0	10.7		ug/L		89	46 - 170	0	26

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-130793-1

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

Lab Sample ID: 240-130793-2 MSD
Matrix: Water
Analysis Batch: 436445

Client Sample ID: MW-54_052120
Prep Type: Total/NA

	<i>MSD</i>	<i>MSD</i>	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	102		70 - 133

Lab Sample ID: MB 240-436630/5
Matrix: Water
Analysis Batch: 436630

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

<i>Analyte</i>	<i>MB</i>	<i>MB</i>							
	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			06/03/20 06:38	1

	<i>MB</i>	<i>MB</i>	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	99		70 - 133

	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>					
		06/03/20 06:38	1					

Lab Sample ID: LCS 240-436630/4
Matrix: Water
Analysis Batch: 436630

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

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

	<i>LCS</i>	<i>LCS</i>	
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	98		70 - 133

QC Association Summary

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

Job ID: 240-130793-1

GC/MS VOA

Analysis Batch: 436415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-130793-1	TRIP BLANK	Total/NA	Water	8260B	
240-130793-2	MW-54_052120	Total/NA	Water	8260B	
240-130793-3	MW-53_052120	Total/NA	Water	8260B	
240-130793-5	MW-70_052120	Total/NA	Water	8260B	
240-130793-6	MW-54S_052120	Total/NA	Water	8260B	
MB 240-436415/8	Method Blank	Total/NA	Water	8260B	
LCS 240-436415/5	Lab Control Sample	Total/NA	Water	8260B	
240-130793-3 MS	MW-53-MS_052120	Total/NA	Water	8260B	
240-130793-3 MSD	MW-53-MSD_052120	Total/NA	Water	8260B	

Analysis Batch: 436445

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-130793-2	MW-54_052120	Total/NA	Water	8260B SIM	
MB 240-436445/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-436445/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-130793-2 MS	MW-54_052120	Total/NA	Water	8260B SIM	
240-130793-2 MSD	MW-54_052120	Total/NA	Water	8260B SIM	

Analysis Batch: 436581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-130793-4	MW-47_052120	Total/NA	Water	8260B	
MB 240-436581/8	Method Blank	Total/NA	Water	8260B	
LCS 240-436581/5	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 436630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-130793-4	MW-47_052120	Total/NA	Water	8260B SIM	
240-130793-5	MW-70_052120	Total/NA	Water	8260B SIM	
240-130793-6	MW-54S_052120	Total/NA	Water	8260B SIM	
MB 240-436630/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-436630/4	Lab Control Sample	Total/NA	Water	8260B SIM	

Lab Chronicle

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

Job ID: 240-130793-1

Client Sample ID: TRIP BLANK

Date Collected: 05/21/20 00:00

Date Received: 05/23/20 10:15

Lab Sample ID: 240-130793-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436415	06/01/20 23:39	TJL1	TAL CAN

Client Sample ID: MW-54_052120

Date Collected: 05/21/20 09:02

Date Received: 05/23/20 10:15

Lab Sample ID: 240-130793-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436415	06/02/20 00:02	TJL1	TAL CAN
Total/NA	Analysis	8260B SIM		1	436445	06/02/20 14:48	SAM	TAL CAN

Client Sample ID: MW-53_052120

Date Collected: 05/21/20 10:32

Date Received: 05/23/20 10:15

Lab Sample ID: 240-130793-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436415	06/02/20 00:24	TJL1	TAL CAN

Client Sample ID: MW-47_052120

Date Collected: 05/21/20 12:10

Date Received: 05/23/20 10:15

Lab Sample ID: 240-130793-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	436581	06/02/20 18:52	TJL1	TAL CAN
Total/NA	Analysis	8260B SIM		1	436630	06/03/20 12:14	SAM	TAL CAN

Client Sample ID: MW-70_052120

Date Collected: 05/21/20 13:41

Date Received: 05/23/20 10:15

Lab Sample ID: 240-130793-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	436415	06/02/20 03:45	TJL1	TAL CAN
Total/NA	Analysis	8260B SIM		1	436630	06/03/20 12:39	SAM	TAL CAN

Client Sample ID: MW-54S_052120

Date Collected: 05/21/20 15:11

Date Received: 05/23/20 10:15

Lab Sample ID: 240-130793-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	436415	06/02/20 01:53	TJL1	TAL CAN
Total/NA	Analysis	8260B SIM		1	436630	06/03/20 13:05	SAM	TAL CAN

Laboratory References:

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

Eurofins TestAmerica, Canton

Accreditation/Certification Summary

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

Job ID: 240-130793-1

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	06-30-20
Georgia	State	4062	02-23-21
Illinois	NELAP	004498	07-31-20
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	06-30-20
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-24-21
Pennsylvania	NELAP	68-00340	08-31-20
Texas	NELAP	T104704517-18-10	08-31-20
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-20
Washington	State	C971	01-12-21
West Virginia DEP	State	210	12-31-20

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

Regulatory program: DW NPDES RCRA Other

Client Contact: Arcadis
Address: 28550 Cabot Drive, Suite 500
City/State/Zip: Novi, MI, 48377
Phone: 248-994-2240
Project Name: Ford LTP On-Site
Project Number: 30050315.401.03
PO # 30050315.401.03

Client Project Manager: Kris Hinskey
Telephone: 248-994-2240
Email: kris@hinskey.com

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

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

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

Analysis Turnaround Time: 10 day
TAT if different from below:
3 weeks
2 weeks
1 week
2 days
1 day

Containers & Preservatives:
H2SO4
HNO3
HCl
NaOH
ZnAc
LiOH
Other:

Matrix:
Air
Aqueous
Sediment
Solid
Other:

Filtered Sample (Y/N)
Composite C/Grab-G

Analyses:
1,4-DCE 82608
cis-1,2-DCE 82608
Trans-1,2-DCE 82608
PCE 82608
TCE 82608
Vinyl Chloride 82608
1,4-Dioxane 82608 SIM

Sample Identification:
TRIP BLANK
MW-54-052120
MW-53-052120
MW-53-MS-052120
MW-53-MSD-052120
MW-47-052120
MW-70-052120
MW-54S-052120

Sample Specific Notes / Special Instructions:
1 trip blank
3 VOAs for 82608
3 VOAs for 82608 SIM
Run MS/MSD
↓

Possible Hazard Identification:
 Non-Hazard
 Irritant
 Flammable
 Poison B
 Unknown

Special Instructions/QC Requirements & Comments:
240-130793 Chain of Custody

Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728
Level IV Reporting requested.

Relinquished by: Julia McCafferty
Relinquished by: RACHEL BIEHL JORDAN BRUBAKER
Relinquished by: Andrew Spawts

Received by: RACHEL BIEHL JORDAN BRUBAKER
Received by: APOVI COLD STORAGE
Received in Laboratory by: [Signature]

Company: Arcadis
Company: APLADIS
Company: Arcadis

Date/Time: 5/21/20 1521
Date/Time: 5/21/20 1555
Date/Time: 5/22/20 0950

Company: APLADIS
Company: APLADIS
Company: ERM MI

Date/Time: 5/21/20 1524
Date/Time: 5/21/20 1555
Date/Time: 5/22/20 9:55

5-23-20 10/10

Relinquished by: [Signature]




Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 130793

Client Arcadis Site Name _____ Cooler unpacked by: _____
 Cooler Received on 5-23-20 Opened on 5-23-20

FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____
Receipt After-hours: Drop-off Date/Time _____ **Storage Location** _____

TestAmerica Cooler # JA 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-10 (CF +0.7 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN #IR-11 (CF +0.9 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 -Were tamper/custody seals intact and uncompromised? Yes No NA
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 be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
 If yes, Questions 12-16 have been checked at the originating laboratory.
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC902937
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials?  ← Larger than this. Yes NO NA
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # NA Yes No
16. Was a LL Hg or Me Hg trip blank present? Yes No

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

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by: MS

18. 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)

19. 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: _____

Eurofins TestAmerica Canton Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)		
				Wet Ice	Blue Ice	Dry Ice
TA Client Box Other <u>IR-10</u> IR-11	<u>IR-10</u> IR-11	2.5	3.2	<u>Wet Ice</u>	Blue Ice	Dry Ice
TA Client Box Other <u>IR-10</u> IR-11	<u>IR-10</u> IR-11	4.2	4.9	<u>Wet Ice</u>	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
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TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice

See Temperature Excursion Form