

ANALYTICAL REPORT

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

Laboratory Job ID: 240-126247-1
Client Project/Site: Ford LTP On Site

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

Attn: Kristoffer Hinskey



Authorized for release by:
2/27/2020 10:12:04 AM

Michael DelMonico, Project Manager I
(330)497-9396
michael.delmonico@testamericainc.com

LINKS

Review your project
results through
TotalAccess

Have a Question?



Visit us at:
www.testamericainc.com

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.



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Method Summary	5
Sample Summary	6
Detection Summary	7
Client Sample Results	8
Surrogate Summary	13
QC Sample Results	14
QC Association Summary	19
Lab Chronicle	20
Certification Summary	21
Chain of Custody	22

Definitions/Glossary

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

Job ID: 240-126247-1

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)
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: 240-126247-1

Job ID: 240-126247-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP On Site

Report Number: 240-126247-1

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 2/13/2020 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.6° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TRIP BLANK (240-126247-1), MW-196S_021120 (240-126247-2), MW-196_021120 (240-126247-3), MW-197S_021120 (240-126247-4) and TW-16-03_021120 (240-126247-5) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 02/18/2020 and 02/19/2020.

Samples MW-196S_021120 (240-126247-2)[2X], MW-196_021120 (240-126247-3)[25X] and TW-16-03_021120 (240-126247-5)[5X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

VOLATILE ORGANIC COMPOUNDS (GCMS SIM)

Samples MW-196S_021120 (240-126247-2), MW-196_021120 (240-126247-3), MW-197S_021120 (240-126247-4) and TW-16-03_021120 (240-126247-5) were analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 02/19/2020 and 02/20/2020.

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

Method Summary

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

Job ID: 240-126247-1

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 On Site

Job ID: 240-126247-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-126247-1	TRIP BLANK	Water	02/11/20 00:00	02/13/20 08:40	
240-126247-2	MW-196S_021120	Water	02/11/20 10:41	02/13/20 08:40	
240-126247-3	MW-196_021120	Water	02/11/20 11:36	02/13/20 08:40	
240-126247-4	MW-197S_021120	Water	02/11/20 12:51	02/13/20 08:40	
240-126247-5	TW-16-03_021120	Water	02/11/20 14:46	02/13/20 08:40	

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

Detection Summary

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

Job ID: 240-126247-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-126247-1

No Detections.

Client Sample ID: MW-196S_021120

Lab Sample ID: 240-126247-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	51		2.0	0.32	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	1.3		1.0	0.19	ug/L	1		8260B	Total/NA
Trichloroethene	39		1.0	0.10	ug/L	1		8260B	Total/NA

Client Sample ID: MW-196_021120

Lab Sample ID: 240-126247-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	250		25	4.0	ug/L	25		8260B	Total/NA
trans-1,2-Dichloroethene	65		25	4.8	ug/L	25		8260B	Total/NA
Trichloroethene	520		25	2.5	ug/L	25		8260B	Total/NA

Client Sample ID: MW-197S_021120

Lab Sample ID: 240-126247-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.23	J	1.0	0.19	ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	14		1.0	0.16	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	0.89	J	1.0	0.19	ug/L	1		8260B	Total/NA
Trichloroethene	31		1.0	0.10	ug/L	1		8260B	Total/NA
Vinyl chloride	2.2		1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: TW-16-03_021120

Lab Sample ID: 240-126247-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	33		5.0	0.80	ug/L	5		8260B	Total/NA
Vinyl chloride	82		5.0	1.0	ug/L	5		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 On Site

Job ID: 240-126247-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-126247-1

Date Collected: 02/11/20 00:00

Matrix: Water

Date Received: 02/13/20 08:40

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	0.19	ug/L			02/18/20 17:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/18/20 17:12	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/18/20 17:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/18/20 17:12	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/18/20 17:12	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/18/20 17:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		75 - 130		02/18/20 17:12	1
4-Bromofluorobenzene (Surr)	100		47 - 134		02/18/20 17:12	1
Toluene-d8 (Surr)	93		69 - 122		02/18/20 17:12	1
Dibromofluoromethane (Surr)	86		78 - 129		02/18/20 17:12	1

Client Sample Results

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

Job ID: 240-126247-1

Client Sample ID: MW-196S_021120

Lab Sample ID: 240-126247-2

Date Collected: 02/11/20 10:41

Matrix: Water

Date Received: 02/13/20 08:40

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	-		02/19/20 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		70 - 133		02/19/20 15:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L	-		02/18/20 21:51	1
cis-1,2-Dichloroethene	51		2.0	0.32	ug/L			02/19/20 15:28	2
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/18/20 21:51	1
trans-1,2-Dichloroethene	1.3		1.0	0.19	ug/L			02/18/20 21:51	1
Trichloroethene	39		1.0	0.10	ug/L			02/18/20 21:51	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/18/20 21:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		75 - 130		02/18/20 21:51	1
1,2-Dichloroethane-d4 (Surr)	85		75 - 130		02/19/20 15:28	2
4-Bromofluorobenzene (Surr)	100		47 - 134		02/18/20 21:51	1
4-Bromofluorobenzene (Surr)	103		47 - 134		02/19/20 15:28	2
Toluene-d8 (Surr)	92		69 - 122		02/18/20 21:51	1
Toluene-d8 (Surr)	90		69 - 122		02/19/20 15:28	2
Dibromofluoromethane (Surr)	90		78 - 129		02/18/20 21:51	1
Dibromofluoromethane (Surr)	85		78 - 129		02/19/20 15:28	2

Client Sample Results

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

Job ID: 240-126247-1

Client Sample ID: MW-196_021120

Lab Sample ID: 240-126247-3

Date Collected: 02/11/20 11:36

Matrix: Water

Date Received: 02/13/20 08:40

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			02/20/20 08:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 133		02/20/20 08:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	25	U	25	4.8	ug/L			02/19/20 15:52	25
cis-1,2-Dichloroethene	250		25	4.0	ug/L			02/19/20 15:52	25
Tetrachloroethene	25	U	25	3.8	ug/L			02/19/20 15:52	25
trans-1,2-Dichloroethene	65		25	4.8	ug/L			02/19/20 15:52	25
Trichloroethene	520		25	2.5	ug/L			02/19/20 15:52	25
Vinyl chloride	25	U	25	5.0	ug/L			02/19/20 15:52	25

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		75 - 130		02/19/20 15:52	25
4-Bromofluorobenzene (Surr)	100		47 - 134		02/19/20 15:52	25
Toluene-d8 (Surr)	90		69 - 122		02/19/20 15:52	25
Dibromofluoromethane (Surr)	85		78 - 129		02/19/20 15:52	25

Client Sample Results

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

Job ID: 240-126247-1

Client Sample ID: MW-197S_021120

Lab Sample ID: 240-126247-4

Date Collected: 02/11/20 12:51

Matrix: Water

Date Received: 02/13/20 08:40

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			02/20/20 09:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 133		02/20/20 09:11	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.23	J	1.0	0.19	ug/L			02/19/20 15:02	1
cis-1,2-Dichloroethene	14		1.0	0.16	ug/L			02/19/20 15:02	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/19/20 15:02	1
trans-1,2-Dichloroethene	0.89	J	1.0	0.19	ug/L			02/19/20 15:02	1
Trichloroethene	31		1.0	0.10	ug/L			02/19/20 15:02	1
Vinyl chloride	2.2		1.0	0.20	ug/L			02/19/20 15:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		75 - 130		02/19/20 15:02	1
4-Bromofluorobenzene (Surr)	104		47 - 134		02/19/20 15:02	1
Toluene-d8 (Surr)	90		69 - 122		02/19/20 15:02	1
Dibromofluoromethane (Surr)	89		78 - 129		02/19/20 15:02	1

Client Sample Results

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

Job ID: 240-126247-1

Client Sample ID: TW-16-03_021120

Lab Sample ID: 240-126247-5

Date Collected: 02/11/20 14:46

Matrix: Water

Date Received: 02/13/20 08:40

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			02/20/20 09:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 133		02/20/20 09:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	5.0	U	5.0	0.95	ug/L			02/19/20 16:17	5
cis-1,2-Dichloroethene	33		5.0	0.80	ug/L			02/19/20 16:17	5
Tetrachloroethene	5.0	U	5.0	0.75	ug/L			02/19/20 16:17	5
trans-1,2-Dichloroethene	5.0	U	5.0	0.95	ug/L			02/19/20 16:17	5
Trichloroethene	5.0	U	5.0	0.50	ug/L			02/19/20 16:17	5
Vinyl chloride	82		5.0	1.0	ug/L			02/19/20 16:17	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		75 - 130		02/19/20 16:17	5
4-Bromofluorobenzene (Surr)	104		47 - 134		02/19/20 16:17	5
Toluene-d8 (Surr)	91		69 - 122		02/19/20 16:17	5
Dibromofluoromethane (Surr)	88		78 - 129		02/19/20 16:17	5

Surrogate Summary

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

Job ID: 240-126247-1

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)
240-126243-E-2 MS	Matrix Spike	83	109	97	89
240-126243-F-2 MSD	Matrix Spike Duplicate	87	104	93	89
240-126247-1	TRIP BLANK	87	100	93	86
240-126247-2	MW-196S_021120	87	100	92	90
240-126247-2	MW-196S_021120	85	103	90	85
240-126247-3	MW-196_021120	88	100	90	85
240-126247-4	MW-197S_021120	87	104	90	89
240-126247-5	TW-16-03_021120	88	104	91	88
240-126251-E-5 MS	Matrix Spike	86	101	93	90
240-126251-F-5 MSD	Matrix Spike Duplicate	86	106	93	90
LCS 240-423222/4	Lab Control Sample	85	102	94	89
LCS 240-423408/4	Lab Control Sample	84	100	92	88
MB 240-423222/7	Method Blank	89	105	96	89
MB 240-423408/7	Method Blank	90	105	94	95

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DCA (70-133)
240-126247-2	MW-196S_021120	103
240-126247-3	MW-196_021120	100
240-126247-4	MW-197S_021120	98
240-126247-5	TW-16-03_021120	97
240-126250-C-3 MS	Matrix Spike	100
240-126250-C-3 MSD	Matrix Spike Duplicate	101
240-126251-C-5 MS	Matrix Spike	100
240-126251-C-5 MSD	Matrix Spike Duplicate	100
LCS 240-423320/4	Lab Control Sample	104
LCS 240-423494/4	Lab Control Sample	100
MB 240-423320/5	Method Blank	97
MB 240-423494/5	Method Blank	98

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-126247-1

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

Lab Sample ID: MB 240-423222/7
Matrix: Water
Analysis Batch: 423222

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/18/20 14:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/18/20 14:41	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/18/20 14:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/18/20 14:41	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/18/20 14:41	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/18/20 14:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		75 - 130		02/18/20 14:41	1
4-Bromofluorobenzene (Surr)	105		47 - 134		02/18/20 14:41	1
Toluene-d8 (Surr)	96		69 - 122		02/18/20 14:41	1
Dibromofluoromethane (Surr)	89		78 - 129		02/18/20 14:41	1

Lab Sample ID: LCS 240-423222/4
Matrix: Water
Analysis Batch: 423222

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	9.76		ug/L		98	73 - 129
cis-1,2-Dichloroethene	10.0	9.53		ug/L		95	75 - 124
Tetrachloroethene	10.0	10.5		ug/L		105	70 - 125
trans-1,2-Dichloroethene	10.0	10.2		ug/L		102	74 - 130
Trichloroethene	10.0	9.46		ug/L		95	71 - 121
Vinyl chloride	10.0	11.2		ug/L		112	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		75 - 130
4-Bromofluorobenzene (Surr)	102		47 - 134
Toluene-d8 (Surr)	94		69 - 122
Dibromofluoromethane (Surr)	89		78 - 129

Lab Sample ID: 240-126243-E-2 MS
Matrix: Water
Analysis Batch: 423222

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	9.61		ug/L		96	64 - 132
cis-1,2-Dichloroethene	1.0	U	10.0	9.56		ug/L		96	68 - 121
Tetrachloroethene	1.0	U	10.0	9.02		ug/L		90	52 - 129
trans-1,2-Dichloroethene	1.0	U	10.0	9.94		ug/L		99	69 - 126
Trichloroethene	0.30	J	10.0	8.78		ug/L		85	56 - 124
Vinyl chloride	0.90	J	10.0	12.0		ug/L		111	49 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		75 - 130
4-Bromofluorobenzene (Surr)	109		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: 240-126247-1

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

Lab Sample ID: 240-126243-E-2 MS
Matrix: Water
Analysis Batch: 423222

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>	89		78 - 129

Lab Sample ID: 240-126243-F-2 MSD
Matrix: Water
Analysis Batch: 423222

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	1.0	U	10.0	9.40		ug/L		94	64 - 132	2	35
cis-1,2-Dichloroethene	1.0	U	10.0	10.1		ug/L		101	68 - 121	5	35
Tetrachloroethene	1.0	U	10.0	8.71		ug/L		87	52 - 129	3	35
trans-1,2-Dichloroethene	1.0	U	10.0	9.94		ug/L		99	69 - 126	0	35
Trichloroethene	0.30	J	10.0	8.88		ug/L		86	56 - 124	1	35
Vinyl chloride	0.90	J	10.0	12.4		ug/L		115	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>	87		75 - 130
<i>4-Bromofluorobenzene (Surr)</i>	104		47 - 134
<i>Toluene-d8 (Surr)</i>	93		69 - 122
<i>Dibromofluoromethane (Surr)</i>	89		78 - 129

Lab Sample ID: MB 240-423408/7
Matrix: Water
Analysis Batch: 423408

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/19/20 14:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			02/19/20 14:37	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			02/19/20 14:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			02/19/20 14:37	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			02/19/20 14:37	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			02/19/20 14:37	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>	90		75 - 130		02/19/20 14:37	1
<i>4-Bromofluorobenzene (Surr)</i>	105		47 - 134		02/19/20 14:37	1
<i>Toluene-d8 (Surr)</i>	94		69 - 122		02/19/20 14:37	1
<i>Dibromofluoromethane (Surr)</i>	95		78 - 129		02/19/20 14:37	1

Lab Sample ID: LCS 240-423408/4
Matrix: Water
Analysis Batch: 423408

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	10.4		ug/L		104	73 - 129
cis-1,2-Dichloroethene	10.0	10.4		ug/L		104	75 - 124
Tetrachloroethene	10.0	10.5		ug/L		105	70 - 125
trans-1,2-Dichloroethene	10.0	10.6		ug/L		106	74 - 130
Trichloroethene	10.0	9.49		ug/L		95	71 - 121

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-126247-1

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

Lab Sample ID: LCS 240-423408/4
Matrix: Water
Analysis Batch: 423408

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	11.4		ug/L		114	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	84		75 - 130
4-Bromofluorobenzene (Surr)	100		47 - 134
Toluene-d8 (Surr)	92		69 - 122
Dibromofluoromethane (Surr)	88		78 - 129

Lab Sample ID: 240-126251-E-5 MS
Matrix: Water
Analysis Batch: 423408

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	10.5		ug/L		105	64 - 132
cis-1,2-Dichloroethene	1.0	U	10.0	10.5		ug/L		105	68 - 121
Tetrachloroethene	1.0	U	10.0	9.65		ug/L		96	52 - 129
trans-1,2-Dichloroethene	1.0	U	10.0	10.5		ug/L		105	69 - 126
Trichloroethene	1.0	U	10.0	9.08		ug/L		91	56 - 124
Vinyl chloride	0.38	J	10.0	11.4		ug/L		110	49 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		75 - 130
4-Bromofluorobenzene (Surr)	101		47 - 134
Toluene-d8 (Surr)	93		69 - 122
Dibromofluoromethane (Surr)	90		78 - 129

Lab Sample ID: 240-126251-F-5 MSD
Matrix: Water
Analysis Batch: 423408

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	10.3		ug/L		103	64 - 132	1	35
cis-1,2-Dichloroethene	1.0	U	10.0	10.7		ug/L		107	68 - 121	2	35
Tetrachloroethene	1.0	U	10.0	9.57		ug/L		96	52 - 129	1	35
trans-1,2-Dichloroethene	1.0	U	10.0	10.7		ug/L		107	69 - 126	2	35
Trichloroethene	1.0	U	10.0	8.91		ug/L		89	56 - 124	2	35
Vinyl chloride	0.38	J	10.0	11.5		ug/L		111	49 - 136	1	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		75 - 130
4-Bromofluorobenzene (Surr)	106		47 - 134
Toluene-d8 (Surr)	93		69 - 122
Dibromofluoromethane (Surr)	90		78 - 129

QC Sample Results

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

Job ID: 240-126247-1

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

Lab Sample ID: MB 240-423320/5
Matrix: Water
Analysis Batch: 423320

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L	-		02/19/20 05:48	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 133					02/19/20 05:48	1

Lab Sample ID: LCS 240-423320/4
Matrix: Water
Analysis Batch: 423320

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	8.53		ug/L	-	85	80 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	104		70 - 133				

Lab Sample ID: 240-126250-C-3 MS
Matrix: Water
Analysis Batch: 423320

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.0	U	10.0	10.9		ug/L	-	109	46 - 170
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	100		70 - 133						

Lab Sample ID: 240-126250-C-3 MSD
Matrix: Water
Analysis Batch: 423320

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
1,4-Dioxane	2.0	U	10.0	10.4		ug/L	-	104	46 - 170	5	26
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	101		70 - 133								

Lab Sample ID: MB 240-423494/5
Matrix: Water
Analysis Batch: 423494

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L	-		02/20/20 06:39	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 133					02/20/20 06:39	1

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-126247-1

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

Lab Sample ID: LCS 240-423494/4
Matrix: Water
Analysis Batch: 423494

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	9.25		ug/L		93	80 - 135
Surrogate							
	%Recovery	LCS Qualifier	LCS Limits				
1,2-Dichloroethane-d4 (Surr)	100		70 - 133				

Lab Sample ID: 240-126251-C-5 MS
Matrix: Water
Analysis Batch: 423494

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.0	U	10.0	8.86		ug/L		89	46 - 170
Surrogate									
	%Recovery	MS Qualifier	MS Limits						
1,2-Dichloroethane-d4 (Surr)	100		70 - 133						

Lab Sample ID: 240-126251-C-5 MSD
Matrix: Water
Analysis Batch: 423494

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
1,4-Dioxane	2.0	U	10.0	9.55		ug/L		95	46 - 170	7	26
Surrogate											
	%Recovery	MSD Qualifier	MSD Limits								
1,2-Dichloroethane-d4 (Surr)	100		70 - 133								

QC Association Summary

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

Job ID: 240-126247-1

GC/MS VOA

Analysis Batch: 423222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-126247-1	TRIP BLANK	Total/NA	Water	8260B	
240-126247-2	MW-196S_021120	Total/NA	Water	8260B	
MB 240-423222/7	Method Blank	Total/NA	Water	8260B	
LCS 240-423222/4	Lab Control Sample	Total/NA	Water	8260B	
240-126243-E-2 MS	Matrix Spike	Total/NA	Water	8260B	
240-126243-F-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 423320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-126247-2	MW-196S_021120	Total/NA	Water	8260B SIM	
MB 240-423320/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-423320/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-126250-C-3 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-126250-C-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Analysis Batch: 423408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-126247-2	MW-196S_021120	Total/NA	Water	8260B	
240-126247-3	MW-196_021120	Total/NA	Water	8260B	
240-126247-4	MW-197S_021120	Total/NA	Water	8260B	
240-126247-5	TW-16-03_021120	Total/NA	Water	8260B	
MB 240-423408/7	Method Blank	Total/NA	Water	8260B	
LCS 240-423408/4	Lab Control Sample	Total/NA	Water	8260B	
240-126251-E-5 MS	Matrix Spike	Total/NA	Water	8260B	
240-126251-F-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 423494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-126247-3	MW-196_021120	Total/NA	Water	8260B SIM	
240-126247-4	MW-197S_021120	Total/NA	Water	8260B SIM	
240-126247-5	TW-16-03_021120	Total/NA	Water	8260B SIM	
MB 240-423494/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-423494/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-126251-C-5 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-126251-C-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Lab Chronicle

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

Job ID: 240-126247-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-126247-1

Date Collected: 02/11/20 00:00

Matrix: Water

Date Received: 02/13/20 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	423222	02/18/20 17:12	LRW	TAL CAN

Client Sample ID: MW-196S_021120

Lab Sample ID: 240-126247-2

Date Collected: 02/11/20 10:41

Matrix: Water

Date Received: 02/13/20 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	423222	02/18/20 21:51	LRW	TAL CAN
Total/NA	Analysis	8260B		2	423408	02/19/20 15:28	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	423320	02/19/20 15:39	TJL2	TAL CAN

Client Sample ID: MW-196_021120

Lab Sample ID: 240-126247-3

Date Collected: 02/11/20 11:36

Matrix: Water

Date Received: 02/13/20 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		25	423408	02/19/20 15:52	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	423494	02/20/20 08:45	SAM	TAL CAN

Client Sample ID: MW-197S_021120

Lab Sample ID: 240-126247-4

Date Collected: 02/11/20 12:51

Matrix: Water

Date Received: 02/13/20 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	423408	02/19/20 15:02	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	423494	02/20/20 09:11	SAM	TAL CAN

Client Sample ID: TW-16-03_021120

Lab Sample ID: 240-126247-5

Date Collected: 02/11/20 14:46

Matrix: Water

Date Received: 02/13/20 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	423408	02/19/20 16:17	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	423494	02/20/20 09:37	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: 240-126247-1

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	02-23-20 *
Connecticut	State	PH-0590	12-31-19 *
Florida	NELAP	E87225	06-30-20
Georgia	State	4062	02-23-20 *
Illinois	NELAP	004498	07-31-20
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-20
Kentucky (UST)	State	112225	02-23-20
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	03-31-20
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-23-20 *
Pennsylvania	NELAP	68-00340	08-31-20
Texas	NELAP	T104704517-18-10	08-31-20
USDA	US Federal Programs	P330-16-00404	12-28-19 *
Virginia	NELAP	010101	09-14-20
Washington	State	C971	01-12-21
West Virginia DEP	State	210	12-31-20

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

2.7
2.7/3.0

4.7
/ 5.4

MICHIGAN
190

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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

Regulatory program: DW NPDES RCRA Other

Client Contact
 Company Name: 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: 30042006.0401.02
 PO # 30042006.0401.02

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

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

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

TestAmerica Laboratories, Inc.
 COC No: _____
 of _____ COCs

Sampler Name: Gary Suberley
Method of Shipment/Carrier:
Shipping/Tracking No:

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

Containers & Preservatives
 H2SO4 HNO3 HCl NaOH ZnAc NaOH Other: _____
 Tapers Other: _____

Matrix
 Air Sediment Solid Other: _____
 Aqueous

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

Analyses
 1,1-DCE 8260B cis-1,2-DCE 8260B Trans-1,2-DCE 8260B PCE 8260B TCE 8260B Vinyl Chloride 8260B 1,4-Dioxane 8260B SIM

Sample Date	Sample Time	Air	Sediment	Solid	Other	H2SO4	HNO3	HCl	NaOH	ZnAc	NaOH	Other	Filtered Sample (Y/N)	Composite C / Grab G	1,1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B	Vinyl Chloride 8260B	1,4-Dioxane 8260B SIM	Sample Specific Notes / Special Instructions:
02/11/20																						TRIP BLANK
02/11/20	10:41														X	X	X	X	X	X	X	
02/11/20	11:36														X	X	X	X	X	X	X	
02/11/20	12:51														X	X	X	X	X	X	X	
02/11/20	14:46														X	X	X	X	X	X	X	



Possible Hazard Identification
 Non-Hazard Irritant Inflammable Corrosive Unknown

Special Instructions/QC Requirements & Comments:
 Retained longer than 1 month Disposal By Lab Archive For _____ Months

Relinquished by:	Relinquished by:	Relinquished by:	Company:	Date/Time:	Company:	Date/Time:	Company:	Date/Time:	
[Signature]	Arcadis	2/11/20	15:55	Arcadis	2/11/20	17:00	Arcadis	2/11/20	15:16
[Signature]	Arcadis	2/11/20	17:00	Arcadis	2/11/20	18:00	Arcadis	2/11/20	17:00
[Signature]	Arcadis	2/12/20	12:15	Molly Nasson	2/12/20	12:30	ETA	2-13-20	8:40

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

Eurofins TestAmerica Canton Sample Receipt Form/Narrative

Login #: 126247

Canton Facility

Client Arcadis Site Name Cooler unpacked by: Ryan
Cooler Received on 2-13-20 Opened on 2-15-20 840
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time

Storage Location

TestAmerica Cooler # 7A Foam Box Client Cooler Box Other
Packing material used: Bubble Wrap Foam Plastic Bag None Other
COOLANT: Wet Ice Blue Ice Dry Ice Water None

- 1. Cooler temperature upon receipt IR GUN# IR-10 (CF +0.7 °C) Observed Cooler Temp. 2.9 °C Corrected Cooler Temp. 5.6 °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes/No
3. Shippers' packing slip attached to the cooler(s)?
4. Did custody papers accompany the sample(s)?
5. Were the custody papers relinquished & signed in the appropriate place?
6. Was/were the person(s) who collected the samples clearly identified on the COC?
7. Did all bottles arrive in good condition (Unbroken)?
8. Could all bottle labels be reconciled with the COC?
9. Were correct bottle(s) used for the test(s) indicated?
10. Sufficient quantity received to perform indicated analyses?
11. Are these work share samples?
12. Were all preserved sample(s) at the correct pH upon receipt?
13. Were VOAs on the COC?
14. Were air bubbles >6 mm in any VOA vials? Larger than this.
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #
16. Was a LL Hg or Me Hg trip blank present?

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: Ab

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: