



Environment Testing TestAmerica



ANALYTICAL REPORT

Eurofins TestAmerica, Edison
777 New Durham Road
Edison, NJ 08817
Tel: (732)549-3900

Laboratory Job ID: 460-197430-1
Client Project/Site: Ford LTP On-Site

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

Attn: Kristoffer Hinskey

Mike DelMonico

Authorized for release by:
11/30/2019 4:31:20 PM
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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	6
Client Sample Results	7
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	14
Lab Chronicle	15
Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receipt Checklists	22

Definitions/Glossary

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

Job ID: 460-197430-1

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: 460-197430-1

Job ID: 460-197430-1

Laboratory: Eurofins TestAmerica, Edison

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP On-Site

Report Number: 460-197430-1

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

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

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

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

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

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

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

RECEIPT

The samples were received on 11/22/2019 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 4.3° C and 4.7° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TRIP BLANK (460-197430-1), MW-196_112019 (460-197430-2), MW-196S_112019 (460-197430-3), MW-195S_112019 (460-197430-4), MW-194S_112019 (460-197430-5), MW-194_112019 (460-197430-6) and MW-198S_112019 (460-197430-7) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 11/27/2019.

Samples MW-196_112019 (460-197430-2)[2X] and MW-195S_112019 (460-197430-4)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-196_112019 (460-197430-2) and MW-195S_112019 (460-197430-4). Elevated reporting limits (RLs) are provided.

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

VOLATILE ORGANIC COMPOUNDS (GC/MS)

Samples MW-196_112019 (460-197430-2), MW-196S_112019 (460-197430-3), MW-195S_112019 (460-197430-4), MW-194S_112019

Case Narrative

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

Job ID: 460-197430-1

Job ID: 460-197430-1 (Continued)

Laboratory: Eurofins TestAmerica, Edison (Continued)

(460-197430-5), MW-194_112019 (460-197430-6) and MW-198S_112019 (460-197430-7) were analyzed for Volatile organic compounds (GC/MS) in accordance with SW-846 Method 8260C SIM. The samples were analyzed on 11/25/2019.

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

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15

Detection Summary

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

Job ID: 460-197430-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 460-197430-1

No Detections.

Client Sample ID: MW-196_112019

Lab Sample ID: 460-197430-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	0.73	J	2.0	0.53	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	210		2.0	0.44	ug/L	2		8260C	Total/NA
trans-1,2-Dichloroethene	55		2.0	0.47	ug/L	2		8260C	Total/NA
Trichloroethene	490		2.0	0.63	ug/L	2		8260C	Total/NA

Client Sample ID: MW-196S_112019

Lab Sample ID: 460-197430-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	68		1.0	0.22	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.7		1.0	0.24	ug/L	1		8260C	Total/NA
Trichloroethene	78		1.0	0.31	ug/L	1		8260C	Total/NA

Client Sample ID: MW-195S_112019

Lab Sample ID: 460-197430-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	120		10	2.2	ug/L	10		8260C	Total/NA
trans-1,2-Dichloroethene	150		10	2.4	ug/L	10		8260C	Total/NA
Trichloroethene	3400		10	3.1	ug/L	10		8260C	Total/NA
Vinyl chloride	16		10	1.7	ug/L	10		8260C	Total/NA

Client Sample ID: MW-194S_112019

Lab Sample ID: 460-197430-5

No Detections.

Client Sample ID: MW-194_112019

Lab Sample ID: 460-197430-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.5	J	2.0	0.33	ug/L	1		8260C SIM	Total/NA

Client Sample ID: MW-198S_112019

Lab Sample ID: 460-197430-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	0.43	J	1.0	0.31	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Edison

Client Sample Results

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

Job ID: 460-197430-1

Client Sample ID: MW-198S_112019

Lab Sample ID: 460-197430-7

Matrix: Water

Date Collected: 11/20/19 15:15
Date Received: 11/22/19 10:15

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.26	ug/L			11/27/19 08:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.22	ug/L			11/27/19 08:37	1
Tetrachloroethene	1.0	U	1.0	0.25	ug/L			11/27/19 08:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.24	ug/L			11/27/19 08:37	1
Trichloroethene	0.43	J	1.0	0.31	ug/L			11/27/19 08:37	1
Vinyl chloride	1.0	U	1.0	0.17	ug/L			11/27/19 08:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		74 - 132					11/27/19 08:37	1
Toluene-d8 (Surr)	97		80 - 120					11/27/19 08:37	1
Dibromofluoromethane (Surr)	102		72 - 131					11/27/19 08:37	1
4-Bromofluorobenzene	102		77 - 124					11/27/19 08:37	1

Surrogate Summary

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

Job ID: 460-197430-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (74-132)	TOL (80-120)	DBFM (72-131)	BFB (77-124)
460-197430-1	TRIP BLANK	96	98	102	101
460-197430-2	MW-196_112019	95	99	103	104
460-197430-3	MW-196S_112019	94	97	100	100
460-197430-4	MW-195S_112019	94	98	102	104
460-197430-5	MW-194S_112019	95	98	101	103
460-197430-6	MW-194_112019	95	97	101	103
460-197430-7	MW-198S_112019	96	97	102	102
LCS 460-658572/3	Lab Control Sample	93	99	98	103
LCSD 460-658572/4	Lab Control Sample Dup	99	99	100	104
MB 460-658572/8	Method Blank	96	99	101	101

Surrogate Legend

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

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

BFB = 4-Bromofluorobenzene

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		BFB (72-133)			
460-197430-2	MW-196_112019	95			
460-197430-3	MW-196S_112019	90			
460-197430-4	MW-195S_112019	94			
460-197430-5	MW-194S_112019	93			
460-197430-6	MW-194_112019	95			
460-197430-7	MW-198S_112019	92			
LCS 460-658046/3	Lab Control Sample	99			
LCSD 460-658046/4	Lab Control Sample Dup	99			
MB 460-658046/8	Method Blank	94			

Surrogate Legend

BFB = 4-Bromofluorobenzene

QC Sample Results

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

Job ID: 460-197430-1

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

Lab Sample ID: LCSD 460-658572/4

Matrix: Water

Analysis Batch: 658572

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

Surrogate	LCSD	LCSD
	%Recovery	Qualifier
4-Bromofluorobenzene	104	Limits 77 - 124

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

Lab Sample ID: MB 460-658046/8

Matrix: Water

Analysis Batch: 658046

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

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane			2.0	U	2.0	0.33	ug/L			11/25/19 11:20	1
Surrogate	MB	MB	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene			94		72 - 133					11/25/19 11:20	1

Lab Sample ID: LCS 460-658046/3

Matrix: Water

Analysis Batch: 658046

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

Analyte	LCS	LCS	Spike	Result	LCS	LCS	Unit	D	%Rec.	%Rec.	Limits
1,4-Dioxane				5.00		4.32	ug/L		86	66 - 135	
Surrogate	LCS	LCS	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene			99		72 - 133						

Lab Sample ID: LCSD 460-658046/4

Matrix: Water

Analysis Batch: 658046

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

Analyte	LCSD	LCSD	Spike	Result	LCSD	LCSD	Unit	D	%Rec.	RPD	Limit
1,4-Dioxane				5.00		5.18	ug/L		104	66 - 135	18
Surrogate	LCSD	LCSD	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene			99		72 - 133						

QC Association Summary

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

Job ID: 460-197430-1

GC/MS VOA

Analysis Batch: 658046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-197430-2	MW-196_112019	Total/NA	Water	8260C SIM	1
460-197430-3	MW-196S_112019	Total/NA	Water	8260C SIM	2
460-197430-4	MW-195S_112019	Total/NA	Water	8260C SIM	3
460-197430-5	MW-194S_112019	Total/NA	Water	8260C SIM	4
460-197430-6	MW-194_112019	Total/NA	Water	8260C SIM	5
460-197430-7	MW-198S_112019	Total/NA	Water	8260C SIM	6
MB 460-658046/8	Method Blank	Total/NA	Water	8260C SIM	7
LCS 460-658046/3	Lab Control Sample	Total/NA	Water	8260C SIM	8
LCSD 460-658046/4	Lab Control Sample Dup	Total/NA	Water	8260C SIM	9

Analysis Batch: 658572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-197430-1	TRIP BLANK	Total/NA	Water	8260C	10
460-197430-2	MW-196_112019	Total/NA	Water	8260C	11
460-197430-3	MW-196S_112019	Total/NA	Water	8260C	12
460-197430-4	MW-195S_112019	Total/NA	Water	8260C	13
460-197430-5	MW-194S_112019	Total/NA	Water	8260C	14
460-197430-6	MW-194_112019	Total/NA	Water	8260C	15
460-197430-7	MW-198S_112019	Total/NA	Water	8260C	
MB 460-658572/8	Method Blank	Total/NA	Water	8260C	
LCS 460-658572/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 460-658572/4	Lab Control Sample Dup	Total/NA	Water	8260C	

Lab Chronicle

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

Job ID: 460-197430-1

Client Sample ID: TRIP BLANK
Date Collected: 11/20/19 00:00
Date Received: 11/22/19 10:15

Lab Sample ID: 460-197430-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	658572	11/27/19 04:12	MZS	TAL EDI

Client Sample ID: MW-196_112019
Date Collected: 11/20/19 09:55
Date Received: 11/22/19 10:15

Lab Sample ID: 460-197430-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	658572	11/27/19 09:30	MZS	TAL EDI
Total/NA	Analysis	8260C SIM		1	658046	11/25/19 17:13	SZD	TAL EDI

Client Sample ID: MW-196S_112019
Date Collected: 11/20/19 10:50
Date Received: 11/22/19 10:15

Lab Sample ID: 460-197430-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	658572	11/27/19 09:03	MZS	TAL EDI
Total/NA	Analysis	8260C SIM		1	658046	11/25/19 17:37	SZD	TAL EDI

Client Sample ID: MW-195S_112019
Date Collected: 11/20/19 11:45
Date Received: 11/22/19 10:15

Lab Sample ID: 460-197430-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	658572	11/27/19 09:56	MZS	TAL EDI
Total/NA	Analysis	8260C SIM		1	658046	11/25/19 18:00	SZD	TAL EDI

Client Sample ID: MW-194S_112019
Date Collected: 11/20/19 13:00
Date Received: 11/22/19 10:15

Lab Sample ID: 460-197430-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	658572	11/27/19 07:44	MZS	TAL EDI
Total/NA	Analysis	8260C SIM		1	658046	11/25/19 18:46	SZD	TAL EDI

Client Sample ID: MW-194_112019
Date Collected: 11/20/19 13:55
Date Received: 11/22/19 10:15

Lab Sample ID: 460-197430-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	658572	11/27/19 08:10	MZS	TAL EDI
Total/NA	Analysis	8260C SIM		1	658046	11/25/19 18:23	SZD	TAL EDI

Lab Chronicle

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

Job ID: 460-197430-1

Client Sample ID: MW-198S_112019

Lab Sample ID: 460-197430-7

Matrix: Water

Date Collected: 11/20/19 15:15

Date Received: 11/22/19 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	658572	11/27/19 08:37	MZS	TAL EDI
Total/NA	Analysis	8260C SIM		1	658046	11/25/19 19:10	SZD	TAL EDI

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

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

Job ID: 460-197430-1

Laboratory: Eurofins TestAmerica, Edison

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0200	09-30-20
DE Haz. Subst. Cleanup Act (HSCA)	State	<cert No. >	12-31-21
Georgia	State	12028 (NJ)	06-30-20
Massachusetts	State Program	M-NJ312	06-30-20
New Jersey	NELAP	12028	06-30-20
New York	NELAP	11452	04-01-20
Pennsylvania	NELAP	68-00522	02-28-20
Rhode Island	State	LAO00132	12-30-19
USDA	US Federal Programs	P330-18-00135	05-03-21

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	06-01-20
Kansas	NELAP	E-10336	04-30-20
Kentucky (UST)	State	112225	02-23-20
Kentucky (WW)	State	KY98016	12-31-19
Minnesota	NELAP	OH00048	12-31-19
Minnesota (Petrofund)	State Program	3506	07-31-21
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	01-12-20
West Virginia DEP	State	210	12-31-19

Method Summary

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

Job ID: 460-197430-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL EDI
8260C SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL EDI
5030C	Purge and Trap	SW846	TAL EDI

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL EDI = Eurofins TestAmerica, Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

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

Job ID: 460-197430-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
460-197430-1	TRIP BLANK	Water	11/20/19 00:00	11/22/19 10:15	
460-197430-2	MW-196_112019	Water	11/20/19 09:55	11/22/19 10:15	
460-197430-3	MW-196S_112019	Water	11/20/19 10:50	11/22/19 10:15	
460-197430-4	MW-195S_112019	Water	11/20/19 11:45	11/22/19 10:15	
460-197430-5	MW-194S_112019	Water	11/20/19 13:00	11/22/19 10:15	
460-197430-6	MW-194_112019	Water	11/20/19 13:55	11/22/19 10:15	
460-197430-7	MW-198S_112019	Water	11/20/19 15:15	11/22/19 10:15	

1

2

3

4

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6

7

8

9

10

11

12

13

14

15

Eurofins TestAmerica, Edison

MICHIGAN 190

Chain of Custody Record

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Contact

Company Name: Arcadis	Client Project Manager: Kris Hinskey	Site Contact: Rachel Bielak	Lab Contact: Mike DelMonico
Address: 28550 Cabot Drive, Suite 500	Telephone: 248-994-2240	Telephone: 248-946-6331	<input type="checkbox"/> RCRA <input type="checkbox"/> Other
City/State/Zip: Novi, MI, 48377	Email: kristoffer.hinskey@arcadis.com		<input type="checkbox"/> COCs
Phone: 248-994-2240			<input type="checkbox"/> Wall-in Client
Project Name: Ford LTP On-Site			<input type="checkbox"/> Lab Sampling
Project Number: 30016346.0001B			<input type="checkbox"/> Job/SDG No.
PO # 30016346.0001B			

Sample Identification	Sample Date	Sample Time	Medium	Compliance Test Representatives								Sample Specific Notes / Special Instructions:	
				H2SO4	HNO3	HCl	NaOH	Zn(OH) ₂	Other:	NaOH	Zn(OH) ₂	Other:	
TRIP BLANK	—	—	Air	X						N	X	X	1 TRIP BLANK
MW-196-112019	11/20/19	0955	X		X					N	X	X	3 VOCs method 8260B SIM
MW-196S-112019	11/20/19	1050	X		X					N	X	X	3 VOCs method 8260B SIM
MW-195S-112019	11/20/19	1145	X		X					N	X	X	3 VOCs method 8260B SIM
MW-194S-112019	11/20/19	1300	X		X					N	X	X	3 VOCs method 8260B SIM
MW-194-112019	11/20/19	1355	X		X					N	X	X	3 VOCs method 8260B SIM
MW-198S-112019	11/20/19	1515	X		X					N	X	X	3 VOCs method 8260B SIM

Possible Hazard Identification	<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Corrosive	<input type="checkbox"/> Irritant	<input type="checkbox"/> Poison B	<input type="checkbox"/> Unknown
Special Instructions/QC Requirements & Comments:						

Submit all results through Cadena at jim.tomalia@cadena.com. Cadena #E203728

Level IV Reporting requested.

Relinquished by: <i>Christina Weavres</i>	Company: <i>Arcadis</i>	Date/Time: <i>11/20/19 1135</i>	Received by: <i>NOU Cold Storage</i>	Company: <i>Arcadis</i>
Relinquished by: <i>RACHEL BIELAK</i>	Company: <i>Arcadis</i>	Date/Time: <i>11/21/19 1100</i>	Received by: <i>Jim Tomalia</i>	Company: <i>Arcadis</i>
Relinquished by: <i>Jen Yeh</i>	Company: <i>ETI</i>	Date/Time: <i>11/21/19 1309</i>	Received by: <i>Jim Tomalia</i>	Company: <i>ETI</i>

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Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 460-197430-1

Login Number: 197430

List Source: Eurofins TestAmerica, Edison

List Number: 1

Creator: Rivera, Kenneth

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	False	Refer to Job Narrative for details.
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	