

ANALYTICAL REPORT

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Tel: (330)497-9396

Laboratory Job ID: 240-111296-1

Client Project/Site: Ford LTP Livonia MI - E203631

For:

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



Authorized for release by:
4/30/2019 11:27:51 AM

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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 Livonia MI - E203631

Job ID: 240-111296-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits

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 Livonia MI - E203631

Job ID: 240-111296-1

Job ID: 240-111296-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP Livonia MI - E203631

Report Number: 240-111296-1

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 4/20/2019 9:35 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.2° C and 1.6° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples MW-188S_041819 (240-111296-1), MW-125S_041819 (240-111296-2), MW-125_041819 (240-111296-3), MW-129S_041819 (240-111296-4), MW-129_041819 (240-111296-5) and TRIP BLANK (240-111296-6) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/26/2019.

1,2-Dichloroethane-d4 (Surr) and Dibromofluoromethane (Surr) failed the surrogate recovery criteria high for MW-188S_041819 (240-111296-1), MW-125S_041819 (240-111296-2), MW-129S_041819 (240-111296-4), MW-129_041819 (240-111296-5) and TRIP BLANK (240-111296-6).

1,2-Dichloroethane-d4 (Surr) failed the surrogate recovery criteria high for MW-125_041819 (240-111296-3). Refer to the QC report for details.

Sample MW-188S_041819 (240-111296-1)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Surrogate recovery for the following samples were outside the upper control limit: MW-188S_041819 (240-111296-1), MW-125S_041819 (240-111296-2), MW-125_041819 (240-111296-3), MW-129S_041819 (240-111296-4), MW-129_041819 (240-111296-5) and TRIP

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203631

Job ID: 240-111296-1

Job ID: 240-111296-1 (Continued)

Laboratory: Eurofins TestAmerica, Canton (Continued)

BLANK (240-111296-6). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

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-188S_041819 (240-111296-1), MW-125S_041819 (240-111296-2), MW-125_041819 (240-111296-3), MW-129S_041819 (240-111296-4) and MW-129_041819 (240-111296-5) were analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 04/23/2019.

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 Livonia MI - E203631

Job ID: 240-111296-1

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 Livonia MI - E203631

Job ID: 240-111296-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-111296-1	MW-188S_041819	Water	04/18/19 10:17	04/20/19 09:35
240-111296-2	MW-125S_041819	Water	04/18/19 10:15	04/20/19 09:35
240-111296-3	MW-125_041819	Water	04/18/19 12:12	04/20/19 09:35
240-111296-4	MW-129S_041819	Water	04/18/19 13:40	04/20/19 09:35
240-111296-5	MW-129_041819	Water	04/18/19 15:10	04/20/19 09:35
240-111296-6	TRIP BLANK	Water	04/18/19 00:00	04/20/19 09:35



Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203631

Job ID: 240-111296-1

Client Sample ID: MW-188S_041819

Lab Sample ID: 240-111296-1

No Detections.

Client Sample ID: MW-125S_041819

Lab Sample ID: 240-111296-2

No Detections.

Client Sample ID: MW-125_041819

Lab Sample ID: 240-111296-3

No Detections.

Client Sample ID: MW-129S_041819

Lab Sample ID: 240-111296-4

No Detections.

Client Sample ID: MW-129_041819

Lab Sample ID: 240-111296-5

No Detections.

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-111296-6

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

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Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Livonia MI - E203631

Job ID: 240-111296-1

Client Sample ID: MW-188S_041819

Lab Sample ID: 240-111296-1

Date Collected: 04/18/19 10:17

Matrix: Water

Date Received: 04/20/19 09:35

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			04/23/19 16:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		63 - 125		04/23/19 16:51	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			04/26/19 19:22	2
cis-1,2-Dichloroethene	2.0	U	2.0	0.32	ug/L			04/26/19 19:22	2
Tetrachloroethene	2.0	U	2.0	0.30	ug/L			04/26/19 19:22	2
trans-1,2-Dichloroethene	2.0	U	2.0	0.38	ug/L			04/26/19 19:22	2
Trichloroethene	2.0	U	2.0	0.20	ug/L			04/26/19 19:22	2
Vinyl chloride	2.0	U	2.0	0.40	ug/L			04/26/19 19:22	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	130	X	70 - 121		04/26/19 19:22	2
4-Bromofluorobenzene (Surr)	78		59 - 120		04/26/19 19:22	2
Toluene-d8 (Surr)	86		70 - 123		04/26/19 19:22	2
Dibromofluoromethane (Surr)	132	X	75 - 128		04/26/19 19:22	2

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Livonia MI - E203631

Job ID: 240-111296-1

Client Sample ID: MW-125S_041819

Lab Sample ID: 240-111296-2

Date Collected: 04/18/19 10:15

Matrix: Water

Date Received: 04/20/19 09:35

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	-		04/23/19 17:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		63 - 125					04/23/19 17:16	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	-		04/26/19 19:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L	-		04/26/19 19:46	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L	-		04/26/19 19:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L	-		04/26/19 19:46	1
Trichloroethene	1.0	U	1.0	0.10	ug/L	-		04/26/19 19:46	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L	-		04/26/19 19:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	134	X	70 - 121					04/26/19 19:46	1
4-Bromofluorobenzene (Surr)	77		59 - 120					04/26/19 19:46	1
Toluene-d8 (Surr)	86		70 - 123					04/26/19 19:46	1
Dibromofluoromethane (Surr)	129	X	75 - 128					04/26/19 19:46	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Livonia MI - E203631

Job ID: 240-111296-1

Client Sample ID: MW-125_041819

Lab Sample ID: 240-111296-3

Date Collected: 04/18/19 12:12

Matrix: Water

Date Received: 04/20/19 09:35

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	-		04/23/19 17:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 125		04/23/19 17:42	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	-		04/26/19 20:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L	-		04/26/19 20:09	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L	-		04/26/19 20:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L	-		04/26/19 20:09	1
Trichloroethene	1.0	U	1.0	0.10	ug/L	-		04/26/19 20:09	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L	-		04/26/19 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	128	X	70 - 121		04/26/19 20:09	1
4-Bromofluorobenzene (Surr)	76		59 - 120		04/26/19 20:09	1
Toluene-d8 (Surr)	88		70 - 123		04/26/19 20:09	1
Dibromofluoromethane (Surr)	126		75 - 128		04/26/19 20:09	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Livonia MI - E203631

Job ID: 240-111296-1

Client Sample ID: MW-129S_041819

Lab Sample ID: 240-111296-4

Date Collected: 04/18/19 13:40

Matrix: Water

Date Received: 04/20/19 09:35

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			04/23/19 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		63 - 125		04/23/19 18:07	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			04/26/19 20:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			04/26/19 20:33	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			04/26/19 20:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			04/26/19 20:33	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			04/26/19 20:33	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			04/26/19 20:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	133	X	70 - 121		04/26/19 20:33	1
4-Bromofluorobenzene (Surr)	75		59 - 120		04/26/19 20:33	1
Toluene-d8 (Surr)	87		70 - 123		04/26/19 20:33	1
Dibromofluoromethane (Surr)	134	X	75 - 128		04/26/19 20:33	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Livonia MI - E203631

Job ID: 240-111296-1

Client Sample ID: MW-129_041819

Lab Sample ID: 240-111296-5

Date Collected: 04/18/19 15:10

Matrix: Water

Date Received: 04/20/19 09:35

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	-		04/23/19 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		63 - 125		04/23/19 18:33	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	-		04/26/19 20:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L	-		04/26/19 20:57	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L	-		04/26/19 20:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L	-		04/26/19 20:57	1
Trichloroethene	1.0	U	1.0	0.10	ug/L	-		04/26/19 20:57	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L	-		04/26/19 20:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	132	X	70 - 121		04/26/19 20:57	1
4-Bromofluorobenzene (Surr)	76		59 - 120		04/26/19 20:57	1
Toluene-d8 (Surr)	87		70 - 123		04/26/19 20:57	1
Dibromofluoromethane (Surr)	129	X	75 - 128		04/26/19 20:57	1

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Livonia MI - E203631

Job ID: 240-111296-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-111296-6

Date Collected: 04/18/19 00:00

Matrix: Water

Date Received: 04/20/19 09:35

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			04/26/19 21:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			04/26/19 21:21	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			04/26/19 21:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			04/26/19 21:21	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			04/26/19 21:21	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			04/26/19 21:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	133	X	70 - 121		04/26/19 21:21	1
4-Bromofluorobenzene (Surr)	79		59 - 120		04/26/19 21:21	1
Toluene-d8 (Surr)	90		70 - 123		04/26/19 21:21	1
Dibromofluoromethane (Surr)	135	X	75 - 128		04/26/19 21:21	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203631

Job ID: 240-111296-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	TOL	DBFM
		(70-121)	(59-120)	(70-123)	(75-128)
240-111296-1	MW-188S_041819	130 X	78	86	132 X
240-111296-2	MW-125S_041819	134 X	77	86	129 X
240-111296-3	MW-125_041819	128 X	76	88	126
240-111296-4	MW-129S_041819	133 X	75	87	134 X
240-111296-5	MW-129_041819	132 X	76	87	129 X
240-111296-5 MS	MW-129_041819	103	112	103	102
240-111296-5 MSD	MW-129_041819	100	105	99	101
240-111296-6	TRIP BLANK	133 X	79	90	135 X
LCS 240-378439/4	Lab Control Sample	98	107	101	104
MB 240-378439/6	Method Blank	120	80	92	119

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
		(63-125)
240-111296-1	MW-188S_041819	101
240-111296-2	MW-125S_041819	104
240-111296-3	MW-125_041819	100
240-111296-4	MW-129S_041819	102
240-111296-5	MW-129_041819	100
240-111296-5 MS	MW-129_041819	103
240-111296-5 MSD	MW-129_041819	102
LCS 240-377781/4	Lab Control Sample	100
MB 240-377781/5	Method Blank	103

Surrogate Legend

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

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203631

Job ID: 240-111296-1

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

Lab Sample ID: MB 240-378439/6
Matrix: Water
Analysis Batch: 378439

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			04/26/19 13:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			04/26/19 13:34	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			04/26/19 13:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			04/26/19 13:34	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			04/26/19 13:34	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			04/26/19 13:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		70 - 121		04/26/19 13:34	1
4-Bromofluorobenzene (Surr)	80		59 - 120		04/26/19 13:34	1
Toluene-d8 (Surr)	92		70 - 123		04/26/19 13:34	1
Dibromofluoromethane (Surr)	119		75 - 128		04/26/19 13:34	1

Lab Sample ID: LCS 240-378439/4
Matrix: Water
Analysis Batch: 378439

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	10.5		ug/L		105	65 - 139
cis-1,2-Dichloroethene	10.0	9.80		ug/L		98	76 - 128
Tetrachloroethene	10.0	11.2		ug/L		112	74 - 130
trans-1,2-Dichloroethene	10.0	10.3		ug/L		103	78 - 133
Trichloroethene	10.0	9.96		ug/L		100	76 - 125
Vinyl chloride	10.0	9.08		ug/L		91	58 - 143

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		70 - 121
4-Bromofluorobenzene (Surr)	107		59 - 120
Toluene-d8 (Surr)	101		70 - 123
Dibromofluoromethane (Surr)	104		75 - 128

Lab Sample ID: 240-111296-5 MS
Matrix: Water
Analysis Batch: 378439

Client Sample ID: MW-129_041819
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	53 - 140
cis-1,2-Dichloroethene	1.0	U	10.0	9.38		ug/L		94	64 - 130
Tetrachloroethene	1.0	U	10.0	10.1		ug/L		101	51 - 136
trans-1,2-Dichloroethene	1.0	U	10.0	10.2		ug/L		102	68 - 133
Trichloroethene	1.0	U	10.0	9.01		ug/L		90	55 - 131
Vinyl chloride	1.0	U	10.0	8.52		ug/L		85	43 - 154

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		70 - 121
4-Bromofluorobenzene (Surr)	112		59 - 120
Toluene-d8 (Surr)	103		70 - 123

Eurofins TestAmerica, Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203631

Job ID: 240-111296-1

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

Lab Sample ID: 240-111296-5 MS
Matrix: Water
Analysis Batch: 378439

Client Sample ID: MW-129_041819
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	102		75 - 128

Lab Sample ID: 240-111296-5 MSD
Matrix: Water
Analysis Batch: 378439

Client Sample ID: MW-129_041819
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	9.84		ug/L		98	53 - 140	2	35
cis-1,2-Dichloroethene	1.0	U	10.0	9.47		ug/L		95	64 - 130	1	21
Tetrachloroethene	1.0	U	10.0	9.84		ug/L		98	51 - 136	2	23
trans-1,2-Dichloroethene	1.0	U	10.0	9.81		ug/L		98	68 - 133	4	24
Trichloroethene	1.0	U	10.0	8.99		ug/L		90	55 - 131	0	23
Vinyl chloride	1.0	U	10.0	8.52		ug/L		85	43 - 154	0	29

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		70 - 121
4-Bromofluorobenzene (Surr)	105		59 - 120
Toluene-d8 (Surr)	99		70 - 123
Dibromofluoromethane (Surr)	101		75 - 128

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

Lab Sample ID: MB 240-377781/5
Matrix: Water
Analysis Batch: 377781

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			04/23/19 12:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		63 - 125		04/23/19 12:09	1

Lab Sample ID: LCS 240-377781/4
Matrix: Water
Analysis Batch: 377781

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	11.3		ug/L		113	59 - 131

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		63 - 125

Lab Sample ID: 240-111296-5 MS
Matrix: Water
Analysis Batch: 377781

Client Sample ID: MW-129_041819
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	10.6		ug/L		106	52 - 129

Eurofins TestAmerica, Canton

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Livonia MI - E203631

Job ID: 240-111296-1

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

<i>Surrogate</i>	<i>MS %Recovery</i>	<i>MS Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	103		63 - 125

Lab Sample ID: 240-111296-5 MSD
Matrix: Water
Analysis Batch: 377781

Client Sample ID: MW-129_041819
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	52 - 129	2	13

<i>Surrogate</i>	<i>MSD %Recovery</i>	<i>MSD Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	102		63 - 125



QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203631

Job ID: 240-111296-1

GC/MS VOA

Analysis Batch: 377781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-111296-1	MW-188S_041819	Total/NA	Water	8260B SIM	
240-111296-2	MW-125S_041819	Total/NA	Water	8260B SIM	
240-111296-3	MW-125_041819	Total/NA	Water	8260B SIM	
240-111296-4	MW-129S_041819	Total/NA	Water	8260B SIM	
240-111296-5	MW-129_041819	Total/NA	Water	8260B SIM	
MB 240-377781/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-377781/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-111296-5 MS	MW-129_041819	Total/NA	Water	8260B SIM	
240-111296-5 MSD	MW-129_041819	Total/NA	Water	8260B SIM	

Analysis Batch: 378439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-111296-1	MW-188S_041819	Total/NA	Water	8260B	
240-111296-2	MW-125S_041819	Total/NA	Water	8260B	
240-111296-3	MW-125_041819	Total/NA	Water	8260B	
240-111296-4	MW-129S_041819	Total/NA	Water	8260B	
240-111296-5	MW-129_041819	Total/NA	Water	8260B	
240-111296-6	TRIP BLANK	Total/NA	Water	8260B	
MB 240-378439/6	Method Blank	Total/NA	Water	8260B	
LCS 240-378439/4	Lab Control Sample	Total/NA	Water	8260B	
240-111296-5 MS	MW-129_041819	Total/NA	Water	8260B	
240-111296-5 MSD	MW-129_041819	Total/NA	Water	8260B	

Lab Chronicle

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Livonia MI - E203631

Job ID: 240-111296-1

Client Sample ID: MW-188S_041819

Lab Sample ID: 240-111296-1

Date Collected: 04/18/19 10:17

Matrix: Water

Date Received: 04/20/19 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	378439	04/26/19 19:22	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	377781	04/23/19 16:51	SAM	TAL CAN

Client Sample ID: MW-125S_041819

Lab Sample ID: 240-111296-2

Date Collected: 04/18/19 10:15

Matrix: Water

Date Received: 04/20/19 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	378439	04/26/19 19:46	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	377781	04/23/19 17:16	SAM	TAL CAN

Client Sample ID: MW-125_041819

Lab Sample ID: 240-111296-3

Date Collected: 04/18/19 12:12

Matrix: Water

Date Received: 04/20/19 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	378439	04/26/19 20:09	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	377781	04/23/19 17:42	SAM	TAL CAN

Client Sample ID: MW-129S_041819

Lab Sample ID: 240-111296-4

Date Collected: 04/18/19 13:40

Matrix: Water

Date Received: 04/20/19 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	378439	04/26/19 20:33	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	377781	04/23/19 18:07	SAM	TAL CAN

Client Sample ID: MW-129_041819

Lab Sample ID: 240-111296-5

Date Collected: 04/18/19 15:10

Matrix: Water

Date Received: 04/20/19 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	378439	04/26/19 20:57	LRW	TAL CAN
Total/NA	Analysis	8260B SIM		1	377781	04/23/19 18:33	SAM	TAL CAN

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-111296-6

Date Collected: 04/18/19 00:00

Matrix: Water

Date Received: 04/20/19 09:35

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	378439	04/26/19 21:21	LRW	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 Livonia MI - E203631

Job ID: 240-111296-1

Laboratory: Eurofins TestAmerica, Canton

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

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	2927	02-23-20
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-19
Illinois	NELAP	5	200004	07-31-19
Kansas	NELAP	7	E-10336	04-30-19 *
Kentucky (UST)	State Program	4	58	02-23-20
Kentucky (WW)	State Program	4	98016	12-31-19
Minnesota	NELAP	5	039-999-348	12-31-19 *
Minnesota (Petrofund)	State Program	1	3506	07-31-19
Nevada	State Program	9	OH00048	07-31-19
New Jersey	NELAP	2	OH001	06-30-19
New York	NELAP	2	10975	03-31-20
Ohio VAP	State Program	5	CL0024	09-06-19
Oregon	NELAP	10	4062	02-23-20
Pennsylvania	NELAP	3	68-00340	08-31-19 *
Texas	NELAP	6	T104704517-18-10	08-31-19
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-19
Washington	State Program	10	C971	01-12-20 *
West Virginia DEP	State Program	3	210	12-31-19

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

TestAmerica Michigan
 10448 Citation Drive
 Suite 200
 Brighton, MI 48116
 Phone: 810.229.2763 Fax:

MICHIGAN
 190

Chain of Custody Record

287900

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING
 TestAmerica Laboratories, Inc.
 TAL-8210 (07/13)

1.4/C1.2
 1.5/C1.6

Regulatory Program: DW NPDES RCRA Other:

Company Name: Arcadis
 Address: 28750 Citation Dr Suite 200
 City/State/Zip: Novi MI 48249
 Phone: 248 994 2340
 Fax: 248 994 2340
 Project Name: FORD OFFSHORE BRANDBURG
 Site: Livonia MI
 PO# M1001454.0003

Client Contact
 Project Manager: Caitlyn O'Neil
 Tell/Fax: 248 994 2314

Analysis Turnaround Time
 CALENDAR DAYS WORKING DAYS
 TAT: If different from Below
 2 weeks
 1 week
 2 days
 1 day

Site Contact:
 Lab Contact: (82608) 1-1-DCE (82608) 1-1-DCE (82608) Trans-1,2-DCE (82608) PCE (82608) TCE (82608) VC (82608) (82608) 14005111

Date: 4-18-19
 Carrier: _____

COC No: _____ of _____ COCs

Sampler: _____
 For Lab Use Only:
 Walk-in Client:
 Lab Sampling:
 Job / SDG No.: _____

Sample Identification

Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes:
4-18-19	1017	G	W	6	Y	Y	MS/MSD
4-18-19	1015	G	W	6	Y	Y	TRIP blank
4-18-19	1212	G	W	6	Y	Y	
4-18-19	1340	G	W	6	Y	Y	
4-18-19	1510	G	W	18	Y	Y	
			W	1	Y	Y	

Barcode: 240-111296 Chain of Custody

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4= HNO3, 5= NaOH, 6= Other: 2

Possible Hazard Identification: _____
 Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments: Report on 1,1-DCE, 1,1,1-DCE, 1,2-DCE, CS, 1,2-DCE, trans-1,2-DCE, PCE, TCE and VC Submit results through column @ jing.tomalia@cadmus.com

Cadmus # E203631 Level LV Reporting

Custody Seal No.: _____
 Yes No

Relinquished by: Jon Lust
 Relinquished by: Caitlyn O'Neil
 Relinquished by: Zofy Noh

Received by: No Bill Spurge
 Received by: Zofy Noh
 Received in Laboratory by: [Signature]

Company: Arcadis
 Company: Arcadis
 Company: Arcadis

Date/Time: 4/17/19 1700
 Date/Time: 4/19/19 0800
 Date/Time: 4/18/19 12:08

Cooler Temp. (°C): Obs'd: _____ Corrd: _____
 Date/Time: 4-18-19 / 1749
 Date/Time: 4/19/19 9:00
 Date/Time: 4-20-19 935

Return to Client Disposal by Lab Archive for _____ Months

Therm ID No.: _____



TestAmerica Canton Sample Receipt Form/Narrative

Login #: 111296

Canton Facility

Client Arcadis Site Name
Cooler Received on 4-20-19 Opened on 4-20-19
FedEx: 1st Grd (Exp) UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Cooler unpacked by:

Receipt After-hours: Drop-off Date/Time Storage Location

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

- 1. Cooler temperature upon receipt
IR GUN# IR-8 (CF -0.2 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C
IR GUN #36 (CF +0.7°C) Observed Cooler Temp. °C Corrected Cooler Temp. °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 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# HC984738
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 # 57160 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:

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:

Login # : _____

TestAmerica Canton Sample Receipt Multiple Cooler Form				
Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)
<input checked="" type="radio"/> TA Client Box Other	<input checked="" type="radio"/> IR-8 #36	1.4	1.2	<input checked="" type="radio"/> Wet Ice Blue Ice Dry Ice Water None
<input checked="" type="radio"/> TA Client Box Other	<input checked="" type="radio"/> IR-8 #36	1.8	1.6	<input checked="" type="radio"/> Wet Ice Blue Ice Dry Ice Water None
TA Client Box Other	IR-8 #36			<input type="radio"/> Wet Ice Blue Ice Dry Ice <input type="radio"/> Water None
TA Client Box Other	IR-8 #36			<input type="radio"/> Wet Ice Blue Ice Dry Ice <input type="radio"/> Water None
TA Client Box Other	IR-8 #36			<input type="radio"/> Wet Ice Blue Ice Dry Ice <input type="radio"/> Water None
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TA Client Box Other	IR-8 #36			<input type="radio"/> Wet Ice Blue Ice Dry Ice <input type="radio"/> Water None
TA Client Box Other	IR-8 #36			<input type="radio"/> Wet Ice Blue Ice Dry Ice <input type="radio"/> Water None
TA Client Box Other	IR-8 #36			<input type="radio"/> Wet Ice Blue Ice Dry Ice <input type="radio"/> Water None
TA Client Box Other	IR-8 #36			<input type="radio"/> Wet Ice Blue Ice Dry Ice <input type="radio"/> Water None

See Temperature Excursion Form

WI-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

