

ANALYTICAL REPORT

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Tel: (330)497-9396

Laboratory Job ID: 240-134992-1
Client Project/Site: Ford LTP On-Site

For:
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Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

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

Job ID: 240-134992-1

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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

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

Job ID: 240-134992-1

Job ID: 240-134992-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP On-Site

Report Number: 240-134992-1

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.

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

RECEIPT

The samples were received on 8/14/2020 9:30 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.8° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TRIP BLANK (240-134992-1), MW-56_081220 (240-134992-2), MW-122_081220 (240-134992-3), MW-57_081220 (240-134992-4) and MW-58_081220 (240-134992-5) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 08/24/2020 and 08/25/2020.

The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: MW-56_081220 (240-134992-2), MW-58_081220 (240-134992-5), MW-58-MS_081220 (240-134992-5[MS]) and MW-58-MSD_081220 (240-134992-5[MSD]). Elevated reporting limits (RLs) are provided.

The continuing calibration verification (CCV) associated with batch 240-448600 recovered above the upper control limit for Vinyl Chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. MW-58_081220 (240-134992-5) and (CCVIS 240-448600/3)

The MS/MSD for batch 448443 was not reported because the parent sample needs a different dilution: TRIP BLANK (240-134992-1), MW-56_081220 (240-134992-2), MW-122_081220 (240-134992-3) and MW-57_081220 (240-134992-4).

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

Case Narrative

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

Job ID: 240-134992-1

Job ID: 240-134992-1 (Continued)

Laboratory: Eurofins TestAmerica, Canton (Continued)

VOLATILE ORGANIC COMPOUNDS (GCMS SIM)

Samples MW-56_081220 (240-134992-2), MW-122_081220 (240-134992-3), MW-57_081220 (240-134992-4) and MW-58_081220 (240-134992-5) were analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The samples were analyzed on 08/22/2020.

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

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Method Summary

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

Job ID: 240-134992-1

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: 240-134992-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-134992-1	TRIP BLANK	Water	08/12/20 00:00	08/14/20 09:30	
240-134992-2	MW-56_081220	Water	08/12/20 10:15	08/14/20 09:30	
240-134992-3	MW-122_081220	Water	08/12/20 11:50	08/14/20 09:30	
240-134992-4	MW-57_081220	Water	08/12/20 14:00	08/14/20 09:30	
240-134992-5	MW-58_081220	Water	08/12/20 15:50	08/14/20 09:30	

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- 12
- 13
- 14

Detection Summary

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

Job ID: 240-134992-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-134992-1

No Detections.

Client Sample ID: MW-56_081220

Lab Sample ID: 240-134992-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.1	J	2.0	0.86	ug/L	1		8260B SIM	Total/NA

Client Sample ID: MW-122_081220

Lab Sample ID: 240-134992-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	1.4		1.0	0.50	ug/L	1		8260B	Total/NA

Client Sample ID: MW-57_081220

Lab Sample ID: 240-134992-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.8	J	2.0	0.86	ug/L	1		8260B SIM	Total/NA
Vinyl chloride	1.3		1.0	0.50	ug/L	1		8260B	Total/NA

Client Sample ID: MW-58_081220

Lab Sample ID: 240-134992-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.6		2.0	0.86	ug/L	1		8260B SIM	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: 240-134992-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-134992-1

Date Collected: 08/12/20 00:00

Matrix: Water

Date Received: 08/14/20 09:30

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	0.46	ug/L			08/24/20 18:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.38	ug/L			08/24/20 18:40	1
Tetrachloroethene	1.0	U	1.0	0.33	ug/L			08/24/20 18:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.43	ug/L			08/24/20 18:40	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/24/20 18:40	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/24/20 18:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 130		08/24/20 18:40	1
4-Bromofluorobenzene (Surr)	106		47 - 134		08/24/20 18:40	1
Toluene-d8 (Surr)	101		69 - 122		08/24/20 18:40	1
Dibromofluoromethane (Surr)	112		78 - 129		08/24/20 18:40	1

Client Sample Results

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

Job ID: 240-134992-1

Client Sample ID: MW-56_081220

Lab Sample ID: 240-134992-2

Date Collected: 08/12/20 10:15

Matrix: Water

Date Received: 08/14/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.1	J	2.0	0.86	ug/L			08/22/20 12:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		70 - 133		08/22/20 12:23	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	3.3	U	3.3	1.5	ug/L			08/24/20 19:05	3.33
cis-1,2-Dichloroethene	3.3	U	3.3	1.3	ug/L			08/24/20 19:05	3.33
Tetrachloroethene	3.3	U	3.3	1.1	ug/L			08/24/20 19:05	3.33
trans-1,2-Dichloroethene	3.3	U	3.3	1.4	ug/L			08/24/20 19:05	3.33
Trichloroethene	3.3	U	3.3	1.2	ug/L			08/24/20 19:05	3.33
Vinyl chloride	3.3	U	3.3	1.7	ug/L			08/24/20 19:05	3.33

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 130		08/24/20 19:05	3.33
4-Bromofluorobenzene (Surr)	104		47 - 134		08/24/20 19:05	3.33
Toluene-d8 (Surr)	99		69 - 122		08/24/20 19:05	3.33
Dibromofluoromethane (Surr)	112		78 - 129		08/24/20 19:05	3.33

Client Sample Results

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

Job ID: 240-134992-1

Client Sample ID: MW-122_081220

Lab Sample ID: 240-134992-3

Date Collected: 08/12/20 11:50

Matrix: Water

Date Received: 08/14/20 09:30

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			08/22/20 12:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 133		08/22/20 12:47	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	0.46	ug/L			08/24/20 19:29	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.38	ug/L			08/24/20 19:29	1
Tetrachloroethene	1.0	U	1.0	0.33	ug/L			08/24/20 19:29	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.43	ug/L			08/24/20 19:29	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/24/20 19:29	1
Vinyl chloride	1.4		1.0	0.50	ug/L			08/24/20 19:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 130		08/24/20 19:29	1
4-Bromofluorobenzene (Surr)	107		47 - 134		08/24/20 19:29	1
Toluene-d8 (Surr)	101		69 - 122		08/24/20 19:29	1
Dibromofluoromethane (Surr)	112		78 - 129		08/24/20 19:29	1

Client Sample Results

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

Job ID: 240-134992-1

Client Sample ID: MW-57_081220

Lab Sample ID: 240-134992-4

Date Collected: 08/12/20 14:00

Matrix: Water

Date Received: 08/14/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.8	J	2.0	0.86	ug/L			08/22/20 13:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 133					08/22/20 13:11	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	0.46	ug/L			08/24/20 19:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.38	ug/L			08/24/20 19:54	1
Tetrachloroethene	1.0	U	1.0	0.33	ug/L			08/24/20 19:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.43	ug/L			08/24/20 19:54	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/24/20 19:54	1
Vinyl chloride	1.3		1.0	0.50	ug/L			08/24/20 19:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		75 - 130					08/24/20 19:54	1
4-Bromofluorobenzene (Surr)	108		47 - 134					08/24/20 19:54	1
Toluene-d8 (Surr)	100		69 - 122					08/24/20 19:54	1
Dibromofluoromethane (Surr)	113		78 - 129					08/24/20 19:54	1

Client Sample Results

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

Job ID: 240-134992-1

Client Sample ID: MW-58_081220

Lab Sample ID: 240-134992-5

Date Collected: 08/12/20 15:50

Matrix: Water

Date Received: 08/14/20 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.6		2.0	0.86	ug/L			08/22/20 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		70 - 133		08/22/20 13:36	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	0.92	ug/L			08/25/20 13:38	2
cis-1,2-Dichloroethene	2.0	U	2.0	0.76	ug/L			08/25/20 13:38	2
Tetrachloroethene	2.0	U	2.0	0.65	ug/L			08/25/20 13:38	2
trans-1,2-Dichloroethene	2.0	U	2.0	0.87	ug/L			08/25/20 13:38	2
Trichloroethene	2.0	U	2.0	0.72	ug/L			08/25/20 13:38	2
Vinyl chloride	2.0	U	2.0	0.99	ug/L			08/25/20 13:38	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 130		08/25/20 13:38	2
4-Bromofluorobenzene (Surr)	109		47 - 134		08/25/20 13:38	2
Toluene-d8 (Surr)	103		69 - 122		08/25/20 13:38	2
Dibromofluoromethane (Surr)	115		78 - 129		08/25/20 13:38	2

Surrogate Summary

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

Job ID: 240-134992-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (75-130)	BFB (47-134)	TOL (69-122)	DBFM (78-129)
240-134992-1	TRIP BLANK	100	106	101	112
240-134992-2	MW-56_081220	101	104	99	112
240-134992-3	MW-122_081220	101	107	101	112
240-134992-4	MW-57_081220	101	108	100	113
240-134992-5	MW-58_081220	102	109	103	115
240-134992-5 MS	MW-58-MS_081220	94	107	102	105
240-134992-5 MSD	MW-58-MSD_081220	94	108	104	107
LCS 240-448443/5	Lab Control Sample	92	108	102	106
LCS 240-448600/9	Lab Control Sample	95	108	103	107
LCSD 240-448600/10	Lab Control Sample Dup	93	108	103	106
MB 240-448443/8	Method Blank	100	108	101	114
MB 240-448600/8	Method Blank	104	108	100	115

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA
		(70-133)
240-134992-2	MW-56_081220	91
240-134992-3	MW-122_081220	89
240-134992-4	MW-57_081220	89
240-134992-5	MW-58_081220	89
240-134992-5 MS	MW-58-MS_081220	92
240-134992-5 MSD	MW-58-MSD_081220	92
LCS 240-448279/4	Lab Control Sample	88
MB 240-448279/5	Method Blank	86

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-134992-1

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

Lab Sample ID: MB 240-448443/8
Matrix: Water
Analysis Batch: 448443

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/24/20 14:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.38	ug/L			08/24/20 14:58	1
Tetrachloroethene	1.0	U	1.0	0.33	ug/L			08/24/20 14:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.43	ug/L			08/24/20 14:58	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/24/20 14:58	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/24/20 14:58	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	100		75 - 130		08/24/20 14:58	1
4-Bromofluorobenzene (Surr)	108		47 - 134		08/24/20 14:58	1
Toluene-d8 (Surr)	101		69 - 122		08/24/20 14:58	1
Dibromofluoromethane (Surr)	114		78 - 129		08/24/20 14:58	1

Lab Sample ID: LCS 240-448443/5
Matrix: Water
Analysis Batch: 448443

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	20.0	18.4		ug/L		92	75 - 124
Tetrachloroethene	20.0	23.3		ug/L		116	70 - 125
trans-1,2-Dichloroethene	20.0	18.6		ug/L		93	74 - 130
Trichloroethene	20.0	20.2		ug/L		101	71 - 121
Vinyl chloride	20.0	22.5		ug/L		112	61 - 134

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	92		75 - 130
4-Bromofluorobenzene (Surr)	108		47 - 134
Toluene-d8 (Surr)	102		69 - 122
Dibromofluoromethane (Surr)	106		78 - 129

Lab Sample ID: MB 240-448600/8
Matrix: Water
Analysis Batch: 448600

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/25/20 12:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.38	ug/L			08/25/20 12:22	1
Tetrachloroethene	1.0	U	1.0	0.33	ug/L			08/25/20 12:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.43	ug/L			08/25/20 12:22	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/25/20 12:22	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/25/20 12:22	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	104		75 - 130		08/25/20 12:22	1
4-Bromofluorobenzene (Surr)	108		47 - 134		08/25/20 12:22	1
Toluene-d8 (Surr)	100		69 - 122		08/25/20 12:22	1

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-134992-1

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

Lab Sample ID: MB 240-448600/8
Matrix: Water
Analysis Batch: 448600

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

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Dibromofluoromethane (Surr)	115		78 - 129		08/25/20 12:22	1

Lab Sample ID: LCS 240-448600/9
Matrix: Water
Analysis Batch: 448600

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
1,1-Dichloroethene	20.0	18.4		ug/L		92	73 - 129	
cis-1,2-Dichloroethene	20.0	16.8		ug/L		84	75 - 124	
Tetrachloroethene	20.0	21.2		ug/L		106	70 - 125	
trans-1,2-Dichloroethene	20.0	17.6		ug/L		88	74 - 130	
Trichloroethene	20.0	18.5		ug/L		93	71 - 121	
Vinyl chloride	20.0	24.7		ug/L		123	61 - 134	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	95		75 - 130
4-Bromofluorobenzene (Surr)	108		47 - 134
Toluene-d8 (Surr)	103		69 - 122
Dibromofluoromethane (Surr)	107		78 - 129

Lab Sample ID: LCSD 240-448600/10
Matrix: Water
Analysis Batch: 448600

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD Limit	
1,1-Dichloroethene	20.0	18.9		ug/L		94	73 - 129	3	35	
cis-1,2-Dichloroethene	20.0	17.6		ug/L		88	75 - 124	4	35	
Tetrachloroethene	20.0	22.0		ug/L		110	70 - 125	3	35	
trans-1,2-Dichloroethene	20.0	18.4		ug/L		92	74 - 130	5	35	
Trichloroethene	20.0	19.4		ug/L		97	71 - 121	5	35	
Vinyl chloride	20.0	22.2		ug/L		111	61 - 134	11	35	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	93		75 - 130
4-Bromofluorobenzene (Surr)	108		47 - 134
Toluene-d8 (Surr)	103		69 - 122
Dibromofluoromethane (Surr)	106		78 - 129

Lab Sample ID: 240-134992-5 MS
Matrix: Water
Analysis Batch: 448600

Client Sample ID: MW-58-MS_081220
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
1,1-Dichloroethene	2.0	U	40.0	36.8		ug/L		92	64 - 132	
cis-1,2-Dichloroethene	2.0	U	40.0	34.2		ug/L		86	68 - 121	
Tetrachloroethene	2.0	U	40.0	43.0		ug/L		108	52 - 129	
trans-1,2-Dichloroethene	2.0	U	40.0	35.0		ug/L		87	69 - 126	
Trichloroethene	2.0	U	40.0	37.1		ug/L		93	56 - 124	

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-134992-1

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

Lab Sample ID: 240-134992-5 MS

Client Sample ID: MW-58-MS_081220

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 448600

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	2.0	U	40.0	47.6		ug/L		119	49 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	94		75 - 130						
4-Bromofluorobenzene (Surr)	107		47 - 134						
Toluene-d8 (Surr)	102		69 - 122						
Dibromofluoromethane (Surr)	105		78 - 129						

Lab Sample ID: 240-134992-5 MSD

Client Sample ID: MW-58-MSD_081220

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 448600

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	2.0	U	40.0	38.8		ug/L		97	64 - 132	5	35
cis-1,2-Dichloroethene	2.0	U	40.0	36.2		ug/L		91	68 - 121	6	35
Tetrachloroethene	2.0	U	40.0	44.7		ug/L		112	52 - 129	4	35
trans-1,2-Dichloroethene	2.0	U	40.0	37.1		ug/L		93	69 - 126	6	35
Trichloroethene	2.0	U	40.0	39.3		ug/L		98	56 - 124	6	35
Vinyl chloride	2.0	U	40.0	47.2		ug/L		118	49 - 136	1	35
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	94		75 - 130								
4-Bromofluorobenzene (Surr)	108		47 - 134								
Toluene-d8 (Surr)	104		69 - 122								
Dibromofluoromethane (Surr)	107		78 - 129								

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

Lab Sample ID: MB 240-448279/5

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 448279

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			08/22/20 07:01	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		70 - 133					08/22/20 07:01	1

Lab Sample ID: LCS 240-448279/4

Client Sample ID: Lab Control Sample

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 448279

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	10.0	10.2		ug/L		102	80 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	88		70 - 133				

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-134992-1

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

Lab Sample ID: 240-134992-5 MS
Matrix: Water
Analysis Batch: 448279

Client Sample ID: MW-58-MS_081220
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.6		10.0	11.9		ug/L		94	46 - 170
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	92		70 - 133						

Lab Sample ID: 240-134992-5 MSD
Matrix: Water
Analysis Batch: 448279

Client Sample ID: MW-58-MSD_081220
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	2.6		10.0	11.1		ug/L		85	46 - 170	7	26
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	92		70 - 133								



QC Association Summary

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

Job ID: 240-134992-1

GC/MS VOA

Analysis Batch: 448279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-134992-2	MW-56_081220	Total/NA	Water	8260B SIM	
240-134992-3	MW-122_081220	Total/NA	Water	8260B SIM	
240-134992-4	MW-57_081220	Total/NA	Water	8260B SIM	
240-134992-5	MW-58_081220	Total/NA	Water	8260B SIM	
MB 240-448279/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-448279/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-134992-5 MS	MW-58-MS_081220	Total/NA	Water	8260B SIM	
240-134992-5 MSD	MW-58-MSD_081220	Total/NA	Water	8260B SIM	

Analysis Batch: 448443

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-134992-1	TRIP BLANK	Total/NA	Water	8260B	
240-134992-2	MW-56_081220	Total/NA	Water	8260B	
240-134992-3	MW-122_081220	Total/NA	Water	8260B	
240-134992-4	MW-57_081220	Total/NA	Water	8260B	
MB 240-448443/8	Method Blank	Total/NA	Water	8260B	
LCS 240-448443/5	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 448600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-134992-5	MW-58_081220	Total/NA	Water	8260B	
MB 240-448600/8	Method Blank	Total/NA	Water	8260B	
LCS 240-448600/9	Lab Control Sample	Total/NA	Water	8260B	
LCSD 240-448600/10	Lab Control Sample Dup	Total/NA	Water	8260B	
240-134992-5 MS	MW-58-MS_081220	Total/NA	Water	8260B	
240-134992-5 MSD	MW-58-MSD_081220	Total/NA	Water	8260B	

Lab Chronicle

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

Job ID: 240-134992-1

Client Sample ID: TRIP BLANK

Date Collected: 08/12/20 00:00

Date Received: 08/14/20 09:30

Lab Sample ID: 240-134992-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	448443	08/24/20 18:40	HMB	TAL CAN

Client Sample ID: MW-56_081220

Date Collected: 08/12/20 10:15

Date Received: 08/14/20 09:30

Lab Sample ID: 240-134992-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		3.33	448443	08/24/20 19:05	HMB	TAL CAN
Total/NA	Analysis	8260B SIM		1	448279	08/22/20 12:23	TJL2	TAL CAN

Client Sample ID: MW-122_081220

Date Collected: 08/12/20 11:50

Date Received: 08/14/20 09:30

Lab Sample ID: 240-134992-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	448443	08/24/20 19:29	HMB	TAL CAN
Total/NA	Analysis	8260B SIM		1	448279	08/22/20 12:47	TJL2	TAL CAN

Client Sample ID: MW-57_081220

Date Collected: 08/12/20 14:00

Date Received: 08/14/20 09:30

Lab Sample ID: 240-134992-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	448443	08/24/20 19:54	HMB	TAL CAN
Total/NA	Analysis	8260B SIM		1	448279	08/22/20 13:11	TJL2	TAL CAN

Client Sample ID: MW-58_081220

Date Collected: 08/12/20 15:50

Date Received: 08/14/20 09:30

Lab Sample ID: 240-134992-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	448600	08/25/20 13:38	HMB	TAL CAN
Total/NA	Analysis	8260B SIM		1	448279	08/22/20 13:36	TJL2	TAL CAN

Laboratory References:

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

Accreditation/Certification Summary

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

Job ID: 240-134992-1

Laboratory: Eurofins TestAmerica, Canton

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-21
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21
Illinois	NELAP	004498	07-31-20 *
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21
Kentucky (WW)	State	KY98016	12-31-20
Minnesota	NELAP	OH00048	12-31-20
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-24-21
Pennsylvania	NELAP	68-00340	08-31-20
Texas	NELAP	T104704517-18-10	08-31-20
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-20
Washington	State	C971	01-12-21
West Virginia DEP	State	210	12-31-20

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



Chain of Custody Record

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

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: 30050315.401.03 PO # 30050315.401.03		Regulatory program: <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other		Site Contact: Julia McClafferty Telephone: 734-644-5131		Lab Contact: Mike DeMonico Telephone: 330-497-9396		TestAmerica Laboratories, Inc COC No: / of COCs For lab use only Walk-in client Lab sampling Job/SDG No.			
Sample Information Sampler Name: Patrick Labadie Method of Shipment/Carrier: Shipping/Tracking No:		Analysis Turnaround Time TAT if different from below: <input type="checkbox"/> 3 weeks <input checked="" type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day 10 day		Analyses 1,4-Dioxane 8260B SIM Vinyl Chloride 8260B TCE 8260B PCE 8260B Trans-1,2-DCE 8260B Cis-1,2-DCE 8260B 1,1-DCE 8260B Composite C / Grab-C Filtered Sample (Y/N)		Containers & Preservatives H2SO4 HNO3 HCl NaOH ZnO Upret Other:		Matrix Aqueous Sediment Solid Other:		Sample Specific Notes / Special Instructions: 1 Trip blank 3 VOAs for 8260B 3 VOAs for 8260B SIM	
Sample Identification TRIP BLANK MW-56-081220 MW-122-081220 MW-57-081220 MW-58-081220 MW-58-MS-081220 MW-58-MSD-081220		Sample Date 8-12-20 		Sample Time 10:15 11:50 14:00 15:58 15:58 15:50		<input checked="" type="checkbox"/> Non-Hazardous <input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive <input type="checkbox"/> Irritant <input type="checkbox"/> Toxic		Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazardous <input type="checkbox"/> Flammable <input type="checkbox"/> Corrosive <input type="checkbox"/> Irritant <input type="checkbox"/> Toxic			
Special Instructions/QC Requirements & Comments: Submit all results through Cadena at jtomalia@cadenaco.com. Cadena # Level IV Reporting requested.											
Relinquished by: [Signature]		Company: Arcadis		Date/Time: 8-12-20 17:00		Received by: [Signature]		Company: Arcadis		Date/Time: 8-12-20 17:00	
Relinquished by: [Signature]		Company: Arcadis		Date/Time: 8/15/20 14:30		Received by: [Signature]		Company: EMM		Date/Time: 8/13/20 14:30	
Relinquished by: [Signature]		Company: EMM		Date/Time: 8/13/20 14:30		Received by: [Signature]		Company: EMM		Date/Time: 8/14/20 9:30	



240-134992 Chain of Custody

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Eurofins TestAmerica Canton Sample Receipt Form/Narrative

Login # : 134992

Canton Facility

Client Arcadis Site Name _____
 Cooler Received on 8/14/20 Opened on 8/14/20
 FedEx: Gfd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Cooler unpacked by: [Signature]

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

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

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-10 (CF +0.7 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN #IR-11 (CF +0.9 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 2 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
11. 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 pH Strip Lot# HC911298
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 # 0417701E 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: _____

This is entry

Eurofins TestAmerica Canton Sample Receipt Multiple Cooler Form

Cooler Description (Circle)				IR Gun # (Circle)		Observed Temp °C	Corrected Temp °C	Coolant (Circle)		
TA	Client	Box	Other	IR-10	IR-11	2.0	2.9	Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-10	IR-11	3.9	4.8	Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-10	IR-11			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-10	IR-11			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-10	IR-11			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-10	IR-11			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-10	IR-11			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-10	IR-11			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-10	IR-11			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-10	IR-11			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-10	IR-11			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-10	IR-11			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-10	IR-11			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-10	IR-11			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-10	IR-11			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-10	IR-11			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-10	IR-11			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-10	IR-11			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-10	IR-11			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-10	IR-11			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-10	IR-11			Wet Ice	Blue Ice	Dry Ice
								Water	None	

See Temperature Excursion Form