

ANALYTICAL REPORT

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

Laboratory Job ID: 240-149697-1
Client Project/Site: Ford LTP On-Site

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

Attn: Kristoffer Hinskey



Authorized for release by:
6/4/2021 10:46:28 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 On-Site

Job ID: 240-149697-1

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: 240-149697-1

Job ID: 240-149697-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative
240-149697-1

Comments

No additional comments.

Receipt

The samples were received on 5/20/2021 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.7° C.

GC/MS VOA

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

VOA Prep

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

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Method Summary

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

Job ID: 240-149697-1

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

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

Job ID: 240-149697-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-149697-1	TRIP BLANK_97	Water	05/17/21 00:00	05/20/21 08:00	
240-149697-2	MW-194_051721	Water	05/17/21 10:12	05/20/21 08:00	
240-149697-3	MW-194S_051721	Water	05/17/21 11:18	05/20/21 08:00	
240-149697-4	MW-196_051721	Water	05/17/21 14:05	05/20/21 08:00	
240-149697-5	MW-196S_051721	Water	05/17/21 15:15	05/20/21 08:00	
240-149697-6	DUP-05	Water	05/17/21 00:00	05/20/21 08:00	

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- 10
- 11
- 12
- 13
- 14

Detection Summary

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

Job ID: 240-149697-1

Client Sample ID: TRIP BLANK_97

Lab Sample ID: 240-149697-1

No Detections.

Client Sample ID: MW-194_051721

Lab Sample ID: 240-149697-2

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

Client Sample ID: MW-194S_051721

Lab Sample ID: 240-149697-3

No Detections.

Client Sample ID: MW-196_051721

Lab Sample ID: 240-149697-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	330		13	2.0	ug/L	12.5		8260B	Total/NA
trans-1,2-Dichloroethene	92		13	2.4	ug/L	12.5		8260B	Total/NA
Trichloroethene	400		13	1.3	ug/L	12.5		8260B	Total/NA

Client Sample ID: MW-196S_051721

Lab Sample ID: 240-149697-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	67		2.0	0.32	ug/L	2		8260B	Total/NA
trans-1,2-Dichloroethene	1.8	J	2.0	0.38	ug/L	2		8260B	Total/NA
Trichloroethene	90		2.0	0.20	ug/L	2		8260B	Total/NA

Client Sample ID: DUP-05

Lab Sample ID: 240-149697-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	67		1.0	0.16	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.6		1.0	0.19	ug/L	1		8260B	Total/NA
Trichloroethene	95		1.0	0.10	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Client Sample Results

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

Job ID: 240-149697-1

Client Sample ID: TRIP BLANK_97

Lab Sample ID: 240-149697-1

Date Collected: 05/17/21 00:00

Matrix: Water

Date Received: 05/20/21 08:00

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			05/27/21 14:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/27/21 14:25	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/27/21 14:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/27/21 14:25	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/27/21 14:25	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/27/21 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		75 - 130		05/27/21 14:25	1
4-Bromofluorobenzene (Surr)	99		47 - 134		05/27/21 14:25	1
Toluene-d8 (Surr)	102		69 - 122		05/27/21 14:25	1
Dibromofluoromethane (Surr)	109		78 - 129		05/27/21 14:25	1

Client Sample Results

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

Job ID: 240-149697-1

Client Sample ID: MW-194_051721

Lab Sample ID: 240-149697-2

Date Collected: 05/17/21 10:12

Matrix: Water

Date Received: 05/20/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.3	J	2.0	0.86	ug/L			05/24/21 23:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 133					05/24/21 23:59	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			05/27/21 16:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/27/21 16:43	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/27/21 16:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/27/21 16:43	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/27/21 16:43	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/27/21 16:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		75 - 130					05/27/21 16:43	1
4-Bromofluorobenzene (Surr)	99		47 - 134					05/27/21 16:43	1
Toluene-d8 (Surr)	107		69 - 122					05/27/21 16:43	1
Dibromofluoromethane (Surr)	113		78 - 129					05/27/21 16:43	1

Client Sample Results

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

Job ID: 240-149697-1

Client Sample ID: MW-194S_051721

Lab Sample ID: 240-149697-3

Date Collected: 05/17/21 11:18

Matrix: Water

Date Received: 05/20/21 08:00

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			05/25/21 00:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 133					05/25/21 00:24	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			05/27/21 17:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/27/21 17:06	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/27/21 17:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/27/21 17:06	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/27/21 17:06	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/27/21 17:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		75 - 130					05/27/21 17:06	1
4-Bromofluorobenzene (Surr)	99		47 - 134					05/27/21 17:06	1
Toluene-d8 (Surr)	106		69 - 122					05/27/21 17:06	1
Dibromofluoromethane (Surr)	118		78 - 129					05/27/21 17:06	1

Client Sample Results

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

Job ID: 240-149697-1

Client Sample ID: MW-196_051721

Lab Sample ID: 240-149697-4

Date Collected: 05/17/21 14:05

Matrix: Water

Date Received: 05/20/21 08:00

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			05/25/21 00:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 133					05/25/21 00:49	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	13	U	13	2.4	ug/L			05/27/21 17:52	12.5
cis-1,2-Dichloroethene	330		13	2.0	ug/L			05/27/21 17:52	12.5
Tetrachloroethene	13	U	13	1.9	ug/L			05/27/21 17:52	12.5
trans-1,2-Dichloroethene	92		13	2.4	ug/L			05/27/21 17:52	12.5
Trichloroethene	400		13	1.3	ug/L			05/27/21 17:52	12.5
Vinyl chloride	13	U	13	2.5	ug/L			05/27/21 17:52	12.5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		75 - 130					05/27/21 17:52	12.5
4-Bromofluorobenzene (Surr)	97		47 - 134					05/27/21 17:52	12.5
Toluene-d8 (Surr)	106		69 - 122					05/27/21 17:52	12.5
Dibromofluoromethane (Surr)	111		78 - 129					05/27/21 17:52	12.5

Client Sample Results

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

Job ID: 240-149697-1

Client Sample ID: MW-196S_051721

Lab Sample ID: 240-149697-5

Date Collected: 05/17/21 15:15

Matrix: Water

Date Received: 05/20/21 08:00

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			05/25/21 01:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 133		05/25/21 01:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	2.0	U	2.0	0.38	ug/L			05/27/21 17:29	2
cis-1,2-Dichloroethene	67		2.0	0.32	ug/L			05/27/21 17:29	2
Tetrachloroethene	2.0	U	2.0	0.30	ug/L			05/27/21 17:29	2
trans-1,2-Dichloroethene	1.8 J		2.0	0.38	ug/L			05/27/21 17:29	2
Trichloroethene	90		2.0	0.20	ug/L			05/27/21 17:29	2
Vinyl chloride	2.0	U	2.0	0.40	ug/L			05/27/21 17:29	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		75 - 130		05/27/21 17:29	2
4-Bromofluorobenzene (Surr)	98		47 - 134		05/27/21 17:29	2
Toluene-d8 (Surr)	106		69 - 122		05/27/21 17:29	2
Dibromofluoromethane (Surr)	113		78 - 129		05/27/21 17:29	2

Client Sample Results

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

Job ID: 240-149697-1

Client Sample ID: DUP-05
Date Collected: 05/17/21 00:00
Date Received: 05/20/21 08:00

Lab Sample ID: 240-149697-6
Matrix: Water

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			05/25/21 01:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 133					05/25/21 01:39	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/29/21 18:11	1
cis-1,2-Dichloroethene	67		1.0	0.16	ug/L			05/29/21 18:11	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/29/21 18:11	1
trans-1,2-Dichloroethene	1.6		1.0	0.19	ug/L			05/29/21 18:11	1
Trichloroethene	95		1.0	0.10	ug/L			05/29/21 18:11	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/29/21 18:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		75 - 130					05/29/21 18:11	1
4-Bromofluorobenzene (Surr)	99		47 - 134					05/29/21 18:11	1
Toluene-d8 (Surr)	102		69 - 122					05/29/21 18:11	1
Dibromofluoromethane (Surr)	109		78 - 129					05/29/21 18:11	1

Surrogate Summary

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

Job ID: 240-149697-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (75-130)	BFB (47-134)	TOL (69-122)	DBFM (78-129)
240-149697-1	TRIP BLANK_97	110	99	102	109
240-149697-2	MW-194_051721	113	99	107	113
240-149697-3	MW-194S_051721	118	99	106	118
240-149697-4	MW-196_051721	114	97	106	111
240-149697-4 MS	MW-196_051721	107	106	105	106
240-149697-4 MSD	MW-196_051721	104	107	105	107
240-149697-5	MW-196S_051721	116	98	106	113
240-149697-6	DUP-05	104	99	102	109
240-149874-J-2 MS	Matrix Spike	98	102	104	103
240-149874-R-2 MSD	Matrix Spike Duplicate	94	102	105	103
LCS 240-487854/5	Lab Control Sample	105	108	108	107
LCS 240-488191/5	Lab Control Sample	106	111	110	113
MB 240-487854/7	Method Blank	109	98	101	111
MB 240-488191/7	Method Blank	108	104	107	112

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DCA (70-133)
240-149527-I-2 MS	Matrix Spike	96
240-149527-P-2 MSD	Matrix Spike Duplicate	97
240-149697-2	MW-194_051721	97
240-149697-3	MW-194S_051721	96
240-149697-4	MW-196_051721	96
240-149697-5	MW-196S_051721	98
240-149697-6	DUP-05	98
LCS 240-487242/4	Lab Control Sample	100
MB 240-487242/5	Method Blank	97

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-149697-1

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

Lab Sample ID: MB 240-487854/7
Matrix: Water
Analysis Batch: 487854

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			05/27/21 13:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/27/21 13:39	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/27/21 13:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/27/21 13:39	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/27/21 13:39	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/27/21 13:39	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		75 - 130		05/27/21 13:39	1
4-Bromofluorobenzene (Surr)	98		47 - 134		05/27/21 13:39	1
Toluene-d8 (Surr)	101		69 - 122		05/27/21 13:39	1
Dibromofluoromethane (Surr)	111		78 - 129		05/27/21 13:39	1

Lab Sample ID: LCS 240-487854/5
Matrix: Water
Analysis Batch: 487854

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	25.0	28.8		ug/L		115	73 - 129
cis-1,2-Dichloroethene	25.0	26.9		ug/L		108	75 - 124
Tetrachloroethene	25.0	26.3		ug/L		105	70 - 125
trans-1,2-Dichloroethene	25.0	27.7		ug/L		111	74 - 130
Trichloroethene	25.0	26.4		ug/L		105	71 - 121
Vinyl chloride	25.0	26.4		ug/L		105	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		75 - 130
4-Bromofluorobenzene (Surr)	108		47 - 134
Toluene-d8 (Surr)	108		69 - 122
Dibromofluoromethane (Surr)	107		78 - 129

Lab Sample ID: 240-149697-4 MS
Matrix: Water
Analysis Batch: 487854

Client Sample ID: MW-196_051721
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	13	U	313	344		ug/L		110	64 - 132
cis-1,2-Dichloroethene	330		313	653		ug/L		105	68 - 121
Tetrachloroethene	13	U	313	311		ug/L		100	52 - 129
trans-1,2-Dichloroethene	92		313	424		ug/L		106	69 - 126
Trichloroethene	400		313	700		ug/L		97	56 - 124
Vinyl chloride	13	U	313	303		ug/L		97	49 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	107		75 - 130
4-Bromofluorobenzene (Surr)	106		47 - 134
Toluene-d8 (Surr)	105		69 - 122

QC Sample Results

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

Job ID: 240-149697-1

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

Lab Sample ID: 240-149697-4 MS
Matrix: Water
Analysis Batch: 487854

Client Sample ID: MW-196_051721
Prep Type: Total/NA

Surrogate	%Recovery	MS MS Qualifier	Limits
Dibromofluoromethane (Surr)	106		78 - 129

Lab Sample ID: 240-149697-4 MSD
Matrix: Water
Analysis Batch: 487854

Client Sample ID: MW-196_051721
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	13	U	313	340		ug/L		109	64 - 132	1	35
cis-1,2-Dichloroethene	330		313	648		ug/L		103	68 - 121	1	35
Tetrachloroethene	13	U	313	307		ug/L		98	52 - 129	1	35
trans-1,2-Dichloroethene	92		313	419		ug/L		105	69 - 126	1	35
Trichloroethene	400		313	703		ug/L		97	56 - 124	0	35
Vinyl chloride	13	U	313	310		ug/L		99	49 - 136	2	35

Surrogate	%Recovery	MSD MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		75 - 130
4-Bromofluorobenzene (Surr)	107		47 - 134
Toluene-d8 (Surr)	105		69 - 122
Dibromofluoromethane (Surr)	107		78 - 129

Lab Sample ID: MB 240-488191/7
Matrix: Water
Analysis Batch: 488191

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			05/29/21 13:33	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/29/21 13:33	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/29/21 13:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/29/21 13:33	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/29/21 13:33	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/29/21 13:33	1

Surrogate	%Recovery	MB MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		75 - 130		05/29/21 13:33	1
4-Bromofluorobenzene (Surr)	104		47 - 134		05/29/21 13:33	1
Toluene-d8 (Surr)	107		69 - 122		05/29/21 13:33	1
Dibromofluoromethane (Surr)	112		78 - 129		05/29/21 13:33	1

Lab Sample ID: LCS 240-488191/5
Matrix: Water
Analysis Batch: 488191

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	25.0	24.3		ug/L		97	73 - 129
cis-1,2-Dichloroethene	25.0	26.8		ug/L		107	75 - 124
Tetrachloroethene	25.0	28.2		ug/L		113	70 - 125
trans-1,2-Dichloroethene	25.0	26.7		ug/L		107	74 - 130
Trichloroethene	25.0	27.7		ug/L		111	71 - 121

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-149697-1

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

Lab Sample ID: LCS 240-488191/5

Matrix: Water

Analysis Batch: 488191

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	25.0	29.4		ug/L		117	61 - 134
Surrogate							
	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	106		75 - 130				
4-Bromofluorobenzene (Surr)	111		47 - 134				
Toluene-d8 (Surr)	110		69 - 122				
Dibromofluoromethane (Surr)	113		78 - 129				

Lab Sample ID: 240-149874-J-2 MS

Matrix: Water

Analysis Batch: 488191

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	1.0	U	25.0	20.9		ug/L		83	64 - 132
cis-1,2-Dichloroethene	1.0	U	25.0	23.3		ug/L		93	68 - 121
Tetrachloroethene	1.0	U	25.0	24.8		ug/L		99	52 - 129
trans-1,2-Dichloroethene	1.0	U	25.0	22.5		ug/L		90	69 - 126
Trichloroethene	1.0	U	25.0	23.7		ug/L		95	56 - 124
Vinyl chloride	1.0	U	25.0	25.2		ug/L		101	49 - 136
Surrogate									
	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	98		75 - 130						
4-Bromofluorobenzene (Surr)	102		47 - 134						
Toluene-d8 (Surr)	104		69 - 122						
Dibromofluoromethane (Surr)	103		78 - 129						

Lab Sample ID: 240-149874-R-2 MSD

Matrix: Water

Analysis Batch: 488191

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	1.0	U	25.0	22.1		ug/L		89	64 - 132	6	35
cis-1,2-Dichloroethene	1.0	U	25.0	24.3		ug/L		97	68 - 121	4	35
Tetrachloroethene	1.0	U	25.0	26.4		ug/L		106	52 - 129	6	35
trans-1,2-Dichloroethene	1.0	U	25.0	23.6		ug/L		95	69 - 126	5	35
Trichloroethene	1.0	U	25.0	25.0		ug/L		100	56 - 124	5	35
Vinyl chloride	1.0	U	25.0	27.7		ug/L		111	49 - 136	10	35
Surrogate											
	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	94		75 - 130								
4-Bromofluorobenzene (Surr)	102		47 - 134								
Toluene-d8 (Surr)	105		69 - 122								
Dibromofluoromethane (Surr)	103		78 - 129								

QC Sample Results

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

Job ID: 240-149697-1

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

Lab Sample ID: MB 240-487242/5
Matrix: Water
Analysis Batch: 487242

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			05/24/21 16:31	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		70 - 133					05/24/21 16:31	1

Lab Sample ID: LCS 240-487242/4
Matrix: Water
Analysis Batch: 487242

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	10.3		ug/L		103	80 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	100		70 - 133				

Lab Sample ID: 240-149527-I-2 MS
Matrix: Water
Analysis Batch: 487242

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	2.0	U	10.0	10.3		ug/L		103	46 - 170
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	96		70 - 133						

Lab Sample ID: 240-149527-P-2 MSD
Matrix: Water
Analysis Batch: 487242

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	10.2		ug/L		102	46 - 170	1	26
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	97		70 - 133								

QC Association Summary

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

Job ID: 240-149697-1

GC/MS VOA

Analysis Batch: 487242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149697-2	MW-194_051721	Total/NA	Water	8260B SIM	
240-149697-3	MW-194S_051721	Total/NA	Water	8260B SIM	
240-149697-4	MW-196_051721	Total/NA	Water	8260B SIM	
240-149697-5	MW-196S_051721	Total/NA	Water	8260B SIM	
240-149697-6	DUP-05	Total/NA	Water	8260B SIM	
MB 240-487242/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-487242/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-149527-I-2 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-149527-P-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Analysis Batch: 487854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149697-1	TRIP BLANK_97	Total/NA	Water	8260B	
240-149697-2	MW-194_051721	Total/NA	Water	8260B	
240-149697-3	MW-194S_051721	Total/NA	Water	8260B	
240-149697-4	MW-196_051721	Total/NA	Water	8260B	
240-149697-5	MW-196S_051721	Total/NA	Water	8260B	
MB 240-487854/7	Method Blank	Total/NA	Water	8260B	
LCS 240-487854/5	Lab Control Sample	Total/NA	Water	8260B	
240-149697-4 MS	MW-196_051721	Total/NA	Water	8260B	
240-149697-4 MSD	MW-196_051721	Total/NA	Water	8260B	

Analysis Batch: 488191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149697-6	DUP-05	Total/NA	Water	8260B	
MB 240-488191/7	Method Blank	Total/NA	Water	8260B	
LCS 240-488191/5	Lab Control Sample	Total/NA	Water	8260B	
240-149874-J-2 MS	Matrix Spike	Total/NA	Water	8260B	
240-149874-R-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Lab Chronicle

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

Job ID: 240-149697-1

Client Sample ID: TRIP BLANK_97
Date Collected: 05/17/21 00:00
Date Received: 05/20/21 08:00

Lab Sample ID: 240-149697-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	487854	05/27/21 14:25	SAM	TAL CAN

Client Sample ID: MW-194_051721
Date Collected: 05/17/21 10:12
Date Received: 05/20/21 08:00

Lab Sample ID: 240-149697-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	487854	05/27/21 16:43	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	487242	05/24/21 23:59	CS	TAL CAN

Client Sample ID: MW-194S_051721
Date Collected: 05/17/21 11:18
Date Received: 05/20/21 08:00

Lab Sample ID: 240-149697-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	487854	05/27/21 17:06	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	487242	05/25/21 00:24	CS	TAL CAN

Client Sample ID: MW-196_051721
Date Collected: 05/17/21 14:05
Date Received: 05/20/21 08:00

Lab Sample ID: 240-149697-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		12.5	487854	05/27/21 17:52	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	487242	05/25/21 00:49	CS	TAL CAN

Client Sample ID: MW-196S_051721
Date Collected: 05/17/21 15:15
Date Received: 05/20/21 08:00

Lab Sample ID: 240-149697-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	487854	05/27/21 17:29	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	487242	05/25/21 01:14	CS	TAL CAN

Client Sample ID: DUP-05
Date Collected: 05/17/21 00:00
Date Received: 05/20/21 08:00

Lab Sample ID: 240-149697-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	488191	05/29/21 18:11	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	487242	05/25/21 01:39	CS	TAL CAN

Laboratory References:

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

Eurofins TestAmerica, Canton

Accreditation/Certification Summary

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

Job ID: 240-149697-1

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	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-21
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21 *
Kentucky (UST)	State	112225	02-23-22
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

* 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

Regulatory program: DW NPDES RCRA Other

Client Contact: Arcadis
 Address: 28550 Cabot Drive, Suite 500
 City/State/Zip: Novi, MI, 48377
 Phone: 248-994-2240
 Project Name: Ford I.P. On-Site
 Project Number: 30080642.401.03
 PO # 30080642.401.03

Client Project Manager: Kris Hinskey
 Telephone: 248-994-2240
 Email: kristoffer.hinskey@arcadis.com
 Sampler Name: *S. Hase*
 Method of Shipment/Carrier:
 Shipping/Tracking No:

Site Contact: Julia McClafferty
 Telephone: 734-644-5131
 Analysis Turnaround Time:
 TAT if different from below:
 3 weeks
 10 day
 2 weeks
 1 week
 2 days
 1 day

Lab Contact: Mike DelMonico
 Telephone: 330-497-9396
 For lab use only:
 Walk-in client
 Lab sampling
 Job/SDG No:

Filtered Sample (Y/N) Composite=C / Grab=G
 1-DCE 8260B
 cis-1,2-DCE 8260B
 Trans-1,2-DCE 8260B
 PCE 8260B
 TCE 8260B
 Vinyl Chloride 8260B
 1,4-Dioxane 8260B SIM

Containers & Preservatives:
 H2SO4
 HNO3
 HCl
 NaOH
 ZnAc
 NaOH
 Others:
 Claps
 Others:

Matrix:
 Aqueous
 Sediment
 Solid
 Other:

Sample Date Sample Time
 --- -- -- --
 5/17/21 1012
 1118
 1405
 1515
 5/17/21 ---

Sample Identification
 TRIP BLANK 97
 MW-194-OS1721
 MW-194S-OS1721
 MW-196-OS1721
 MW-196S-OS1721
 DUP OS-OS1721
 DUP-05

Sample Specific Notes / Special Instructions:
 1 Trip Blank
 3 VOAs for 8260B
 3 VOAs for 8260B SIM

COC No: 1 of 1 COCs

Sample Disposal (A fee may apply):
 Return to Client
 Unknown
 Poison B
 Irritant

Possible Hazard Identification:
 Non-Hazard
 Flammable
 Corrosive
 Irritant

Special Instructions/QC Requirements & Comments:
 Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728
 Level IV Reporting requested.

Relinquished by: *[Signature]*
 Date/Time: 5/17/21 1600

Relinquished to: *[Signature]*
 Date/Time: 5/18/21 945

Relinquished by: *[Signature]*
 Date/Time: 5/18/21 8:00

Company: Arcadis
 Date/Time: 5/17/21 1600

Company: Arcadis
 Date/Time: 5/18/21 945

Company: Arcadis
 Date/Time: 5/18/21 8:00



Sample Identification	Sample Date	Sample Time	Matrix	Containers & Preservatives	Filtered Sample (Y/N)	Composite=C / Grab=G	1-DCE 8260B	cis-1,2-DCE 8260B	Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B	Vinyl Chloride 8260B	1,4-Dioxane 8260B SIM	Sample Specific Notes / Special Instructions
TRIP BLANK 97	5/17/21	1012	Aqueous	HCl	Y	G	X	X	X	X	X	X	X	1 Trip Blank
MW-194-OS1721	5/17/21	1012	Aqueous	HCl	Y	G	X	X	X	X	X	X	X	3 VOAs for 8260B
MW-194S-OS1721	5/17/21	1118	Aqueous	HCl	Y	G	X	X	X	X	X	X	X	3 VOAs for 8260B SIM
MW-196-OS1721	5/17/21	1405	Aqueous	HCl	Y	G	X	X	X	X	X	X	X	
MW-196S-OS1721	5/17/21	1515	Aqueous	HCl	Y	G	X	X	X	X	X	X	X	
DUP OS-OS1721	5/17/21	---	Aqueous	HCl	Y	G	X	X	X	X	X	X	X	
DUP-05	5/17/21	---	Aqueous	HCl	Y	G	X	X	X	X	X	X	X	

149697
Login #: ~~195697~~

Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Client Arcoadis Site Name _____ Cooler unpacked by: [Signature]
Cooler Received on 5/20/21 Opened on 5/20/21
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____


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-11 (CF +0.1 °C) Observed Cooler Temp. 2.6 °C Corrected Cooler Temp. 2.7 °C
IR GUN #IR-12 (CF +0.2 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity _____ Yes No
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
-Were tamper/custody seals intact and uncompromised? Yes No NA

3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? Yes No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)? Yes No
10. Were correct bottle(s) used for the test(s) indicated? Yes No
11. Sufficient quantity received to perform indicated analyses? Yes No
12. Are these work share samples and all listed on the COC? Yes No
If yes, Questions 13-17 have been checked at the originating laboratory.

13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC022887
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials?  Larger than this. Yes No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Covered Yes No
17. Was a LL Hg or Me Hg trip blank present? Yes No

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

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

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by: _____

19. 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)

20. 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: _____