

ANALYTICAL REPORT

Eurofins Canton
180 S. Van Buren Avenue
Barberton, OH 44203
Tel: (330)497-9396

Laboratory Job ID: 240-166886-1
Client Project/Site: Ford LTP - Off Site

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

Attn: Kristoffer Hinskey



Authorized for release by:
5/31/2022 4:50:22 PM
Nicole Kalis, Project Manager I
(330)497-9396
Nicole.Kalis@et.eurofinsus.com

Designee for
Michael DelMonico, Project Manager I
(330)497-9396
Michael.DelMonico@et.eurofinsus.com

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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 - Off Site

Job ID: 240-166886-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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 - Off Site

Job ID: 240-166886-1

Job ID: 240-166886-1

Laboratory: Eurofins Canton

Narrative

**Job Narrative
240-166886-1**

Comments

No additional comments.

Receipt

The samples were received on 5/19/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.1° C and 0.7° 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 - Off Site

Job ID: 240-166886-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL CAN
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
5030C	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 Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

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Sample Summary

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

Job ID: 240-166886-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-166886-1	TRIP BLANK_155	Water	05/17/22 00:00	05/19/22 08:00
240-166886-2	MW-81S_051722	Water	05/17/22 11:45	05/19/22 08:00
240-166886-3	MW-81_051722	Water	05/17/22 12:50	05/19/22 08:00

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Detection Summary

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

Job ID: 240-166886-1

Client Sample ID: TRIP BLANK_155

Lab Sample ID: 240-166886-1

No Detections.

Client Sample ID: MW-81S_051722

Lab Sample ID: 240-166886-2

No Detections.

Client Sample ID: MW-81_051722

Lab Sample ID: 240-166886-3

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins Canton

Client Sample Results

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

Job ID: 240-166886-1

Client Sample ID: TRIP BLANK_155

Lab Sample ID: 240-166886-1

Date Collected: 05/17/22 00:00

Matrix: Water

Date Received: 05/19/22 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/26/22 19:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/22 19:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/22 19:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/22 19:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/22 19:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/26/22 19:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		62 - 137		05/26/22 19:57	1
4-Bromofluorobenzene (Surr)	102		56 - 136		05/26/22 19:57	1
Toluene-d8 (Surr)	88		78 - 122		05/26/22 19:57	1
Dibromofluoromethane (Surr)	83		73 - 120		05/26/22 19:57	1

Client Sample Results

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

Job ID: 240-166886-1

Client Sample ID: MW-81S_051722

Lab Sample ID: 240-166886-2

Date Collected: 05/17/22 11:45

Matrix: Water

Date Received: 05/19/22 08:00

Method: 8260D 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			05/25/22 04:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		66 - 120		05/25/22 04:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/26/22 20:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/22 20:20	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/22 20:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/22 20:20	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/22 20:20	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/26/22 20:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		62 - 137		05/26/22 20:20	1
4-Bromofluorobenzene (Surr)	102		56 - 136		05/26/22 20:20	1
Toluene-d8 (Surr)	91		78 - 122		05/26/22 20:20	1
Dibromofluoromethane (Surr)	85		73 - 120		05/26/22 20:20	1

Client Sample Results

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

Job ID: 240-166886-1

Client Sample ID: MW-81_051722

Lab Sample ID: 240-166886-3

Date Collected: 05/17/22 12:50

Matrix: Water

Date Received: 05/19/22 08:00

Method: 8260D 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			05/25/22 20:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		66 - 120		05/25/22 20:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/26/22 20:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/22 20:44	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/22 20:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/22 20:44	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/22 20:44	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/26/22 20:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		62 - 137		05/26/22 20:44	1
4-Bromofluorobenzene (Surr)	106		56 - 136		05/26/22 20:44	1
Toluene-d8 (Surr)	92		78 - 122		05/26/22 20:44	1
Dibromofluoromethane (Surr)	85		73 - 120		05/26/22 20:44	1

Surrogate Summary

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

Job ID: 240-166886-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (62-137)	BFB (56-136)	TOL (78-122)	DBFM (73-120)
240-166886-1	TRIP BLANK_155	89	102	88	83
240-166886-2	MW-81S_051722	89	102	91	85
240-166886-3	MW-81_051722	92	106	92	85
240-166886-3 MS	MW-81-MS_051722	90	105	90	86
240-166886-3 MSD	MW-81-MSD_051722	88	104	91	88
LCS 240-528090/5	Lab Control Sample	88	104	90	87
MB 240-528090/8	Method Blank	88	103	89	86

Surrogate Legend

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

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DCA (66-120)
240-166883-I-3 MS	Matrix Spike	80
240-166883-O-3 MSD	Matrix Spike Duplicate	83
240-166886-2	MW-81S_051722	88
240-166886-3	MW-81_051722	106
240-166886-3 MS	MW-81-MS_051722	109
240-166886-3 MSD	MW-81-MSD_051722	110
LCS 240-527795/3	Lab Control Sample	81
LCS 240-527981/3	Lab Control Sample	106
MB 240-527795/4	Method Blank	80
MB 240-527981/4	Method Blank	107

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-166886-1

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

Lab Sample ID: MB 240-528090/8
Matrix: Water
Analysis Batch: 528090

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	0.49	ug/L			05/26/22 12:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/22 12:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/22 12:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/22 12:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/22 12:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/26/22 12:52	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	88		62 - 137		05/26/22 12:52	1
4-Bromofluorobenzene (Surr)	103		56 - 136		05/26/22 12:52	1
Toluene-d8 (Surr)	89		78 - 122		05/26/22 12:52	1
Dibromofluoromethane (Surr)	86		73 - 120		05/26/22 12:52	1

Lab Sample ID: LCS 240-528090/5
Matrix: Water
Analysis Batch: 528090

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1-Dichloroethene	20.0	18.6		ug/L		93	63 - 134
cis-1,2-Dichloroethene	20.0	18.5		ug/L		92	77 - 123
Tetrachloroethene	20.0	18.3		ug/L		91	76 - 123
trans-1,2-Dichloroethene	20.0	17.5		ug/L		87	75 - 124
Trichloroethene	20.0	18.2		ug/L		91	70 - 122
Vinyl chloride	20.0	17.1		ug/L		85	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	88		62 - 137
4-Bromofluorobenzene (Surr)	104		56 - 136
Toluene-d8 (Surr)	90		78 - 122
Dibromofluoromethane (Surr)	87		73 - 120

Lab Sample ID: 240-166886-3 MS
Matrix: Water
Analysis Batch: 528090

Client Sample ID: MW-81-MS_051722
Prep Type: Total/NA

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
1,1-Dichloroethene	1.0	U	20.0	18.1		ug/L		91	56 - 135
cis-1,2-Dichloroethene	1.0	U	20.0	17.7		ug/L		88	66 - 128
Tetrachloroethene	1.0	U	20.0	17.2		ug/L		86	62 - 131
trans-1,2-Dichloroethene	1.0	U	20.0	16.8		ug/L		84	56 - 136
Trichloroethene	1.0	U	20.0	17.6		ug/L		88	61 - 124
Vinyl chloride	1.0	U	20.0	18.9		ug/L		94	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	90		62 - 137
4-Bromofluorobenzene (Surr)	105		56 - 136
Toluene-d8 (Surr)	90		78 - 122

QC Sample Results

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

Job ID: 240-166886-1

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

Lab Sample ID: 240-166886-3 MS
Matrix: Water
Analysis Batch: 528090

Client Sample ID: MW-81-MS_051722
Prep Type: Total/NA

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	86		73 - 120

Lab Sample ID: 240-166886-3 MSD
Matrix: Water
Analysis Batch: 528090

Client Sample ID: MW-81-MSD_051722
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	20.0	18.6		ug/L		93	56 - 135	3	26
cis-1,2-Dichloroethene	1.0	U	20.0	18.4		ug/L		92	66 - 128	4	14
Tetrachloroethene	1.0	U	20.0	17.7		ug/L		88	62 - 131	2	20
trans-1,2-Dichloroethene	1.0	U	20.0	17.6		ug/L		88	56 - 136	4	15
Trichloroethene	1.0	U	20.0	17.4		ug/L		87	61 - 124	1	15
Vinyl chloride	1.0	U	20.0	17.8		ug/L		89	43 - 157	6	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	88		62 - 137
4-Bromofluorobenzene (Surr)	104		56 - 136
Toluene-d8 (Surr)	91		78 - 122
Dibromofluoromethane (Surr)	88		73 - 120

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

Lab Sample ID: MB 240-527795/4
Matrix: Water
Analysis Batch: 527795

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			05/24/22 20:22	1

	MB	MB							
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,2-Dichloroethane-d4 (Surr)	80		66 - 120		05/24/22 20:22	1			

Lab Sample ID: LCS 240-527795/3
Matrix: Water
Analysis Batch: 527795

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	10.9		ug/L		109	80 - 122

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	81		66 - 120

Lab Sample ID: 240-166883-I-3 MS
Matrix: Water
Analysis Batch: 527795

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	10.6		ug/L		106	51 - 153

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QC Sample Results

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

Job ID: 240-166886-1

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

	MS MS	
Surrogate	%Recovery	Qualifier
1,2-Dichloroethane-d4 (Surr)	80	U
		Limits
		66 - 120

Lab Sample ID: 240-166883-O-3 MSD
Matrix: Water
Analysis Batch: 527795

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2.0	U	10.0	11.8		ug/L		118	51 - 153	10	16

	MSD MSD	
Surrogate	%Recovery	Qualifier
1,2-Dichloroethane-d4 (Surr)	83	U
		Limits
		66 - 120

Lab Sample ID: MB 240-527981/4
Matrix: Water
Analysis Batch: 527981

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			05/25/22 19:50	1

	MB MB	
Surrogate	%Recovery	Qualifier
1,2-Dichloroethane-d4 (Surr)	107	U
		Limits
		66 - 120

Lab Sample ID: LCS 240-527981/3
Matrix: Water
Analysis Batch: 527981

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,4-Dioxane	10.0	9.76		ug/L		98	80 - 122

	LCS LCS	
Surrogate	%Recovery	Qualifier
1,2-Dichloroethane-d4 (Surr)	106	U
		Limits
		66 - 120

Lab Sample ID: 240-166886-3 MS
Matrix: Water
Analysis Batch: 527981

Client Sample ID: MW-81-MS_051722
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	9.35		ug/L		93	51 - 153

	MS MS	
Surrogate	%Recovery	Qualifier
1,2-Dichloroethane-d4 (Surr)	109	U
		Limits
		66 - 120

Lab Sample ID: 240-166886-3 MSD
Matrix: Water
Analysis Batch: 527981

Client Sample ID: MW-81-MSD_051722
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,4-Dioxane	2.0	U	10.0	9.52		ug/L		95	51 - 153	2	16

QC Sample Results

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

Job ID: 240-166886-1

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

Lab Sample ID: 240-166886-3 MSD
Matrix: Water
Analysis Batch: 527981

Client Sample ID: MW-81-MSD_051722
Prep Type: Total/NA

<i>Surrogate</i>	<i>MSD</i>	<i>MSD</i>	<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
1,2-Dichloroethane-d4 (Surr)	110		66 - 120

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QC Association Summary

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

Job ID: 240-166886-1

GC/MS VOA

Analysis Batch: 527795

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-166886-2	MW-81S_051722	Total/NA	Water	8260D SIM	
MB 240-527795/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-527795/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-166883-I-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-166883-O-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 527981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-166886-3	MW-81_051722	Total/NA	Water	8260D SIM	
MB 240-527981/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-527981/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-166886-3 MS	MW-81-MS_051722	Total/NA	Water	8260D SIM	
240-166886-3 MSD	MW-81-MSD_051722	Total/NA	Water	8260D SIM	

Analysis Batch: 528090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-166886-1	TRIP BLANK_155	Total/NA	Water	8260D	
240-166886-2	MW-81S_051722	Total/NA	Water	8260D	
240-166886-3	MW-81_051722	Total/NA	Water	8260D	
MB 240-528090/8	Method Blank	Total/NA	Water	8260D	
LCS 240-528090/5	Lab Control Sample	Total/NA	Water	8260D	
240-166886-3 MS	MW-81-MS_051722	Total/NA	Water	8260D	
240-166886-3 MSD	MW-81-MSD_051722	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 240-166886-1

Client Sample ID: TRIP BLANK_155

Lab Sample ID: 240-166886-1

Date Collected: 05/17/22 00:00

Matrix: Water

Date Received: 05/19/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	528090	05/26/22 19:57	TJL1	TAL CAN

Client Sample ID: MW-81S_051722

Lab Sample ID: 240-166886-2

Date Collected: 05/17/22 11:45

Matrix: Water

Date Received: 05/19/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	528090	05/26/22 20:20	TJL1	TAL CAN
Total/NA	Analysis	8260D SIM		1	527795	05/25/22 04:40	CS	TAL CAN

Client Sample ID: MW-81_051722

Lab Sample ID: 240-166886-3

Date Collected: 05/17/22 12:50

Matrix: Water

Date Received: 05/19/22 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	528090	05/26/22 20:44	TJL1	TAL CAN
Total/NA	Analysis	8260D SIM		1	527981	05/25/22 20:40	CS	TAL CAN

Laboratory References:

TAL CAN = Eurofins Canton, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

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

Job ID: 240-166886-1

Laboratory: Eurofins 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	02-27-23
Connecticut	State	PH-0590	12-31-23
Florida	NELAP	E87225	06-30-22
Georgia	State	4062	02-23-22 *
Illinois	NELAP	200004	07-31-22
Iowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-27-23
Kentucky (WW)	State	KY98016	12-31-22
Minnesota	NELAP	039-999-348	12-31-22
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-22
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-23-23
Ohio VAP	State	CL0024	02-27-23
Oregon	NELAP	4062	02-27-23
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-22-16	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

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



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		Regulatory program: DW NPDES RCRA Other	
Client Project Manager: Kris Hinskey Telephone: 269-832-7478 Email: Kristoffer.Hinskey@arcadis.com		Site Contact: Christina Weaver Telephone: 248-994-2329	
Lab Contact: Mike DelMonico Telephone: 330-966-9783		1 of 1 COCs For lab use only	
Project Name: Ford LTP Off-Site Project Number: 30080642.402.04 PO # 30080642.402.04		Analyses Walk-in client Lab sampling Job/SDG No:	
Sampler Name: SETH TURNER Method of Shipment/Carrier: Shipping/Tracking No:		TAT if different from below: 10 day 3 weeks 2 weeks 1 week 2 days 1 day	
Sample Identification Sample Date Sample Time TRIP BLANK - 155 MW-815-051722 MW-81-051722 MW-81-MS-051722 MW-81-MSD-051722		Matrix Air Aqueous Sediment Solid Other:	
Containers & Preservatives H2SO4 HNO3 HCl NaOH NaCl Others:		Filtered Sample (Y/N) Composite=C / Grab=C 1,1-DCE 8260D cis-1,2-DCE 8260D Trans-1,2-DCE 8260D PCE 8260D TCE 8260D Vinyl Chloride 8260D 1,4-Dioxane 8260D SIM	
Possible Hazard Identification Flammable Skin Irritant Poison B Unknown		Sample Specific Notes / Special Instructions: 1 Trip Blank 3 VOAs for 8260D 3 VOAs for 8260D SIM RUN MS RUN MSD	
e retained longer than 1 month Archive For _____ Months			
Special Instructions/QC Requirements & Comments: Sample Address: RIGHT OF WAY STARK Submit all results through Cadena at jromalia@cadenaco.com, Cadena #E203631 Level IV Reporting requested.		Received by: Received in Laboratory by:	
Relinquished by: SETH TURNER Relinquished by: [Signature] Relinquished by: [Signature]		Company: Arcadis Company: ARCADIS Company: EENA	
Date/Time: 5/17/22 / 1400 Date/Time: 5/18/22 0950 Date/Time: 5/18/22		Company: Arcadis Company: EENA Company: EETWC	



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Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 166886

Client Arcadis Site Name _____
 Cooler Received on 5-19-22 Opened on 5-19-22
 FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Cooler unpacked by:
Danny Bue

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

TestAmerica Cooler # IA 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-13 (CF 0.0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN #IR-15 (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 10 each 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 NA
 -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# HC157842
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

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

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

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: _____

Eurofins - 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-13	IR-15	0-1	0-1	Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-13	IR-15	0-7	0-7	Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-13	IR-15			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-13	IR-15			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-13	IR-15			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-13	IR-15			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-13	IR-15			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-13	IR-15			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-13	IR-15			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-13	IR-15			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-13	IR-15			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-13	IR-15			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-13	IR-15			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-13	IR-15			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-13	IR-15			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-13	IR-15			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-13	IR-15			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-13	IR-15			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-13	IR-15			Wet Ice	Blue Ice	Dry Ice
								Water	None	
TA	Client	Box	Other	IR-13	IR-15			Wet Ice	Blue Ice	Dry Ice
								Water	None	

See Temperature Excursion Form

