

ANALYTICAL REPORT

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

Laboratory Job ID: 240-160086-1
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:
11/29/2021 8:50:56 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 - Off-Site

Job ID: 240-160086-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
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: 240-160086-1

Job ID: 240-160086-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative
240-160086-1

Comments

No additional comments.

Receipt

The samples were received on 11/15/2021 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 1.5° 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: 240-160086-1

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 - Off-Site

Job ID: 240-160086-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-160086-1	TRIP BLANK_152	Water	11/11/21 00:00	11/15/21 08:00
240-160086-2	MW-83_111121	Water	11/11/21 11:10	11/15/21 08:00
240-160086-3	MW-83S_111121	Water	11/11/21 12:40	11/15/21 08:00

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- 13
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Detection Summary

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

Job ID: 240-160086-1

Client Sample ID: TRIP BLANK_152

Lab Sample ID: 240-160086-1

No Detections.

Client Sample ID: MW-83_111121

Lab Sample ID: 240-160086-2

No Detections.

Client Sample ID: MW-83S_111121

Lab Sample ID: 240-160086-3

No Detections.

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This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Client Sample Results

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

Job ID: 240-160086-1

Client Sample ID: TRIP BLANK_152

Lab Sample ID: 240-160086-1

Date Collected: 11/11/21 00:00

Matrix: Water

Date Received: 11/15/21 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	0.49	ug/L			11/22/21 19:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/22/21 19:54	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/22/21 19:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/22/21 19:54	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/22/21 19:54	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/22/21 19:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137		11/22/21 19:54	1
4-Bromofluorobenzene (Surr)	96		56 - 136		11/22/21 19:54	1
Toluene-d8 (Surr)	105		78 - 122		11/22/21 19:54	1
Dibromofluoromethane (Surr)	114		73 - 120		11/22/21 19:54	1

Client Sample Results

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

Job ID: 240-160086-1

Client Sample ID: MW-83_111121

Lab Sample ID: 240-160086-2

Date Collected: 11/11/21 11:10

Matrix: Water

Date Received: 11/15/21 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			11/18/21 23:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	76		66 - 120		11/18/21 23:50	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	0.49	ug/L			11/22/21 21:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/22/21 21:28	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/22/21 21:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/22/21 21:28	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/22/21 21:28	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/22/21 21:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		62 - 137		11/22/21 21:28	1
4-Bromofluorobenzene (Surr)	94		56 - 136		11/22/21 21:28	1
Toluene-d8 (Surr)	105		78 - 122		11/22/21 21:28	1
Dibromofluoromethane (Surr)	112		73 - 120		11/22/21 21:28	1

Client Sample Results

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

Job ID: 240-160086-1

Client Sample ID: MW-83S_111121

Lab Sample ID: 240-160086-3

Date Collected: 11/11/21 12:40

Matrix: Water

Date Received: 11/15/21 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			11/19/21 00:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	79		66 - 120					11/19/21 00:15	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	0.49	ug/L			11/22/21 21:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/22/21 21:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/22/21 21:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/22/21 21:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/22/21 21:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/22/21 21:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137					11/22/21 21:52	1
4-Bromofluorobenzene (Surr)	97		56 - 136					11/22/21 21:52	1
Toluene-d8 (Surr)	104		78 - 122					11/22/21 21:52	1
Dibromofluoromethane (Surr)	111		73 - 120					11/22/21 21:52	1

Surrogate Summary

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

Job ID: 240-160086-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	TOL	DBFM
		(62-137)	(56-136)	(78-122)	(73-120)
240-159807-B-1 MS	Matrix Spike	101	100	109	115
240-159807-B-1 MSD	Matrix Spike Duplicate	98	99	109	112
240-160086-1	TRIP BLANK_152	105	96	105	114
240-160086-2	MW-83_111121	102	94	105	112
240-160086-3	MW-83S_111121	104	97	104	111
LCS 240-514100/5	Lab Control Sample	105	102	109	115
MB 240-514100/8	Method Blank	103	98	109	114

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
		(66-120)
240-159739-G-3 MS	Matrix Spike	74
240-159739-M-3 MSD	Matrix Spike Duplicate	75
240-160086-2	MW-83_111121	76
240-160086-3	MW-83S_111121	79
LCS 240-513700/4	Lab Control Sample	75
MB 240-513700/5	Method Blank	77

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-160086-1

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

Lab Sample ID: MB 240-514100/8
Matrix: Water
Analysis Batch: 514100

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			11/22/21 13:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/22/21 13:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/22/21 13:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/22/21 13:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/22/21 13:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/22/21 13:57	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	103		62 - 137		11/22/21 13:57	1
4-Bromofluorobenzene (Surr)	98		56 - 136		11/22/21 13:57	1
Toluene-d8 (Surr)	109		78 - 122		11/22/21 13:57	1
Dibromofluoromethane (Surr)	114		73 - 120		11/22/21 13:57	1

Lab Sample ID: LCS 240-514100/5
Matrix: Water
Analysis Batch: 514100

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	25.0	27.2		ug/L		109	63 - 134
cis-1,2-Dichloroethene	25.0	24.6		ug/L		98	77 - 123
Tetrachloroethene	25.0	26.8		ug/L		107	76 - 123
trans-1,2-Dichloroethene	25.0	25.7		ug/L		103	75 - 124
Trichloroethene	25.0	26.2		ug/L		105	70 - 122
Vinyl chloride	25.0	21.7		ug/L		87	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	105		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	109		78 - 122
Dibromofluoromethane (Surr)	115		73 - 120

Lab Sample ID: 240-159807-B-1 MS
Matrix: Water
Analysis Batch: 514100

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

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier		Result	Qualifier				
cis-1,2-Dichloroethene	130		83.3	200		ug/L		90	66 - 128
Tetrachloroethene	120		83.3	212	E	ug/L		105	62 - 131
trans-1,2-Dichloroethene	4.3		83.3	89.0		ug/L		102	56 - 136
Trichloroethene	7.8		83.3	94.6		ug/L		104	61 - 124
Vinyl chloride	3.3	U	83.3	68.5		ug/L		82	43 - 157

Surrogate	MS	MS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	101		62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	109		78 - 122
Dibromofluoromethane (Surr)	115		73 - 120

QC Sample Results

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

Job ID: 240-160086-1

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

Lab Sample ID: 240-159807-B-1 MSD

Matrix: Water

Analysis Batch: 514100

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
cis-1,2-Dichloroethene	130		83.3	197		ug/L		86	66 - 128	1	14
Tetrachloroethene	120		83.3	211	E	ug/L		104	62 - 131	0	20
trans-1,2-Dichloroethene	4.3		83.3	85.6		ug/L		98	56 - 136	4	15
Trichloroethene	7.8		83.3	92.6		ug/L		102	61 - 124	2	15
Vinyl chloride	3.3	U	83.3	69.8		ug/L		84	43 - 157	2	24
MSD MSD											
Surrogate	%Recovery		Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	98			62 - 137							
4-Bromofluorobenzene (Surr)	99			56 - 136							
Toluene-d8 (Surr)	109			78 - 122							
Dibromofluoromethane (Surr)	112			73 - 120							

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

Lab Sample ID: MB 240-513700/5

Matrix: Water

Analysis Batch: 513700

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			11/18/21 19:41	1
MB MB									
Surrogate	%Recovery		Qualifier	Limits		Prepared		Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	77			66 - 120				11/18/21 19:41	1

Lab Sample ID: LCS 240-513700/4

Matrix: Water

Analysis Batch: 513700

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	10.4		ug/L		104	80 - 122
LCS LCS							
Surrogate	%Recovery		Qualifier	Limits			
1,2-Dichloroethane-d4 (Surr)	75			66 - 120			

Lab Sample ID: 240-159739-G-3 MS

Matrix: Water

Analysis Batch: 513700

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 F1	10.0	10.4		ug/L		104	51 - 153
MS MS									
Surrogate	%Recovery		Qualifier	Limits					
1,2-Dichloroethane-d4 (Surr)	74			66 - 120					

QC Sample Results

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

Job ID: 240-160086-1

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

Lab Sample ID: 240-159739-M-3 MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 513700

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 F1	10.0	10.6		ug/L		106	51 - 153	2	16
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	75		66 - 120								

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QC Association Summary

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

Job ID: 240-160086-1

GC/MS VOA

Analysis Batch: 513700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-160086-2	MW-83_111121	Total/NA	Water	8260B SIM	
240-160086-3	MW-83S_111121	Total/NA	Water	8260B SIM	
MB 240-513700/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-513700/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-159739-G-3 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-159739-M-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Analysis Batch: 514100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-160086-1	TRIP BLANK_152	Total/NA	Water	8260B	
240-160086-2	MW-83_111121	Total/NA	Water	8260B	
240-160086-3	MW-83S_111121	Total/NA	Water	8260B	
MB 240-514100/8	Method Blank	Total/NA	Water	8260B	
LCS 240-514100/5	Lab Control Sample	Total/NA	Water	8260B	
240-159807-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
240-159807-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Lab Chronicle

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

Job ID: 240-160086-1

Client Sample ID: TRIP BLANK_152

Lab Sample ID: 240-160086-1

Date Collected: 11/11/21 00:00

Matrix: Water

Date Received: 11/15/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	514100	11/22/21 19:54	SAM	TAL CAN

Client Sample ID: MW-83_111121

Lab Sample ID: 240-160086-2

Date Collected: 11/11/21 11:10

Matrix: Water

Date Received: 11/15/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	514100	11/22/21 21:28	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	513700	11/18/21 23:50	CS	TAL CAN

Client Sample ID: MW-83S_111121

Lab Sample ID: 240-160086-3

Date Collected: 11/11/21 12:40

Matrix: Water

Date Received: 11/15/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	514100	11/22/21 21:52	SAM	TAL CAN
Total/NA	Analysis	8260B SIM		1	513700	11/19/21 00:15	CS	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 - Off-Site

Job ID: 240-160086-1

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	06-30-22
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-22
Iowa	State	421	06-01-23
Kansas	NELAP	E-10336	04-30-22
Kentucky (UST)	State	112225	02-23-22
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-22
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-18-10	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

Chain of Custody Record

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

THE LEADER IN ENVIRONMENTAL TESTING

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: 248-994-2240 Email: kris@hinskey@arcadis.com		Lab Contact: Mike DeMonico Telephone: 330-497-9396	
Project Name: Ford LTP Off-Site Project Number: 30080642.402.04 PO # 30080642.402.04		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	
Sampler Name: Sam Fungo COURSER: CHRISTINA WEAVER Method of Shipment/Carrier:		Filtered Sample (Y/N) 2 G 1 G 1 G	
Shipping/Tracking No:		Containers & Preservatives TAT if different from below: 3 weeks 2 weeks 1 week 2 days 1 day	
Sample Identification TRIP BLANK_152 MW-83-11121 MW-835-11121		Matrix Air Aqueous Sediment Solid Other: H2SO4 HNO3 HCl NaOH Zn/ Cd/ Ni/ Pb/ Unpres Other: 1 6 6	
Sample Date 11/11/21 11/11/21		Sample Time 11:10 12:40	
Sample Specific Notes / Special Instructions: 1 Trip Blank 3 VOAs for 8260B 3 VOAs for 8260B SIM		240-160086 Chain of Custody	
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Irritable <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown			
Special Instructions/QC Requirements & Comments: Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.			
Relinquished by: SA Christina Fungo		Received by: Adam Genant	
Relinquished by:		Received by:	
Relinquished by:		Received by:	
Company: Arcadis		Company: ARCADIS	
Company: ARCADIS		Company: ARCADIS	
Company: ARCADIS		Company: ARCADIS	
Date/Time: 11/11/21 14:10		Date/Time: 11/12/21 1000	
Date/Time: 11/12/21 1000		Date/Time: 11/12/21 1000	
Date/Time: 11/12/21 1000		Date/Time: 11/12/21 0800	

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Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility

Login # : 166086

Client Arcadis Site Name _____
 Cooler Received on 11-13-21 Opened on 11-13-21
 FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other _____

Cooler unpacked by:
Adam Gant

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

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

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-14 (CF +0.1 °C) Observed Cooler Temp. 1.4 °C Corrected Cooler Temp. 1.5 °C
 IR GUN #IR-15 (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 1 Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No 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 # _____ 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: _____

No SIM on TB per corrected COC.

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: _____