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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 8/24/2023 11:54:12 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-189961-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

Generated 8/24/2023 11:54:12 AM

Authorized for release by
Ann Maddux, Project Management Assistant I
ann.maddux@et.eurofinsus.com
Designee for
Michael DelMonico, Project Manager I
Michael.DelMonico@et.eurofinsus.com
(330)497-9396

Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-189961-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-189961-1

Project/Site: Ford LTP - Off Site

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

DLC

Ciossary	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
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

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)

Decision Level 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

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Case Narrative

Client: ARCADIS US Inc Job ID: 240-189961-1

Project/Site: Ford LTP - Off Site

Job ID: 240-189961-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-189961-1

Receipt

The samples were received on 8/11/2023 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 1.1°C and 1.3°C

GC/MS VOA

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

Method Summary

Client: ARCADIS US Inc Job ID: 240-189961-1 Project/Site: Ford LTP - Off Site

Method **Method Description** Protocol Laboratory SW846 EET CLE 8260D Volatile Organic Compounds by GC/MS 8260D SIM Volatile Organic Compounds (GC/MS) SW846 EET CLE 5030C SW846 EET CLE Purge and Trap

Protocol References:

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

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Sample Summary

Client: ARCADIS US Inc
Project/Site: Ford LTP - Off Site

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 240-189961-1
 TRIP BLANK_71
 Water
 08/09/23 00:00
 08/11/23 08:00

 240-189961-2
 MW-151S_080923
 Water
 08/09/23 11:23
 08/11/23 08:00

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Job ID: 240-189961-1

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Detection Summary

Client: ARCADIS US Inc Job ID: 240-189961-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_71 Lab Sample ID: 240-189961-1

No Detections.

Client Sample ID: MW-151S_080923 Lab Sample ID: 240-189961-2

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Vinyl chloride	0.97 J	1.0	0.45 ug/L	1	8260D	Total/NA

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-189961-1

Project/Site: Ford LTP - Off Site

Date Received: 08/11/23 08:00

Client Sample ID: TRIP BLANK_71

Lab Sample ID: 240-189961-1 Date Collected: 08/09/23 00:00

Matrix: Water

Method: SW846 8260D - Volatile Organic Compounds by GC/MS Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac 1.0 1,1-Dichloroethene 1.0 U 0.49 ug/L 08/19/23 16:22 cis-1,2-Dichloroethene 1.0 U 1.0 0.46 ug/L 08/19/23 16:22 Tetrachloroethene 1.0 U 1.0 0.44 ug/L 08/19/23 16:22 trans-1,2-Dichloroethene 1.0 U 1.0 0.51 ug/L 08/19/23 16:22 Trichloroethene 1.0 U 1.0 0.44 ug/L 08/19/23 16:22 Vinyl chloride 1.0 U 1.0 0.45 ug/L 08/19/23 16:22 %Recovery Qualifier Surrogate Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 109 62 - 137 08/19/23 16:22 4-Bromofluorobenzene (Surr) 100 08/19/23 16:22 56 - 136 78 - 122 08/19/23 16:22 Toluene-d8 (Surr) 101 Dibromofluoromethane (Surr) 110 73 - 120 08/19/23 16:22

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8/24/2023

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-189961-1

Project/Site: Ford LTP - Off Site

Date Received: 08/11/23 08:00

Client Sample ID: MW-151S_080923

Date Collected: 08/09/23 11:23

Lab Sample ID: 240-189961-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/17/23 15:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		66 - 120			-		08/17/23 15:48	1
Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/19/23 21:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/19/23 21:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/19/23 21:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/19/23 21:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/19/23 21:58	1
Vinyl chloride	0.97	J	1.0	0.45	ug/L			08/19/23 21:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		08/19/23 21:58	1
4-Bromofluorobenzene (Surr)	104		56 ₋ 136					08/19/23 21:58	1
Toluene-d8 (Surr)	102		78 - 122					08/19/23 21:58	1
Dibromofluoromethane (Surr)	112		73 - 120					08/19/23 21:58	1

8/24/2023

Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-189961-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				Percent Sui	rogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-189961-1	TRIP BLANK_71	109	100	101	110
240-189961-2	MW-151S_080923	117	104	102	112
240-189966-G-3 MSD	Matrix Spike Duplicate	113	99	99	113
240-189966-H-3 MS	Matrix Spike	111	102	102	103
LCS 240-584461/5	Lab Control Sample	99	100	103	101
MB 240-584461/9	Method Blank	117	103	108	116
Surregate Legend			.00	.00	

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

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(66-120)	
240-189961-2	MW-151S_080923	93	
240-189966-B-3 MS	Matrix Spike	97	
240-189966-B-3 MSD	Matrix Spike Duplicate	93	
LCS 240-584182/5	Lab Control Sample	99	
MB 240-584182/7	Method Blank	100	
Surrogate Legend			

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

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Client: ARCADIS US Inc Job ID: 240-189961-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: MB 240-584461/9

Matrix: Water

Analysis Batch: 584461

Client Sample ID: Method Blank

Prep Type: Total/NA

	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/19/23 13:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/19/23 13:47	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/19/23 13:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/19/23 13:47	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/19/23 13:47	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/19/23 13:47	1

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1,2-Dichloroethane-d4 (Surr)	117		62 - 137		08/19/23 13:47	1
	4-Bromofluorobenzene (Surr)	103		56 - 136		08/19/23 13:47	1
	Toluene-d8 (Surr)	108		78 - 122		08/19/23 13:47	1
İ	Dibromofluoromethane (Surr)	116		73 - 120		08/19/23 13:47	1

Lab Sample ID: LCS 240-584461/5

Matrix: Water

Analysis Batch: 584461

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	24.5		ug/L		123	63 - 134	
cis-1,2-Dichloroethene	20.0	19.2		ug/L		96	77 - 123	
Tetrachloroethene	20.0	20.6		ug/L		103	76 - 123	
trans-1,2-Dichloroethene	20.0	21.5		ug/L		107	75 - 124	
Trichloroethene	20.0	20.1		ug/L		101	70 - 122	
Vinyl chloride	20.0	19.8		ug/L		99	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		62 - 137
4-Bromofluorobenzene (Surr)	100		56 ₋ 136
Toluene-d8 (Surr)	103		78 - 122
Dibromofluoromethane (Surr)	101		73 - 120

Lab Sample ID: 240-189966-G-3 MSD

Matrix: Water

Analysis Batch: 584461

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0	U	20.0	23.3		ug/L		116	56 - 135	4	26
cis-1,2-Dichloroethene	1.0	U	20.0	20.0		ug/L		100	66 - 128	6	14
Tetrachloroethene	1.0	U	20.0	19.5		ug/L		98	62 - 131	4	20
trans-1,2-Dichloroethene	1.0	U	20.0	21.0		ug/L		105	56 - 136	6	15
Trichloroethene	1.0	U	20.0	19.4		ug/L		97	61 - 124	3	15
Vinyl chloride	1.0	U	20.0	18.4		ug/L		92	43 - 157	6	24

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	113		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	99		78 ₋ 122

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Client: ARCADIS US Inc

Job ID: 240-189961-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: 240-189966-G-3 MSD

Matrix: Water

Analysis Batch: 584461

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

MSD MSD

%Recovery Qualifier Surrogate Limits Dibromofluoromethane (Surr) 113 73 - 120

Lab Sample ID: 240-189966-H-3 MS

Matrix: Water

Analysis Batch: 584461

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

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	1.0	U	20.0	22.3		ug/L		112	56 - 135	
cis-1,2-Dichloroethene	1.0	U	20.0	18.8		ug/L		94	66 - 128	
Tetrachloroethene	1.0	U	20.0	20.3		ug/L		101	62 - 131	
trans-1,2-Dichloroethene	1.0	U	20.0	19.7		ug/L		99	56 - 136	
Trichloroethene	1.0	U	20.0	20.0		ug/L		100	61 - 124	
Vinyl chloride	1.0	U	20.0	17.4		ug/L		87	43 - 157	

MS MS

мв мв

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	102		78 - 122
Dibromofluoromethane (Surr)	103		73 - 120

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

Lab Sample ID: MB 240-584182/7

Matrix: Water

Analysis Batch: 584182

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			08/17/23 10:38	1
	МВ	MB							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 100 66 - 120 08/17/23 10:38

Lab Sample ID: LCS 240-584182/5

Matrix: Water			Prep Type: Total/NA
Analysis Batch: 584182			
	Spike	LCS LCS	%Rec

Analyte Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 10.0 9.77 ug/L 80 - 122

LCS LCS %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 99

Lab Sample ID: 240-189966-B-3 MS

Matrix: Water				Prep Type: Total/NA
Analysis Batch: 584182				
	Sample Sample	Snike	MS MS	%Rec

Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits 1,4-Dioxane 2.0 U 10.0 9.77 ug/L 98 51 - 153

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QC Sample Results

Client: ARCADIS US Inc Job ID: 240-189961-1 Project/Site: Ford LTP - Off Site

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

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		66 - 120

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		66 - 12

Lab Sample ID: 240-189966-B-3 M	SD
Matrix: Water	

%Recovery Qualifier

93

Analysis Batch: 584182

1,2-Dichloroethane-d4 (Surr)

Surrogate

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	9.51		ug/L		95	51 - 153	3	16
	MSD	MSD									

Limits

66 - 120

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

QC Association Summary

Client: ARCADIS US Inc Job ID: 240-189961-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 584182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-189961-2	MW-151S_080923	Total/NA	Water	8260D SIM	
MB 240-584182/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-584182/5	Lab Control Sample	Total/NA	Water	8260D SIM	
240-189966-B-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-189966-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 584461

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-189961-1	TRIP BLANK_71	Total/NA	Water	8260D	
240-189961-2	MW-151S_080923	Total/NA	Water	8260D	
MB 240-584461/9	Method Blank	Total/NA	Water	8260D	
LCS 240-584461/5	Lab Control Sample	Total/NA	Water	8260D	
240-189966-G-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
240-189966-H-3 MS	Matrix Spike	Total/NA	Water	8260D	

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-189961-1

Project/Site: Ford LTP - Off Site

Date Received: 08/11/23 08:00

Client Sample ID: TRIP BLANK_71

Lab Sample ID: 240-189961-1 Date Collected: 08/09/23 00:00

Matrix: Water

Dilution Batch Batch Batch Prepared Prep Type Туре Method Run Factor **Number Analyst** Lab or Analyzed Total/NA 8260D 584461 AJS EET CLE 08/19/23 16:22 Analysis

Client Sample ID: MW-151S_080923 Lab Sample ID: 240-189961-2

Date Collected: 08/09/23 11:23 **Matrix: Water**

Date Received: 08/11/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	584461	AJS	EET CLE	08/19/23 21:58
Total/NA	Analysis	8260D SIM		1	584182	MRL	EET CLE	08/17/23 15:48

Laboratory References:

EET CLE = Eurofins Cleveland, 180 S. Van Buren Avenue, Barberton, OH 44203, TEL (330)497-9396

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 240-189961-1 Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Cleveland

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

Authority	Program Identification Nu		Expiration Date
California	State	2927	02-27-24
Georgia	State	4062	02-27-24
Illinois	NELAP	200004	07-31-24
lowa	State	421	06-01-25
Kentucky (UST)	State	112225	02-28-24
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-24
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23 *
New Jersey	NELAP	OH001	07-01-24
New York	NELAP	10975	04-02-24
Ohio	State	8303	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
Oregon	NELAP	4062	02-27-24
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-23
Virginia	NELAP	460175	09-14-23
West Virginia DEP	State	210	12-31-23

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Client Project Name Client Project	Clicat Cartes		and the second s	253-5703	THE LEADER IN ENVIRONMENTAL TEST
	Company Name: Arcadis	Kegulatory program: DW	NPDES RCRA Other	ler .	Test America aboratories
Figure 24 with 14, 4777 Figure 24 with 24, 4777 Figure 24 with 2	Address: 28550 Cabot Drive, Suite 500	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	COC No:
Project State (14 OLG) Project State (14 O	City/State/Zip: Novi, MI, 48377	Telephone: 248-994-2240	Telephone: 248-994-2240	Telephone: 330-497-9396	
Finglest Vision's Face 117 (15 Note 17 (Phone: 248-994-2240	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	
Fight Values Post Market Black Support Current Fight Values Post Market Black Support Current Support Current Support Current Support Su	Project Name: Ford LTP Off-Site	Decca	TAT if different from below 3 weeks 10 day 2 weeks		Walk-in client
Note Line	Project Number: 30167538.402.04		l week		Lab sampling
PRIP BLANK 3 1 1 1 1 1 1 1 1 1	PO # 30167538.402.04	Shipping/Tracking No:	1/X) al	85e0D	Job/SDG No:
Provide Haard Mentitudes Provide Management & Community Street Land Mentitudes Street Land Mentitudes Provide	Samule Identification	Marris Recomp Recomp Instruction Marris Ma Marris Marris Marris Marris Marris Marris Marris Marris Marris M	CONTENT OF THE PROPERTY OF THE	s-1,2-DCE 8; ce 8260D ce 8260D nyl Chlonde	Sample Specific Notes / Special Instructions:
People Heard Healifeaten People P	TRIP BLAN	S	2	X	1 Trip Blank
Provide Hazard Heavithcation	MIN-1515	1172			3 VOAs for 8260D
Provide Trazer destitication Provide Trazer destitication Provide Trazer desired Trazer destitication Provide Trazer destitation Provide Trazer destitication Provide Trazer destitication Provide Trazer de					S VOAS IOI 0200D SIM
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Date/Time Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return to Chent Disposal By Lab Archive For Months					
Unknown Date/Time: Bate/Time: Bate/Bate/Bate/Bate/Bate/Bate/Bate/Bate/					
Unknown Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return to Chent Disposal By Lab Archive For Months Date/Time: Received by Configure: By 123 1234 Received by Company: Date/Time: By 1023 1234 Received by Company: Com			240-189961 Chain of Custo	, Apo	
Unknown Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return to Chent Disposal By Lab Archive For Months					
Date/Tipe: Dat					
Date/Tipe: Date/Tipe: Styles Company: Company: Date/Time:	Possible Hazard Identification Non-Hazard Flammable Sk	Poison B	Sample Disposal (A fee may be assessed if Return to Client	f samples are retained longer than I month)	
Medical Company Acadis Bale/Time Received by Cold Stande Company Acadis Bale/Time Bale	Special Instructions/OC Requirements & Comments: Sample Address: 17091 Brewster Submit all results through Cadena at itomalia@cadLevel IV Reporting requested.		CONTROLLED CONTROL	y Lab Avenive For Months	
Company HECHAIS 1234 Received by Company CTA Date/Time: Little Company CA 1239 Received by Company CA 1234 Date/Time: Little Company CA 1239 Received in Laboratory by: Company CTA Date/Time: Dat	Relinquished by: Acht May College	Date/Ti	Received	Company:	10 8/9/23 16050
Les tole Company: Date/Time: Date	Actiniques not by Comment of the Com	S B	Received by:	Company:	1
	reinquisido by.	Date	Merived in Labora	Company	Desertine:

VOA Sample Preservation - Date/Time VOAs Frozen:

-			Eurofins - Canto	n Sample Receipt I	Multiple Cooler Form	
Cooler	Descri	ption	IR Gun#	Observed	Corrected	Coolant
	Circle)		(Circle)	Temp °C	Temp °C	(Circle)
EC Clier	M Box	Other	IR GUN #;	1.2	1-1	Wellice Blue Ice Dy Ice Water None
PC Cller	d Box	Other	IR GUN Ø:	1.4	1.3	Melice Blue Ice Dy Ice
EC Cller	d Sox	Other	IR GUN #:			Wet ice Blue Ice By ice Water Mone
EC Cler	d Box	Other	IR GUN #:			Wellice Blue Ice Byice Water Mone
EC Clier	d Box	Other	IR GUN #:			Wellice Blue Ice Bylce Water Mans
EC Cler	d Box	Other	IR GUN #:			Wellice Sive Ice Bylce Water Mone
EC Cler	d Box	Other	IR GWH #:	,		Wellice Blue Ice Bylce Water Mass
BC Clier	d Box	Other	IR GUN #:			Weller Mose
BC Clies) Box	Other	IR GUN 6:			Worker Black
BC Clea	d des	Other	IR GUN 4:			Worker Blue Ice Bylce
IC Cles	d Jes	Other	IR GUN #:			Well too Blue too Bytee
BC Cler	d Box	Other	IR GUN #:			Wellice Sive fee Byte
EC Cler	d Box	Other	IR GUN #:			Wellice Sive Sco Byte Water Hone
BC CBer	d Best	Other	IR GUN 4:			Well to Nee See Byte
BC CBer	d Bex	Other	IR SUM 6:			Wellice Blue lice Bytes Water Mane
SC Clea	d Ben	Other	IR 60H 8:			Welter Mean
BC CBer	d Box	Other	IR GUN 4:			Welter Steeler Byte
EC Cler	d Bex	Other	R GW #:			Wellice Sive Ice Bryke Water Mane
EC Clea	d Box	Other	ik GUN 7:			Wellice No lee Byte
SC CBM	d Sex	Other	IR GUN F:			Wellice Blue Ice Bry in
BC Clea	d Bex	Other	IR GUN 9:			Welter Stee too Bry to
BC CBer	d Box	Other	IR GUN #:			Welter Ness
BC Clien	f Bex	Ölher	IR GWN #:			Wolter Non-Bryto
BC Clien	f Bex	Other	R GWI #:			Well too Noo Ico Bry to
BC CBen	f Bex	Other	IR GON #:			Well too Blooke Bry to Water Mana
BC Clea	f Box	Other	R GUN F:			Well too Blook too By to
SC CSon) Box	Other	IR GWI #:			Well too Sive too Bry to Water Name
EC Clea	3ox	Other	IR GUN #:			Wellice Sive Ice By ice Water Mane
SC Close	Beer	Other	R GW #:			Weller Blue Ice Dry Ice Water Blane
SC Clean	Bex	Other	IR GUN 6:			Wellice Blue lice Dry to Water Mane
BC CSoni	.Box	Ölher	IR GUN #:			Weller Henry
BC Client	Bex	Other	IR GUN F:			Wellice Sive Ice Bry Ice Weller Mone
EC Client	Bex	Other	IR GUN #:			Wellice She Ice Bry Ice Water Mese
EC Cloud	Box	Other	IR GUN #:			Weller Mose
			·		See Temp	erature Excursion Form

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

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Special Instructions/QC Requirements & Comments:

Level IV Reporting requested.

Relinquished by: Relinquished by Relinquished by

Flammable

Possible Hazard Identification

MW-1515_080923

0

Sample Identification

TRIP BLANK 7

MICHIGAN

Client Contact

Company Name: Arcadis

Address: 28550 Cabot Drive, Suite 500

City/State/Zip: Novi, MI, 48377

Phone: 248-994-2240

Project Number: 30167538,402.04 Project Name: Ford LTP Off-Site

PO# 30167538.402.04

		Eurofins - Canton	Sample Receipt Mu	ultiple Cooler Form	
	Description	IR Gun#	Observed	Corrected	Coolant
(0	ircle)	(Circle)	Temp °C	Temp °C	(Circle) Wetice' Sive Ice By ice
EC Client	Box Other	IR GUN 0; 22	1.2	1.1	Water None
to Clent	Box Other	IR GUN 0:	1.4	1.3	(Nei ice) Sive ice by ice
IC Client	Box Other	IR GUN #:			Wellice Blue Ice Bylcs Water Mone
IC Client	Sox Other	IR GUN #:			Wellice Blue Ice Bylce Water Mone
EC Client	Box Other	IR GUN #:			Wellce Blee Ice Bylce Water Mane
EC Client	Sox Other	IR GUN 4:			Wellice Blue Ice By ke
EC Client	Box Other	IR GUN 4:			Wellice Sive Ice Bylce Water Mass
BC Client	Bex Other	IR GUN #:			Wellice Sive Ice Bylce Water Mass
&C Client	Box Other	IR GUN #:	·		Wellice Blue Ice Bylce Water Mass
BC Client	Sex Other	IR GUN #:			Weller None Byte
BC CBent	Sex Other	IR GUN #:			Welter None Byles
BC Cloud	Bex Other	IR GUN #:			Weller None Byte
BC Client	Box Other	IR GUN #:			Wellice Shee See Bytes Water Hope
BC Cloud	Box Other	IR 60N F:			Wellice Shee Ice Bylco
BC Client	Bex Other	R 60N #:			Wellice Mee Ice Byte
BC Client	Bex Other	IR 60N 6:			Well to the to try to
BC Client	Bex Other	IR GON F:			Well toe Shre toe Bry toe Water Mane
BC Client	Sex Other	IR GON #:			Wellice She Ice Byte
BC Cloud	Bex Other	IR GON #:			Wellice Slue Ice Bytes
BC Cloud	Sex Other	IR GUN F:			Weller Nees Byte
BC Cloud	Box Other	IR GUN 9:			Weller None Byte
BC Client	Sox Other	IR GUN 4:			Weller Near
BC Client	Bex Other	R GW #:			Wolfee Blue Ice Bry to Water Mana
BC Client	Sex Other	IR GUN #:			Wellice Blue Ice Bry to
SC Client	Box Other	IR GON #:			Well to Blue Ico Bry to
BC Client	Bex Other	IR GUN 6:			Well too Shee See Bry too
BC CSonf	Box Other	IR GUN 6:			Wellice Shie lice Bry to Weller Mone
BC Cleat	Sex Other	IR GUN 6:			Wellice Blue Ice Bry to
EC Clent	Bex Other	IR GWI 9:			Well to Meet Many to
EC Client	Bex Other	IR GUN F:			Well too blue too Bry too
BC CSont		R 00H 6:			Wel too Sive too Bry too
BC Client		IR GUN F:			Wellice Sive Ice Bry ice Water Mane
EC Client		IR GON 6:			Wellice the Ice Brylos Water Mane
BC CBenf		IR GUN #:			Wellice Muelice Brylice
				See Tempe	reture Excursion Form

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

DATA VERIFICATION REPORT



August 24, 2023

Kris Hinskey Arcadis Inc 10559 Citation Ave Suite 100 Brighton, MI 48116

CADENA project ID: E203631

Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater

Project number: 30167538.402.04 off-site

Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory submittal: 189961-1 Sample date: 2023-08-09

Report received by CADENA: 2023-08-24

Initial Data Verification completed by CADENA: 2023-08-24

Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC

Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at http://clms.cadenaco.com/index.cfm.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI $48108\ 517\text{-}819\text{-}0356$

CADENA Valid Qualifiers

Valid Qualifiers	Description					
<	Less than the reported concentration.					
>	Greater than the reported concentration.					
В	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.					
Е	The analyte / Compound reported exceeds the calibration range and is considered estimated.					
EMPC	Sstimated Minimum Potential Contamination - Dioxin/Furan analyses only.					
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.					
J-	The result is an estimated quantity, but the result may be biased low.					
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED					
JH	The sample result is considered estimated and is potentially biased high.					
JL	The sample result is considered estimated and is potentially biased low.					
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED					
NJ	Tentatively identified compound with approximated concentration.					
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)					
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.					
U	Indicates that the analyte / compound was analyzed for, but not detected.					
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.					
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.					

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 189961-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401899 8/9/202	9611			MW-153 2401899 8/9/202	9612	23	
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260										
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
	cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
	trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
	Vinyl chloride	75-01-4	ND	1.0	ug/l		0.97	1.0	ug/l	J
OSW-8260	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-189961-1

CADENA Verification Report: 2023-08-24

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 51132R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-189961-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Parent Sample	Ana	lysis
Sample ID	Lab ID	Wallix	Collection Date	Farent Sample	VOC	VOC SIM
TRIP BLANK_71	240-189961-1	Water	08/09/2023		Х	
MW-151S_080923	240-189961-2	Water	08/09/2023		X	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

Items Reviewed	Rep	orted	Perfor Accep		Not
	No	Yes	No	Yes	Required
Sample receipt condition		Х		X	
2. Requested analyses and sample results		Х		Х	
Master tracking list		Х		Х	
4. Methods of analysis		X		Х	
5. Reporting limits		Х		Х	
6. Sample collection date		Х		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		Х		Х	
Sample preparation/extraction/analysis dates		Х		Х	
10. Fully executed Chain-of-Custody (COC) form		Х		X	
Narrative summary of Quality Assurance or sample problems provided		Х		Х	
12. Data Package Completeness and Compliance		Х		Х	

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 8260D and 8260D SIM. Data were reviewed in accordance with USEPA National Functional Guidelines for Organic Superfund Methods Data Review, EPA 540-R-20-005, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, OSWER 9240.1-05A-P, October 1999), as appropriate.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
 - U The analyte was analyzed for but was not detected above the level of the reported sample quantitation limit.
 - B The compound has been found in the sample as well as its associated blank, its presence in the sample may be suspect.
- Quantitation (Q) Qualifiers
 - E The compound was quantitated above the calibration range.
 - D Concentration is based on a diluted sample analysis.
- Validation Qualifiers
 - J The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
 - UJ The analyte was analyzed for but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260D/8260D-SIM	Water	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with HCl

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the continuing calibrations were within the specified control limits.

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

All identified compounds met the specified criteria.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

Rep	orted	Perfor Acce	Not Required	
No	Yes	No	Yes	Required
C/MS)				
	Х		Х	
	X		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
Х				Х
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	No C/MS)	No Yes C/MS) X X X X X X X X X X X X X	No Yes No C/MS) X X X X X X X X X X X X X	No Yes No Yes

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Pruthvi Kumar C

SIGNATURE:

DATE: September 12, 2023

PEER REVIEW: Andrew Korycinski

DATE: September 12, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN 190

Chain of Custody Record

TestAm	erico

TestAmerica Laboratories, In Commact Christian Weaver Address: 2850 Cabo Brive, Nate 500 Telephone: 286-994-2240 Telephone: 286-994-2240 Telephone: 286-994-2240 Telephone: 286-994-2240 Sampler Varies	Client Contact	TestAmerica Labora Regula	itory location: tory program:			- 1044 DV		tion D		Suit) / B		on, MI 48		/ 810 Othe		2763	_			_		-			THE LEADER IN ENVIRONMENTAL TE	STING
Telephone: 248-994-2240 Telephone: 248-9	Company Name: Arcadis																-										TestAmerica Laboratories	Inc.
City/State/Up; Not. ML 48377	Address: 28550 Cabot Drive, Suite 500	Client Project	Manager: Kris	Hins	key			Sit	te Cor	ntac	t: Ch	risti	na W	eaver				Lab (Lab Contact: Mike DelMonico						COC No:			
Email: Extension Email: Extension Email: Extension Extensi	City/State/Zip: Novi. Mt. 48377									one:	248-9	994-	2240					Telephone: 330-497-9396										
Project Name: Ford LT Offinite Sumpler Name: TAT										Analysis Turnaround Time										Analyses								
Project Number: 3016753K.402.84 Nethod of Shipment Carrier: Shipping Tracking No: Nample Identification Sample Identification Sample Identification Sample Identification Nample Identification Nample Identification Nample Identification Nample Special Number 3016753K.402.84 Nample Identification Nample Identi	Phone: 248-994-2240	0 1 1						Tr	VT vz	in a		(56)																
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Sample Documents Docu	Project Number: 30167538.402.04			W	01 19	UCF (-	10 d	lay	-			i									_				Lab sampling	
Sample Date Dat												2 0	days		Z	1 A		0	000			۵	SIN					题
Sample Date Dat	PO # 30167538.402.04	Shipping/Track	ding No:			atele		\perp	- 6-						ple (Y	C/Gra	30D	8260E	CE 826			e 8260	8260C				Job/SDG No:	
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Possible Hazard Identification Non-Hazard Flammable Skin Irritant Poison B Unknown Special Instructions/QC Requirements & Comments: Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return to Client Disposal By Lab Archive For Months Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.								T	T												-					+		\neg
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Client Contact	Regulat	ory program			DW			PDES	200		CRA			Other		700				_	_	-		11:	E LEADER IN ENVIRONMENTAL YESTING
Company Name: Arcadis						T _i	Site Co		Chui						- I	1.0			-						TestAmerica Laboratories, Inc
Address: 28550 Cabot Drive, Suite 500		Client Project Manager: Kris Hinskey Telephone: 248-994-2240													ľ	Lab Contact: Mike DelMonico							COC No:		
City/State/Zip: Novi, MI, 48377	Telephone: 248								Telephone: 248-994-2240									Telephone: 330-497-9396							1 of 1 COCs
Phone: 248-994-2240	Email: kristoff	Email: kristoffer.hinskey@urcadis.com						Analysis Turnaround Time							Analyses									For lab use only	
	Sampler Name	:		_			TAT if	different	from b	elow		\dashv		13											Walk-in client
Project Name: Ford LTP Off-Site	20	becca	(n)	stic	an		10 day 2 weeks 1 week													-					
Project Number: 30167538.402.04	Method of Ship		-0 (6										0				SIM				Lab sampling			
PO # 30167538.402.04	Shipping/Track	ing No:				\neg				2 days 1 day			mple (Y / N)	/ Grab=		Z60D	8260D			8260D	8260D S				Job/SDG No:
				N	fatrix		C	ontaine	ers &	Preserv	atives		duz	Y	8260D	SE 8	DC.	0	0	ride	le 8				
Sample Identification	Sample Date	Sample Time	Air		Solid	Other	H2SO4	HCI	NaOH	ZnAc	Other:		Filtered	Composit	1,1-DCE	cis-1,2-DCE 8260D	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride	1,4-Dioxane				Sample Specific Notes / Special Instructions:
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Special Instructions/QC Requirements & Comments: Sample Address: \Q\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \						•																			
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Relinquished by: Lee Hal	Company:			Date/			239		Har.	ived	Labo	rafin,	by:	<u>~ ر</u>	_				Com	pany:	سک ما	171			Date/Time: 8Am
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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-189961-1 Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_71

Lab Sample ID: 240-189961-1

Date Collected: 08/09/23 00:00 **Matrix: Water** Date Received: 08/11/23 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			08/19/23 16:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/19/23 16:22	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/19/23 16:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/19/23 16:22	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/19/23 16:22	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			08/19/23 16:22	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		62 - 137					08/19/23 16:22	1
4-Bromofluorobenzene (Surr)	100		56 ₋ 136					08/19/23 16:22	1
Toluene-d8 (Surr)	101		78 - 122					08/19/23 16:22	1
Dibromofluoromethane (Surr)	110		73 - 120					08/19/23 16:22	1

Client Sample ID: MW-151S_080923 Lab Sample ID: 240-189961-2

Date Collected: 08/09/23 11:23 Date Received: 08/11/23 08:00

1,2-Dichloroethane-d4 (Surr)

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS) Result Qualifier Analyte MDL Unit D Prepared Analyzed Dil Fac 1,4-Dioxane 2.0 U 2.0 0.86 ug/L 08/17/23 15:48 %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed

66 - 120

93

Method: SW846 8260D - Vo	latile 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			08/19/23 21:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/19/23 21:58	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			08/19/23 21:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			08/19/23 21:58	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			08/19/23 21:58	1
Vinyl chloride	0.97	J	1.0	0.45	ug/L			08/19/23 21:58	1
-									

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	117		62 - 137		08/19/23 21:58	1	
4-Bromofluorobenzene (Surr)	104		56 - 136		08/19/23 21:58	1	
Toluene-d8 (Surr)	102		78 - 122		08/19/23 21:58	1	
Dibromofluoromethane (Surr)	112		73 - 120		08/19/23 21:58	1	

Matrix: Water

08/17/23 15:48