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ANALYTICAL REPORT

PREPARED FOR

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

Generated 11/15/2023 4:24:01 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-194822-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



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Job Notes

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Authorization

Generated 11/15/2023 4:24:01 AM

Authorized for release by Michael DelMonico, Project Manager I <u>Michael.DelMonico@et.eurofinsus.com</u> (330)497-9396 Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-194822-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-194822-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

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.

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

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Case Narrative

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

Job ID: 240-194822-1

Job ID: 240-194822-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-194822-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/4/2023~8:00 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 2.6° C and 2.9° C

GC/MS VOA

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

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Method Summary

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

Job ID: 240-194822-1

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

Project/Site: Ford LTP - Off Site

Client: ARCADIS US Inc

Job ID: 240-194822-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-194822-1	TRIP BLANK_21	Water	11/02/23 00:00	11/04/23 08:00
240-194822-2	MW-103S_110223	Water	11/02/23 13:46	11/04/23 08:00

Detection Summary

Client: ARCADIS US Inc Job ID: 240-194822-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_21 Lab Sample ID: 240-194822-1

No Detections.

Client Sample ID: MW-103S_110223 Lab Sample ID: 240-194822-2

No Detections.

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-194822-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_21

Lab Sample ID: 240-194822-1 Date Collected: 11/02/23 00:00

Matrix: Water

Date Received: 11/04/23 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			11/11/23 16:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/11/23 16:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/11/23 16:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/11/23 16:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/11/23 16:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/11/23 16:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		62 - 137			_		11/11/23 16:43	1
4-Bromofluorobenzene (Surr)	77		56 ₋ 136					11/11/23 16:43	1
Toluene-d8 (Surr)	90		78 - 122					11/11/23 16:43	1
Dibromofluoromethane (Surr)	95		73 - 120					11/11/23 16:43	1

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-194822-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-103S_110223

Lab Sample ID: 240-194822-2 Date Collected: 11/02/23 13:46

Matrix: Water

Date	Received:	11/04/23	08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/13/23 23:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		66 - 120			_		11/13/23 23:52	1

1,4-Dioxane	2.0	U	2.0	0.00	ug/L			11/13/23 23.32	ı
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		66 - 120					11/13/23 23:52	1
- Method: SW846 8260D - Volati	le 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			11/11/23 21:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/11/23 21:15	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/11/23 21:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/11/23 21:15	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/11/23 21:15	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/11/23 21:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109	62 - 137		11/11/23 21:15	1
4-Bromofluorobenzene (Surr)	75	56 ₋ 136		11/11/23 21:15	1
Toluene-d8 (Surr)	89	78 - 122		11/11/23 21:15	1
Dibromofluoromethane (Surr)	93	73 - 120		11/11/23 21:15	1

Surrogate Summary

Client: ARCADIS US Inc

Project/Site: Ford LTP - Off Site

Job ID: 240-194822-1

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

Matrix: Water Prep Type: Total/NA

				Percent Sur	rrogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-194809-C-1 MS	Matrix Spike	116	97	102	108
240-194809-D-1 MSD	Matrix Spike Duplicate	104	83	92	100
240-194822-1	TRIP BLANK_21	109	77	90	95
240-194822-2	MW-103S_110223	109	75	89	93
LCS 240-594284/5	Lab Control Sample	100	86	95	96
MB 240-594284/8	Method Blank	108	77	91	94

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

	Client Sample ID	DCA	
	Client Sample ID	(00.400)	
	• · · ·	(66-120)	
240-194776-H-2 MS	Matrix Spike	85	
240-194776-N-2 MSD	Matrix Spike Duplicate	83	
240-194822-2	MW-103S_110223	92	
LCS 240-594455/3	Lab Control Sample	84	
MB 240-594455/5	Method Blank	82	

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

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Job ID: 240-194822-1

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

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

Lab Sample ID: MB 240-594284/8

Matrix: Water

Analysis Batch: 594284

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/11/23 15:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/11/23 15:04	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/11/23 15:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/11/23 15:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/11/23 15:04	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/11/23 15:04	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 108 62 - 137 11/11/23 15:04 4-Bromofluorobenzene (Surr) 77 56 - 136 11/11/23 15:04 Toluene-d8 (Surr) 91 78 - 122 11/11/23 15:04 Dibromofluoromethane (Surr) 94 73 - 120 11/11/23 15:04

Lab Sample ID: LCS 240-594284/5

Matrix: Water

Analysis Batch: 594284

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	25.0	30.3		ug/L		121	63 - 134	
cis-1,2-Dichloroethene	25.0	25.2		ug/L		101	77 - 123	
Tetrachloroethene	25.0	26.9		ug/L		108	76 - 123	
trans-1,2-Dichloroethene	25.0	26.8		ug/L		107	75 - 124	
Trichloroethene	25.0	25.9		ug/L		103	70 - 122	
Vinyl chloride	12.5	12.3		ug/L		98	60 - 144	

	LCS LCS					
Surrogate	%Recovery	Qualifier	Limits			
1,2-Dichloroethane-d4 (Surr)	100		62 - 137			
4-Bromofluorobenzene (Surr)	86		56 - 136			
Toluene-d8 (Surr)	95		78 - 122			
Dibromofluoromethane (Surr)	96		73 - 120			

Analysis Batch: 594284

Lab Sample ID: 240-194809-C-1 MS Client Sample ID: Matrix Spike **Matrix: Water** 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	25.0	32.1		ug/L		128	56 - 135	
cis-1,2-Dichloroethene	1.0	U	25.0	25.7		ug/L		103	66 - 128	
Tetrachloroethene	1.0	U	25.0	26.8		ug/L		107	62 - 131	
trans-1,2-Dichloroethene	1.0	U	25.0	26.8		ug/L		107	56 - 136	
Trichloroethene	1.0	U	25.0	26.4		ug/L		106	61 - 124	
Vinyl chloride	1.0	U	12.5	10.2		ug/L		82	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	116		62 - 137
4-Bromofluorobenzene (Surr)	97		56 - 136
Toluene-d8 (Surr)	102		78 - 122

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Project/Site: Ford LTP - Off Site

Client: ARCADIS US Inc Job ID: 240-194822-1

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

Lab Sample ID: 240-194809-C-1 MS

Lab Sample ID: 240-194809-D-1 MSD

Matrix: Water

Analysis Batch: 594284

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 108 73 - 120

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 594284

S	ample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0	U	25.0	30.3		ug/L		121	56 - 135	6	26
cis-1,2-Dichloroethene	1.0	U	25.0	23.9		ug/L		95	66 - 128	8	14
Tetrachloroethene	1.0	U	25.0	25.0		ug/L		100	62 - 131	7	20
trans-1,2-Dichloroethene	1.0	U	25.0	26.1		ug/L		104	56 - 136	3	15
Trichloroethene	1.0	U	25.0	24.7		ug/L		99	61 - 124	7	15
Vinyl chloride	1.0	U	12.5	12.6		ug/L		101	43 - 157	21	24

MSD MSD

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Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	104		62 - 137
4-Bromofluorobenzene (Surr)	83		56 - 136
Toluene-d8 (Surr)	92		78 - 122
Dibromofluoromethane (Surr)	100		73 - 120

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

Lab Sample ID: MB 240-594455/5

Matrix: Water

Analysis Batch: 594455

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike

Prep Type: Total/NA

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			11/13/23 21:06	1
	МВ	МВ							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 82 66 - 120 11/13/23 21:06

Lab Sample ID: LCS 240-594455/3

Matrix: Water

Analysis Batch: 594455

•	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1 4-Dioxane	10.0	9 43		ua/l		94	80 122	

LCS LCS

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 84

Lab Sample ID: 240-194776-H-2 MS

Matrix: Water

Analysis Batch: 594455									-	
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	9.77		ug/L		98	51 - 153	

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Prep Type: Total/NA

QC Sample Results

Client: ARCADIS US Inc Job ID: 240-194822-1

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)	85		66 - 120

Lab Sample	ID: 240-1947	76-N-2 MSD

Matrix: Water

Surrogate

1,2-Dichloroethane-d4 (Surr)

	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	10.3		ug/L		103	51 - 153	5	16

MSD MSD %Recovery Qualifier Limits 83 66 - 120

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

QC Association Summary

Client: ARCADIS US Inc Job ID: 240-194822-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 594284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194822-1	TRIP BLANK_21	Total/NA	Water	8260D	
240-194822-2	MW-103S_110223	Total/NA	Water	8260D	
MB 240-594284/8	Method Blank	Total/NA	Water	8260D	
LCS 240-594284/5	Lab Control Sample	Total/NA	Water	8260D	
240-194809-C-1 MS	Matrix Spike	Total/NA	Water	8260D	
240-194809-D-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 594455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-194822-2	MW-103S_110223	Total/NA	Water	8260D SIM	
MB 240-594455/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-594455/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-194776-H-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-194776-N-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-194822-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_21

Lab Sample ID: 240-194822-1 Date Collected: 11/02/23 00:00

Matrix: Water

Date Received: 11/04/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D			594284	TJL2	EET CLE	11/11/23 16:43

Client Sample ID: MW-103S_110223 Lab Sample ID: 240-194822-2

Date Collected: 11/02/23 13:46 Matrix: Water

Date Received: 11/04/23 08:00

	Batch	Batch		Dilution	Batch		Prepared
Prep Type	Type	Method	Run	Factor	Number Analy	st Lab	or Analyzed
Total/NA	Analysis	8260D		1	594284 TJL2	EET CLE	11/11/23 21:15
Total/NA	Analysis	8260D SIM		1	594455 CS	EET CLE	11/13/23 23:52

Laboratory References:

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

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Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 240-194822-1 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 Number	2-27-24 Expiration Date	
California	State	2927		
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	08-31-24	
√irginia	NELAP	460175	09-14-24	
West Virginia DEP	State	210	12-31-23	

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

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T	Chair TestAmerica Laboratory location: Brighton 10448 Citat	Chain of Custody Record 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763		TestAmerica
Client Contact	-	NPDES RCRA Dither		MICE PARTICIPATION OF THE PROPERTY OF THE PROP
Company Name: Arcadis	-			TestAmerica Laboratorios Inc
Address: 28550 Cabot Drive, Suite 500	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	COC No:
City/State/Zip: Novi, MI, 48377	Telephone: 248-994-2240	Telephone: 248-994-2240	Telephone: 330-497-9396	
אוי אינט טער אינט	Email: kristoffer.hinskey@arcadis.com	Analysis Turnaround Time	Analyses	1 of 1 COCs
r none: 248-994-2240	Sampler Name.	TAT Glick c t. 1		Ann can can can
Project Name: Ford LTP Off-Site	Nolan Shendel	3 weeks		Walk-in client
Project Number: 30167538.402.04	Method of Shipment/Carrier:	1 week		Lab sampling
PO # 30167538,402.04	Shipping/Tracking No:	Crab=	8260D	Job/SDG No;
	Matrix	/ Ó ≕	DCE	
Sample Identification	Sample Date Sample Time Air Sediment Air Other:	1'1-DCE 8 Combosite Combos	DG-S, f-ainsi 1-S, f-ansi 10058 3D0 10058 3D0 10058 3D0 10050	Sample Specific Notes / Special Instructions:
V TRIP BLANK_ 2)		7 U	× ×	1 Trip Blank
VMW-1035 110223	7 7721241	* 374	3	3 V∩As for 8260D
			<	3 VOAs for 8260D SIM
Pag				
e 18				
of 20				
		240-194822 Chain of Custody		
				THUI THUI
				190
Possible Hazard Identification Non-Hazard Flammable Skin Irritant	rritant Poison B Unknown	Sample Disposal (Afee may be assessed if samples are retained longer than 1 month) Return to Client Disposal Ret ab	ples are retained longer than 1 month)	h di
omments:	٧,	Laborat by Lab	ACTIVE FOF § MORTHS	
Relinguished by: Nolan Schenel	İ	335 Received by Cold Staron	Company.	Date/Time
Relinquished by: Symmol Start	Company: Date/Time. Date/Time. 12 12 12 12 12 12 12 15 15 15 15 15 15 15 15 15 15 15 15 15	Received by	Company	1 (
Kelinquished by:	Date/Time $\mathcal{N}(\mathcal{S})$	23 12748 Received in Laboratory by:	Company:	Date Time: 23 820
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Eurofins - Cleveland Sample Receipt Form/Narrative Log	gin#: 194822
Barberton Facility	gin # : (
Client Arcadis Site Name	Cooler unpacked by:
Cooler Received on 1/-4-23 Opened on 1/-4-23	
FedEx: 1st Grd Exp UPS FAS Vaypoint Client Drop Off Eurofins Courier	Other
Receipt After-hours: Drop-off Date/Time Storage Location	
Eurofins Cooler # C 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	
IR GUN # 22 (CF°C) Observed Cooler Temp°C	C Corrected Cooler Temp°C
-Were the seals on the outside of the cooler(s) signed & dated? -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? -Were tamper/custody seals intact and uncompromised? 3. Shippers' packing slip attached to the cooler(s)? 4. Did custody papers accompany the sample(s)? 5. Were the custody papers relinquished & signed in the appropriate place? 6. Was/were the person(s) who collected the samples clearly identified on the COC? 7. Did all bottles arrive in good condition (Unbroken)? 8. Could all bottle labels (ID/Date/Time) be reconciled with the COC? 9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and 10. Were correct bottle(s) used for the test(s) indicated? 11. Sufficient quantity received to perform indicated analyses? 12. Are these work share samples and all listed on the COC? If yes, Questions 13-17 have been checked at the originating laboratory. 13. Were all preserved sample(s) at the correct pH upon receipt? 14. Were VOAs on the COC?	Tests that are not checked for pH by Receiving: VOAs Oil and Grease TOC No Sample type of grab/comp(V/N)? SNO SNO SNO SNO SNO SNO SNO SNO SNO SN
15. Were air bubbles >6 mm in any VOA vials? Larger than this.	es No NA
	No No
17. Was a LL Hg or Me Hg trip blank present?	es (No)
Contacted PM Date by via Verbal	Voice Mail Other
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES	Samples processed by:
19. SAMPLE CONDITION	
Sample(s) were received after the recommended hold	
	l in a broken container.
Sample(s) were received with bubble >6 mm i	in diameter. (Notify 1141)
20. SAMPLE PRESERVATION	
Sample(s)	ther preserved in the laboratory
Sample(s) were fur Time preserved: Preservative(s) added/Lot number(s):	ther preserved in the laboratory.
VOA Sample Preservation - Date/Time VOAs Frozen:	

Login #: 194822

			Eurofins - Cant	on Sample Receipt I	Multiple Cooler Form	
Coole	r Desci		IR Gun#	Observed	Corrected	Coolant
	(Circle)		(Circle)	Temp °C	Temp °C	(Circle)
EQ CI	eni Box	Other	IR GUN #:	1.5	2.6	Wet ice Blue ice Dry Ice Water None
EG CI	eni Box	Other	IR GUN #:	1-8	2.9	Wet ice Blue ice Dry ice Water None
EC CII	ni Box	Other	IR GUN #:			Wet ice Blue Ice Dry Ice Water None
EC CII	nt Box	Other	IR GUN #:			Wei ice Blue ice Dry ice Water None
EC CII	nt Box	Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water None
EC CH	ent Box	Other	IR GUN #:			Wet ice Sive Ice Dry ice Water None
EC CH	ent Box	Other	IR GUN #:			Wet ice Stue Ice Dry Ice Water None
EC CI	nt Box	Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC CH	nt Box	Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC CH	nt Box	Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC CI	nt Box	Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC CI	nt Box	Other ·	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC CII	nt Box	Other	IR GUN #:			Wel ice Blue ice Dry ice Water None
. IC CI	nt Box	Other	IR GUN #:			Wet ice . Sive ice Dry ice Water None
EC CIA	nt Box	Other	IR GUN #:	·		Wet ice Blue ice Dry ice Water None
EC CIN	ni Box	Other	IR GUN #:			Wet ice Blue ice Dry ice Water Mone
EC CIK	nt Box	Other	IR GUN #:		·	Wet ice Blue ice Dry ice Water None
EC CIN	nt Box	Other	IR GUN #:			Wet ice Blue ice . Dry ice Water None
EC CH	nt Box	Other	IR GUN #:	-		Wet Ice Sive Ice Dry Ice Water None
EC CIL	nt Box	Other	IR GUN #:			Wei Ice Sive Ice Dry Ice Water None
EC Clie	nt Box	Other	IR GUN #:	,		Wet ice Blue ice Dry ice Water None
EC Clie	nt Box	Other	IR GUN #:			Wet ice Sive ice Dry ice Water Mone
EC Clie	nt Box	Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Clie	nt Box	Other	IR GUN #:			Wet ice Sive Ice Dry Ice Water None
EC Clie	nt Box	Other	IR GUN #:			Wet ice Blue Ice Dry ice Water None
EC Clie	nt Box	Other	IR GUN #:			Wet ice Bive Ice Dry ice Water None
EC Clie	nt Box	Other	R GUN #:			Wef ice Blue ice Dry ice Water None
EC CHe	t Box	Other	IR GUN #:			Wef Ice Blue Ice Dry Ice Water None
EC Clie	t Box	Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Clie	t Box	Other	IR GUN #:			Wet ice Sive ice Dry ice Water None
EC Clier) Box	Other	IR GUN #:		X A S S S S S S S S S S S S S S S S S S	Wet ice Blue ice Dry ice Water None
EC Clier	Box	Other	IR GUN #:			Wet Ice Blue Ice Dry Ice Water Hone
EC Clien	Box	Other	R GUN #:			Wet ice Blue ice Dry ice Water None
EC Clien	Box	Other	IR GUN #:			Wet ice Sive ice Dry ice Water None
					☐ See Temp	erature Excursion Form

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

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DATA VERIFICATION REPORT



November 15, 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: 194822-1 Sample date: 2023-11-02

Report received by CADENA: 2023-11-15

Initial Data Verification completed by CADENA: 2023-11-15

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.

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 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	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.						
Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compound or when the data indicates the presence of an analyte / co but the result is less than the sample Quantitation limit, but greater than zero. The flag is a in data validation to indicate a reported value should be considered estimated due to associately 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: 194822-1

		Sample Name:	TRIP BLA	ANK_21			MW-103	S_1102	23	
		Lab Sample ID:	2401948	3221			2401948	3222		
		Sample Date:	11/2/20	23			11/2/20	23		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	<u>OD</u>									
	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		ND	1.0	ug/l	
OSW-826	<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 # 240-194822-1

CADENA Verification Report: 2023-11-15

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 52095R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-194822-1 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			Sample	Parent Sample	Analysis		
Sample 10	Labib	IVIALITA	Collection Date	Farent Sample	VOC	VOC SIM	
TRIP BLANK_21	240-194822-1	Water	11/02/2023		Х		
MW-103S_110223	240-194822-2	Water	11/02/2023		Х	X	

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Performance Acceptable		Not
	No	Yes	No	Yes	Required
Sample receipt condition		Х		Х	
Requested analyses and sample results		X		Х	
Master tracking list		X		Х	
4. Methods of analysis		X		Х	
5. Reporting limits		X		Х	
6. Sample collection date		X		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		Х	
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 Method 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 Ma		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.

No compounds were detected in the samples within this SDG.

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

VOCs: 8260D/8260D-SIM	Rep	oorted		rmance ptable	Not Required
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation					
System performance and column resolution		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
Ion abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	X				Х
Internal standard		Х		Х	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		Х		Х	
B. Quantitation Reports		Х		Х	
C. RT of sample compounds within the established RT windows		Х		Х	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Bindu Sree M B

SIGNATURE: BAShims

DATE: December 05, 2023

PEER REVIEW: Andrew Korycinski

DATE: December 11, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

Chain of Custody Record

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



Client Contact	Regula	tory program:	:		1 [)W		NPDI	ES		F	RCRA	A		Oth	ier								_					
Company Name: Arcadis																3												,	TestAmerica Laboratories, Inc.
Address: 28550 Cabot Drive, Suite 500	Client Project	Manager: Kris	Hinsl	key			Site	Conta	ict: (Chris	tina '	Weav	ver				Lab	Cont	act:	Mike	Del	Moni	co	W 1,4-Dioxane 8260D SIM		COC No:			
City/State/Zip: Novi, MI, 48377	Telephone: 248-994-2240			Telephone: 248-994-2240								Tele	phon	e: 33	0-49	7-93	96						\dashv						
	Email: kristoff	fer.hinskey@ar	cadis	.com	***************************************		-	Analy	sis T	urna	roun	d Tir	me	-	_	_	<u></u>				A	naly	505					4	1 of 1 COCs
Phone: 248-994-2240							-					distriction		1		┢	Ī	T	Т	T	А	laiy	T .	\top		\top		\dashv	For lab use only
Project Name: Ford LTP Off-Site	Sampler Name	Sche	nd	el	TAT if differen				TAT if different from below 3 weeks 10 day - 2 weeks				+														ľ	Walk-in client	
Project Number: 30167538.402.04	Method of Ship	ment/Carrier:					┨ '	u uay	'	1	wee	k		=	٥								≥						Lab sampling
PO # 30167538.402.04	Shipping/Track	king No:				W					2 days I day			Je (X / 1	C/Grab=	۵	8260D	E 8260				8260D	260D S					ŀ	Job/SDG No:
				î î	Matri	ix		Conta	ainers	s & P	reserv	vative	25	1 g	Ī	8260D	CE 8	-DC	١	9	8	oride	ne 8					ļ	in the state of th
Sample Identification	Sample Date	Sample Time	Air	Aqueous	Sediment	Solid Other:	H2SO4	HN03	HCI	NaOH	NaOH	Unpres	Other:	Filtered Sample (Y / N)	Composite	1,1-DCE	cis-1,2-DCE	Trans-1,2-DCE 8260D	100	PCE 8260D	TCE 8260D	Vinyl Chloride	1,4-Dioxa						Sample Specific Notes / Special Instructions:
TRIP BLANK_ 2]				1					1					N	G	Х	Х	X)	<	X	Х		T		1			1 Trip Blank
MW-1035_110223	11/02/23	13:46		6					6					N	6	入	X	()	(X	X	X	,			\dagger		1	3 VOAs for 8260D 3 VOAs for 8260D SIM
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Possible Hazard Identification ✓ Non-Hazard Flammable Skin Irrita	unt Poisc	D	<u> </u>				Si	ımple	Disp	osal	(A fo	ee ma	ay be	asses	sed i	f samp	les ar	e ret	ainec	l long	er t	han 1	mon	th)		Щ		ᆚ	* / -
Special Instructions/QC Requirements & Comments: Sample Address: 3440 COPt 10 55 Submit all results through Cadena at jtomalia@cadenaco	4424 Ca .com. Cadena #	upitol :	5°.†	nown				R	eturr	to C	Chent		✓ I	Oispo	sal B	y Lab			Arch	iive F	or [n. Mari	N	1onth	ıs				
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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-194822-1 Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_21

Lab Sample ID: 240-194822-1

Date Collected: 11/02/23 00:00 **Matrix: Water** Date Received: 11/04/23 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			11/11/23 16:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/11/23 16:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/11/23 16:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/11/23 16:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/11/23 16:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/11/23 16:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		62 - 137					11/11/23 16:43	1
4-Bromofluorobenzene (Surr)	77		56 ₋ 136					11/11/23 16:43	1
Toluene-d8 (Surr)	90		78 - 122					11/11/23 16:43	1
Dibromofluoromethane (Surr)	95		73 - 120					11/11/23 16:43	

Client Sample ID: MW-103S_110223 Lab Sample ID: 240-194822-2

Date Collected: 11/02/23 13:								Matrix	: Water
Date Received: 11/04/23 08:0 - Method: SW846 8260D SIM		anic Comp	ounds (GC/N	IS)					
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
1,4-Dioxane	2.0	U	2.0	0.86	ug/L		<u> </u>	11/13/23 23:52	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	92		66 - 120			-		11/13/23 23:52	
Method: SW846 8260D - Vo	_	Compoun Qualifier	ds by GC/MS RL		Unit	D	Prepared	Analyzed	Dil Fa
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L		-	11/11/23 21:15	-
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/11/23 21:15	
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/11/23 21:15	
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/11/23 21:15	
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/11/23 21:15	
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/11/23 21:15	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,2-Dichloroethane-d4 (Surr)	109		62 - 137			•		11/11/23 21:15	
4-Bromofluorobenzene (Surr)	75		56 - 136					11/11/23 21:15	
Toluene-d8 (Surr)	89		78 - 122					11/11/23 21:15	•
Dibromofluoromethane (Surr)	93		73 - 120					11/11/23 21:15	1