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ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS US Inc 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 5/31/2023 10:22:53 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-185643-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203



Eurofins Cleveland

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

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Generated 5/31/2023 10:22:53 AM

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Client: ARCADIS US Inc Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-185643-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-185643-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

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

Decision Level Concentration (Radiochemistry) DLC

Estimated Detection Limit (Dioxin) EDL 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

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Eurofins Cleveland

5/31/2023

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Case Narrative

Client: ARCADIS US Inc

Job ID: 240-185643-1

Project/Site: Ford LTP - Off Site

Job ID: 240-185643-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-185643-1

Receipt

The samples were received on 5/19/2023~8:00 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 0.8° C and 1.8° 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 Job ID: 240-185643-1

Project/Site: Ford LTP - Off Site

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

Protocol References:

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

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

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Sample Summary

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

Job ID: 240-185643-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-185643-1	TRIP BLANK_43	Water	05/17/23 00:00	05/19/23 08:00
240-185643-2	MW-159S_051723	Water	05/17/23 12:11	05/19/23 08:00

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Detection Summary

Client: ARCADIS US Inc Job ID: 240-185643-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_43 Lab Sample ID: 240-185643-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-185643-1

Project/Site: Ford LTP - Off Site

Date Received: 05/19/23 08:00

Toluene-d8 (Surr)

4-Bromofluorobenzene

Client Sample ID: TRIP BLANK_43

Lab Sample ID: 240-185643-1 Date Collected: 05/17/23 00:00

Matrix: Water

05/26/23 14:04

05/26/23 14:04

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/26/23 14:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/23 14:04	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/23 14:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/23 14:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/23 14:04	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/26/23 14:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 128			_		05/26/23 14:04	1
Dibromofluoromethane (Surr)	98		77 - 124					05/26/23 14:04	1

80 - 120

76 - 120

104

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-185643-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-159S_051723

Lab Sample ID: 240-185643-2 Date Collected: 05/17/23 12:11

Matrix: Water

Date Received: 05/19/23 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			05/23/23 23:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		 75 - 133			_		05/23/23 23:57	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/26/23 17:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/23 17:21	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/23 17:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/23 17:21	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/23 17:21	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/26/23 17:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 128			-		05/26/23 17:21	1
Dibromofluoromethane (Surr)	100		77 - 124					05/26/23 17:21	1
Toluene-d8 (Surr)	104		80 - 120					05/26/23 17:21	1
4-Bromofluorobenzene	89		76 - 120					05/26/23 17:21	1

Surrogate Summary

Client: ARCADIS US Inc Job ID: 240-185643-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate F					
		DCA	DBFM	TOL	BFB			
Lab Sample ID	Client Sample ID	(70-128)	(77-124)	(80-120)	(76-120)			
240-185643-1	TRIP BLANK_43	100	98	104	90			
240-185643-2	MW-159S_051723	99	100	104	89			
LCS 460-911610/4	Lab Control Sample	80	82	96	101			
LCSD 460-911610/5	Lab Control Sample Dup	85	87	101	107			
MB 460-911610/9	Method Blank	88	91	100	98			
Surrogate Legend								

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

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

BFB = 4-Bromofluorobenzene

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		BFB	
Lab Sample ID	Client Sample ID	(75-133)	
240-185643-2	MW-159S_051723	97	
LCS 460-910995/4	Lab Control Sample	98	
LCSD 460-910995/5	Lab Control Sample Dup	100	
MB 460-910995/8	Method Blank	99	

Surrogate Legend

BFB = 4-Bromofluorobenzene

Eurofins Cleveland

5/31/2023

Client: ARCADIS US Inc Job ID: 240-185643-1

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

Lab Sample ID: MB 460-911610/9

Matrix: Water

Analysis Batch: 911610

Project/Site: Ford LTP - Off Site

Client	Sample	ID:	Method	Blank
	Dr	on '	Type: To	tal/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			05/26/23 09:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/23 09:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/23 09:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/23 09:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/23 09:17	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/26/23 09:17	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 88 70 - 128 05/26/23 09:17 Dibromofluoromethane (Surr) 91 77 - 124 05/26/23 09:17 Toluene-d8 (Surr) 100 80 - 120 05/26/23 09:17 4-Bromofluorobenzene 98 76 - 120 05/26/23 09:17

Lab Sample ID: LCS 460-911610/4

Matrix: Water

Analysis Batch: 911610

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	20.4		ug/L		102	68 - 133	
cis-1,2-Dichloroethene	20.0	18.5		ug/L		93	78 - 121	
Tetrachloroethene	20.0	19.8		ug/L		99	70 - 127	
trans-1,2-Dichloroethene	20.0	20.5		ug/L		103	74 - 126	
Trichloroethene	20.0	17.8		ug/L		89	71 - 121	
Vinyl chloride	20.0	25.0		ug/L		125	55 - 144	

	LCS L	.cs	
Surrogate	%Recovery G	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	80		70 - 128
Dibromofluoromethane (Surr)	82		77 - 124
Toluene-d8 (Surr)	96		80 - 120
4-Bromofluorohenzene	101		76 120

Lab Sample ID: LCSD 460-911610/5

Matrix: Water

Analysis Batch: 911610

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

	Spike	LCSD	LCSD			%Rec		RPD
Analyte	Added	Result	Qualifier Ur	it D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	20.0	23.6	ug	/L	118	68 - 133	15	30
cis-1,2-Dichloroethene	20.0	20.3	ug	/L	101	78 - 121	9	30
Tetrachloroethene	20.0	20.5	ug	/L	102	70 - 127	3	30
trans-1,2-Dichloroethene	20.0	21.6	ug	/L	108	74 - 126	5	30
Trichloroethene	20.0	19.4	ug	/L	97	71 - 121	8	30
Vinyl chloride	20.0	28.6	ug	/L	143	55 - 144	14	30

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	85		70 - 128
Dibromofluoromethane (Surr)	87		77 - 124
Toluene-d8 (Surr)	101		80 - 120

Eurofins Cleveland

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5/31/2023

Job ID: 240-185643-1

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

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

Matrix: Water

Analysis Batch: 911610

Lab Sample ID: LCSD 460-911610/5

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

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 107 76 - 120

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

Lab Sample ID: MB 460-910995/8 Client Sample ID: Method Blank

Matrix: Water

Analysis Batch: 910995

MB MB Analyte Result Qualifier RL MDL Unit D Analyzed Dil Fac Prepared 2.0 1,4-Dioxane 2.0 U 0.86 ug/L 05/23/23 21:05

MB MB

Surrogate %Recovery Qualifier Limits Dil Fac Prepared Analyzed 4-Bromofluorobenzene 99 75 - 133 05/23/23 21:05

Lab Sample ID: LCS 460-910995/4 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analysis Batch: 910995

Spike LCS LCS %Rec Analyte Added Result Qualifier Limits Unit D %Rec 1,4-Dioxane 5.00 5.25 105 57 - 124 ug/L

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 75 - 133 98

Lab Sample ID: LCSD 460-910995/5 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 910995

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit 1,4-Dioxane 5.00 5.02 100 57 - 124 30 ug/L

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 100 75 - 133

Eurofins Cleveland

Prep Type: Total/NA

QC Association Summary

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

Job ID: 240-185643-1

GC/MS VOA

Analysis Batch: 910995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185643-2	MW-159S_051723	Total/NA	Water	8260D SIM	
MB 460-910995/8	Method Blank	Total/NA	Water	8260D SIM	
LCS 460-910995/4	Lab Control Sample	Total/NA	Water	8260D SIM	
LCSD 460-910995/5	Lab Control Sample Dup	Total/NA	Water	8260D SIM	

Analysis Batch: 911610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185643-1	TRIP BLANK_43	Total/NA	Water	8260D	
240-185643-2	MW-159S_051723	Total/NA	Water	8260D	
MB 460-911610/9	Method Blank	Total/NA	Water	8260D	
LCS 460-911610/4	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-911610/5	Lab Control Sample Dup	Total/NA	Water	8260D	

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-185643-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_43

Lab Sample ID: 240-185643-1 Date Collected: 05/17/23 00:00

Matrix: Water

Date Received: 05/19/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	911610	CJM	EET EDI	05/26/23 14:04

Client Sample ID: MW-159S_051723 Lab Sample ID: 240-185643-2

Date Collected: 05/17/23 12:11 Matrix: Water

Date Received: 05/19/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	911610	CJM	EET EDI	05/26/23 17:21
Total/NA	Analysis	8260D SIM		1	910995	KLB	EET EDI	05/23/23 23:57

Laboratory References:

EET EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Accreditation/Certification Summary

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

Job ID: 240-185643-1

Laboratory: Eurofins Edison

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

Authority	Program	Identification Number	Expiration Date
Connecticut	State	PH-0818	01-30-24
DE Haz. Subst. Cleanup Act (HSCA)	State	N/A	01-01-24
Georgia	State	12028 (NJ)	06-30-23
Massachusetts	State	M-NJ312	06-30-23
New Jersey	NELAP	12028	06-30-23
New York	NELAP	11452	04-01-24
Pennsylvania	NELAP	68-00522	03-01-24
Rhode Island	State	LAO00376	12-30-23
USDA	US Federal Programs	P330-20-00244	11-03-23

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Company Name Account Control Country Contr		TestAmerica Laboratory location: Brighton 10448 Cita	10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	2763	THE LEADER IN ENVIRONMENTAL TEBTIN
Compact Nate Contact Office Windows Contact Office Contact Office Windows Contact Office Conta	Client Contact	_	RCRA		
Traplemer 2 state with 2 state Traplemer 2 stat	Company Name: Areadis	Client Project Manager: Kris Hinskey		Lab Contact: Mike DelMonico	TestAmerica Laboratories, Inc. COC No:
	Address: 28550 Cabot Drive, Suite 500	Telephone: 248-994-2240		Telephone: 330-497-9396	
TRIP BLANK WAS 1 1 1 1 1 1 1 1 1	City/State/Zip: Novi, MI, 48377	Fmuil: tristoffer hinskov@arcadis com	Time	Analyses	For lab use only
TRIP BLANK W. Color Co	hone: 248-994-2240	Laman: NI Svonci imparcy (gal cauta)			Amo aco con la
Proble Hard demindion TRIP BLANK, W.S. CS.A.F. J. CS. CS.A.F. J. CS.A	roject Name: Ford LTP Off-Site	Sampler Name: FETTEIN	TAT it different from below 3 weeks		Walk-in client
TRIP BLANK WYS When the Hazard destination in Standard Designation of Control of Contro	roject Number: 30167538.402.04	Method of Shipment/Carrier:	I week	8	Lao sampiing
TRIP BLANK, W.S. TRIP BLANK,	O#30167538.402.04		ole (Y / Grab	85e0E	Job/SDG No:
TRIP BLANK US WW - [SAS_OSYTE] WW - [SAS_OSYTE	Sample Identification	Sample Time Air Scotment Scotm	HCI Composite Co	Trans-1,2-DCI	Sample Specific Notes / Special Instructions:
WW—1545_05477 WW—1545_05477 WW—1545_055477 White Hazard Identification White Manage Research Research White Research Research Research White Research Research Research White Research Research Research White Research Research White Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Research Resear			× 9 2	×	1 Trip Blank
Posble Hzard Identification Non-lizard Parison of Custody Non-lizard Financials Standard Deposit Note in the assessed frame Note in the assesse	1	1771	Z 2	XXXX	3 VOAs for 8260B
rd dentification rd Flammable Skin Irritant Poison B Unknown Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ss. 74 (A Co V) & A Countents. ss. 74 (A Co V) & A Countents. titls through Cadena at Jonalia@cadenaco.com. Cadena #E203631 titls through Cadena at Jonalia Policy P			240-185643 Chain o	of Custody	MICHIGAN 190
I company: Comp					
ons/OC Requirements & Comments: 3 La 4 Co 15 e a Cox 3 Its through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Its a requested. Company:	Possible Hazard Identification Non-Hazard Flammable Sl	_	Sample Disposal (A fee may be assessed if sample Return to Client	es are retained longer than 1 month) Archive For	
Company: Com	pecial Instructions/QC Requirements & Comments: ample Address:				
Company: Com	١١١١	a lis Dalling	Received VI (S) (Company:	Date/Time: 04/17/73 (400
Received in Laboratory 19: Company: Date Time: Date Time: And Laboratory 19: Company: Date Time: Da	Relinquished by:	CAUTS		Company	122/1
	Relinquished by:	PTP Sate/Time:	Received in Laboratory by:	Company	Date/Time: 05-19-23 80C

	166643
Eurofins - Canton Sample Receipt Form/Narrative Login # : Barberton Facility	1824 0
Client Arcadis Site Name	Cooler unpacked by:
Cooler Received on 05-19-23 Opened on 05-19-23	Leah M. Smith
FedEx: 1st Grd Exp UPS FAS Chipper Client Drop Off Eurofins Courier Oth	ner
Receipt After-hours: Drop-off Date/Time Storage Location	
COOLANT: Wet Ice Blue Ice Dry Ice Water None 1. Cooler temperature upon receipt	
IR GUN # (CF°C) Observed Cooler Temp °C O	
	No NA Tests that are not
	checked for pH by Receiving:
	No NA
3. Shippers' packing slip attached to the cooler(s)? Yes	VOAs VOAs
	No Oil and Grease TOC
5. Were the custody papers relinquished & signed in the appropriate place?	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	
	No O No
 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 sample. 	
	No
	No No
	(No
If yes, Questions 13-17 have been checked at the originating laboratory.	
	No (NA) pH Strip Lot# HC208070
	No
	NO NA
	(No)
Contacted PM Date by via Verbal V	oice Mail Other
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page	Samples processed by:
19. SAMPLE CONDITION	to a time to discount and
Sample(s) were received after the recommended hold	
Sample(s) were received with bubble >6 mm in the sample were received with bubble were received with bubble were received with bubble >6 mm in the sample were received with bubble were rec	
Sample(s)were received with bubble >0 min i	m diameter. (Notify PM)
20. SAMPLE PRESERVATION	
Sample(s) were fu	rther preserved in the laboratory.
Sample(s) were full Time preserved: Preservative(s) added/Lot number(s):	
VOA Sample Preservation - Date/Time VOAs Frozen:	

Login #: 185643

		Eurofins - Canto	n Sample Receipt M	lultiple Cooler Form	
Cooler Descri	ption	IR Gun#	Observed	Corrected	Coolant
(Circle)		(Circle)	Temp °C	Temp °C	(Circle)
EC Client Box	Other	IR GUN #:	0.8,	0.8	Wet ice Blue Ice Dry Ice
EC Client Box	Other	IR GUN #:	/. 🛚	1.8	Wet ice Blue ice Dry ice Water None
EC Client Box	Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client Box	Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client Box	Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client Box	Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client Box	Other	IR GUN #:			Wet Ice Sive Ice Dry Ice Water None
EC Client Box	Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client Box	Other	IR GUN #:			Wel ice Blue Ice Dry ice Water None
EC Client Box	Other	IR GUN #:			Wet ice Sive Ice Dry Ice Water None
EC Client Box	Other	IR GUN #:			Wet Ice Stue Ice Dry Ice Water None
EC Client Box	Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client Box	Other	IR GUN #:			Wet Ice Stue Ice Dry Ice Water None
EC Client Box	Other	IR GUN #:			Wet Ice Sive Ice Dry Ice Water None
EC Client Box	Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
EC Client Box	Other	IR GUN #:	-		Wet Ice Blue Ice Dry Ice Water None
EC Client Box	Other	IR GUN #:			Wet ice Blue ice Dry ice Water None
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				☐ See Temp	erature Excursion Form

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

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Eurofins Cleveland

180 S. Van Buren Avenue Barberton, OH 44203 Phone: 330-497-9396 Fax: 330-497-0772

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Client Information (Sub Contract Lab)	Sampler	Lab PM: DelMonico, Michael		Carner tracking nots):	240-168358.1
Client Contact Shipping/Receiving	Phone:	E-Mait: Michael.DelMonico@et.eurofinsus.com	eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: Eurofins Environment Testing Northeast,		Accreditations Required (See note)	(See note):		Job #. 240-185643-1
Address: 777 New Durham Road,	Due Date Requested: 6/1/2023		Analysis Requested	nested	eservation Codes;
City: Edison	TAT Requested (days):				
State, Zp: NJ, 08817		K			
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #	(18)			Amchlor Ascorbic Acid
Email:	WO #	No) Thort			l Ice V J Di Water W
Project Name: Ford L.TP - Off Site	Project #: 24015353	00° (a			K EDIA Y
Site:	SSOW#:	v (ao			03 10 e
The same of the sa		MARTIX (Wowerster, Street, Str			30dmuM isto
Sample Identification - Client ID (Lab ID)	Sample Date Time G=grab)	ation Code: XX			Special Instructions/Note:
TRIP BLANK_43 (240-185643-1)	5/17/23 Eastem	Water			
MW 159S_051723 (240-185643-2)	5/17/23 12:11 Eastern	Water × ×			9
					O.S. Constitution
The state of the s					
The state of the s					
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratory or other instructions will be provided. Any changes the back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes taccreditation in the State of Origin listed above for analysis/less/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central.	nt Testing North Central, LLC places the ownersh bove for analysis/tests/matrix being analyzed, the entral, LLC attention immediately. If all requested	hip of method, analyte & accreditation con e samples must be shipped back to the Eu d accreditations are current to date, return	pliance upon our subcorrolins Environment Test the signed Chain of Cus	ntract laboratories. This sample shing North Central, LLC laboratory of tody attesting to said compliance to	ces the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the 1g analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central. LLC laboratory or other instructions will be provided. Any changes to If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central. LLC.
Possible Hazard Identification Unconfirmed	A CONTRACTOR OF THE CONTRACTOR	Sample Disposal (At	al (A fee may be a	assessed if samples are re Disposal By Lab	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Archive For Months
Deliverable Requested. I, II, III, IV Other (specify)	Primary Deliverable Rank: 2	Special Instructi	Requirem	nts.	
Empty Kit Relinquished by	Date:	Time:		Method of Shipment:	
Apalysimoulas)	911 ELDINE	Company N A Secesive Company	D Te	Coc Date/Time:	23 1BO CONTYA
Refinduished by:	[Date/Time]: Co	Company Reserved M.		Date/Time:	Сотралу

Custody Seal No.

Login Sample Receipt Checklist

Client: ARCADIS US Inc Job Number: 240-185643-1

List Source: Eurofins Edison
List Number: 2
List Creation: 05/23/23 06:56 PM

Creator: Armbruster, Chris

Creator: Armbruster, Chris		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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DATA VERIFICATION REPORT



May 31, 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: 185643-1 Sample date: 2023-05-17

Report received by CADENA: 2023-05-31

Initial Data Verification completed by CADENA: 2023-05-31

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, LCS/LCD RPD, 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.
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: 185643-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401856 5/17/20	5431			MW-159 2401856 5/17/20	_ 5432	23	
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-826	<u>0D</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 # 240-185643-1

CADENA Verification Report: 2023-05-31

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49961R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-185643-1 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	Barant Sample	Ana	lysis
Sample ID	Lab ID	Matrix	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_43	240-185643-1	Water	05/17/23		X	
MW-159S_051723	240-185643-2	Water	05/17/23		X	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Perfori Accep		Not Required
	No	Yes	No	Yes	Required
Sample receipt condition		Χ		X	
2. Requested analyses and sample results		Χ		X	
Master tracking list		Χ		Х	
4. Methods of analysis		Χ		Х	
5. Reporting limits		Χ		Х	
6. Sample collection date		Χ		Х	
7. Laboratory sample received date		Χ		Х	
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	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.

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	orted		rmance ptable	Not
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation		1			
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	
lon abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	Х				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		Х		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: Hrishikesh Upadhyaya

SIGNATURE: Cuindinlund

DATE: June 19, 2023

PEER REVIEW: Andrew Korycinski

DATE: June 21, 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	Regulat	ory program	:	-	DW		NPDI	ES		RC	RA		Oth	er										
Company Name: Arcadis	Client Project N	lanager: Kris	Hinsk	(ey		Site	Conta	act: C	hrist	tina W	eaver				Lab (Contac	t: Mil	ce Del	Monic	0				TestAmerica Laboratories, Inc. COC No:
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-2240				Tel	ephone	e: 248	₹-994	-2240					Teler	hone:	330-4	97-93	96					
City/State/Zip: Novi, MI, 48377							Analy				Time				T Cic,	, ione i			naly	200				1 of 1 COCs
Phone: 248-994-2240	Email: kristoff		readis.	.com							1 title			-					liarys	l			1	For lab use only
Project Name: Ford LTP Off-Site	Sampler Name	Ferre	lyn	1			T if diffe	- 1	3	weeks		- 1												Walk-in client
Project Number: 30167538.402.04	Method of Ship					- 1	10 day	,	1	weeks	i	9	U			_				SIM				Lab sampling
PO # 30167538.402.04	Shipping/Track	ing No:				\dashv			1	days day		mple (Y / N)	Grab		8260B	82608			8260B	8260B S				Job/SDG No:
				N	atrix		Cont	ainers	& Pr	reserva	tives	- ja	· \$\frac{1}{2}	8260B	E 820	200			ge 8	e 82				
Sample Identification	Sample Date	Sample Time	Air	Aqueous	Solid	H2SO4	HNO3	HCI	NaOH ZaAc/	NaOII	Other:	Filtered Sa	Composite	1,1-DCE 8;	cis-1,2-DCE	Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B	Vinyl Chloride	1,4-Dioxane				Sample Specific Notes / Special Instructions:
TRIP BLANK_ \(\mathcal{V}^2\)	05/17/23			1				1				N	I G		Х	Х	X	Х	X					1 Trip Blank
MW-1595-051723	05/17/23	1211		6				6				1	6	X	X	X	X	X	X	X				3 VOAs for 8260B 3 VOAs for 8260B SIM
Page 628 of 632							\Box	\dagger	+			+	+						1				+	
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						İ																		
Possible Hazard Identification Non-Hazard Flammable Skin Iri	ritant Poisc	on B	Unk	nown		1		e Disp			may be			f samp y Lab			ined lo		than 1		onths			
Special Instructions/OC Requirements & Comments:	,)																							
Sample Address: 34970 164000 Submit all results through Cadena at jtomalia@cadena	्री aco.com. Cadena #	E203631																						
Level IV Reporting requested. Relinquished by:	Complany:	11 -		Date/1	me: -	1		IR	Receiv	veti by			1	1				Com	ntiny:					Date/Time:
Levilaterella	Trea	Ous		De	0/17	123,	140	-		Ans	;	'al	d	Sk	OVA	51				ca	dis			05/17/73 1400
Relinquished by:	Company: ARC	AUIS		Date/1	/18/	23/	124	15		ved by	nh	h	A	To	2			Com	pany:	ET	A			Date/Time: 5/18/23/1245
Relinquished by:	Company:	TA		Date/I	ime:	331	බා			ved in	Labora	tory t	by:	lin	itt			Com	pany:	TI	vc			Date/Time: 05~19-23 800

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-185643-1 Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_43

Lab Sample ID: 240-185643-1

Date Collected: 05/17/23 00:00 **Matrix: Water** Date Received: 05/19/23 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			05/26/23 14:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/23 14:04	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/23 14:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/23 14:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/23 14:04	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/26/23 14:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 128					05/26/23 14:04	1
Dibromofluoromethane (Surr)	98		77 - 124					05/26/23 14:04	1
Toluene-d8 (Surr)	104		80 - 120					05/26/23 14:04	1
4-Bromofluorobenzene	90		76 - 120					05/26/23 14:04	1

Client Sample ID: MW-159S_051723 Lab Sample ID: 240-185643-2

Date Collected: 05/17/23 12:11 Date Received: 05/19/23 08:00

Method: SW846 8260D S	IM - Volatile Orga	anic Comp	ounds (GC/N	1S)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/23/23 23:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	97		75 - 133			· ·		05/23/23 23:57	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/26/23 17:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/26/23 17:21	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/26/23 17:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/26/23 17:21	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/26/23 17:21	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/26/23 17:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2 Dichloroothono d4 (Surr)			70 100					05/06/00 17:01	

Surrogate	%Recovery	Qualifier	Limits	P	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		70 - 128			05/26/23 17:21	1
Dibromofluoromethane (Surr)	100		77 - 124			05/26/23 17:21	1
Toluene-d8 (Surr)	104		80 - 120			05/26/23 17:21	1
4-Bromofluorobenzene	89		76 - 120			05/26/23 17:21	1

Matrix: Water