PREPARED FOR

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

Generated 5/18/2023 9:35:52 PM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-185007-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

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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: 240-185007-1

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Definitions/Glossary

Client: ARCADIS US Inc Job ID: 240-185007-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA
Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

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

4

5

6

0

46

11

40

14

Case Narrative

Client: ARCADIS US Inc

Job ID: 240-185007-1

Project/Site: Ford LTP - Off Site

Job ID: 240-185007-1

Laboratory: Eurofins Cleveland

Narrative

Job Narrative 240-185007-1

Receipt

The samples were received on 5/9/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 2.0° C, 2.8° C, 3.3° C and 4.3° 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: 240-185007-1

Method **Method Description** Protocol Laboratory SW846 EET EDI 8260D Volatile Organic Compounds by GC/MS 8260D SIM Volatile Organic Compounds (GC/MS) SW846 EET EDI 5030C SW846 EET EDI 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 EDI = Eurofins Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

Sample Summary

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

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received

 240-185007-1
 TRIP BLANK_137
 Water
 05/05/23 00:00
 05/09/23 10:30

 240-185007-2
 MW-161S_050523
 Water
 05/05/23 09:40
 05/09/23 10:30

-

Job ID: 240-185007-1

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Detection Summary

Client: ARCADIS US Inc Job ID: 240-185007-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_137 Lab Sample ID: 240-185007-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS US Inc Job ID: 240-185007-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_137

Lab Sample ID: 240-185007-1 Date Collected: 05/05/23 00:00

Matrix: Water

Date Received: 05/09/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/16/23 00:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/16/23 00:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/16/23 00:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/16/23 00:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/16/23 00:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/16/23 00:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			70 - 128			_		05/16/23 00:32	1
Dibromofluoromethane (Surr)	115		77 - 124					05/16/23 00:32	1
Toluene-d8 (Surr)	108		80 - 120					05/16/23 00:32	1
4-Bromofluorobenzene	101		76 - 120					05/16/23 00:32	1

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-185007-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-161S_050523

Date Collected: 05/05/23 09:40 Date Received: 05/09/23 10:30

1,2-Dichloroethane-d4 (Surr)

Dibromofluoromethane (Surr)

Toluene-d8 (Surr)

4-Bromofluorobenzene

Lab Sample ID: 240-185007-2

05/16/23 02:59

05/16/23 02:59 05/16/23 02:59

05/16/23 02:59

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			05/18/23 11:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		75 - 133			-		05/18/23 11:04	1
- Method: SW846 8260D - Vol	atile 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			05/16/23 02:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/16/23 02:59	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/16/23 02:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/16/23 02:59	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/16/23 02:59	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/16/23 02:59	1

70 - 128

77 - 124

80 - 120

76 - 120

123

123

110

102

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Surrogate Summary

Client: ARCADIS US Inc

Project/Site: Ford LTP - Off Site

Job ID: 240-185007-1

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

Matrix: Water Prep Type: Total/NA

				Percent Su	rrogate Rec
		DCA	DBFM	TOL	BFB
Lab Sample ID	Client Sample ID	(70-128)	(77-124)	(80-120)	(76-120)
240-185007-1	TRIP BLANK_137	117	115	108	101
240-185007-2	MW-161S_050523	123	123	110	102
LCS 460-909279/3	Lab Control Sample	99	96	99	91
LCSD 460-909279/4	Lab Control Sample Dup	105	100	105	99
MB 460-909279/9	Method Blank	114	109	103	96

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)	
240-185007-2	MW-161S_050523	95	
LCS 460-909931/4	Lab Control Sample	94	
LCSD 460-909931/12	Lab Control Sample Dup	96	
MB 460-909931/7	Method Blank	96	

Surrogate Legend

BFB = 4-Bromofluorobenzene

Eurofins Cleveland

Client: ARCADIS US Inc Job ID: 240-185007-1

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

Lab Sample ID: MB 460-909279/9

Project/Site: Ford LTP - Off Site

Matrix: Water

Analysis Batch: 909279

Client Samp	le 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			05/15/23 21:44	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/15/23 21:44	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/15/23 21:44	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/15/23 21:44	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/15/23 21:44	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/15/23 21:44	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		70 - 128		05/15/23 21:44	1
Dibromofluoromethane (Surr)	109		77 - 124		05/15/23 21:44	1
Toluene-d8 (Surr)	103		80 - 120		05/15/23 21:44	1
4-Bromofluorobenzene	96		76 - 120		05/15/23 21:44	1

Lab Sample ID: LCS 460-909279/3 Client Sample ID: Lab Control Sample **Matrix: Water** Prep Type: Total/NA

Analysis Batch: 909279

%Rec Spike LCS LCS Analyte Added Result Qualifier Unit %Rec Limits 1,1-Dichloroethene 20.0 15.5 77 68 - 133 ug/L 20.0 78 - 121 cis-1,2-Dichloroethene 17.1 ug/L 86 Tetrachloroethene 20.0 19.5 98 70 - 127 ug/L trans-1,2-Dichloroethene 20.0 17.0 ug/L 85 74 - 126 Trichloroethene 20.0 17.7 ug/L 88 71 - 121 Vinyl chloride ug/L 20.0 16.2 55 - 144

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		70 - 128
Dibromofluoromethane (Surr)	96		77 - 124
Toluene-d8 (Surr)	99		80 - 120
4-Bromofluorobenzene	91		76 - 120

Lab Sample ID: LCSD 460-909279/4

Matrix: Water

Analysis Batch: 909279

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

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	20.0	16.7		ug/L		83	68 - 133	8	30
cis-1,2-Dichloroethene	20.0	17.5		ug/L		88	78 - 121	2	30
Tetrachloroethene	20.0	20.4		ug/L		102	70 - 127	4	30
trans-1,2-Dichloroethene	20.0	18.0		ug/L		90	74 - 126	5	30
Trichloroethene	20.0	18.2		ug/L		91	71 - 121	3	30
Vinyl chloride	20.0	16.9		ug/L		85	55 - 144	4	30

LCSD LCSD

Surrogate	%Recovery (Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 128
Dibromofluoromethane (Surr)	100		77 - 124
Toluene-d8 (Surr)	105		80 - 120

Eurofins Cleveland

Page 12 of 21

Client: ARCADIS US Inc Job ID: 240-185007-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: LCSD 460-909279/4

Matrix: Water

Analysis Batch: 909279

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene 76 - 120 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Dil Fac

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

Lab Sample ID: MB 460-909931/7 **Matrix: Water**

Analysis Batch: 909931

MB MB Analyte Result Qualifier

1,4-Dioxane 2.0 U

> MB MB %Recovery

Surrogate 4-Bromofluorobenzene 96

Qualifier

75 - 133

Spike

Added

Limits

75 - 133

Spike

Added

5.00

5.00

Limits

RL

2.0

MDL Unit

0.86 ug/L

LCS LCS

LCSD LCSD

Result

4.91

Qualifier

4.90

Result Qualifier

Unit

ug/L

Unit

ug/L

D

D

%Rec

98

Prepared

05/18/23 08:26

Lab Sample ID: LCS 460-909931/4

Matrix: Water

1,4-Dioxane

1,4-Dioxane

Analysis Batch: 909931

Analyte

Surrogate

%Recovery 4-Bromofluorobenzene

Qualifier 94

LCS LCS

Lab Sample ID: LCSD 460-909931/12 **Matrix: Water**

Analysis Batch: 909931

Analyte

Surrogate 4-Bromofluorobenzene

LCSD LCSD %Recovery Qualifier 96

75 - 133

Dil Fac Prepared Analyzed

Client Sample ID: Method Blank

Analyzed

05/18/23 08:26

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

%Rec

Limits

57 - 124

%Rec RPD %Rec Limits RPD Limit 57 - 124 30

Limits

Eurofins Cleveland

QC Association Summary

Client: ARCADIS US Inc Job ID: 240-185007-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 909279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185007-1	TRIP BLANK_137	Total/NA	Water	8260D	
240-185007-2	MW-161S_050523	Total/NA	Water	8260D	
MB 460-909279/9	Method Blank	Total/NA	Water	8260D	
LCS 460-909279/3	Lab Control Sample	Total/NA	Water	8260D	
LCSD 460-909279/4	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 909931

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-185007-2	MW-161S_050523	Total/NA	Water	8260D SIM	
MB 460-909931/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 460-909931/4	Lab Control Sample	Total/NA	Water	8260D SIM	
LCSD 460-909931/12	Lab Control Sample Dup	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: ARCADIS US Inc Job ID: 240-185007-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_137

Lab Sample ID: 240-185007-1 Date Collected: 05/05/23 00:00

Matrix: Water

Date Received: 05/09/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	909279	SZD	EET EDI	05/16/23 00:32

Client Sample ID: MW-161S_050523 Lab Sample ID: 240-185007-2

Date Collected: 05/05/23 09:40 Matrix: Water

Date Received: 05/09/23 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	909279	SZD	EET EDI	05/16/23 02:59
Total/NA	Analysis	8260D SIM		1	909931	SZD	EET EDI	05/18/23 11:04

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS US Inc Job ID: 240-185007-1 Project/Site: Ford LTP - Off Site

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

061	TestAmerica Laboratory location; Brighton	10448 Citation	10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	Brighton, MI 48116	3 / 810-22	9-2763				DIDITION OF THE PROPERTY OF TH
Client Contact	Regulatory program:	wd -	NPDES	RCRA	Other				1	
Company Name: Arcadis	Client Project Manager: Kris Hinskey		Site Contact Christina Waster	tine Waster		100	And Maller	A Contract Mells Park		TestAmerica Laboratories, Inc.
Address: 28550 Cabot Drive, Suite 500			SHE COMMEN. CHINS	The second			act: Mike	Deimonic	e	CO. No.
City/State/Zip: Novi, MI, 48377	Telephone: 248-994-2240		Telephone: 248-994-2240	1-2240		Telepho	Telephone: 330-497-9396	7-9396		1 of 1 COCs
Phone: 248-994-2240	Email: kristoffer.hinskey@arcadis.com		Analysis Turnaround Time	round Time				Analyses	sa	ylin
Project Name: Ford LTP Off-Site	Sampler Name: JOE FOUT IK		from from the	3 weeks	3.19					Walk-in client
Project Number: 30167538,402.04	пэсп		ye day	l week	_				MIS	Lab sampling
PO# 30167538.402.04	Shipping/Tracking No:		Ī		Grab-	8098		85608	\$ 8098	Job/SDG No:
		Matrix	Containers & Preservatives	T	/ D==at	28 3C	_		Z8 əu	
Sample Identification	Sample Date Sample Time	Sodiment Solid Other:	HOH HCI HCI HTSO4	Va.Va. Va.O.H Unpres Other:	Filtered S Composit	Cis-1,2-Di	PCE 8260	TCE 8260	exold-4,1	Sample Specific Notes / Special Instructions:
TRIP BLANK_ 137	- 1		-		X D N	×	×	×		1 Trip Blank
MW-1645 050523	8.5.23 0940 6		٩	2	× 5 N	×	×	×	×	3 VOAs for 8260B
										2 0000 10 0000 0
				\$4°	240-185007 Chair					
							Sustody			
Identification			Sample Disposal	Sample Disposal (A fee may be assessed if samples are retained (unoer than I month)	ssed If sam	ples are re	ained long	er than	month)	
ind Flammable ions/QC Requirements & Comments: SS: SS Bits through Cadena at jtomalia@ting requested.	Skin Irritant		Return to Client	lient & Disp	Disposal By Lab	L.	Archive For	or [Months	
Relinquished by	Company: Date	-	345 Recei	Received by: COLD	STORAGE	ALK	5	Company:	Arcodis	Date/Time: / 1245
Relinquished by:	POIS	Date/Time:	1050 Recei	Received by:	3			Company:	43	
Relinquished by:	Company: Dated	(£2/8	1050 Keed	Received in Laboratory	in i	Smith)	Company	3	0)
		-]	1		7

MICHIGAN 190

Eurofins - Canton Sample Receipt Form/Narrative Login #	. 185001
Barberton Facility	
Client Accadis Site Name	Cooler unpacked by:
Cooler Received on 05-09-23 Opened on 05-09-23	Leah M. danth
	Other
Receipt After-hours: Drop-off Date/Time Storage Location	
Packing material used: Bubble Wrap Foam Plastic Bag None Other	
COOLANT: Wet Ice Blue Ice Dry Ice Water None	
1. Cooler temperature upon receipt	
IR GUN # 17 (CF + 0, 1 °C) Observed Cooler Temp. °C	Corrected Cooler Temp°C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity	es No
The state of the s	es No NA Tests that are not checked for pH by
	es No Receiving:
	es No NA
3. Shippers' packing slip attached to the cooler(s)?	VOAs Oil and Grease
4. Did custody papers accompany the sample(s)? 5. Were the custody papers religiously had 8 signed in the appropriate place?	TOC
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?	es No
	es) No
	es) No
9. For each sample, does the COC specify preservatives (YN), # of containers (YN), and	
	es No
1	es No
	es No
If yes, Questions 13-17 have been checked at the originating laboratory.	N
13. Were all preserved sample(s) at the correct pH upon receipt? 14. Were VOAs on the COC?	No NA pH Strip Lot# HC208070 No
	es (No) NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 62 1 2	No No
	es No
Contacted PM Date by via Verbal	Voice Mail Other
Contacted I M Via Verbar	Voice Mail Other
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page	Samples processed by:
200 CIMILATOR COOLON & CHARLES DISCRESS TATALON CONTROL HOAT PAGE	Samples processed by.
19. SAMPLE CONDITION	
Sample(s) were received after the recommended ho	lding time had expired
Sample(s) were received after the recommended no	
Sample(s) were received with bubble >6 mm	
20. SAMPLE PRESERVATION	
Sample(s) were f	further preserved in the laboratory.
Sample(s) were for time preserved: Preservative(s) added/Lot number(s):	1
VOA Sample Preservation - Date/Time VOAs Frozen:	

ogin #	ř :	
--------	-----	--

		Eurofins - Canto	n Sample Receipt M	ultiple Cooler Form	
Cooler De	scription	IR Gun#	Observed	Corrected	Coolant
(Cir		(Circle)	Temp °C	Temp °C	(Circle)
EC Client	Box Other	IR GUN #:	2.7	2.8	Wet ice Blue ice Dry ice Water None
EC Client	Box Other	IR GUN #:	3.2	3.3	Water None
EC Client	Box Other	IR GUN #:	1.9	2.0	Wet ice Blue ice Dry ice
EC Client	Box Other	IR GUN #:	4.2	4.3	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 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 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 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 Wet ice Blue ice Dry ice
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WI-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

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Date/Time:

Cooler Temperature(s) °C and Other Remarks:

Received by: Received by:

Company

Date/Time:

Custody Seals Intact: Custody Seal No: 7

Delinquished by:

Eurofins Cleveland

eurofins Environment Testing	Carrier Tracking No(s): COC No. 240-167888.1	State of Origin: Page: fineurs com Michinan Page:
Chain of Custody Record	Sampler: Lab PM: DelMonico, Michael	Phone: E-Mail: State of Orig Michael DelMonico@et eurofinsus com Michiaan
Eurofins Cleveland 180 S. Van Buren Avenue Barberton, OH 44203 Phone: 330-497-9396 Fax: 330-497-0772	ormation (Sub Contract Lab)	Client Contact: Shipping/Receiving

String Northbeast,	Propries	Client Information (Sub Contract Lab)	Sampler:		Lab PM: DelMonico	Lab PM: DelMonico, Michael		Carrier Tracking No(s):	COC 240	COC No: 240-167888.1
TAT Requested (stays)	Case	Client Contact: Shipping/Receiving	Phone:		E-Mail: Michael D	elMonico@et eurofin		State of Origin:	Page	e: 2010 - 1010 - 1010 - 1010 - 1010 - 1010 - 1010 - 1010 - 1010 - 1010 - 1010 - 1010 - 1010 - 1010 - 1010 - 1010 -
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Fax PO # C	Company Comp	Otty. Edison	TAT Requested (days):		,				¥ & C	
Fex. Pop #	Compact Comp	State, Zip: NJ, 08817							<u></u>	
Figure Front Fro	Topics Eastern Sample Date Time Sample Time Tim	Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:		(0	(te			<u>.</u> 6	
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Login Sample Receipt Checklist

Client: ARCADIS US Inc Job Number: 240-185007-1

List Source: Eurofins Edison
List Number: 2
List Creation: 05/11/23 01:12 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 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: 185007-1 Sample date: 2023-05-05

Report received by CADENA: 2023-05-23

Initial Data Verification completed by CADENA: 2023-05-24

Number of Samples:2

Sample Matrices: Water and trip blank

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 Inc, 1099 Highland Drive, Suite E, Ann Arbor, MI 48108 517-819-0356

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	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: 185007-1

				ANK_137 0071 3	,		MW-161S_050523 2401850072 5/5/2023			
				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 # 240-185007-1

CADENA Verification Report: 2023-05-24

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49923R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-185007-1 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 Collection		Sample Collection		Analysis			
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM		
TRIP BLANK_137	240-185007-1	Water	05/05/23		Х			
MW-161S_050523	240-185007-2	Water	05/05/23		X	X		

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance ptable	Not Required	
	No	Yes	No	Yes	Required	
1. Sample receipt condition		X		X		
2. Requested analyses and sample results		Х		Х		
Master tracking list		Х		Х		
4. Methods of analysis		Х		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		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 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	Perfo Acce	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	
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: Dilip Kumar

SIGNATURE:

DATE: June 16, 2023

PEER REVIEW: Andrew Korycinski

DATE: June 19, 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 Regulatory program: DW NPDES RCRA ☐ Other Company Name: Arcadis TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico COC No: Address: 28550 Cabot Drive, Suite 500 Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 City/State/Zip: Novi, MI, 48377 COCs 1 of 1 Analysis Turnaround Time Email: kristoffer.hinskey@arcadis.com Analyses For lab use only Phone: 248-994-2240 AT if different from below Sampler Name: Walk-in client Project Name: Ford LTP Off-Site 3 weeks FOSTIK JOE ≥ 2 weeks 10 day Lab sampling Project Number: 30167538.402.04 Method of Shipment/Carrier: 1 week S -C/Grab-G 8260B 2 days Vinyl Chloride 8260B 8260B PO # 30167538.402.04 Shipping/Tracking No: I day Job/SDG No: 1-DCE 8260B rans-1,2-DCE Matrix Containers & Preservatives TCE 8260B Sample Specific Notes / HNO3 NaOH ū Special Instructions: Sample Identification Sample Date | Sample Time TRIP BLANK_ 137 G X X X X X X 1 Trip Blank NG MW-16/5_050523 6 6 X 3 VOAs for 8260B 5-5-23 0940 X X 3 VOAs for 8260B SIM 240-185007 Chain of Custody Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Non-Hazard Flammable Skin Irritant Poison B Unknown Disposal By Lab Return to Client Special Instructions/QC Requirements & Comments: Sample Address: BEALON 34851 Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested. Relinquished by ompany: 1375 NOVI COLD STORAGE 5.5.23 5-5-23 1345 Relinquished by Date/Time 050 Relinquished-Date/Time!

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Eurofins Cleveland

180 S. Van Buren Avenue

Barberton, OH 44203 Phone: 330-497-9396 Fax: 330-497-0772

Chain of Custody Record



eurofins

Environment Testing

Client Information (Sub Contract Lab)	Sampler: Lab PM: DelMonico, Mich				Micha				Carrier Tracking No(s):				COC No: 240-167888.1							
Client Contact: Shipping/Receiving	Phone:				-Mail: ⁄ichael	.Dell	Monic	co@e	t.eurof	finsus	.com		tate of 0					Page: Page 1 of 1		
Company: Eurofins Environment Testing Northeast,	<u> </u>					-			d (See									Job #:		
Address: 777 New Durham Road,	Due Date Requesto	ed:			+					\ I-	:		Requested					240-185007-1 Preservation Cod		
City:	5/22/2023 TAT Requested (da	ays):			80	08		T		Maiy	SIS	≺equ	este	3		T	833	A - HCL B - NaOH	M - Hexane N - None	
Edison State, Zip:	-																	C - Zn Acetate D - Nitric Acid	O - AsNaO2 P - Na2O4S	
NJ, 08817 Phone:	PO #:																	E - NaHSO4 F - MeOH	Q - Na2SO3 R - Na2S2O3	
732-549-3900(Tel) 732-549-3679(Fax)					9		List)											G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecal	hydrate
Email:	WO #:				5	or No)											20	I - Ice J - DI Water	U - Acetone V - MCAA	
Project Name: Ford LTP - Off Site	Project #: 24015353				<u>۽</u>	8 or	Cs (S										tainer	K - EDTA L - EDA	W - pH 4-5 Y - Trizma	
Site:	SSOW#:				-	ISD (Ye	0) (0										8	Other:	Z - other (specify	1)
				matrix	d Sa	MISI	NO N	9300									er of			
			Sample Type	(W=wate S=solid,	3	m MS	8260D/5030C (MOD) VOCs (Short	SIM/5030C									Total Number			
Sample Identification Client ID (I at ID)		Sample	(C=comp,	O=waste/c BT=Tissu		Perform	/Q093	8260D									tal			
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) Preservat	A=Air)	e: X	칅	82	8							00000		5	Special Ins	structions/No	te:
TRIP BLANK_137 (240-185007-1)	5/5/23	Eastern		Wate			x	200	000		20000		200		0.000					
MW-161S_050523 (240-185007-2)	5/5/23	09:40		Water	-H	Н	-	x	+	+	\vdash	+	+		\vdash	+	6			
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Note: Since laboratory accreditations are subject to change, Eurofins Environmen	nt Testing North Cent	ral, LLC places	s the ownership	of method	i, analyte	& ac	credita	ation co	mplianc	e upon	our su	bcontra	ct labo	atories	. This s	ample s	hipme	nt is forwarded under o	chain-of-custody.	If the
laboratory does not currently maintain accreditation in the State of Origin listed at accreditation status should be brought to Eurofins Environment Testing North Ce	ntral, LLC attention in	nmediately. If	analyzed, the sa all requested ad	emples mu creditation	ist be sh ns are cu	ipped irrent	to date	o the E e, return	urofins the sig	Enviro gned C	nment ` hain of	Testing Custoo	North (y attest	entral, ng to s	LLC lab aid com	oratory o pliance t	or othe to Euro	er instructions will be pa ofins Environment Test	rovided. Any char ting North Central	nges to I, LLC.
Possible Hazard Identification						San	nple L	Dispo	sal (A	A fee	may l	e as	esse	l if sa	mples	are r	etain	ed longer than 1	month)	
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							ciai ir	istruc	tions/0	UC R	equire	ment								
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Custody Seals Intact: Custody Seal No.:	Date/Time:		C	Company		1	Receiv	ed by:							Date/Ti	me:			Company	
Custody Seals Intact: Custody Seal No.:	2						Cooler	Tempe	rature(s	s) °C ar	nd Othe	er Rema	irks:		11/	11	C	27/2	2000	700
Δ Yes Δ No														(-)	7/1	-7	1	2.7/2,	T L 4	127















Client Sample Results

Client: ARCADIS US Inc Job ID: 240-185007-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_137

Lab Sample ID: 240-185007-1 Date Collected: 05/05/23 00:00

Matrix: Water

Date Received: 05/09/23 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/16/23 00:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/16/23 00:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/16/23 00:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/16/23 00:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/16/23 00:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/16/23 00:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			70 - 128			-		05/16/23 00:32	1
Dibromofluoromethane (Surr)	115		77 - 124					05/16/23 00:32	1
Toluene-d8 (Surr)	108		80 - 120					05/16/23 00:32	1
4-Bromofluorobenzene	101		76 - 120					05/16/23 00:32	1

Client Sample Results

Client: ARCADIS US Inc Job ID: 240-185007-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-161S_050523

Date Collected: 05/05/23 09:40 Date Received: 05/09/23 10:30 Lab Sample ID: 240-185007-2

Matrix: Water

Method: SW846 8260D SIM	- Volatile Organic C	ompounds	(GC/MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/18/23 11:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene	95		75 - 133			_		05/18/23 11:04	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			05/16/23 02:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/16/23 02:59	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/16/23 02:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/16/23 02:59	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/16/23 02:59	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/16/23 02:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	123		70 - 128			-		05/16/23 02:59	1
Dibromofluoromethane (Surr)	123		77 - 124					05/16/23 02:59	1
Toluene-d8 (Surr)	110		80 - 120					05/16/23 02:59	1
4-Bromofluorobenzene	102		76 - 120					05/16/23 02:59	1