PREPARED FOR

Attn: Kristoffer Hinskey ARCADIS U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 3/3/2023 5:02:53 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-180967-1

Eurofins Canton 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Canton

Job Notes

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. This report is confidential and is intended for the sole use of Eurofins Environment Testing North Central, LLC and its client. All questions regarding this report should be directed to the Eurofins Environment Testing North Central, LLC Project Manager who has signed this report.

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Authorization

Generated 3/3/2023 5:02:53 AM

Authorized for release by Michael DelMonico, Project Manager I Michael.DelMonico@et.eurofinsus.com (330)497-9396 3

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Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-180967-1

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Method Summary	6
Sample Summary	7
Detection Summary	8
Client Sample Results	9
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	15
Lab Chronicle	16
Certification Summary	17
Chain of Custody	18

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 240-180967-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

CNF

-	Abbreviation	These commonly used abbreviations may or may not be present in this report.
1	1	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

DER Duplicate Error Ratio (normalized absolute difference)

Contains No Free Liquid

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

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 **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

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Page 4 of 20

Case Narrative

Client: ARCADIS U.S., Inc.

Job ID: 240-180967-1

Project/Site: Ford LTP - Off Site

Job ID: 240-180967-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-180967-1

Receipt

The samples were received on 2/25/2023~8:00 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 0.4° C and 0.6° 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 U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-180967-1

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: ARCADIS U.S., Inc.

Project/Site: Ford LTP - Off Site

Job ID: 240-180967-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-180967-1	TRIP BLANK_1	Water	02/23/23 00:00	02/25/23 08:00
240-180967-2	MW-161S_022323	Water	02/23/23 10:50	02/25/23 08:00

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Detection Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-180967-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_1 Lab Sample ID: 240-180967-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-180967-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_1

Lab Sample ID: 240-180967-1 Date Collected: 02/23/23 00:00

Matrix: Water

Date Received: 02/25/23 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			03/01/23 15:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/23 15:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 15:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/23 15:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 15:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/23 15:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		62 - 137			-		03/01/23 15:42	1
4-Bromofluorobenzene (Surr)	78		56 ₋ 136					03/01/23 15:42	1
Toluene-d8 (Surr)	86		78 - 122					03/01/23 15:42	1
Dibromofluoromethane (Surr)	87		73 - 120					03/01/23 15:42	1

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Page 9 of 20

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-180967-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-161S_022323

Lab Sample ID: 240-180967-2 Date Collected: 02/23/23 10:50

Matrix: Water

Method: SW846 8260D SIM - Volati	le 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			03/01/23 18:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		66 - 120					03/01/23 18:05	1
— Method: SW846 8260D - Volatile Or	ganic Comp	ounds by G	SC/MS						
Analyto	Pocult	Qualifier	DI	MDI	Unit	n	Propared	Analyzod	Dil Fac

- 1,2 Dictrioroctriane a+ (Gan)	00		00-120					00/01/20 10:00	,
Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/01/23 18:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/23 18:11	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 18:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/23 18:11	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 18:11	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/23 18:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1.2-Dichloroethane-d4 (Surr)	<u></u>		62 - 137			_		03/01/23 18:11	

Surrogate	%Recovery	Qualifier Limi	S	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84	62 - 1			03/01/23 18:11	1
4-Bromofluorobenzene (Surr)	80	56 - 1	36		03/01/23 18:11	1
Toluene-d8 (Surr)	86	78 - 1	22		03/01/23 18:11	1
Dibromofluoromethane (Surr)	85	73 - 1	20		03/01/23 18:11	1

Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-180967-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

				Percent Sui	rogate Reco
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-180795-A-7 MS	Matrix Spike	87	84	89	89
240-180795-A-7 MSD	Matrix Spike Duplicate	84	84	87	88
240-180967-1	TRIP BLANK_1	85	78	86	87
240-180967-2	MW-161S_022323	84	80	86	85
LCS 240-563877/5	Lab Control Sample	81	81	84	88
MB 240-563877/8	Method Blank	85	80	85	87

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(66-120)	
240-180967-2	MW-161S_022323	86	
240-180977-E-2 MS	Matrix Spike	84	
240-180977-K-2 MSD	Matrix Spike Duplicate	83	
LCS 240-563886/4	Lab Control Sample	87	
MB 240-563886/6	Method Blank	95	
Surrogate Legend			

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

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Job ID: 240-180967-1

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

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

Lab Sample ID: MB 240-563877/8

Matrix: Water

1,1-Dichloroethene

Tetrachloroethene trans-1,2-Dichloroethene

Trichloroethene

Vinyl chloride

cis-1,2-Dichloroethene

Analyte

Analysis Batch: 563877

Client Sample ID: Method Blank Prep Type: Total/NA

03/01/23 13:37

MB MB Dil Fac Result Qualifier RLMDL Unit D Prepared Analyzed 1.0 U 1.0 0.49 ug/L 03/01/23 13:37 1.0 U 1.0 0.46 ug/L 03/01/23 13:37 1.0 U 1.0 0.44 ug/L 03/01/23 13:37 1.0 U 1.0 0.51 ug/L 03/01/23 13:37 1.0 U 1.0 0.44 ug/L 03/01/23 13:37

0.45 ug/L

1.0 U MB MB

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85	62 - 137		03/01/23 13:37	1
4-Bromofluorobenzene (Surr)	80	56 - 136		03/01/23 13:37	1
Toluene-d8 (Surr)	85	78 - 122		03/01/23 13:37	1
Dibromofluoromethane (Surr)	87	73 - 120		03/01/23 13:37	1

1.0

Lab Sample ID: LCS 240-563877/5

Matrix: Water

Analysis Batch: 563877

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	25.2		ug/L		101	63 - 134	
cis-1,2-Dichloroethene	25.0	25.4		ug/L		102	77 - 123	
Tetrachloroethene	25.0	25.8		ug/L		103	76 - 123	
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	75 - 124	
Trichloroethene	25.0	24.1		ug/L		96	70 - 122	
Vinyl chloride	12.5	12.2		ug/L		98	60 - 144	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	81		62 - 137
4-Bromofluorobenzene (Surr)	81		56 ₋ 136
Toluene-d8 (Surr)	84		78 - 122
Dibromofluoromethane (Surr)	88		73 - 120

Lab Sample ID: 240-180795-A-7 MS

Matrix: Water

Analysis Batch: 563877

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

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	40	U	1000	1020		ug/L		102	56 - 135
cis-1,2-Dichloroethene	1300		1000	2410		ug/L		108	66 - 128
Tetrachloroethene	40	U	1000	991		ug/L		99	62 - 131
trans-1,2-Dichloroethene	180		1000	1170		ug/L		100	56 - 136
Trichloroethene	380		1000	1370		ug/L		99	61 - 124
Vinyl chloride	40	U	500	465		ug/L		93	43 - 157

MS MS

Surrogate	%Recovery Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87	62 - 137
4-Bromofluorobenzene (Surr)	84	56 - 136
Toluene-d8 (Surr)	89	78 - 122

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Page 12 of 20

Client: ARCADIS U.S., Inc.

Job ID: 240-180967-1

Project/Site: Ford LTP - Off Site

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

Lab Sample ID: 240-180795-A-7 MS

Matrix: Water

Analysis Batch: 563877

Dibromofluoromethane (Surr)

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS Surrogate %Recovery Qualifier

89

Limits 73 - 120

Lab Sample ID: 240-180795-A-7 MSD

Matrix: Water

Analysis Batch: 563877

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	40	U	1000	1010		ug/L		101	56 - 135	2	26
cis-1,2-Dichloroethene	1300		1000	2400		ug/L		107	66 - 128	0	14
Tetrachloroethene	40	U	1000	1020		ug/L		102	62 - 131	3	20
trans-1,2-Dichloroethene	180		1000	1160		ug/L		98	56 - 136	1	15
Trichloroethene	380		1000	1350		ug/L		97	61 - 124	2	15
Vinyl chloride	40	U	500	474		ug/L		95	43 - 157	2	24

MSD MSD Qualifier Surrogate %Recovery Limits 1,2-Dichloroethane-d4 (Surr) 84 62 - 137 4-Bromofluorobenzene (Surr) 84 56 - 136 Toluene-d8 (Surr) 87 78 - 122 Dibromofluoromethane (Surr) 88 73 - 120

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

MR MR

95

Lab Sample ID: MB 240-563886/6

Matrix: Water

Analysis Batch: 563886

Client Sample ID: Method Blank Prep Type: Total/NA

03/01/23 13:13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/01/23 13:13	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

66 - 120

LCS LCS

9.85

Result Qualifier

Spike

Added

10.0

Lab Sample ID: LCS 240-563886/4

Matrix: Water

Analyte

1,4-Dioxane

Analysis Batch: 563886

1,2-Dichloroethane-d4 (Surr)

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

80 - 122

%Rec Unit %Rec Limits

98

LCS LCS %Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 87

Lab Sample ID: 240-180977-E-2 MS

Matrix: Water

Analysis Batch: 563886

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

ug/L

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit %Rec 1,4-Dioxane 2.0 U 10.0 10.3 ug/L 103 51 - 153

Eurofins Canton

QC Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-180967-1

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)	84		66 - 120

Lab Sample ID: 240-180977-K-2 MSD

Matrix: Water

Analysis Batch: 563886

1,2-Dichloroethane-d4 (Surr)

Surrogate

	Sample	Sample	Spike	MSD	MSD				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
1,4-Dioxane	2.0	U	10.0	10.2		ug/L		102	51 - 153	1
	MSD	MSD								

%Recovery Qualifier Limits 83

66 - 120

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

RPD Limit 16

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 240-180967-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 563877

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bato
240-180967-1	TRIP BLANK_1	Total/NA	Water	8260D	
240-180967-2	MW-161S_022323	Total/NA	Water	8260D	
MB 240-563877/8	Method Blank	Total/NA	Water	8260D	
LCS 240-563877/5	Lab Control Sample	Total/NA	Water	8260D	
240-180795-A-7 MS	Matrix Spike	Total/NA	Water	8260D	
240-180795-A-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Analysis Batch: 563886

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-180967-2	MW-161S_022323	Total/NA	Water	8260D SIM	
MB 240-563886/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-563886/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-180977-E-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-180977-K-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

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Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-180967-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_1

Lab Sample ID: 240-180967-1 Date Collected: 02/23/23 00:00

Matrix: Water

Date Received: 02/25/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	563877	SAM	EET CAN	03/01/23 15:42

Client Sample ID: MW-161S_022323 Lab Sample ID: 240-180967-2

Date Collected: 02/23/23 10:50 Matrix: Water

Date Received: 02/25/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	563877	SAM	EET CAN	03/01/23 18:11
Total/NA	Analysis	8260D SIM		1	563886	BAJ	EET CAN	03/01/23 18:05

Laboratory References:

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

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 240-180967-1

Project/Site: Ford LTP - Off Site

Laboratory: Eurofins Canton

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-27-23 *
Connecticut	State	PH-0590	12-31-23
Florida	NELAP	E87225	06-30-23
Georgia	State	4062	02-27-23 *
Illinois	NELAP	200004	07-31-23
lowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-27-23 *
Kentucky (WW)	State	KY98016	12-31-23
Michigan	State	9135	02-27-23 *
Minnesota	NELAP	039-999-348	12-31-23
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-23
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-27-23 *
Ohio VAP	State	CL0024	02-27-23 *
Oregon	NELAP	4062	02-28-24
Pennsylvania	NELAP	68-00340	08-31-23
Texas	NELAP	T104704517-22-17	08-31-23
Virginia	NELAP	460175	09-14-23
West Virginia DEP	State	210	12-31-23

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

TestAmerica		TestAmerica Laboratories, Inc.		for lab use only	Well in plant	Walk-In Clicit.		Job/SDG No:		Sample Specific Notes / Special Instructions:	1 Trip Blank	3 VOAs for 8260B				Date/Time: 2/24/23 800 2/24/23 103 2/24/23 103 Date/Time: 5-3-3-800
810-229-2763	Other	Lab Contact: Mike DelMonico	Telephone: 330-497-9396	Analyses			80	8560B E 8260B	DCI 0E 0E 0E 0E 0E 0E	Composite 1,1-DCE 8 cis-1,2-D0 Vinyl Chlc 1,4-Dioxa	× × × × × × × ×	7 7 7 7 7	240-180967 Chain of Custody	Sample Disposal (A fee may be assessed if samples are retained longer than I month). Return to Client Disposal By Lab Archive For Months		Stolage Company: Stolass Solder Company ETA
Chain of Custody Record 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763	- NPDES - RCRA -	Site Contact: Christina Weaver	Telephone: 248-994-2240	Analysis Turnaround Time	TAT William	10 day 2 weeks	1 week	_	Containers & Preservatives	Elitered S Other: Cables Cables Cable Cabl	Z	7		Sample Disposal (A fee may be assessed if sam		Received by: Cold de Received by: Cold de Received by: Brethedin Laboratory by:
Chair TestAmerica Laboratory location: Brighton — 10448 Citali	Regulatory program:	Client Project Manager: Kris Hinskey	Telephone: 248-994-2240	Email: kristoffer hinskev@arcadt.com	9	Sampler raine:	nt/Carrier:	Shipping/Tracking No:	Matrix	Sample Date Sample Time Air Sediment	2/23/23 1	2/23/13/1050		nt Poison B Unknown	.com. Cadena #E203631	Company Company Company ACH 37 Company ACH 37 Company Company ACH 37 Company C
MICHIGAN 190 Testa	Client Contact	Company Name: Areadis	Address: 28550 Cabot Drive, Suite 500	City/State/Zip: Novi, MI, 48377	Phone: 248-994-2240	Project Name: Ford LTP Off-Site	Project Number: 30167538,402.04	PO# 30167538,402.04		Sample Identification	TRIP BLANK_	m: 1-1/16 00 12 13		Possibk Hazard Identification Non-Hazard Flammable Skin Irritant	Special Instructions/QC Requirements & Comments: Sample Address: 3 439 51 BQC (QI) Submit all results through Cadena at itomalla@cadenaco.com. Cadena #E203631 Level IV Reporting requested.	Relinquished by Relinquished by Relinquished by

Eurofins - Canton Sample Receipt Form/Narrative Login #:
Barberton Facility
Client Arcadi Site Name Cooler unpacked by:
Cooler Received on 2-25-23 Opened on 2-27-23
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other
Receipt After-hours: Drop-off Date/Time Storage Location
Eurofins Cooler # Foam Box Client Cooler Box Other
Packing material used: Bubble Wrap Foam Plastic Bag None Other
COOLANT: Wet Ice Blue Ice Dry Ice Water None
1. Cooler temperature upon receipt See Multiple Cooler Form
IR GUN # IR-13 (CF -0.2 °C) Observed Cooler Temp. C Corrected Cooler Temp. °C
IR GUN # IR-16 (CF -0.1°C) Observed Cooler Temp. °C Corrected Cooler Temp. °C IR GUN # IR-17 (CF -0.3°C) Observed Cooler Temp. °C Corrected Gooler Temp. °C
and the state of t
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity Cach Yes No
-Were the seals on the outside of the cooler(s) signed & dated? Yes No NA checked for pH by
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No Receiving:
-Were tamper/custody seals intact and uncompromised? 3 Shippers' packing clin attached to the cooler(s)? Von NA
5. Simplets packing sith attached to the cooler(s)?
 4. Did custody papers accompany the sample(s)? 5. Were the custody papers relinquished & signed in the appropriate place? Yes No Yes No
5. Were the custody papers relinquished & signed in the appropriate place? (Yed No (Was/were the person(s) who collected the samples clearly identified on the COC? (Yed No
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 completype of grab/comp(Y/N)?
10. Were correct bottle(s) used for the test(s) indicated? (Yes) No
11. Sufficient quantity received to perform indicated analyses? Yes No.
12. Are these work share samples and all listed on the COC? Yes No
If yes, Questions 13-17 have been checked at the originating laboratory.
13. Were all preserved sample(s) at the correct pH upon receipt? **Yes No (NA) pH Strip Lot# HC203864
14. Were VOAs on the COC?
15. Were air bubbles >6 mm in any VOA vials? Larger than this. 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #
17. Was a LL Hg or Me Hg trip blank present? Yes (No)
Contacted PM by via Verbal Voice Mail Other
Concerning
Concerning
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
Sample protection
19. SAMPLE CONDITION
Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) were received with bubble >6 mm in diameter. (Notify PM)
20. SAMPLE PRESERVATION
Sample(a)
Sample(s) were further preserved in the laboratory. Time preserved: Preservetive(s) added/Lot number(s):
Sample(s) were further preserved in the laboratory. Time preserved: Preservative(s) added/Lot number(s):
VOA Sample Preservation - Date/Time VOAs Frozen:

		Eurofins - Canton	n Sample Receipt Mu	Itiple Cooler Form	
	scription	IR Gun#	Observed	Corrected	Coolant
(Cli	cie)	(Circle)	Temp °C	Temp °C	(Circle)
EO Client	Box Other	IR-13 IR-16 IR-17	0.6	0.4	Wellice Blue Ice Dylic Water None
EC Client	Box Other	IR-13 IR-16 IR-17	0,8	0.6	Wet Ice Blue Ice Dry Ic
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ic Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Sive Ice Dry ic Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wellice Blue Ice Dy Ic Water None
EC Client	Box Other	IR-13 IR-14 IR-17			Watice Blue Ice Dry Ice Water None
EC Client	Box Other	R-13 R-16 R-17			Wellice Blue Ice Dry Ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wellice Blue Ice Dry Ice Water None
EC Client	Box Other	R-13 R-16 R-17			Wel ice Blue ice Dry ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wellice Blue Ice Dry Ice Water None
EC Client	Box Other	R-13 R-16 R-17			Wet ice Sive ice Dry ice Water None
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Blue Ice Dry Ice Water None
EC Client	Box Other	R-13 R-16 R-17			Wel Ice Blue Ice Dry Ice
EC Client	Box Other	R-13 R-16 R-17			Wellce Blue Ice Dry Ice
EC Client	Box Other	R-13 R-16 R-17			Wet Ice Blue Ice Dry Ice
EC Client	Box Other	R-13 R-16 R-17			Wet ice Blue ice Dry ice
EC Client	Box Other	R-13 R-16 R-17			Wet ice Blue ice Dry ice
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice
EC Client	Box Other	R-13 R-16 R-17			Wet ice Blue ice Dry ice
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice
EC Client	Box Other	R-13 R-16 R-17			Wet ice Blue ice Dry ice
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Blue ice Dry ice
EC Client	Box Other	IR-13 IR-16 IR-17			Wet ice Sive ice Dry ice
EC Client	Box Other	R-13 R-16 R-17			Wet ice Blue ice Dry ice
FC Client	Box Other	R-13 R-16 R-17			Water Name Wet ice Stue ice Dry ice
EC Client	Box Other	R-13 R-16 R-17			Water None Wet Ice Blue Ice Dry Ice
EC Client	Box Other	R-13 IR-16 IR-17			Water None Wet Ice Sive Ice Dry Ice
EC Client	Box Other	W-13 W-16 W-17			Water None Wet ice Blue ice Dry ice
EC Clent	Box Other	IR-13 IR-16 IR-17			Water None Wet Ice Blue Ice Dry Ice
EC Clent	Box Other	IR-13 IR-16 IR-17			Water None Wet ice Stue ice Dry ice
EC Clent	Box Other	IR-13 IR-16 IR-17			Water None Wet Ice Stue Ice Dry Ice
EC Client	Box Other	IR-13 IR-16 IR-17			Water None Wet Ice Sive Ice Dry Ice
		IR-13 IR-16 IR-17			Water None Wet Ice Blue Ice Dry Ice
EC Client	Box Other	R-13 IR-16 IR-17			Water None Wettice Blue Ice Dry Ice
EC Client	Box Other				Water None erature Excursion Form

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

DATA VERIFICATION REPORT



March 07, 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: 30146655.402.04 off-site

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

Laboratory submittal: 180967-1 Sample date: 2023-02-23

Report received by CADENA: 2023-03-03

Initial Data Verification completed by CADENA: 2023-03-07

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.
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 - Barberton

Laboratory Submittal: 180967-1

		Sample Name:	TRIP BLA	ANK_1			MW-163	1S_0223	23	
		Lab Sample ID:	2401809	9671			2401809	9672		
		Sample Date:	2/23/20	23			2/23/20	23		
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260	<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-8260	<u>ODSIM</u>									
	1,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-180967-1

CADENA Verification Report: 2023-03-07

Analyses Performed By: Eurofins North Canton, Ohio

Report # 48952R Review Level: Tier III Project: 30167538.601.01

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-180967-1 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:

		Matrix Sample Collection Barant Sample			Ana	lysis
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM
TRIP BLANK_1	240-180967-1	Water	02/23/23		Х	
MW-161S_022323	240-180967-2	Water	02/23/23		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
Sample receipt condition		Х		Х	
2. Requested analyses and sample results		X		X	
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		rmance eptable	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		Х	
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:

DATE: March 15, 2023

PEER REVIEW: Andrew Korycinski

DATE: March 17, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN

Company Name: Arcadis

Phone: 248-994-2240

PO # 30167538.402.04

TRIP BLANK

Address: 28550 Cabot Drive, Suite 500

City/State/Zip: Novi, MI, 48377

Project Name: Ford LTP Off-Site

Project Number: 30167538.402.04



Chain of Custody Record TestAmerica Laboratory location: Brighton — 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 810-229-2763 Client Contact Regulatory program: - NPDES RCRA TestAmerica Laboratories, Inc. Client Project Manager: Kris Hinskey Site Contact: Christina Weaver Lab Contact: Mike DelMonico Telephone: 248-994-2240 Telephone: 248-994-2240 Telephone: 330-497-9396 COCs 1 of 1 Analysis Turnaround Time Analyses Email: kristoffer.hinskey@arcadis.com For lab use only Walk-in client Sampler Name: 3 weeks seth Turne ≥ 2 weeks Lab sampling 1 week 1,4-Dioxane 8260B SIM C/Grab=G mple (Y / N) 2 days Vinyl Chloride 8260B Shipping/Tracking No: ☐ I day Job/SDG No: Matrix **FCE 8260B** Sample Specific Notes / NaOH Special Instructions: Sample Identification Sample Date Sample Time NGX X 1 Trip Blank 3 VOAs for 8260B mw-1615-022323 2/23/23 1050 3 VOAs for 8260B SIM 240-180967 Chain of Custody

Possible Hazard Ident	fication				 Sample	Disposa	(A fee r	nay be a	e assessed if samples are retained longer than 1 month)
✓ Non-Hazard	Flammable	Skin Irritant	Poison B	Unknown	FF	Return to C	Client	P D	Disposal By Lab Archive For Months
occial Instructions/QC I		ments:							
	10								

Sample Address: 3 4 39 51 Blackon Submit all results through Cadena st jtomalia@cadenaco.com, Cadena #E203631

Level IV Reporting requested.

Relinquished by:	turen.
Relinquished by:	11A2
Relinquished by	011

Aradis	Date/Time:
ARCHOIS	Date/Time: 2/24/12

NOV I	cold	Storage	•
certod by	TA	ma de	-

Company:	
ALL	adis
Company:	MA
	F-110

Date/Time: 2/24/23 / 8	00
Date/Time:	10

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Page 397 of 399

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-180967-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_1

Lab Sample ID: 240-180967-1 Date Collected: 02/23/23 00:00 **Matrix: Water**

Date Received: 02/25/23 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			03/01/23 15:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/23 15:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 15:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/23 15:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 15:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/23 15:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		62 - 137					03/01/23 15:42	1
4-Bromofluorobenzene (Surr)	78		56 - 136					03/01/23 15:42	1
Toluene-d8 (Surr)	86		78 - 122					03/01/23 15:42	1
Dibromofluoromethane (Surr)	87		73 - 120					03/01/23 15:42	1

Client Sample ID: MW-161S_022323

Date Collected: 02/23/23 10:50

Date Received: 02/25/23 08:00

Method: SW846 8260D SIM -	Volatile Orga	anic Comp	ounds (GC/N	IS)					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/01/23 18:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		66 - 120					03/01/23 18:05	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/01/23 18:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/01/23 18:11	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 18:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/01/23 18:11	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/01/23 18:11	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/01/23 18:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1 2-Dichloroethane-d4 (Surr)	81		62 137					03/01/23 18:11	1

Surrogate	Minecovery Qualifier	Liiiilo	riepaieu	Allalyzeu	Dii i ac
1,2-Dichloroethane-d4 (Surr)	84	62 - 137		03/01/23 18:11	1
4-Bromofluorobenzene (Surr)	80	56 ₋ 136		03/01/23 18:11	1
Toluene-d8 (Surr)	86	78 - 122		03/01/23 18:11	1
Dibromofluoromethane (Surr)	85	73 - 120		03/01/23 18:11	1

Lab Sample ID: 240-180967-2

Matrix: Water