ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/29/2023 6:39:03 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-182078-1

Eurofins Canton 180 S. Van Buren Avenue Barberton OH 44203



Eurofins Canton

Job Notes

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Authorization

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

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Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-182078-1

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Definitions/Glossary

Client: ARCADIS U.S., Inc. Job ID: 240-182078-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

DL, RA, RE, IN

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)

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC 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 **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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Case Narrative

Client: ARCADIS U.S., Inc.

Job ID: 240-182078-1

Project/Site: Ford LTP - Off Site

Job ID: 240-182078-1

Laboratory: Eurofins Canton

Narrative

Job Narrative 240-182078-1

Receipt

The samples were received on 3/17/2023 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.6°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: 240-182078-1

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: 240-182078-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-182078-1	TRIP BLANK_113	Water	03/14/23 00:00	03/17/23 08:00
240-182078-2	MW-145S_031423	Water	03/14/23 14:58	03/17/23 08:00

Detection Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-182078-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_113 Lab Sample ID: 240-182078-1

No Detections.

No Detections.

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-182078-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_113

Lab Sample ID: 240-182078-1 Date Collected: 03/14/23 00:00

Matrix: Water

Date Received: 03/17/23 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			03/23/23 18:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/23/23 18:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/23/23 18:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/23/23 18:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/23/23 18:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/23/23 18:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137			_		03/23/23 18:32	1
4-Bromofluorobenzene (Surr)	88		56 ₋ 136					03/23/23 18:32	1
Toluene-d8 (Surr)	94		78 - 122					03/23/23 18:32	1
Dibromofluoromethane (Surr)	93		73 - 120					03/23/23 18:32	

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-182078-1

Project/Site: Ford LTP - Off Site

Date Received: 03/17/23 08:00

Client Sample ID: MW-145S_031423

Lab Sample ID: 240-182078-2 Date Collected: 03/14/23 14:58

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			03/20/23 13:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		66 - 120			-		03/20/23 13:49	1
- Method: SW846 8260D - Volati	ile Organic Comp	ounds by C	SC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/23/23 22:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/23/23 22:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/23/23 22:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/23/23 22:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/23/23 22:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/23/23 22:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137			-		03/23/23 22:43	1
4-Bromofluorobenzene (Surr)	88		56 ₋ 136					03/23/23 22:43	1
Toluene-d8 (Surr)	95		78 - 122					03/23/23 22:43	1
Dibromofluoromethane (Surr)	95		73 - 120					03/23/23 22:43	1

Surrogate Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-182078-1

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)
240-182078-1	TRIP BLANK_113	96	88	94	93
240-182078-2	MW-145S_031423	96	88	95	95
240-182089-E-2 MS	Matrix Spike	90	98	97	89
240-182089-F-2 MSD	Matrix Spike Duplicate	87	99	94	88
LCS 240-566543/4	Lab Control Sample	88	100	98	91
MB 240-566543/7	Method Blank	94	89	95	90

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)	
240-182078-2	MW-145S_031423	83	
240-182162-C-5 MSD	Matrix Spike Duplicate	95	
240-182162-F-5 MS	Matrix Spike	82	
LCS 240-566034/4	Lab Control Sample	86	
MB 240-566034/6	Method Blank	83	

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

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Job ID: 240-182078-1

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

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

Lab Sample ID: MB 240-566543/7

Matrix: Water

Analysis Batch: 566543

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/23/23 17:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/23/23 17:18	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/23/23 17:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/23/23 17:18	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/23/23 17:18	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/23/23 17:18	1

MB MB %Recovery Qualifier Dil Fac Surrogate Limits Prepared Analyzed 1,2-Dichloroethane-d4 (Surr) 62 - 137 03/23/23 17:18 94 4-Bromofluorobenzene (Surr) 89 56 - 136 03/23/23 17:18 95 Toluene-d8 (Surr) 78 - 122 03/23/23 17:18 Dibromofluoromethane (Surr) 90 73 - 120 03/23/23 17:18

Lab Sample ID: LCS 240-566543/4

Matrix: Water

Analysis Batch: 566543

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	24.8		ug/L		99	63 - 134	
cis-1,2-Dichloroethene	25.0	23.9		ug/L		96	77 - 123	
Tetrachloroethene	25.0	26.8		ug/L		107	76 - 123	
trans-1,2-Dichloroethene	25.0	23.8		ug/L		95	75 - 124	
Trichloroethene	25.0	24.3		ug/L		97	70 - 122	
Vinyl chloride	12.5	9.62		ug/L		77	60 - 144	

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 88 62 - 137 4-Bromofluorobenzene (Surr) 56 - 136 100 Toluene-d8 (Surr) 98 78 - 122 73 - 120 Dibromofluoromethane (Surr) 91

Lab Sample ID: 240-182089-E-2 MS

Matrix: Water

Analysis Batch: 566543

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

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	1.0	U	25.0	22.0		ug/L		88	56 - 135
cis-1,2-Dichloroethene	1.0	U	25.0	22.2		ug/L		89	66 - 128
Tetrachloroethene	1.0	U	25.0	22.9		ug/L		92	62 - 131
trans-1,2-Dichloroethene	1.0	U	25.0	21.9		ug/L		88	56 - 136
Trichloroethene	1.0	U	25.0	21.4		ug/L		86	61 - 124
Vinyl chloride	1.0	U	12.5	8.79		ug/L		70	43 - 157

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	90		62 - 137
4-Bromofluorobenzene (Surr)	98		56 - 136
Toluene-d8 (Surr)	97		78 - 122

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Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Job ID: 240-182078-1

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

Lab Sample ID: 240-182089-E-2 MS

Matrix: Water

Analysis Batch: 566543

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

MS MS

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 89 73 - 120

Lab Sample ID: 240-182089-F-2 MSD

Matrix: Water

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analysis Batch: 566543

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	1.0	U	25.0	22.4		ug/L		90	56 - 135	2	26
cis-1,2-Dichloroethene	1.0	U	25.0	22.1		ug/L		89	66 - 128	0	14
Tetrachloroethene	1.0	U	25.0	23.2		ug/L		93	62 - 131	1	20
trans-1,2-Dichloroethene	1.0	U	25.0	21.9		ug/L		88	56 - 136	0	15
Trichloroethene	1.0	U	25.0	22.3		ug/L		89	61 - 124	4	15
Vinyl chloride	1.0	U	12.5	9.02		ug/L		72	43 - 157	3	24

MSD MSD

MR MR

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		62 - 137
4-Bromofluorobenzene (Surr)	99		56 - 136
Toluene-d8 (Surr)	94		78 - 122
Dibromofluoromethane (Surr)	88		73 - 120

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

Lab Sample ID: MB 240-566034/6

Matrix: Water

Analysis Batch: 566034

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/20/23 13:24	1
	МВ	MB							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,2-Dichloroethane-d4 (Surr) 83 66 - 120 03/20/23 13:24

Lab Sample ID: LCS 240-566034/4

Matrix: Water			Prep Type: Total/NA
Analysis Batch: 566034			
	Snike	LCS LCS	%Rec

Analyte Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 10.0 11.9 ug/L 119 80 - 122

LCS LCS

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 66 - 120 86

Lab Sample ID: 240-182162-C-5 MSD

Matrix: Water

Analysis Batch: 566034

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	2.0	U	10.0	11.5		ug/L		115	51 - 153	3	16

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Prep Type: Total/NA

QC Sample Results

Client: ARCADIS U.S., Inc.

Job ID: 240-182078-1

Project/Site: Ford LTP - Off Site

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

			-							
	MSD	MSD								
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	95		66 - 120							
Lab Sample ID: 240-182162-I	F-5 MS							Client	Sample ID: Ma	atrix Spike
Matrix: Water									Prep Type	e: Total/NA
Analysis Batch: 566034										
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane	2.0	U	10.0	11.1	-	ug/L		111	51 - 153	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	82		66 - 120							

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QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 240-182078-1

Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 566034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-182078-2	MW-145S_031423	Total/NA	Water	8260D SIM	
MB 240-566034/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-566034/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-182162-C-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	
240-182162-F-5 MS	Matrix Spike	Total/NA	Water	8260D SIM	

Analysis Batch: 566543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-182078-1	TRIP BLANK_113	Total/NA	Water	8260D	 -
240-182078-2	MW-145S_031423	Total/NA	Water	8260D	
MB 240-566543/7	Method Blank	Total/NA	Water	8260D	
LCS 240-566543/4	Lab Control Sample	Total/NA	Water	8260D	
240-182089-E-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-182089-F-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-182078-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_113

Lab Sample ID: 240-182078-1 Date Collected: 03/14/23 00:00

Matrix: Water

Date Received: 03/17/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	566543	BAJ	EET CAN	03/23/23 18:32

Client Sample ID: MW-145S_031423 Lab Sample ID: 240-182078-2

Date Collected: 03/14/23 14:58 Matrix: Water

Date Received: 03/17/23 08:00

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	566543	BAJ	EET CAN	03/23/23 22:43
Total/NA	Analysis	8260D SIM		1	566034	BAJ	EET CAN	03/20/23 13:49

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: 240-182078-1 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	02-28-24
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	02-27-24
Ohio VAP	State	ORELAP 4062	02-27-24
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

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

Comparison Com	Client Contact	Regulatory program: DW	NPDES RCRA Other		
Name 1885 Code Driv. Set 1990 Prof. 199	Company Name: Areadis	Client Project Manager: Kris Hinskey	Site Contact: Christina Weaver	Lab Contact: Mike DelMonico	TestAmerica Laboratories, Inc.
Professionary Professional Activities Pr	Address: 28550 Cabot Drive, Suite 500	Telephone, 748, 994, 7340	Telenhone: 748-994-7740	Talanhona. 110 407.0106.	
The plant 1994 1996 19	City/State/Zip: Novi, MI, 48377	1 ereprise: 240-774-240	1 creption:	creprone: 3.50-47 /-9.570	
Project Name Part 17 Off State Part 17 O	Phone: 248-994-2240	E.mail: kristoffer.hinskey@arcadis.com	Anni pano ini na dagamay	Analyses	For lab use only
	Project Name: Ford LTP Off-Site	MAN SAGA	TAT if different from below 3 weeks		Walk-in client
Stands Main	Project Number: 30167538.402.04		I week	{	Simplifies con
Sample Specific Sample Spe	PO # 30167538.402.04	Shipping/Tracking No:	le (Y /	8560E 8560B	Job/SDG No:
Sample Specific Sample Specific Sample Specific Sample Specific Special Instruction Sample Specific Special Instruction Special Instructio		Matrix	Janes Janes	008 008 5-DCE	
1	Sample Identification	Sample Time Aqueous Sediment	HNO3 HOH Other: Other: Other:	cis-1,2-D Trans-1,2 PCE 826 Vinyl Chli	Sample Specific Notes / Special Instructions:
Sample Disposal A fee may be assessed if samples are resided longer than I month) Sample Disposal A fee may be assessed if samples are resided longer than I month) Sample Disposal A fee may be assessed if samples are resided longer than I month) Sample Disposal A fee may be assessed if samples are resided longer than I month) Sample Disposal A fee may be assessed if samples are resided longer than I month) Sample Disposal A fee may be assessed if samples are resided longer than I month) Sample Disposal A fee may be assessed if samples are resided longer than I month) Sample Disposal A fee may be assessed if samples are resided longer than I month) Sample Disposal A fee may be assessed if samples are resided longer than I month) Sample Disposal A fee may be assessed if samples are resided longer than I month) Sample Disposal A fee may be assessed if samples are resided longer than I month) Sample Disposal A fee may be assessed if samples are resided longer than I month) Sample Disposal A fee may be assessed if samples are resided longer than I month) Sample Disposal A fee may be assessed if samples are resided longer than I month) Sample Disposal A fee may be assessed if samples are resided longer than I month) Sample Disposal A fee may be assessed if samples are resided longer than I month) Sample Disposal A fee may be assessed if samples are resided longer than I month) Sample Disposal A fee may be assessed if samples are resided longer than I month) Sample Disposal A fee may be assessed if samples are resided longer than I month) Sample Disposal A fee may be assessed if samples are resided longer than I month) Sample Disposal A fee may be assessed if samples are resided longer than I month) Sample Disposal A fee may be assessed if samples are resided longer than I month) Sample Disposal A fee may be assessed if samples are resided longer than I month) Sample Disposal A fee may be assessed if samples are resided longer than I month) Sample Disposal A fee may be	TRIP BLANK_ (03		0 Z	× × ×	1 Trip Blank
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TestAmerica

Chain of Custody Record

Barberton Facility	ive	Login #:_	182078
Ninc. dis	te Name		Cooler unpacked by:
	pened on 3-17-	23	Mandaly
FedEx: 1st Grd Exp UPS FAS Clipper Clie		rofins Courier Oth	er
Receipt After-hours: Drop-off Date/Time		Storage Location_	
	nt Cooler Box		
Packing material used: Rubble Wrap Foam COOLANT: Wet Ice Blue Ice Dr	Plastic Bag y Ice Water	None Other	
1. Cooler temperature upon receipt IR GUN # IR-13 (CF -0.2 °C) Observed Cool IR GUN # IR-16 (CF -0.1 °C) Observed Cool IR GUN # IR-17 (CF -0.3 °C) Observed Cool	er Temp. 3. 5° er Temp. 6° er	See Multiple Cooler For C Corrected Cooler 1 C Corrected Cooler 1 C Corrected Cooler 1	Temp°C Temp°C
 Were tamper/custody seals on the outside of the color(s) s -Were the seals on the outside of the cooler(s) s -Were tamper/custody seals on the bottle(s) or b -Were tamper/custody seals intact and uncompr Shippers' packing slip attached to the cooler(s)? Did custody papers accompany the sample(s)? Were the custody papers relinquished & signed in Was/were the person(s) who collected the samples Did all bottles arrive in good condition (Unbroken Could all bottle labels (ID/Date/Time) be reconcile For each sample, does the COC specify preservati Were correct bottle(s) used for the test(s) indicated Sufficient quantity received to perform indicated a Are these work share samples and all listed on the If yes, Questions 13-17 have been checked at the Were all preserved sample(s) at the correct pH upon Were VOAs on the COC? Were air bubbles >6 mm in any VOA vials? Was a VOA trip blank present in the cooler(s)? To Was a LL Hg or Me Hg trip blank present? 	igned & dated? bottle kits (LLHg/Nomised? the appropriate place clearly identified by the control of the contr	MeHg)? Yes Yes Yes on the COC? Yes ntainers (YN), and sa Yes ory. Yes Yes Yes Yes Yes Yes Yes	No NA VOAs Oil and Grease TOC No No No
Contacted PM Date	by	via Verbal V	oice Mail Other
Concerning			
18. CHAIN OF CUSTODY & SAMPLE DISCREI	PANCIES Da	ditional next page	Samples processed by:
19. SAMPLE CONDITION			
Sample(s) were Sample(s)			in a broken container.
Sample(s)			
20. SAMPLE PRESERVATION			
Sample(s) Preservative(s) added		were furt	her preserved in the laboratory.
Time preserved:Preservative(s) added	Lot number(s):		
VOA Sample Preservation - Date/Time VOAs Frozen	ı:		

WI-NC-099

DATA VERIFICATION REPORT



March 29, 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 - Barberton

Laboratory submittal: 182078-1 Sample date: 2023-03-14

Report received by CADENA: 2023-03-29

Initial Data Verification completed by CADENA: 2023-03-29

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: 182078-1

		Sample Name: Lab Sample ID: Sample Date:		·				MW-145S_031423 2401820782 3/14/2023		
				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 # 240-182078-1

CADENA Verification Report: 2023-03-29

Analyses Performed By: Eurofins North Canton, Ohio

Report # 49184R Review Level: Tier III Project: 30167538.601.01

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-182078-1 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		Ana	lysis
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM
TRIP BLANK_113	240-182078-1	Water	03/14/23		Х	
MW-145S_031423	240-182078-2	Water	03/14/23		X	X

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted		mance ptable	Not
	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 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 eptable	Not
	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 30, 2023

PEER REVIEW: Andrew Korycinski

DATE: March 30, 2023

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

MICHIGAN

190
Chain of Custody Record

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

Client Contact	Regula	tory program:			DW		□ NP	DES		R	RA		Other											
Company Name: Arcadis	Client Project	Manager: Kris	Hinskey			5	ite Cor	ntact:	Chri	stina W	eaver		_	La	b Cont	act: M	ike De	lMonic	0			TestAmerica COC No:	Laborate	ories, In
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	994.2240	-			-	Felepho	me: 74	18.00	4-2240				- T.	lankos	e: 330	497.9	106	_	-				
City/State/Zip: Novi, MI, 48377			1			_				around	h (1970)		_		repnor	e. 330						1 of		OCs
Phone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.con	n		ŀ	Alu	iiysis i	ıurı	ar ound	Tine	1				Т	T	naly	es			For lab use on	<u>y</u>	-
Project Name: Ford LTP Off-Site	Sampler Name	X a	C .		\\io		TAT ir di	ifferent f		elow 3 weeks		-										Walk-in client		
Project Number: 30167538.402.04	Method of Ship	witha	Sto	anc	Jul	<u>// </u>	10 d	ay		2 weeks									_			Lab sampling		
		_				_			Į ^m	2 days		2	<u>a</u>	1,	8260B			88	SIN					
PO # 30167538.402.04	Shipping/Track	ting No:								1 day		pple (Y / N)	Crab	9760				Vinyl Chloride 8260B	1,4-Dioxane 8260B SIM			Job/SDG No:		
				Mati	rix		Co	ntainer	rs & l	reserva	tives	451	R260B	9 6	Trans-1 2-DCF	8	8	oride	ane 8					
			snoz	meat	-	ı	3 3		Ŧ	2 2	E .	e ed	Composit	oie to DOE	1	PCE 8260B	TCE 8260B	S P	Diox				Specific No	
Sample Identification	Sample Date	Sample Time	Air	Sediment	Solid Orber		HZSO4 HNO3	HC	NaOH	ZaAc NaOH Undres	Other		<u> </u>			20	ğ	, i	4.			Specia	Instruction	ons:
TRIP BLANK_ \D3			1					1				N	G >	< >	(X	X	X	X				1 Trip E	lank	
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				\sqcup	_	4	+	Ш			-	+	-		\perp	_	-				+			
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Non-Hazard Flammable Skin Irri	, -		Unknow		. 0	+				Client		Disposal				Archiv				nths				
Special Instructions/QC Requirements & Comments: Sample Address:	anst	12087	Sto	uk	K	d																		
Submit all results through Cadena at jtomailia@cadenac Level IV Reporting requested.	o.com, Cadena i	E203631																						
Relinquished by:	Company:	1 1	Dat	te/Time	:		1	2		ived by		-					Com	pany:	_			Date/Time: /		/
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Relinquished hy:	Company:	EXA	Dat	3/1	: 1	23			Rece	ivedin	aborat	ory My:	1/2	. 1	30	,	Com	pany:	m			Date/Time!	3	8:00
		1.1		-1	100	,					0-7	4/1/	7			_						10.76		J

Page 367 of 368

Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-182078-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_113

Lab Sample ID: 240-182078-1 Date Collected: 03/14/23 00:00 **Matrix: Water**

Date Received: 03/17/23 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			03/23/23 18:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/23/23 18:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/23/23 18:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/23/23 18:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/23/23 18:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/23/23 18:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137					03/23/23 18:32	1
4-Bromofluorobenzene (Surr)	88		56 - 136					03/23/23 18:32	1
Toluene-d8 (Surr)	94		78 - 122					03/23/23 18:32	1
Dibromofluoromethane (Surr)	93		73 - 120					03/23/23 18:32	1

Client Sample ID: MW-145S_031423

Date Collected: 03/14/23 14:58

Date Received: 03/17/23 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/20/23 13:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		66 - 120			-		03/20/23 13:49	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/23/23 22:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/23/23 22:43	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/23/23 22:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/23/23 22:43	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/23/23 22:43	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/23/23 22:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137		03/23/23 22:43	1
4-Bromofluorobenzene (Surr)	88		56 - 136		03/23/23 22:43	1
Toluene-d8 (Surr)	95		78 - 122		03/23/23 22:43	1
Dibromofluoromethane (Surr)	95		73 - 120		03/23/23 22:43	1

Lab Sample ID: 240-182078-2

Matrix: Water