PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Generated 11/27/2024 11:31:31 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-215222-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203

Eurofins Cleveland

Job Notes

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Authorization

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Client: Arcadis US Inc. Project/Site: Ford LTP

Laboratory Job ID: 240-215222-1

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Definitions/Glossary

Client: Arcadis US Inc. Job ID: 240-215222-1 Project/Site: Ford LTP

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

Listed under the "D" column to designate that the result is reported on a dry weight basis

Percent Recovery %R CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE) DL

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)

Estimated Detection Limit (Dioxin) EDL LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

EPA recommended "Maximum Contaminant Level" MCL 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)

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

Case Narrative

Client: Arcadis US Inc. Project: Ford LTP

Job ID: 240-215222-1 Eurofins Cleveland

Job Narrative 240-215222-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

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

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

Receipt

The samples were received on 11/19/2024 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 2 coolers at receipt time were 1.2°C and 2.7°C.

GC/MS VOA

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

Eurofins Cleveland

Job ID: 240-215222-1

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Method Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215222-1

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215222-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-215222-1	TRIP BLANK_143	Water	11/15/24 00:00	11/19/24 10:30
240-215222-2	MW-101S_111524	Water	11/15/24 09:15	11/19/24 10:30
240-215222-3	MW-75SR_111524	Water	11/15/24 10:43	11/19/24 10:30
240-215222-4	MW-75D_111524	Water	11/15/24 12:09	11/19/24 10:30
240-215222-5	MW-100S_111524	Water	11/15/24 13:08	11/19/24 10:30

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Detection Summary

Client: Arcadis US Inc. Job ID: 240-215222-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_143 Lab Sample ID: 240-215222-1

No Detections.

No Detections.

Client Sample ID: MW-75SR_111524 Lab Sample ID: 240-215222-3

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D M	Method Prep Type
Vinyl chloride	2.8	1.0	0.45 ug/L	1 8	260D Total/NA

Client Sample ID: MW-75D_111524 Lab Sample ID: 240-215222-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	3.0		2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	2.8		1.0	0.45	ug/L	1		8260D	Total/NA

No Detections.

This Detection Summary does not include radiochemical test results.

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Client: Arcadis US Inc. Job ID: 240-215222-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_143

Lab Sample ID: 240-215222-1 Date Collected: 11/15/24 00:00

Matrix: Water

Date Received: 11/19/24 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			11/23/24 13:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/23/24 13:16	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 13:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/24 13:16	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 13:16	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/23/24 13:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		62 - 137			-		11/23/24 13:16	1
4-Bromofluorobenzene (Surr)	81		56 ₋ 136					11/23/24 13:16	1
Toluene-d8 (Surr)	97		78 - 122					11/23/24 13:16	1
Dibromofluoromethane (Surr)	102		73 - 120					11/23/24 13:16	1

Client: Arcadis US Inc. Job ID: 240-215222-1

Project/Site: Ford LTP

Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr)

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Client Sample ID: MW-101S_111524

Date Collected: 11/15/24 09:15 Date Received: 11/19/24 10:30

Lab Sample ID: 240-215222-2

11/23/24 13:35

11/23/24 13:35

11/23/24 13:35

11/23/24 13:35

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			11/23/24 01:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		68 - 127			-		11/23/24 01:52	1
- Method: SW846 8260D - Volat	tile Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/23/24 13:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/23/24 13:35	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 13:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/24 13:35	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 13:35	1
				0.45				44/00/04 40:05	4
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/23/24 13:35	I

62 - 137

56 - 136

78 - 122

73 - 120

109

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Client: Arcadis US Inc. Job ID: 240-215222-1

Project/Site: Ford LTP

Client Sample ID: MW-75SR_111524

Lab Sample ID: 240-215222-3

Date Collected: 11/15/24 10:43 **Matrix: Water** Date Received: 11/19/24 10:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/23/24 02:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127			-		11/23/24 02:16	1
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/23/24 13:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/23/24 13:54	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 13:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/24 13:54	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 13:54	1
Vinyl chloride	2.8		1.0	0.45	ug/L			11/23/24 13:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		62 - 137			_		11/23/24 13:54	1
4-Bromofluorobenzene (Surr)	87		56 ₋ 136					11/23/24 13:54	1
Toluene-d8 (Surr)	101		78 - 122					11/23/24 13:54	1
Dibromofluoromethane (Surr)	107		73 - 120					11/23/24 13:54	1

Client: Arcadis US Inc. Job ID: 240-215222-1

Project/Site: Ford LTP

Toluene-d8 (Surr)

Dibromofluoromethane (Surr)

Date Received: 11/19/24 10:30

Client Sample ID: MW-75D_111524

Lab Sample ID: 240-215222-4 Date Collected: 11/15/24 12:09

Matrix: Water

11/23/24 14:13

11/23/24 14:13

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.0		2.0	0.86	ug/L			11/23/24 02:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 127			-		11/23/24 02:39	1
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			11/23/24 14:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/23/24 14:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 14:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/24 14:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 14:13	1
Vinyl chloride	2.8		1.0	0.45	ug/L			11/23/24 14:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)			62 - 137			-		11/23/24 14:13	1
4-Bromofluorobenzene (Surr)	85		56 ₋ 136					11/23/24 14:13	1

78 - 122

73 - 120

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Client: Arcadis US Inc. Job ID: 240-215222-1

Project/Site: Ford LTP

Client Sample ID: MW-100S_111524

Lab Sample ID: 240-215222-5 Date Collected: 11/15/24 13:08

Matrix: Water

Date	Received:	11/19/24	10:30

Method: SW846 8260D SIM - V	olatile 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			11/23/24 03:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		68 - 127					11/23/24 03:03	1
Method: SW846 8260D - Volati	le Organic Comp	ounds by G	C/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1 1-Dichloroethene		П	1.0	0.40	ua/l			11/23/24 14:32	

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/23/24 14:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/23/24 14:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 14:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/24 14:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 14:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/23/24 14:32	1

Surrogate	%Recovery Q	ualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117	62 - 137		11/23/24 14:32	1
4-Bromofluorobenzene (Surr)	81	56 ₋ 136		11/23/24 14:32	1
Toluene-d8 (Surr)	97	78 - 122		11/23/24 14:32	1
Dibromofluoromethane (Surr)	105	73 - 120		11/23/24 14:32	1

Surrogate Summary

Client: Arcadis US Inc. Job ID: 240-215222-1 Project/Site: Ford LTP

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

Matrix: Water Prep Type: Total/NA

				Percent Sui	rrogate Rec
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(62-137)	(56-136)	(78-122)	(73-120)
240-215122-A-7 MS	Matrix Spike	108	94	94	100
240-215122-A-7 MSD	Matrix Spike Duplicate	103	92	92	95
240-215222-1	TRIP BLANK_143	114	81	97	102
240-215222-2	MW-101S_111524	109	83	92	97
240-215222-3	MW-75SR_111524	120	87	101	107
240-215222-4	MW-75D_111524	118	85	99	105
240-215222-5	MW-100S_111524	117	81	97	105
LCS 240-636455/5	Lab Control Sample	108	101	106	104
MB 240-636455/10	Method Blank	110	85	98	99

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	(68-127)	
240-215222-2	MW-101S_111524	97	
240-215222-3	MW-75SR_111524	106	
240-215222-4	MW-75D_111524	104	
240-215222-5	MW-100S_111524	108	
240-215286-C-2 MS	Matrix Spike	95	
240-215286-C-2 MSD	Matrix Spike Duplicate	100	
LCS 240-636431/4	Lab Control Sample	100	
MB 240-636431/6	Method Blank	104	

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

Client: Arcadis US Inc. Job ID: 240-215222-1

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

Lab Sample ID: MB 240-636455/10

Matrix: Water

Project/Site: Ford LTP

Analysis Batch: 636455

Client	Sample	ID:	Method	Blank
	Dr	on '	Type: To	tal/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/23/24 12:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/23/24 12:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 12:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/24 12:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 12:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/23/24 12:57	1

		MB	MB				
	Surrogate	%Recovery	Qualifier	Limits	Prepare	ed Analyzed	Dil Fac
	1,2-Dichloroethane-d4 (Surr)	110		62 - 137		11/23/24 12:57	1
	4-Bromofluorobenzene (Surr)	85		56 - 136		11/23/24 12:57	1
	Toluene-d8 (Surr)	98		78 - 122		11/23/24 12:57	1
L	Dibromofluoromethane (Surr)	99		73 - 120		11/23/24 12:57	1

Lab Sample ID: LCS 240-636455/5

Matrix: Water

Analysis Batch: 636455

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	25.1		ug/L		100	63 - 134
cis-1,2-Dichloroethene	25.0	25.6		ug/L		102	77 - 123
Tetrachloroethene	25.0	28.5		ug/L		114	76 - 123
trans-1,2-Dichloroethene	25.0	25.3		ug/L		101	75 - 124
Trichloroethene	25.0	25.7		ug/L		103	70 - 122
Vinyl chloride	12.5	15.1		ug/L		121	60 - 144

	LCS LCS	
Surrogate	%Recovery Qual	ifier Limits
1,2-Dichloroethane-d4 (Surr)	108	62 _ 137
4-Bromofluorobenzene (Surr)	101	56 ₋ 136
Toluene-d8 (Surr)	106	78 - 122
Dibromoflyoromethane (Surr)	104	72 120

Lab Sample ID: 240-215122-A-7 MS

Matrix: Water

Analysis Batch: 636455

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	10	U	250	243		ug/L		97	56 - 135	
cis-1,2-Dichloroethene	130		250	384		ug/L		102	66 - 128	
Tetrachloroethene	63		250	311		ug/L		99	62 - 131	
trans-1,2-Dichloroethene	5.8	J	250	253		ug/L		99	56 - 136	
Trichloroethene	150		250	396		ug/L		97	61 - 124	
Vinyl chloride	10	U	125	155		ug/L		124	43 - 157	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		62 - 137
4-Bromofluorobenzene (Surr)	94		56 - 136
Toluene-d8 (Surr)	94		78 - 122

Eurofins Cleveland

Job ID: 240-215222-1

Client: Arcadis US Inc. Project/Site: Ford LTP

Lab Sample ID: 240-215122-A-7 MS

Matrix: Water

Analysis Batch: 636455

Client Sample ID: Matrix Spike

Prep Type: Total/NA

MS MS

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

Surrogate %Recovery Qualifier Limits Dibromofluoromethane (Surr) 100 73 - 120

Lab Sample ID: 240-215122-A-7 MSD

Matrix: Water

Analysis Batch: 636455

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	10	U	250	240		ug/L		96	56 - 135	1	26
cis-1,2-Dichloroethene	130		250	377		ug/L		99	66 - 128	2	14
Tetrachloroethene	63		250	304		ug/L		96	62 - 131	3	20
trans-1,2-Dichloroethene	5.8	J	250	252		ug/L		99	56 - 136	0	15
Trichloroethene	150		250	396		ug/L		97	61 - 124	0	15
Vinyl chloride	10	U	125	157		ug/L		126	43 - 157	1	24

MSD MSD

MR MR

104

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		62 - 137
4-Bromofluorobenzene (Surr)	92		56 - 136
Toluene-d8 (Surr)	92		78 - 122
Dibromofluoromethane (Surr)	95		73 - 120

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

Lab Sample ID: MB 240-636431/6

Matrix: Water

Analysis Batch: 636431

Client Sample ID: Method Blank

11/23/24 00:18

Prep Type: Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/23/24 00:18	1
	МВ	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

68 - 127

Lab Sample ID: LCS 240-636431/4

Matrix: Water

Analysis Batch: 636431

1,2-Dichloroethane-d4 (Surr)

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

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 10.0 8.13 ug/L 81

LCS LCS

%Recovery Qualifier Surrogate Limits 1,2-Dichloroethane-d4 (Surr) 68 - 127 100

Lab Sample ID: 240-215286-C-2 MS

Matrix: Water

Analysis Batch: 636431

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analysis Baton: 500401	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,4-Dioxane	2.0	U	10.0	10.1		ua/L		101	20 - 180

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QC Sample Results

Client: Arcadis US Inc. Job ID: 240-215222-1

Project/Site: Ford LTP

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

%Recovery

100

1,4-Dioxane

Surrogate

1,2-Dichloroethane-d4 (Surr)

	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1,2-Dichloroethane-d4 (Surr)	95		68 - 127									
– Lab Sample ID: 240-215286	-C-2 MSD						Clien	t Sa	mple ID	: Matrix S	pike Dup	olicate
Matrix: Water										Prep	Type: To	tal/NA
Analysis Batch: 636431												
	Sample	Sample	Spike	MSD	MSD					%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit

68 - 127

2.0 U 9.77 10.0 ug/L 20 - 180 MSD MSD Qualifier Limits

QC Association Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215222-1

GC/MS VOA

Analysis Batch: 636431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-215222-2	MW-101S_111524	Total/NA	Water	8260D SIM	
240-215222-3	MW-75SR_111524	Total/NA	Water	8260D SIM	
240-215222-4	MW-75D_111524	Total/NA	Water	8260D SIM	
240-215222-5	MW-100S_111524	Total/NA	Water	8260D SIM	
MB 240-636431/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-636431/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-215286-C-2 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-215286-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Analysis Batch: 636455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-215222-1	TRIP BLANK_143	Total/NA	Water	8260D	
240-215222-2	MW-101S_111524	Total/NA	Water	8260D	
240-215222-3	MW-75SR_111524	Total/NA	Water	8260D	
240-215222-4	MW-75D_111524	Total/NA	Water	8260D	
240-215222-5	MW-100S_111524	Total/NA	Water	8260D	
MB 240-636455/10	Method Blank	Total/NA	Water	8260D	
LCS 240-636455/5	Lab Control Sample	Total/NA	Water	8260D	
240-215122-A-7 MS	Matrix Spike	Total/NA	Water	8260D	
240-215122-A-7 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

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Job ID: 240-215222-1

Client: Arcadis US Inc. Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_143

Lab Sample ID: 240-215222-1 Date Collected: 11/15/24 00:00

Matrix: Water

Date Received: 11/19/24 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	636455	MS	EET CLE	11/23/24 13:16

Lab Sample ID: 240-215222-2 Client Sample ID: MW-101S_111524

Date Collected: 11/15/24 09:15 **Matrix: Water**

Date Received: 11/19/24 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	636455	MS	EET CLE	11/23/24 13:35
Total/NA	Analysis	8260D SIM		1	636431	R5XG	EET CLE	11/23/24 01:52

Client Sample ID: MW-75SR_111524 Lab Sample ID: 240-215222-3

Date Collected: 11/15/24 10:43 **Matrix: Water**

Date Received: 11/19/24 10:30

Batch Batch Dilution Batch Prepared Factor Prep Type Туре Method Run Number Analyst or Analyzed Lab 11/23/24 13:54 8260D Total/NA Analysis 636455 MS EET CLE 11/23/24 02:16 Total/NA Analysis 8260D SIM 636431 R5XG EET CLE 1

Client Sample ID: MW-75D_111524 Lab Sample ID: 240-215222-4

Date Collected: 11/15/24 12:09 **Matrix: Water**

Date Received: 11/19/24 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	636455	MS	EET CLE	11/23/24 14:13
Total/NA	Analysis	8260D SIM		1	636431	R5XG	EET CLE	11/23/24 02:39

Client Sample ID: MW-100S_111524 Lab Sample ID: 240-215222-5

Date Collected: 11/15/24 13:08 **Matrix: Water**

Date Received: 11/19/24 10:30

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	636455	MS	EET CLE	11/23/24 14:32
Total/NA	Analysis	8260D SIM		1	636431	R5XG	EET CLE	11/23/24 03:03

Laboratory References:

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

Eurofins Cleveland

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Accreditation/Certification Summary

Client: Arcadis US Inc.

Project/Site: Ford LTP

Job ID: 240-215222-1

Laboratory: Eurofins Cleveland

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

Authority	Program	Identification Number	Expiration Date
California	State	2927	02-28-25
Connecticut	State	PH-0806	12-31-26
Georgia	State	4062	02-27-25
Illinois	NELAP	200004	08-31-25
owa	State	421	06-01-25
Kentucky (UST)	State	112225	02-27-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Hampshire	NELAP	225024	09-30-25
New Jersey	NELAP	OH001	07-03-25
New York	NELAP	10975	04-02-25
Ohio VAP	State	ORELAP 4062	02-27-25
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-25
Texas	NELAP	T104704517-22-19	08-31-25
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-25
West Virginia DEP	State	210	12-31-24



Chain of Custody Record

TestAmerica

Client Contact	Regulat	ory program:		□ DW	Г	NPDES	5	R	CRA	-	Othe	r										
Company Name: Arcadis																						TestAmerica Laboratories
ddress: 28550 Cabot Drive, Suite 500	Client Project !	Manager: Kris	Hinskey	′	Sit	e Contac	t: Chri	istina ^v	Veaver				Lab Co	ntact	: Mike	DelN	Ionic)				COC No:
udress: 28550 Cabbt Drive, Suite 500	Telephone: 248	-994-2240	-		Te	lephone:	248-99	4-2240)	_		\neg	Teleph	one: 3	30-497	-939	5					
City/State/Zip: Novi, M1, 48377						Analysis Turnaround Time					Analyses								1 of 1 COCs			
hone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.co	m	-	Analysi	s Iurn	around	1 ime	-		_		Т		An	alys	es			Т	For lab use only
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Sample Identification	Sample Date	Sample Time	Air	Sediment Solid	H2S04	HN03	O.	ZaAci NeOH	Other:	Filtered Sample (Y/N)	Composite=C/Grab=G	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM				Special Instructions:
	Omnipie Date	oumpre Time		8 8 6	_		-	2 2 .					-		-	=		=	_		+-	
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Non-Hazard l'ammable cin Ir	ritant	on B	Jnkno	wn			turn to			Dispos			Г		chive F				nths			
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VOA Sample Preservation - Date/Time VOAs Frozen.
I ime preservedrieservative(s) added/Lot number(s).
20. SAMPLE PRESERVATION
Sample(s) were received with bubble >6 mm in diameter (Notify PM)
Sample(s) were received in a broken container
PLE CONDITION
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES
Concerning
Contacted PM Date by via Verbal Voice Mail Other
' မှ
Were air bubbles 56 mm m any VOA vials?
_
12 Are these work share samples and all listed on the COC? If wes, Oneshons 13-17 have been checked at the originating laboratory
11 Sufficient quantity received to perform indicated analyses?
s (MN), # of containers (MN), a
7 Did all bottles arrive in good condition (Unbroken)? 8 Could all bottle labels (ID/Date/Time) be reconciled with the COC? (Yes) No
were the custody papers reimquished & signed in the appropriate place? Was/were the person(s) who collected the samples clearly identified on the COC? Cs No
Did custody papers accompany the sample(s)?
3 Shippers' packing slip attached to the cooler(s)?
(LLHgMeHg)? Yes (6)
s Quantity C Y No
101 °C) Observed Cooler
1 Cooler temperature upon receipt See Multiple Cooler Form
ed: Qubble Wrap Foam Plastic Bag None
Eurofins Cooler # EC Foam Box Client Cooler Box Other
aypoint Chent Drop Off E
Cooler Received on 11 Kg 24 Opened on 11 Kg 24
Client ATTAIR Site Name Cooler unpacked by:
Barberfon: Pacifity Logo Receipt FormAvariative Logo # -

Page 22 of 24

	 Eurofins ∹Clevelar	nd Sample Receipt M	lutiple Cooler Form	
r Description	IR Gun#	Observed	Corrected	Coolant
(Circle)	(Circle)	Temp °C	Temp °C	(Circle)
ent box Other	IR GUN #: / >	11	1,2	Welice Blue Ice Dry Ice
\$20000 P. C.		1/1		Waler None
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See Temperature Excursion Form	☐ See Tem	ANALYSIS OF THE PROPERTY OF TH				
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	ultiple Gooler Form ⇒	Eurofins = Cleveland Sample Receipt Multiple Cooler Form	≡Eurofins ≓Clevelan			

Login Container Summary Report

Logii	n Container Summary Repo	ă	240-215222	
		de skyt skyllelje met forten		11/27/2
<u>Lab ID</u>	Container Type	Container pH Temp	Preservation Preservation Added Lot Number	•
240-215222-A-1	Voa Vial 40ml - Hydrochloric Acid			
240-215222-A-2	Voa Vial 40ml - Hydrochloric Acid			
240-215222-B-2	Voa Vial 40ml - Hydrochloric Acid			
240-215222-C-2	Voa Vial 40ml - Hydrochloric Acid			
240-215222-D-2	Voa Vial 40ml - Hydrochloric Acid			÷
240-215222-E-2	Voa Vial 40ml - Hydrochloric Acıd			
240-215222-G-2	Voa Vial 40ml - Hydrochloric Acid	***************************************		
240-215222-A-3	Voa Vial 40ml - Hydrochloric Acid			
240-215222-B-3	Voa Vial 40ml - Hydrochloric Acid	- Advantage - Adva		
240-215222-C-3	Voa Vial 40ml - Hydrochloric Acid		M-th-thetalenth and a second	
240-215222-D-3	Voa Vial 40ml - Hydrochloric Acid	**************************************		
240-215222-E-3	Voa Vial 40ml - Hydrochloric Acid			
240-215222-F-3	Voa Vial 40ml - Hydrochloric Acid	Attended of the second of the		
240-215222-A-4	Voa Vial 40ml - Hydrochloric Acid			
240-215222-B-4	Voa Vıal 40ml - Hydrochloric Acid			24
240-215222-C-4	Voa Vial 40ml - Hydrochloric Acid			4 of
240-215222-D-4	Voa Vıal 40ml - Hydrochloric Acid			ge 2
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240-215222-F-4	Voa Vial 40ml - Hydrochloric Acid			
240-215222-A-5	Voa Vial 40ml - Hydrochloric Acid			
240-215222-B-5	Voa Vial 40ml - Hydrochloric Acid			
240-215222-C-5	Voa Vial 40ml - Hydrochloric Acid	The state of the s		
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		S	Container Type Container Type Voa Vial 40ml - Hydrochloric Acid S222-A-1 Voa Vial 40ml - Hydrochloric Acid S222-C-2 Voa Vial 40ml - Hydrochloric Acid S222-C-2 Voa Vial 40ml - Hydrochloric Acid S222-C-2 Voa Vial 40ml - Hydrochloric Acid S222-C-3 Voa Vial 40ml - Hydrochloric Acid S222-C-4 Voa Vial 40ml - Hydrochloric Acid S222-B-4 Voa Vial 40ml - Hydrochloric Acid S222-C-4 Voa Vial 40ml - Hydrochloric Acid S222-C-4 Voa Vial 40ml - Hydrochloric Acid S222-C-5 Voa Vial 40ml - Hydrochloric Acid	Container Summary Report Container Container Container Container Ph.

DATA VERIFICATION REPORT



November 27, 2024

Megan Meckley Arcadis 28550 Cabot Drive Suite 500 Novi, MI US 48377

CADENA project ID: E203728

Project: Ford Livonia Transmission Plant - Soil Gas, Ground Water and Soil

Project number: 30206169.0401.04_WA-03

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

Laboratory submittal: 215222-1 Sample date: 2024-11-15

Report received by CADENA: 2024-11-27

Initial Data Verification completed by CADENA: 2024-11-27

Number of Samples:5 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: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland

Laboratory Submittal: 215222-1

		Sample Name: Lab Sample ID:	240215	2221	3		MW-103	2222	24		MW-758	2223	524		MW-75	2224	24		MW-100	2225	24	
		Sample Date:	11/15/2	Neport		Valid	11/15/2	Report		Valid	11/15/2	Report		Valid	11/15/2	Report		Valid	11/15/2	Neport		Valid
	Analyte	Cas No.		•	Units		Result	•			Result	•			Result	•				•		Qualifier
GC/MS VOC																						
OSW-8260	<u>0D</u>																					
	1,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		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		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Tetrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		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		ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l	
	Trichloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l		ND	1.0	ug/l		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		2.8	1.0	ug/l		2.8	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		ND	2.0	ug/l		3.0	2.0	ug/l		ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-215222-1

CADENA Verification Report: 2024-11-27

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 56845R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-215222-1 for samples collected in association with the Ford – Livonia, Michigan site. The review was conducted as a Tier III validation in addition to a verification/Tier II validation review performed by CADENA Inc. and included review of level IV laboratory data package completeness. Only elements of a Tier III validation effort (Tier III) include a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample	Parent Sample	Ana	alysis
Sample ID	Labib	Wallix	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_143	240-215222-1	Water	11/15/2024		Χ	
MW-101S_111524	240-215222-2	Water	11/15/2024		Х	X
MW-75SR_111524	240-215222-3	Water	11/15/2024		Х	X
MW-75D_111524	240-215222-4	Water	11/15/2024		Х	X
MW-100S_111524	240-215222-5	Water	11/15/2024		Х	Х

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Rep	orted	Perfor Accep	mance otable	Not Required
	No	Yes	No	Yes	Required
Sample receipt condition		Х		X	
2. Requested analyses and sample results		Х		X	
Master tracking list		Х		Х	
4. Methods of analysis		X		Х	
5. Reporting limits		X		Х	
6. Sample collection date		X		Х	
7. Laboratory sample received date		Х		Х	
8. Sample preservation verification (as applicable)		X		Х	
9. Sample preparation/extraction/analysis dates		Х		X	
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.

All identified compounds met the specified criteria.

7. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted		rmance ptable	Not Required
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		Х	
Tier III Validation			'	'	
System performance and column resolution		Х		Х	
Initial calibration %RSDs		Х		Х	
Continuing calibration RRFs		Х		Х	
Continuing calibration %Ds		Х		Х	
Instrument tune and performance check		Х		Х	
Ion abundance criteria for each instrument used		Х		Х	
Field Duplicate RPD	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		X		X	
E. Reporting limits adjusted to reflect sample dilutions		Х		Х	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Febin J S

SIGNATURE:

DATE: December 13, 2024

PEER REVIEW: Andrew Korycinski

DATE: December 18, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record



Client Contact	TestAmerica Labora												_							•						
Company Name: Arcadis	Regular	ory program:		□ D'	w	1	NPDES	•		RCRA		□ O	iner										Taut	America	Labora	toriar 1
	Client Project	Manager: Kris	Hinskey			Site	Contac	t: Chi	ristina	Weav	cr			Lab	Conta	ct: Mil	ke Del	Monic	:0					No:	Labora	tories, i
Address: 28550 Cabot Drive, Suite 500	Telephone: 248	-994-2240	-			Tele	phone:	248-9	94-22	40		-		Tele	hone	330-4	97-939	96					+			
City/State/Zip: Novi, MI, 48377														1	,	550-4								1 of		COCs
Phone: 248-994-2240	Email: kristoff	er.hinskey@ar	cadis.co	m			Analysi	s Tur	narou	nd Tim	-		-	т—	_	т-	A	nalys	es				For l	ab use only		Dillion.
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PO # US3410018772	Shipping/Track	ing No:				1			1 day			mple (Y/N)	٥	Z60D	E 8260D			8260D	8260D				Job/S	SDG No:		
				Matrix			Contai	ners &	Prese	rvatives	\neg	Samp	8260	OCE 8	2-DC	99	8	loride	ane 8							
Sample Identification	Sample Date	Sample Time	Air	Sediment	Other:	H2S04	HN03	NaOH	ZaAc) NeOH	Unpres		Filtered Sa	1,1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE	PCE 8260D	TCE 8260D	Vinyl Chloride	1,4-Dioxane					Sample S Special	Specific N Instruct	
TRIP BLANK_143			1				1					NG	X	X	х	Х	Х	Х					1	Trip B	lank	
MW-1015_111524	11/15/24	0915	(4	2			Ü	9				NG	2 X	X	K	X	X	X	X					VOAs fo		
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RC 11/15/24																					_	$oxed{oxed}$				
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Special Instructions/QC Requirements & Comments:	lden ROW																_									
Submit all results through Cadena at jtomalia@cadena Level IV Reporting requested.	aco.com. Cadena #E	203728																								
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Definitions/Glossary

Client: Arcadis US Inc.

Job ID: 240-215222-1

Project/Site: Ford LTP

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

Client: Arcadis US Inc. Job ID: 240-215222-1

Project/Site: Ford LTP

Client Sample ID: TRIP BLANK_143

Lab Sample ID: 240-215222-1 Date Collected: 11/15/24 00:00 **Matrix: Water**

Date Received: 11/19/24 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			11/23/24 13:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/23/24 13:16	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 13:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/24 13:16	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 13:16	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/23/24 13:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		62 - 137			_		11/23/24 13:16	1
4-Bromofluorobenzene (Surr)	81		56 ₋ 136					11/23/24 13:16	1
Toluene-d8 (Surr)	97		78 - 122					11/23/24 13:16	1
Dibromofluoromethane (Surr)	102		73 - 120					11/23/24 13:16	1

Client Sample ID: MW-101S_111524 Lab Sample ID: 240-215222-2

Date Collected: 11/15/24 09:15

Date Received: 11/19/24 10:30

Method: SW846 8260D SIM - V	•	•	•		11.5	_		A I I	D.1 E.
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/23/24 01:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		68 - 127			-		11/23/24 01:52	1
Method: SW846 8260D - Volati	ile Organic Comp	ounds by (GC/MS						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1.1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/23/24 13:35	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/23/24 13:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/23/24 13:35	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 13:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/24 13:35	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 13:35	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/23/24 13:35	1

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109	62 - 137		11/23/24 13:35	1
4-Bromofluorobenzene (Surr)	83	56 - 136		11/23/24 13:35	1
Toluene-d8 (Surr)	92	78 - 122		11/23/24 13:35	1
Dibromofluoromethane (Surr)	97	73 - 120		11/23/24 13:35	1

Client Sample ID: MW-75SR_111524 Lab Sample ID: 240-215222-3

Date Collected: 11/15/24 10:43 Date Received: 11/19/24 10:30

Date Necested: 11/15/24 10:00									
Method: SW846 8260D SIM - Vo	olatile 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			11/23/24 02:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		68 - 127			-		11/23/24 02:16	1

Matrix: Water

Matrix: Water

Client: Arcadis US Inc. Job ID: 240-215222-1

Project/Site: Ford LTP

Client Sample ID: MW-75SR_111524

Lab Sample ID: 240-215222-3 Date Collected: 11/15/24 10:43 **Matrix: Water**

Date Received: 11/19/24 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			11/23/24 13:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/23/24 13:54	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 13:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/24 13:54	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 13:54	1
Vinyl chloride	2.8		1.0	0.45	ug/L			11/23/24 13:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	120		62 - 137			_		11/23/24 13:54	1
4-Bromofluorobenzene (Surr)	87		56 ₋ 136					11/23/24 13:54	1
Toluene-d8 (Surr)	101		78 - 122					11/23/24 13:54	1
Dibromofluoromethane (Surr)	107		73 - 120					11/23/24 13:54	1

Client Sample ID: MW-75D_111524

Date Collected: 11/15/24 12:09

Date Received: 11/19/24 10:30

Method: SW846 8260D SIM - V	/olatile Organic C	ompounds	(GC/MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	3.0		2.0	0.86	ug/L			11/23/24 02:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 127			_		11/23/24 02:39	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/23/24 14:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/23/24 14:13	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 14:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/24 14:13	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 14:13	1
Vinyl chloride	2.8		1.0	0.45	ug/L			11/23/24 14:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118	_	62 - 137		11/23/24 14:13	1
4-Bromofluorobenzene (Surr)	85		56 - 136		11/23/24 14:13	1
Toluene-d8 (Surr)	99		78 - 122		11/23/24 14:13	1
Dibromofluoromethane (Surr)	105		73 - 120		11/23/24 14:13	1

Date Received: 11/19/24 10:30

Client Sample ID: MW-100S_111524	Lab Sample ID: 240-215222-5
Date Collected: 11/15/24 13:08	Matrix: Water
Data Pagaiyad: 11/19/24 10:20	

Method: SW846 8260D SIM - V	olatile 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			11/23/24 03:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		68 - 127			_		11/23/24 03:03	1

Lab Sample ID: 240-215222-4

Matrix: Water

Client: Arcadis US Inc.

Job ID: 240-215222-1

Project/Site: Ford LTP

Date Collected: 11/15/24 13:08 Matrix: Water

Date Received: 11/19/24 10:30

Method: SW846 8260D - Volati Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0		1.0		ug/L			11/23/24 14:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/23/24 14:32	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 14:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/23/24 14:32	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/23/24 14:32	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/23/24 14:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		62 - 137			-		11/23/24 14:32	1
4-Bromofluorobenzene (Surr)	81		56 - 136					11/23/24 14:32	1
Toluene-d8 (Surr)	97		78 - 122					11/23/24 14:32	1
Dibromofluoromethane (Surr)	105		73 - 120					11/23/24 14:32	1