

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Ms. Megan Meckley Arcadis US Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 11/25/2024 7:07:49 AM

JOB DESCRIPTION

Ford LTP

JOB NUMBER

240-215022-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





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Job Notes

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Authorization

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

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Qualifiers

Qualifiers		3
GC/MS VOA		
Qualifier	Qualifier Description	
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.	
U	Indicates the analyte was analyzed for but not detected.	5
Glossary		6
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	0
CFU	Colony Forming Unit	0
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	9
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"	13
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	

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
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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

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Job Narrative 240-215022-1

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 11/15/2024 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 1.1°C, 1.3°C, 1.4°C and 2.3°C.

GC/MS VOA

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

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

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

Sample Summary

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-215022-1	TRIP BLANK_119	Water	11/14/24 00:00	11/15/24 08:00
240-215022-2	MW-132S_111424	Water	11/14/24 10:40	11/15/24 08:00
240-215022-3	MW-131S_111424	Water	11/14/24 11:45	11/15/24 08:00
240-215022-4	MW-105S_111424	Water	11/14/24 12:40	11/15/24 08:00
240-215022-5	DUP-13	Water	11/14/24 00:00	11/15/24 08:00

Detection Summary

		Detec	tion Sum	mary						
Client: Arcadis US Inc. Project/Site: Ford LTP								Job	ID: 240-215022-1	2
Client Sample ID: TRIP BL	.ANK_119					Lab) Sa	mple ID:	240-215022-1	
No Detections.										
Client Sample ID: MW-132	S_111424					Lab) Sa	mple ID:	240-215022-2	
No Detections.								-		5
Client Sample ID: MW-131	S_111424					Lab	o Sa	mple ID:	240-215022-3	6
No Detections.										-7
Client Sample ID: MW-105	S_111424					Lab	o Sa	mple ID:	240-215022-4	7
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	DN	lethod	Prep Type	8
Vinyl chloride	0.47	J	1.0	0.45	ug/L	1	8	260D	Total/NA	Q
Client Sample ID: DUP-13						Lab) Sa	mple ID:	240-215022-5	
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	DN	lethod	Prep Type	
Vinyl chloride	0.50	J	1.0	0.45	ug/L	1	- 8	260D	Total/NA	
										1

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

Client Sample ID: TRIP BLANK_119 Date Collected: 11/14/24 00:00

Date Received: 11/15/24 08:00

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			11/21/24 11:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/24 11:26	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 11:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/24 11:26	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 11:26	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/21/24 11:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137			-		11/21/24 11:26	1
4-Bromofluorobenzene (Surr)	82		56 - 136					11/21/24 11:26	1
Toluene-d8 (Surr)	92		78 - 122					11/21/24 11:26	1
Dibromofluoromethane (Surr)	92		73 - 120					11/21/24 11:26	1

Matrix: Water

Lab Sample ID: 240-215022-1

Client Sample ID: MW-132S_111424

Date Collected: 11/14/24 10:40 Date Received: 11/15/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/20/24 04:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 127			-		11/20/24 04:51	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			11/21/24 13:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/24 13:57	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 13:57	1
rans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/24 13:57	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 13:57	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/21/24 13:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137			-		11/21/24 13:57	1
4-Bromofluorobenzene (Surr)	91		56 - 136					11/21/24 13:57	1
Toluene-d8 (Surr)	101		78 - 122					11/21/24 13:57	1
Dibromofluoromethane (Surr)	103		73 - 120					11/21/24 13:57	1

11/25/2024

Job ID: 240-215022-1

Lab Sample ID: 240-215022-2 Matrix: Water

Client Sample ID: MW-131S_111424

Date Collected: 11/14/24 11:45 Date Received: 11/15/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/20/24 05:15	1	÷.
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	107		68 - 127			-		11/20/24 05:15	1	
Method: SW846 8260D - Volati	ile Organic Comp	ounds by G	C/MS							ŝ
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/21/24 14:16	1	7
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/24 14:16	1	
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 14:16	1	
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/24 14:16	1	
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 14:16	1	
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/21/24 14:16	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	109		62 - 137			-		11/21/24 14:16	1	
4-Bromofluorobenzene (Surr)	92		56 _ 136					11/21/24 14:16	1	
Toluene-d8 (Surr)	102		78 - 122					11/21/24 14:16	1	
Dibromofluoromethane (Surr)	102		73 - 120					11/21/24 14:16	1	- 7

11/25/2024

Job ID: 240-215022-1

Lab Sample ID: 240-215022-3 Matrix: Water

Client Sample ID: MW-105S_111424

Date Collected: 11/14/24 12:40 Date Received: 11/15/24 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/20/24 05:38	1	17
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	104		68 - 127			-		11/20/24 05:38	1	
Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	C/MS							ŝ
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/21/24 14:35	1	17
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/24 14:35	1	
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 14:35	1	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/24 14:35	1	
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 14:35	1	
Vinyl chloride	0.47	J	1.0	0.45	ug/L			11/21/24 14:35	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,2-Dichloroethane-d4 (Surr)	105		62 - 137			-		11/21/24 14:35	1	
4-Bromofluorobenzene (Surr)	89		56 - 136					11/21/24 14:35	1	
Toluene-d8 (Surr)	96		78 - 122					11/21/24 14:35	1	
Dibromofluoromethane (Surr)	101		73 - 120					11/21/24 14:35	1	

Matrix: Water

Lab Sample ID: 240-215022-4

Job ID: 240-215022-1

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

Client Sample ID: DUP-13

Date Collected: 11/14/24 00:00 Date Received: 11/15/24 08:00

Job ID: 240-215022-

Lab Sample ID: 240-215022-5

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			11/20/24 06:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 127			-		11/20/24 06:02	1
Method: SW846 8260D - Volati	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			11/21/24 14:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/24 14:54	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 14:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/24 14:54	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 14:54	1
Vinyl chloride	0.50	J	1.0	0.45	ug/L			11/21/24 14:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137			-		11/21/24 14:54	1
4-Bromofluorobenzene (Surr)	88		56 - 136					11/21/24 14:54	1
Toluene-d8 (Surr)	97		78 - 122					11/21/24 14:54	1
Dibromofluoromethane (Surr)	103		73 - 120					11/21/24 14:54	1

Lab Sample ID 240-215022-1

240-215022-2

240-215022-3

240-215022-4

240-215022-5

240-215023-B-5 MS

240-215023-B-5 MSD

LCS 240-636146/5

MB 240-636146/10

Surrogate Legend

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

DUP-13

Prep Type: Total/NA Percent Surrogate Recovery (Acceptance Limits) DCA BFB TOL DBFM **Client Sample ID** (62-137) (56-136) (78-122) (73-120) TRIP BLANK_119 92 99 82 92 MW-132S_111424 108 91 101 103 MW-131S_111424 109 92 102 102 MW-105S_111424 89 96 101 105 108 88 97 103 Matrix Spike 106 92 97 102 Matrix Spike Duplicate 107 99 100 103 105 100 104 Lab Control Sample 104 Method Blank 109 96 104 102

BFB = 4-Bromofluorobenzene (Surr) TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

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

Matrix: Water

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-215022-2	MW-132S_111424	103	
240-215022-3	MW-131S_111424	107	
240-215022-4	MW-105S_111424	104	
240-215022-5	DUP-13	103	
240-215023-C-3 MS	Matrix Spike	108	
240-215023-C-3 MSD	Matrix Spike Duplicate	110	
LCS 240-635906/4	Lab Control Sample	106	
MB 240-635906/6	Method Blank	97	

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

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Job ID: 240-215022-1

9

Prep Type: Total/NA

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

	МВ	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/21/24 10:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/24 10:48	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 10:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/24 10:48	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 10:48	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/21/24 10:48	1

	MB	МВ					
Surrogate	%Recovery	Qualifier	Limits	P	repared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		62 - 137			11/21/24 10:48	1
4-Bromofluorobenzene (Surr)	96		56 - 136			11/21/24 10:48	1
Toluene-d8 (Surr)	104		78 - 122			11/21/24 10:48	1
Dibromofluoromethane (Surr)	102		73 - 120			11/21/24 10:48	1

Lab Sample ID: LCS 240-636146/5 Matrix: Water Analysis Batch: 636146

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	25.0	23.3		ug/L		93	63 - 134	
cis-1,2-Dichloroethene	25.0	23.7		ug/L		95	77 - 123	
Tetrachloroethene	25.0	24.3		ug/L		97	76 - 123	
trans-1,2-Dichloroethene	25.0	23.0		ug/L		92	75 - 124	
Trichloroethene	25.0	23.8		ug/L		95	70 _ 122	
Vinyl chloride	12.5	11.9		ug/L		95	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)			62 - 137
4-Bromofluorobenzene (Surr)	100		56 - 136
Toluene-d8 (Surr)	104		78 - 122
Dibromofluoromethane (Surr)	104		73 - 120

Lab Sample ID: 240-215023-B-5 MS Matrix: Water Analysis Batch: 636146

Toluene-d8 (Surr)

-	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1-Dichloroethene	200	U	5000	4510		ug/L		90	56 - 135
cis-1,2-Dichloroethene	6100		5000	10200		ug/L		82	66 - 128
Tetrachloroethene	200	U	5000	4450		ug/L		89	62 - 131
trans-1,2-Dichloroethene	850		5000	5380		ug/L		91	56 - 136
Trichloroethene	200	U	5000	4720		ug/L		94	61 - 124
Vinyl chloride	530		2500	2960		ug/L		97	43 - 157
	MS	MS							
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	106		62 - 137						
4-Bromofluorobenzene (Surr)	92		56 - 136						

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

Job ID: 240-215022-1

Prep Type: Total/NA

Client Sample ID: Method Blank

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Client Sample ID: Matrix Spike

Prep Type: Total/NA

78 - 122

Matrix: Water

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

10

12 13

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
Dibromofluoromethane (Surr)	102		73 - 120

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

Lab Sample ID: 240-215023-B-5 MSD Matrix: Water

Lab Sample ID: 240-215023-B-5 MS

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

Analysis Batch: 636146

Analysis Batch: 636146

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1-Dichloroethene	200	U	5000	4620		ug/L		92	56 - 135	3	26
cis-1,2-Dichloroethene	6100		5000	10300		ug/L		85	66 - 128	1	14
Tetrachloroethene	200	U	5000	4690		ug/L		94	62 - 131	5	20
trans-1,2-Dichloroethene	850		5000	5430		ug/L		92	56 - 136	1	15
Trichloroethene	200	U	5000	4750		ug/L		95	61 - 124	1	15
Vinyl chloride	530		2500	3010		ug/L		99	43 _ 157	2	24
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	107		62 - 137								
4-Bromofluorobenzene (Surr)	99		56 - 136								
Toluene-d8 (Surr)	100		78 - 122								
Dibromofluoromethane (Surr)	103		73 - 120								

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

Lab Sample ID: MB 240-635906/6											Sherit S	ample ID: Metho	
Matrix: Water												Prep Type: 1	Fotal/NA
Analysis Batch: 635906													
		MB											
Analyte	R		Qualifier	R		MDL			_ <u>D</u>	Pre	epared	Analyzed	Dil Fac
1,4-Dioxane		2.0	U	2.)	0.86	ug/L					11/19/24 23:23	1
		ΜВ	МВ										
Surrogate	%Reco	overy	Qualifier	Limits						Pre	epared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)		97		68 - 127	-							11/19/24 23:23	1
- Lab Sample ID: LCS 240-635906/4	L								Clie	nt S	Sample	ID: Lab Control	Sample
Matrix: Water	·								one		Jampie	Prep Type: 1	
Analysis Batch: 635906													
				Spike	LCS	LCS						%Rec	
Analyte				Added	Result	Quali	fier	Unit		C	%Rec	Limits	
1,4-Dioxane				10.0	9.19			ug/L			92	75 - 121	
	LCS	LCS											
Surrogate	%Recovery	Qua	ifier	Limits									
1,2-Dichloroethane-d4 (Surr)	106			68 - 127									
- Lab Sample ID: 240-215023-C-3 M	S										Client	Sample ID: Matri	ix Spike
-												Prep Type: 1	
Matrix: Water													
Analysis Batch: 635906												%Rec	
	Sample	Sam	ple	Spike	MS	MS						%Rec	
	Sample Result			Spike Added	MS Result		fier	Unit	[C	%Rec	%Rec Limits	

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Job ID: 240-215022-1

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

	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	108		68 - 127								
Lab Sample ID: 240-215023-	C-3 MSD					(Client Sa	ample IC): Matrix Sp	oike Dup	olicate
Matrix: Water										Type: To	
Analysis Batch: 635906											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane	1.7	J	10.0	11.1		ug/L		94	20 - 180	3	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
canogato											

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GC/MS VOA

Analysis Batch: 635906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-215022-2	MW-132S_111424	Total/NA	Water	8260D SIM	
240-215022-3	MW-131S_111424	Total/NA	Water	8260D SIM	
240-215022-4	MW-105S_111424	Total/NA	Water	8260D SIM	
240-215022-5	DUP-13	Total/NA	Water	8260D SIM	
MB 240-635906/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-635906/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-215023-C-3 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-215023-C-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-215022-1	TRIP BLANK_119	Total/NA	Water	8260D	
240-215022-2	MW-132S_111424	Total/NA	Water	8260D	
240-215022-3	MW-131S_111424	Total/NA	Water	8260D	
240-215022-4	MW-105S_111424	Total/NA	Water	8260D	
240-215022-5	DUP-13	Total/NA	Water	8260D	
MB 240-636146/10	Method Blank	Total/NA	Water	8260D	
LCS 240-636146/5	Lab Control Sample	Total/NA	Water	8260D	
240-215023-B-5 MS	Matrix Spike	Total/NA	Water	8260D	
240-215023-B-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Client Samp	le ID: TRIP E	BLANK_119						Lab Sample ID:	240-215022-
	: 11/14/24 00:0								Matrix: Wate
ate Received:	: 11/15/24 08:00)							
-	Batch	Batch		Dilution	Batch			Prepared	
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	8260D		1	636146	MS	EET CLE	11/21/24 11:26	
lient Samp	le ID: MW-13	32S_111424						Lab Sample ID:	240-215022-
Date Collected	: 11/14/24 10:4	0							Matrix: Wate
Date Received	: 11/15/24 08:00)							
-	Batch	Batch		Dilution	Batch			Prepared	
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	8260D		1	636146	MS	EET CLE	11/21/24 13:57	
Total/NA	Analysis	8260D SIM		1	635906	R5XG	EET CLE	11/20/24 04:51	
Client Samp	le ID: MW-13	31S_111424						Lab Sample ID:	240-215022-
-	: 11/14/24 11:4							-	Matrix: Wate
Date Received	: 11/15/24 08:00)							
_	Batch	Batch		Dilution	Batch			Prepared	
Prep Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	8260D		1	636146	MS	EET CLE	11/21/24 14:16	
Total/NA	Analysis	8260D SIM		1	635906	R5XG	EET CLE	11/20/24 05:15	
Client Samp	le ID: MW-10)5S_111424						Lab Sample ID:	240-215022-
Date Collected	: 11/14/24 12:4	0							Matrix: Wate
Date Received	: 11/15/24 08:00)							
_	Batch	Batch		Dilution	Batch			Prepared	
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
Total/NA	Analysis	8260D		1	636146	MS	EET CLE	11/21/24 14:35	
Total/NA	Analysis	8260D SIM		1	635906	R5XG	EET CLE	11/20/24 05:38	
Client Samp	le ID: DUP-1	3						Lab Sample ID:	240-215022-
	: 11/14/24 00:0								Matrix: Wate
Date Received:	: 11/15/24 08:00)							
		Batch		Dilution	Batch			Prepared	
_	Batch	Baton							
Ргер Туре	Batch Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed	
_			Run	Factor	Number 636146	Analyst MS	EET CLE	or Analyzed 11/21/24 14:54	

Laboratory References:

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

Accreditation/Certification Summary

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

Laboratory: Eurofins Cleveland

aboratory: Eurofins Cle				
accreditations/certifications held by	y this laboratory are listed. Not all accreditations/cer	artifications are applicable to this report	<u></u>	
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	
Iowa	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	

Eurofins Cleveland

14

Chain of Custody Record

MICHIGAN	TestAmerica
	THE LEADER IN ENVIRONMENTAL TESTING

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

Client Contact	Kegulat	ory program:			DW		NPE	2.3	1	RCR			Other										TestAmerica Laboratorie	
	Client Project N	lanager: Kris l	linske	y		Sit	e Con	tact: C	hristin	a Wea	aver			L	ab Co	ntact	: Mike	Del!	Monic	•			COC No:	
ddress: 28550 Cabot Drive, Suite 500	Telephone: 248-	994-2240				Те	lephor	nc: 248	-994-22	40					cleph	one: 3	30-49	7-939	6					
ity/State/Zip: Novi, Ml, 48377		Email: kristoffer.hinskey@arcadis.com							Analysis Turnaround Time							Analyses							1 of 1 COCs For lab use only	
hone: 248-994-2240														Т	Т	Т								
roject Name: Ford LTP	Sampler Name:	Jeramy		M	.15	17	10 da	lerent fro	3 w														Walk-in client	
roject Number: 30206169.0401.03	Method of Shipment/Carrier:							iy i	2 w	eck		9	ç			.				SIM			Lab sampling	
O # US3410018772	Shipping/Track	ing No:			-	-		T	2 da 1 da			Sample (V / N)	Grab		8	8260			260D	8260D S			Job/SDG No:	
	-			Ma	trix	+	Cor	tainers	& Pres	rvatio	VCS	mple	12	82600	E 826	DCE		0	ide 8	e 826				
	See Day	Sample Time	Air	Aquesas Sediment	Solid Other:	FUSC	1003	DH	ZaAd ZaAd NaOH	npres	ther:	Filtered Sa	Composite=C / Grab=G	1.1-DCE 8	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane			Sample Specific Notes Special Instructions:	
Sample Identification	Sample Date	Sample 1 me	<	< 3		+	=		2 2 2	u I	0	Ħ		=	-			Ì		-		╞═┿═		
TRIP BLANK_ 119				1				1	_			Ν	G.	×	X	X	X	Х	Х		_		1 Trip Blank	
MW-1325_111424	4/14/24	10:40		6				6				N	6	X	×	x	×	X	X	~			3 VOAs for 8260D 3 VOAs for 8260D S	
MW-1315_111424	11/14/29	11:45		6		Τ		6				N	6	x	X	x	×	X	K	X				
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DUP-13	11/14/24	-		6				6				N	G	×	×	×	×	x	x	x			-	
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Possible Hazard Identification	MILLET			Ψ		-	Samp	le Disp	osal (/	feer	may be :	11101	ed if si	mple	s are :	retair	ned los	er t	han 1	month				
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pecial Instructions/QC Requirements & Comments: iubmit all results through Cadena at jtomalia@cadena evel IV Reporting requested.		203728	RG	Ń																				
telinquished by	Company: Av	udiz	1	Date/Ti	me: 1/24	13	:2	2 1	Receive	d by	(old	St	0(5	r			Com	pany:	Ale	colis.		Date/Time:	
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Relinquished by:	Company	A	1	Date/Ti	1/20		170		Receive	d in I	aborat	pry by	V:	~				Com	UP				Date/Time:	

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	19. SAMPLE CONDITION Sample(s) Sample(s)
	Contacted PM Date by Concerning
he COC?), # of containers (V/N), and sam (Ca)	
the cooler(s)? If Yes Quantity Yes No Tests that are not (s) signed & dated? Yes No A Checked for pH by or bottle kits (LLHg/McHg)? Yes No Receiving: or promised? Yes No No No ? Yes No Oil and Grease ? Yes No Oil and Grease noles clearly identified on the COC? Yes No	 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity
s Courier ge Locatio Other Other	Barberton Wathry Site Name_ Client ArtCadi S Site Name_ Cooler Received on 1111/5 12/4 Opened on FedEx: 1 st Grd Exp UPS FAS Waypoint Client Dro FedEx: 1 st Grd Exp UPS FAS Waypoint Client Dro FedEx: 1 st Grd Exp UPS FAS Waypoint Client Dro FedEx: 1 st Grd Exp UPS FAS Waypoint Client Dro Receipt After-hours Drop-off Date/Time Eurofins Cooler # CC Foam Box Client Cooler Eurofins Cooler # CC Foam Box Client Cooler Plasting material used Blue Ice Dry Ice 1 Cooler temperature upon receipt IR GUN # T (CF T) O.1 °C) Observed

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Login # : ____

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W1-NC-099 Cooler Receipt Form Page 2 - Multiple Coolers

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Login Container Summary Report

Temperature readings

11/15/2024

DUP-13 240-215022-F-5	DUP-13 240-215022-E-5	DUP-13 240-215022-D-5	DUP-13 240-215022-C-5	DUP-13 240-215022-B-5	DUP-13 240-215022-A-5	MW-105S_111424 240-215022-F-4	MW-105S_111424 240-215022-E-4	MW-105S_111424 240-215022-D-4	MW-105S_111424 240-215022-C-4	MW-105S_111424 240-215022-B-4	MW-105S_111424 240-215022-A-4	MW-131S_111424 240-215022-F-3	MW-131S_111424 240-215022-E-3	MW-131S_111424 240-215022-D-3	MW-131S_111424 240-215022-C-3	MW-131S_111424 240-215022-B-3	MW-131S_111424 240-215022-A-3	MW-132S_111424 240-215022-G-2	MW-132S_111424 240-215022-E-2	MW-132S_111424 240-215022-D-2	MW-132S_111424 240-215022-C-2	MW-132S_111424 240-215022-B-2	MW-132S_111424 240-215022-A-2	TRIP BLANK_119 240-215022-A-1	<u>Client Sample ID</u> <u>Lab ID</u>
F-5 Voa Vial 40ml - Hydrochloric Acıd	E-5 Voa Vial 40ml - Hydrochloric Acıd	D-5 Voa Vial 40ml - Hydrochloric Acid	C-5 Voa Vial 40ml - Hydrochloric Acıd	B-5 Voa Vial 40ml - Hydrochloric Acid	A-5 Voa Vial 40ml - Hydrochloric Acid	F-4 Voa Vial 40ml - Hydrochloric Acid	E-4 Voa Vial 40ml - Hydrochioric Acid	D-4 Voa Vial 40ml - Hydrochloric Acid	-C-4 Voa Vial 40ml - Hydrochloric Acıd	-B-4 Voa Vial 40ml - Hydrochloric Acid	A-4 Voa Vial 40ml - Hydrochloric Acid	F-3 Voa Vial 40ml - Hydrochloric Acid	-E-3 Voa Vial 40ml - Hydrochloric Acid	-D-3 Voa Vial 40ml - Hydrochloric Acid	-C-3 Voa Vial 40ml - Hydrochloric Acid	-B-3 Voa Vial 40ml - Hydrochloric Acıd	-A-3 Voa Vial 40ml - Hydrochloric Acid	-G-2 Voa Vial 40ml - Hydrochloric Acıd	-E-2 Voa Vial 40ml - Hydrochloric Acid	-D-2 Voa Vial 40ml - Hydrochloric Acid	-C-2 Voa Vial 40ml - Hydrochloric Acid	-B-2 Voa Vial 40ml - Hydrochloric Acid	-A-2 Voa Vial 40ml - Hydrochloric Acıd	-A-1 Voa Vial 40ml - Hydrochloric Acid	<u>Container Type</u>
																									pH Temp Added Lot Number

DATA VERIFICATION REPORT



December 12, 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: 215022-1 Sample date: 2024-11-14 Report received by CADENA: 2024-12-12 Initial Data Verification completed by CADENA: 2024-12-12 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.

Analytical results reported between RDL and MDL are flagged 'J' and considered estimated values.

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 <u>http://clms.cadenaco.com/index.cfm</u>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

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

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
В	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was greater than the RDL and less than 5x (or 10x for common lab contaminates) the blank concentration and is considered non-detect at the reported concentration. For Inorganic methods the sample concentration was greater than the RDL and less than 10x the blank concentration and is considered non-detect at the reported concentration.
Е	The analyte / Compound reported exceeds the calibration range and is considered estimated.
EMPC	Estimated Minimum Potential Contamination - Dioxin/Furan analyses only.
J	Indicates an estimated value. This flag is used either when estimating a concentration for a tentatively identified compound or when the data indicates the presence of an analyte / compound but the result is less than the sample Quantitation limit, but greater than zero. The flag is also used in data validation to indicate a reported value should be considered estimated due to associated quality assurance deficiencies.
J-	The result is an estimated quantity, but the result may be biased low.
JB	NON-DETECT AT THE CONCENTRATION REPORTED AND ESTIMATED
JH	The sample result is considered estimated and is potentially biased high.
JL	The sample result is considered estimated and is potentially biased low.
JUB	NON-DETECT AT THE REPORTING LIMIT AND ESTIMATED
NJ	Tentatively identified compound with approximated concentration.
R	Indicates the value is considered to be unusable. (Note: The analyte / compound may or may not be present.)
TNTC	Too Numerous to Count - Asbestos and Microbiological Results.
U	Indicates that the analyte / compound was analyzed for, but not detected.
UB	The analyte / compound was detected in the associated blank. For Organic methods the sample concentration was less than the RDL and less than $5x$ (or $10x$ for common lab contaminates) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than $10x$ the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

Analytical Results Summary

CADENA Project ID: E203728

Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory Submittal: 215022-1

		Sample Name:	TRIP BL	ANK_11	Э		MW-132	2S_1114	24		MW-13	1S_1114	24		MW-10	5S_1114	24		DUP-13			
		Lab Sample ID:	240215	0221			240215	0222			240215	0223			240215	0224			240215	0225		
		Sample Date:	11/14/2	024			11/14/2	024			11/14/2	2024			11/14/2	024			11/14/2	024		
				Report		Valid		Report		Valid		Report		Valid		Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC																						
<u>OSW-8260</u>	<u>D</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		ND	1.0	ug/l		0.47	1.0	ug/l	J	0.50	1.0	ug/l	J
<u>OSW-8260</u>	DSIM																					
	1,4-Dioxane	123-91-1					ND	2.0	ug/l		ND	2.0	ug/l		ND	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 # 240-215022-1 CADENA Verification Report: 2024-12-12

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 56884R Review Level: Tier III Project: 30206169.0401.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-215022-1 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	Parant Sampla	Ana	lysis
Sample ID		WIGUIX	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_119	240-215022-1	Water	11/14/2024		Х	
MW-132S_111424	240-215022-2	Water	11/14/2024		Х	X
MW-131S_111424	240-215022-3	Water	11/14/2024		Х	Х
MW-105S_111424	240-215022-4	Water	11/14/2024		Х	X
DUP-13	240-215022-5	Water	11/14/2024	MW-131S_111424	Х	Х

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

	Items Reviewed	Rep	orted	Perfor Accep		Not
		No	Yes	No	Yes	Required
1.	Sample receipt condition		Х		Х	
2.	Requested analyses and sample results		Х		Х	
3.	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	
9.	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.

Results for duplicate samples are summarized in the following table.

DATA REVIEW

Sample ID/Duplicate ID	Compound	Sample Result	Duplicate Result	RPD
MW-131S_111424 / DUP-13	Vinyl chloride	0.47 J	0.50 J	AC

Note:

AC Acceptable

The calculated RPDs between the parent sample and field duplicate were acceptable.

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 REVIEW

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	oorted	Perfo Acce	Not	
	No	Yes	No	Yes	Required
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (C	GC/MS)				
Tier II Validation					
Holding times/Preservation		Х		X	
Tier III Validation		1		1	
System performance and column resolution		Х		X	
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		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:	Febin J S	
SIGNATURE:	Pauls	

DATE: December 17, 2024

PEER REVIEW: Andrew Korycinski

DATE: December 20, 2024

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS



CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS



Chain of Custody Record



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

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ity/State/Zip: Novi, M1, 48377	Telephone: 248-	994-2240				Tele	phon	c: 248-	994-22	40				ľ	Teleph	one: 3	330-49	7-939	6					1 of 1 COCs	
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				Sediment	Solid Other:	H2S04	11N03		ZAAU	pres	Other:	Filtered Sample (V/N)	Composite	1.1-DCE 8260D	cis-1,2-DCE 8260D	Irans-1,2-DCE 8260D	PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1.4-Dioxane 8260D SIM				Sample Specific Notes Special Instructions:	
Sample Identification	Sample Date	Sample Time	Air	× ×	88	Ĩ	É	DH	Ξ.	"n	õ	Ξ	Ŭ	2	cis	Ĕ	2	10	ž	1.4					_
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MW-1315_111424	11/14/29	11:45	(6				N	6	x	x	×	×	x	X	X				1	
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Qualifiers

GC/MS VOA	
Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Clossaly	
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 Sample ID: TRIP BLANK_119

Date Collected: 11/14/24 00:00

Date Received: 11/15/24 08:00

Method: SW846 8260D - Volati	lle Organic Comp	ounds by G	ic/ms						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/21/24 11:26	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/24 11:26	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 11:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/24 11:26	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 11:26	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/21/24 11:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137			-		11/21/24 11:26	1
4-Bromofluorobenzene (Surr)	82		56 - 136					11/21/24 11:26	1
Toluene-d8 (Surr)	92		78 - 122					11/21/24 11:26	1

73 - 120

92

Client Sample ID: MW-132S_111424

Date Collected: 11/14/24 10:40

Dibromofluoromethane (Surr)

Date	Received:	11/15/24	08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/20/24 04:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 127			-		11/20/24 04:51	1

1
1
1
1
1
1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137		11/21/24 13:57	1
4-Bromofluorobenzene (Surr)	91		56 - 136		11/21/24 13:57	1
Toluene-d8 (Surr)	101		78 - 122		11/21/24 13:57	1
Dibromofluoromethane (Surr)	103		73 - 120		11/21/24 13:57	1

Client Sample ID: MW-131S_111424

Date Collected: 11/14/24 11:45 Date Received: 11/15/24 08:00

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			11/20/24 05:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		68 - 127			_		11/20/24 05:15	1

Lab Sample ID: 240-215022-1 Matrix: Water

11/25/2024	1
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Matrix: Water

Lab Sample ID: 240-215022-2

Lab Sample ID: 240-215022-3

11/21/24 11:26

Matrix: Water

Client Sample ID: MW-131S_111424

Date Collected: 11/14/24 11:45

Date Received: 11/15/24 08:00

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			11/21/24 14:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/24 14:16	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 14:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/24 14:16	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 14:16	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			11/21/24 14:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		62 - 137			-		11/21/24 14:16	1
4-Bromofluorobenzene (Surr)	92		56 - 136					11/21/24 14:16	1
Toluene-d8 (Surr)	102		78 - 122					11/21/24 14:16	1

73 - 120

Client Sample ID: MW-105S_111424

102

Date Collected: 11/14/24 12:40

Dibromofluoromethane (Surr)

Date	Received:	11/15/24	08:00

Method: SW846 8260D SIM - \	Volatile Organic C	ompounds	(GC/MS)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			11/20/24 05:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		68 - 127			-		11/20/24 05:38	1
_ Method: SW846 8260D - Volat	ile Organic Comp	ounds by G	C/MS						
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			11/21/24 14:35	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/24 14:35	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 14:35	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/24 14:35	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 14:35	1
Vinyl chloride	0.47	J	1.0	0.45	ug/L			11/21/24 14:35	1
Surrogata	% Poopuoru	Qualifiar	Limito				Bronarad	Analyzad	Dil Eso

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105	62 - 137		11/21/24 14:35	1
4-Bromofluorobenzene (Surr)	89	56 - 136		11/21/24 14:35	1
Toluene-d8 (Surr)	96	78 - 122		11/21/24 14:35	1
Dibromofluoromethane (Surr)	101	73 - 120		11/21/24 14:35	1

Client Sample ID: DUP-13

Date Collected: 11/14/24 00:00

Date Received: 11/15/24 08:00

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			11/20/24 06:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		68 - 127			_		11/20/24 06:02	1

Lab Sample ID: 240-215022-5

1

Matrix: Water

Lab Sample ID: 240-215022-3 Matrix: Water

11/21/24 14:16

Lab Sample ID: 240-215022-4

Matrix: Water

Client Sample ID: DUP-13

Date Collected: 11/14/24 00:00

Date	Received:	11/15/24	08:00

Method: SW846 8260D - Volati	le Organic Comp	ounds by G	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			11/21/24 14:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			11/21/24 14:54	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 14:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			11/21/24 14:54	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			11/21/24 14:54	1
Vinyl chloride	0.50	J	1.0	0.45	ug/L			11/21/24 14:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		62 - 137			-		11/21/24 14:54	1
4-Bromofluorobenzene (Surr)	88		56 - 136					11/21/24 14:54	1
Toluene-d8 (Surr)	97		78 - 122					11/21/24 14:54	1
Dibromofluoromethane (Surr)	103		73 - 120					11/21/24 14:54	1

Matrix: Water

Lab Sample ID: 240-215022-5