

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kristoffer Hinskey Arcadis U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377 Generated 3/12/2024 11:50:43 PM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-200457-1

Eurofins Cleveland 180 S. Van Buren Avenue Barberton OH 44203





Eurofins Cleveland

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

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	
F1	MS and/or MSD recovery exceeds control limits.	
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	0
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
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

Job ID: 240-200457-1

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Job Narrative 240-200457-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 3/5/2024 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.7°C.

GC/MS VOA

Method 8260D: The continuing calibration verification (CCV) associated with batch 240-605392 recovered above the upper control limit for Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: TRIP BLANK_39 (240-200457-1).

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 240-605392.

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

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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

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-200457-1	TRIP BLANK_39	Water	03/01/24 00:00	03/05/24 09:30
240-200457-2	MW-146S_030124	Water	03/01/24 11:35	03/05/24 09:30

Detection Summary

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

Client Sample ID: TRIP BLANK_39

No Detections.

Client Sample ID: MW-146S_030124

No Detections.

Job ID: 240-200457-1

Lab Sample ID: 240-200457-1

Lab Sample ID: 240-200457-2



Client Sample ID: TRIP BLANK_39

Date Collected: 03/01/24 00:00 Date Received: 03/05/24 09:30

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			03/08/24 15:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/24 15:59	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 15:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/24 15:59	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 15:59	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/08/24 15:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			-		03/08/24 15:59	1
4-Bromofluorobenzene (Surr)	78		56 - 136					03/08/24 15:59	1
Toluene-d8 (Surr)	94		78 - 122					03/08/24 15:59	1
Dibromofluoromethane (Surr)	113		73 - 120					03/08/24 15:59	1

3/12/2024

Lab Sample ID: 240-200457-1

Matrix: Water

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Client Sample ID: MW-146S_030124

Date Collected: 03/01/24 11:35 Date Received: 03/05/24 09:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/09/24 00:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		68 - 127			-		03/09/24 00:03	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			03/09/24 04:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/09/24 04:03	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/09/24 04:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/09/24 04:03	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/09/24 04:03	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/09/24 04:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137			-		03/09/24 04:03	1
4-Bromofluorobenzene (Surr)	73		56 - 136					03/09/24 04:03	1
Toluene-d8 (Surr)	91		78 - 122					03/09/24 04:03	1
Dibromofluoromethane (Surr)	112		73 - 120					03/09/24 04:03	1

3/12/2024

Job ID: 240-200457-1

Lab Sample ID: 240-200457-2 Matrix: Water

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

Percent Surrogate Recovery (Acceptance Limits) DCA BFB TOL DBFM **Client Sample ID** (62-137) (56-136) (78-122) (73-120) Lab Sample ID TRIP BLANK_39 240-200457-1 106 94 113 78 MW-146S_030124 240-200457-2 105 73 91 112 240-200468-C-1 MS Matrix Spike 95 91 99 103 240-200468-C-1 MSD Matrix Spike Duplicate 90 86 96 100 LCS 240-605392/5 Lab Control Sample 100 102 105 109 LCS 240-605500/5 Lab Control Sample 97 94 101 105 MB 240-605392/9 Method Blank 106 87 103 116 MB 240-605500/9 Method Blank 106 80 96 113 Surrogate Legend DCA = 1,2-Dichloroethane-d4 (Surr) BFB = 4-Bromofluorobenzene (Surr) TOL = Toluene-d8 (Surr) DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

			Percent Surrogate Recovery (Acceptance Limits)
		DCA	
Lab Sample ID	Client Sample ID	(68-127)	
240-200381-C-4 MS	Matrix Spike	107	
240-200381-C-4 MSD	Matrix Spike Duplicate	107	
240-200457-2	MW-146S_030124	107	
LCS 240-605526/3	Lab Control Sample	108	
MB 240-605526/5	Method Blank	84	
Surrogate Legend			

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

3/12/2024

Prep Type: Total/NA

Prep Type: Total/NA

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

Matrix: Water Analysis Batch: 605392

	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			03/08/24 12:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/24 12:05	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 12:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/24 12:05	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 12:05	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/08/24 12:05	1

	МВ	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137		03/08/24 12:05	1
4-Bromofluorobenzene (Surr)	87		56 - 136		03/08/24 12:05	1
Toluene-d8 (Surr)	103		78 - 122		03/08/24 12:05	1
Dibromofluoromethane (Surr)	116		73 - 120		03/08/24 12:05	1

Lab Sample ID: LCS 240-605392/5 Matrix: Water Analysis Batch: 605392

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1-Dichloroethene	20.0	23.5		ug/L		117	63 - 134	
cis-1,2-Dichloroethene	20.0	21.7		ug/L		109	77 - 123	
Tetrachloroethene	20.0	21.6		ug/L		108	76 - 123	
trans-1,2-Dichloroethene	20.0	21.0		ug/L		105	75 - 124	
Trichloroethene	20.0	19.9		ug/L		100	70 - 122	
Vinyl chloride	20.0	22.0		ug/L		110	60 - 144	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		62 - 137
4-Bromofluorobenzene (Surr)	102		56 - 136
Toluene-d8 (Surr)	105		78 - 122
Dibromofluoromethane (Surr)	109		73 - 120

Lab Sample ID: MB 240-605500/9 Matrix: Water

Analysis Batch: 605500

	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			03/08/24 23:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/24 23:22	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 23:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/24 23:22	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 23:22	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/08/24 23:22	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			-		03/08/24 23:22	1
4-Bromofluorobenzene (Surr)	80		56 - 136					03/08/24 23:22	1
Toluene-d8 (Surr)	96		78 - 122					03/08/24 23:22	1

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

Client Sample ID: Lab Control Sample

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

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

Lab Sample ID: MB 240-605 Matrix: Water	500/9							Client S	ample ID: Met Prep Type		
Analysis Batch: 605500											
•	~~-	MB MB					_			_	
Surrogate	%Reco	very Qualifier						repared	Analyzed		il Fa
Dibromofluoromethane (Surr)		113	73 - 120						03/08/24 23:2	2	
Lab Sample ID: LCS 240-60 Matrix: Water	5500/5						Client	Sample	ID: Lab Cont Prep Type		
Analysis Batch: 605500											
-			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,1-Dichloroethene			20.0	22.9		ug/L		115	63 - 134		
cis-1,2-Dichloroethene			20.0	21.0		ug/L		105	77 - 123		
Tetrachloroethene			20.0	20.1		ug/L		101	76 - 123		
trans-1,2-Dichloroethene			20.0	20.4		ug/L		102	75 - 124		
Trichloroethene			20.0	18.8		ug/L		94	70 - 122		
Vinyl chloride			20.0	20.8		ug/L		104	60 - 144		
			20.0	20.0					00 - 111		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	97		62 - 137								
4-Bromofluorobenzene (Surr)	94		56 - 136								
Toluene-d8 (Surr)	101		78 - 122								
Dibromofluoromethane (Surr) Lab Sample ID: 240-200468	105		73 - 120					Client	Sample ID: M Prep Type		-
Dibromofluoromethane (Surr) Lab Sample ID: 240-200468- Matrix: Water	105	Sample		MS	MS			Client			-
Dibromofluoromethane (Surr) Lab Sample ID: 240-200468- Matrix: Water Analysis Batch: 605500	105 -C-1 MS Sample	Sample Qualifier	73 - 120		MS Qualifier	Unit	D	Client %Rec	Prep Type		-
Dibromofluoromethane (Surr) Lab Sample ID: 240-200468- Matrix: Water Analysis Batch: 605500 Analyte	105 -C-1 MS Sample	Qualifier	73 ₋ 120 Spike		Qualifier	Unit ug/L	<u>D</u>		Prep Type		-
Dibromofluoromethane (Surr) Lab Sample ID: 240-200468- Matrix: Water Analysis Batch: 605500 Analyte	105 -C-1 MS 	Qualifier	73 ₋ 120 Spike Added	Result	Qualifier		D	%Rec	Prep Type %Rec Limits		-
Dibromofluoromethane (Surr) Lab Sample ID: 240-200468- Matrix: Water Analysis Batch: 605500 Analyte Trichloroethene	105 -C-1 MS 	Qualifier F1	73 ₋ 120 Spike Added	Result	Qualifier		<u>D</u>	%Rec	Prep Type %Rec Limits		-
Dibromofluoromethane (Surr) Lab Sample ID: 240-200468- Matrix: Water Analysis Batch: 605500 Analyte Trichloroethene Surrogate	105 -C-1 MS 	Qualifier F1 MS	73 - 120 Spike Added 400	Result	Qualifier		D	%Rec	Prep Type %Rec Limits		-
Dibromofluoromethane (Surr) Lab Sample ID: 240-200468- Matrix: Water Analysis Batch: 605500 Analyte Trichloroethene Surrogate 1,2-Dichloroethane-d4 (Surr)	105 -C-1 MS Sample Result 1100 MS %Recovery	Qualifier F1 MS	73 - 120 Spike Added 400 Limits	Result	Qualifier		D	%Rec	Prep Type %Rec Limits		-
Dibromofluoromethane (Surr) Lab Sample ID: 240-200468- Matrix: Water Analysis Batch: 605500 Analyte Trichloroethene Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr)	105 -C-1 MS Sample Result 1100 MS %Recovery 95	Qualifier F1 MS	73 - 120 Spike Added 400 Limits 62 - 137 56 - 136	Result	Qualifier		<u>D</u>	%Rec	Prep Type %Rec Limits		-
Dibromofluoromethane (Surr) Lab Sample ID: 240-200468- Matrix: Water Analysis Batch: 605500 Analyte Trichloroethene Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)	105 -C-1 MS Sample Result 1100 MS %Recovery 95 91 99	Qualifier F1 MS	73 - 120 Spike Added 400 Limits 62 - 137 56 - 136 78 - 122	Result	Qualifier		<u>D</u>	%Rec	Prep Type %Rec Limits		-
Dibromofluoromethane (Surr) Lab Sample ID: 240-200468- Matrix: Water Analysis Batch: 605500 Analyte Trichloroethene Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr)	105 -C-1 MS Sample Result 1100 MS %Recovery 95 91	Qualifier F1 MS	73 - 120 Spike Added 400 Limits 62 - 137 56 - 136	Result	Qualifier		<u>D</u>	%Rec	Prep Type %Rec Limits		-
Dibromofluoromethane (Surr) Lab Sample ID: 240-200468- Matrix: Water Analysis Batch: 605500 Analyte Trichloroethene Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr)	105 -C-1 MS Sample Result 1100 MS %Recovery 95 91 99 103	Qualifier F1 MS	73 - 120 Spike Added 400 Limits 62 - 137 56 - 136 78 - 122	Result	Qualifier	ug/L		<u>%Rec</u> -82	Prep Type %Rec Limits	ə: Tota	
Dibromofluoromethane (Surr) Lab Sample ID: 240-200468- Matrix: Water Analysis Batch: 605500 Analyte Trichloroethene Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: 240-200468-	105 -C-1 MS Sample Result 1100 MS %Recovery 95 91 99 103	Qualifier F1 MS	73 - 120 Spike Added 400 Limits 62 - 137 56 - 136 78 - 122	Result	Qualifier	ug/L		<u>%Rec</u> -82	Prep Type %Rec Limits 61 - 124	e: Tota	cat
Dibromofluoromethane (Surr) Lab Sample ID: 240-200468- Matrix: Water Analysis Batch: 605500 Analyte Trichloroethene Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: 240-200468- Matrix: Water	105 -C-1 MS Sample Result 1100 MS %Recovery 95 91 99 103	Qualifier F1 MS	73 - 120 Spike Added 400 Limits 62 - 137 56 - 136 78 - 122	Result	Qualifier	ug/L		<u>%Rec</u> -82	Prep Type %Rec Limits 61 - 124	e: Tota	cat
Dibromofluoromethane (Surr) Lab Sample ID: 240-200468- Matrix: Water Analysis Batch: 605500 Analyte Trichloroethene Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: 240-200468- Matrix: Water	105 -C-1 MS Sample Result 1100 MS %Recovery 95 91 99 103	Qualifier F1 MS Qualifier	73 - 120 Spike Added 400 Limits 62 - 137 56 - 136 78 - 122	Result 797	Qualifier	ug/L		<u>%Rec</u> -82	Prep Type %Rec Limits 61 - 124	e: Tota	cat I/N
Dibromofluoromethane (Surr) Lab Sample ID: 240-200468- Matrix: Water Analysis Batch: 605500 Analyte Trichloroethene Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: 240-200468- Matrix: Water Analysis Batch: 605500	105 -C-1 MS Result 1100 MS %Recovery 95 91 99 103 -C-1 MSD Sample	Qualifier F1 MS Qualifier	73 - 120 Spike Added 400 £imits 62 - 137 56 - 136 78 - 122 73 - 120	Result 797	Qualifier F1	ug/L		<u>%Rec</u> -82	Prep Type %Rec Limits 61 - 124 : Matrix Spike Prep Type %Rec	e: Tota	cat I/N. RP
Dibromofluoromethane (Surr) Lab Sample ID: 240-200468- Matrix: Water Analysis Batch: 605500 Analyte Trichloroethane Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: 240-200468- Matrix: Water Analysis Batch: 605500 Analyte	105 -C-1 MS Result 1100 MS %Recovery 95 91 99 103 -C-1 MSD Sample	Qualifier F1 MS Qualifier Sample Qualifier	73 - 120 Spike Added 400 200 Limits 62 - 137 56 - 136 78 - 122 73 - 120	Result 797	Qualifier F1 MSD Qualifier	ug/L	lient Sa	%Rec -82	Prep Type %Rec Limits 61 - 124 : Matrix Spike Prep Type %Rec	e: Tota	cato I/N/ RPI Lim
Dibromofluoromethane (Surr) Lab Sample ID: 240-200468- Matrix: Water Analysis Batch: 605500 Analyte Trichloroethane Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: 240-200468- Matrix: Water Analysis Batch: 605500 Analyte	105 -C-1 MS Sample Result 1100 MS %Recovery 95 91 99 103 -C-1 MSD Sample Result 1100	Qualifier F1 MS Qualifier Sample Qualifier F1	73 - 120 Spike Added 400 £imits 62 - 137 56 - 136 78 - 122 73 - 120 Spike Added	Result 797 MSD Result	Qualifier F1 MSD Qualifier	Unit	lient Sa	%Rec -82	Prep Type %Rec Limits 61 - 124 : Matrix Spike Prep Type %Rec Limits	e: Tota	cato I/N/ RPI Lim
Dibromofluoromethane (Surr) Lab Sample ID: 240-200468- Matrix: Water Analysis Batch: 605500 Analyte Trichloroethene Surrogate 1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr) Toluene-d8 (Surr) Dibromofluoromethane (Surr) Lab Sample ID: 240-200468- Matrix: Water Analysis Batch: 605500 Analyte Trichloroethene	105 -C-1 MS Sample <u>Result</u> 1100 <i>MS</i> <i>%Recovery</i> 95 91 99 103 -C-1 MSD Sample <u>Result</u> 1100 <i>MSD</i>	Qualifier F1 MS Qualifier Qualifier F1 MSD	73 - 120 Spike Added 400 200 Limits 62 - 137 56 - 136 78 - 122 73 - 120 Spike Added 400	Result 797 MSD Result	Qualifier F1 MSD Qualifier	Unit	lient Sa	%Rec -82	Prep Type %Rec Limits 61 - 124 : Matrix Spike Prep Type %Rec Limits	e: Tota	cat I/N. RP Lim
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Job ID: 240-200457-1

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

Matrix: Water	526/5											ample ID: M Prep T		
Analysis Batch: 605526												i iep i	ype. it	
Analysis Batch. 005520		мв	MB											
Analyte	Re		Qualifier	RL		MDL	Unit		D	Dr	epared	Analyze	be	Dil Fa
1,4-Dioxane			U			0.86			<u> </u>		epareu	03/08/24 1		Diria
1,4-Dioxane		2.0	0	2.0		0.00	uy/L					03/00/24 1	11.21	
		MВ	МВ											
Surrogate	%Reco	very	Qualifier	Limits						Pr	repared	Analyz	ed	Dil Fa
1,2-Dichloroethane-d4 (Surr)		84		68 - 127								03/08/24 1	17:27	
Lab Sample ID: LCS 240-605	526/3								Clie	ent	Sample	ID: Lab Co	ontrol S	ampl
Matrix: Water												Prep T	ype: To	otal/N/
Analysis Batch: 605526														
				Spike	LCS	LCS						%Rec		
Analyte				Added	Result	Qual	ifier	Unit	I	D	%Rec	Limits		
1,4-Dioxane				10.0	10.5			ug/L			105	75 _ 121		
	LCS	LCS												
Surrogate	%Recovery	Qual	ifier	Limits										
1,2-Dichloroethane-d4 (Surr)	108			68 - 127										
Lab Sample ID: 240-200381-0	C-4 MS										Client	Sample ID:	Matrix	Spik
Matrix: Water												Prep T		
Analysis Batch: 605526														
-	Sample	Sam	ole	Spike	MS	MS						%Rec		
Analyte	Result	Qual	ifier	Added	Result	Qual	ifier	Unit	I	D	%Rec	Limits		
1,4-Dioxane	2.0	U		10.0	11.6			ug/L			116	20 - 180		
	MS	мs												
Surrogate	%Recovery	Qual	ifier	Limits										
Surrogate 1,2-Dichloroethane-d4 (Surr)		Qual	ifier	Limits 68 - 127										
1,2-Dichloroethane-d4 (Surr)	107	Qual	ifier						Client	Sa	mple ID	: Matrix Sp	ike Du	plicate
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-200381-0	107	Qual	ifier						Client	Sa	mple ID	: Matrix Sp Prep T		
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-200381-0 Matrix: Water	107	Qual	ifier						Client	Sa	mple ID	: Matrix Sp Prep T		
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-200381-0 Matrix: Water	107				MSD	MSD			Client	Sa	mple ID			otal/N/
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-200381-0 Matrix: Water Analysis Batch: 605526	107 C-4 MSD	Sam	ble	68 - 127	MSD Result			Unit		Sa	mple ID %Rec	Prep T		otal/N/ RPI
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-200381-0	C-4 MSD Sample	Samı Qual	ble	68 - 127 Spike				Unit ug/L			-	Prep T	ype: To	
1,2-Dichloroethane-d4 (Surr) Lab Sample ID: 240-200381-0 Matrix: Water Analysis Batch: 605526 Analyte	107 C-4 MSD Sample Result	Samı Quali U	ole ifier	68 - 127 Spike Added	Result						%Rec	Prep T %Rec Limits	ype: To	RPI

 1,2-Dichloroethane-d4 (Surr)
 107
 68 - 127

Eurofins Cleveland

GC/MS VOA

Analysis Batch: 605392

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200457-1	TRIP BLANK_39	Total/NA	Water	8260D	
MB 240-605392/9	Method Blank	Total/NA	Water	8260D	
LCS 240-605392/5	Lab Control Sample	Total/NA	Water	8260D	
Analysis Batch: 60550	0				
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
240-200457-2	MW-146S_030124	Total/NA	Water	8260D	
MB 240-605500/9	Method Blank	Total/NA	Water	8260D	
LCS 240-605500/5	Lab Control Sample	Total/NA	Water	8260D	
240-200468-C-1 MS	Matrix Spike	Total/NA	Water	8260D	
240-200468-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
Analysis Batch: 60552	6				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-200457-2	MW-146S_030124	Total/NA	Water	8260D SIM	
MB 240-605526/5	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-605526/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-200381-C-4 MS	Matrix Spike	Total/NA	Water	8260D SIM	
240-200381-C-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	

Matrix: Water

Client Sample ID: TRIP BLANK_39

Lab Sample	ID: 2	40-200	457-1
		Matrix:	Water

Date Collected: 03/01/24 00:00 Date Received: 03/05/24 09:30

-	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D			605392	AJS	EET CLE	03/08/24 15:59

Client Sample ID: MW-146S_030124 Date Collected: 03/01/24 11:35

Date Received: 03/05/24 09:30

	Batch	Batch		Dilution	Batch			Prepared
Ргер Туре	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Analysis	8260D		1	605500	AJS	EET CLE	03/09/24 04:03
Total/NA	Analysis	8260D SIM		1	605526	MDH	EET CLE	03/09/24 00:03

Laboratory References:

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

Eurofins Cleveland

Accreditation/Certification Summary

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

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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	02-27-24 *
Illinois	NELAP	200004	07-31-24
lowa	State	421	06-01-25
Kentucky (WW)	State	KY98016	12-30-24
Minnesota	NELAP	039-999-348	12-31-24
New Jersey	NELAP	OH001	06-30-24
New York	NELAP	10975	04-01-24
Oregon	NELAP	4062	02-27-25
Pennsylvania	NELAP	68-00340	08-31-24
Texas	NELAP	T104704517-22-19	08-31-24
USDA	US Federal Programs	P330-18-00281	01-05-27
Virginia	NELAP	460175	09-14-24
West Virginia DEP	State	210	12-31-24

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

MICHIGAN	
100 Tarth	

Chain of Custody Record



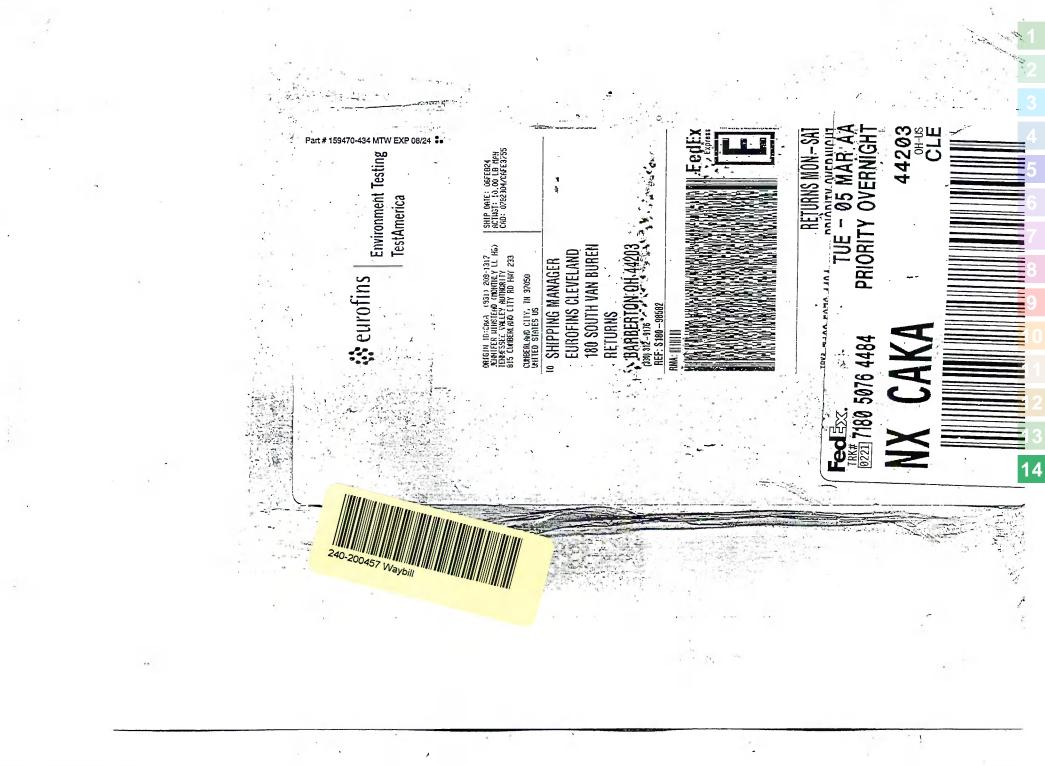
190 TestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 610-229-2763

Addexise 2559 Chief Drive, Safe 500 Client Project Haugen Christinskap Dire Control Caribia Wran Dire Control Caribia Wran<	Client Contact	Regula	tory program:	:		DW			NPD	ES		RC	RA		Ot	her	-									
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DATA VERIFICATION REPORT



March 13, 2024

Kris Hinskey Arcadis Inc 10559 Citation Ave Suite 100 Brighton, MI 48116

CADENA project ID: E203631 Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater Project number: 30167538.402.04 Event Specific Scope of Work References: Sample COC Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory submittal: 200457-1 Sample date: 2024-03-01 Report received by CADENA: 2024-03-12 Initial Data Verification completed by CADENA: 2024-03-13 Number of Samples:2 Sample Matrices:Water Test Categories:GCMS VOC Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

The following minor QC exceptions or missing information were noted:

MS/MSD recovery outliers or sample duplicate RPD outliers were not determined using a client sample from this submittal for the test and QC batch noted so qualification was not required based on these sample-specific QC outliers: GCMS VOC QC batch 605500.

GCMS VOC CCV STANDARD response outliers as noted in the laboratory submittal case narrative were not used to qualify client sample results as part of this level 2 data package verification review.

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

Sincerely,

Jim Tomalia

Project Scientist

CADENA Valid Qualifiers

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

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Cleveland Laboratory Submittal: 200457-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2402004 3/1/2024	571	MW-146 2402004 3/1/2024					
			.	Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
<u>OSW-8260D</u>										
1	,1-Dichloroethene	75-35-4	ND	1.0	ug/l		ND	1.0	ug/l	
C	is-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l		ND	1.0	ug/l	
Te	etrachloroethene	127-18-4	ND	1.0	ug/l		ND	1.0	ug/l	
tr	rans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l		ND	1.0	ug/l	
Ti	richloroethene	79-01-6	ND	1.0	ug/l		ND	1.0	ug/l	
V	'inyl chloride	75-01-4	ND	1.0	ug/l		ND	1.0	ug/l	
<u>OSW-8260DS</u>	SIM									
1	,4-Dioxane	123-91-1					ND	2.0	ug/l	



Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-200457-1 CADENA Verification Report: 2024-03-13

Analyses Performed By: Eurofins Cleveland Barberton, Ohio

Report # 53337R Review Level: Tier III Project: 30167538.402.02

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-200457-1 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:

Somelo ID	Lab ID	Matrix	Sample	Barant Sampla	Ana	ysis
Sample ID		Matrix	Collection Date	Parent Sample	VOC	VOC SIM
TRIP BLANK_39	240-200457-1	Water	03/01/2024		Х	
MW-146S_030124	240-200457-2	Water	03/01/2024		Х	Х

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

	Items Reviewed	Rep	orted		mance otable	Not Required
		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		X	
5.	Reporting limits		Х		Х	
6.	Sample collection date		Х		Х	
7.	Laboratory sample received date		Х		X	
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	
11.	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 HCI

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

Mass spectrometer performance was acceptable, and all analyses were performed within a 12-hour tune clock.

System performance and column resolution were acceptable.

3. Calibration

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument daily performance is satisfactory.

3.1 Initial Calibration

The method specifies percent relative standard deviation (%RSD) and relative response factor (RRF) limits for select compounds only. A technical review of the data applies limits to all compounds with no exceptions.

All target compounds associated with the initial calibration standards must exhibit a %RSD less than the control limit (20%) or a correlation coefficient greater than 0.99 and an RRF value greater than control limit (0.05).

All compounds associated with the initial calibrations were within the specified control limits.

3.2 Continuing Calibration

All target compounds associated with the continuing calibration standard must exhibit a percent difference (%D) less than the control limit (20%) and RRF value greater than control limit (0.05).

All compounds associated with the calibrations were within the specified control limits, with the exception of the compounds presented in the following table.

Sample ID	Initial / Continuing	Compounds	Criteria
TRIP BLANK_39	Continuing Calibration Verification %D	Vinyl chloride	+20.6%

The criteria used to evaluate the initial and continuing calibration are presented in the following table. In the case of a calibration deviation, the sample results are qualified.

Initial/Continuing	Criteria	Sample Result	Qualification		
	RRF <0.05	Non-detect	R		
	KKF <0.05	Detect	J		
Initial and Continuing		Non-detect	R		
Calibration	RRF <0.01 ¹	Detect	J		
	RRF >0.05 or RRF >0.01 ¹	Non-detect	No. Action		
	KKF >0.05 01 KKF >0.01	Detect	No Action		

DATA REVIEW

Initial/Continuing	Criteria	Sample Result	Qualification
	% DCD 20% as a correlation coofficient	Non-detect	UJ
Initial Calibratian	%RSD > 20% or a correlation coefficient <0.99	Detect	J
Initial Calibration	1/ DOD 00%	Non-detect	R
	%RSD > 90%	Detect	J
		Non-detect	UJ
	%D >20% (increase in sensitivity)	Detect	J
		Non-detect	UJ
Continuing Calibration	%D >20% (decrease in sensitivity)	Detect	J
		Non-detect	R
	%D > 90% (increase/decrease in sensitivity)	Detect	J

Note:

¹RRF of 0.01 only applies to compounds which are typically poor responding compounds

4. Internal Standard Performance

Internal standard performance criteria ensure that the GC/MS sensitivity and response are stable during every sample analysis. The criteria require the internal standard compounds associated with the VOC exhibit area counts that are not greater than two times (+100%) or less than one-half (-50%) of the area counts of the associated continuing calibration standard.

All internal standard responses were within control limits.

5. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 30% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected for samples from this SDG.

6. Compound Identification

Compounds are identified on the GC/MS by using the analytes relative retention time and ion spectra.

No compounds were detected in the samples within this SDG.

7. System Performance and Overall Assessment

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

DATA REVIEW

DATA VALIDATION CHECKLIST FOR VOCs

VOCs: 8260D/8260D-SIM	Rep	orted		rmance ptable	Not Required
	No	Yes	No	Yes	Nequireu
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (G	C/MS)				
Tier II Validation					
Holding times/Preservation		Х		X	
Tier III Validation		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:	Bindu Sree M B
SIGNATURE:	BASHMB
DATE:	March 24, 2024

PEER REVIEW: Andrew Korycinski

DATE: April 3, 2024

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS





Chain of Custody Record



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TestAmerica Laboratory location: Brighton -- 10448 Citation Drive, Suite 200 / Brighton, MI 48116 / 610-229-2763

Client Contact	Regulat	ory program:	:		DW		N	PDES		RC	RA		Other												TestAmerica Laboratorie			
Cilent Project Manager: Kris Hinskey							Stte Contact: Christina Weaver									ontac		COC Na										
ddress: 28550 Cabot Drive, Suite 500	Telephone: 248	-001-22.10	_				Telephone: 243-994-2240								Telephone: 330-497-9396													
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Sample I dentification	Sample Date	Sample Time	Ţ	Aquíous	Seliment Solid	Olber:	H2SOA	HCI HCI	NaOH	VioH Uspies	Ofher:	Filtered Sample (Y/N)	Composite=C / GraheG	1,1-DCE 8260D	cis-1,2-DCE 82000	Trans-1,2-DCE	PCE 82.60D	TCE 8260D	Vinyl Chloride	1.4-Dioxane 82800 SIM					Sample Specific Notes Special Instructions:			
TRIP BLANK_ 39				1				1	TT					x	X	X	X	x	X	T	Ī				1 Trip Blank			
MW-1465-030124	3/1/24	1135		ie				4				N	6)	ċ	X	አ	χ	×	X	x					3 VOAs for 8260D 3 VOAs for 8260D S			
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Client Sample ID: TRIP BLANK_39

Date Collected: 03/01/24 00:00

Date Received: 03/05/24 09:30

Dibromofluoromethane (Surr)

Dibromofluoromethane (Surr)

Method: SW846 8260D - Volatile	Organic Compounds by CC/MS
	Organic Compounds by GC/MS

113

112

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.49	ug/L			03/08/24 15:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/08/24 15:59	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 15:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/08/24 15:59	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/08/24 15:59	1
Vinyl chloride	1.0	м П1	1.0	0.45	ug/L			03/08/24 15:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		62 - 137			-		03/08/24 15:59	1
4-Bromofluorobenzene (Surr)	78		56 - 136					03/08/24 15:59	1
Toluene-d8 (Surr)	94		78 - 122					03/08/24 15:59	1

73 - 120

Client Sample ID: MW-146S_030124 Date Collected: 03/01/24 11:35 Date Received: 03/05/24 09:30

Lab Sample ID: 240-200457-2

03/08/24 15:59

Matrix: Water

1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/09/24 00:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		68 - 127					03/09/24 00:03	1

Method: SW846 8260D - Volatile Organic Compounds 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			03/09/24 04:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/09/24 04:03	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/09/24 04:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/09/24 04:03	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/09/24 04:03	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/09/24 04:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		62 - 137			-		03/09/24 04:03	1
4-Bromofluorobenzene (Surr)	73		56 - 136					03/09/24 04:03	1
Toluene-d8 (Surr)	91		78 - 122					03/09/24 04:03	1

73 - 120

03/09/24 04:03

1

Lab Sample ID: 240-200457-1 Matrix: Water