

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/29/2023 6:38:32 AM

JOB DESCRIPTION

Ford LTP - Off Site

JOB NUMBER

240-182077-1

Eurofins Canton

Job Notes

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

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Authorization



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Authorized for release by
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Definitions/Glossary

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

Job ID: 240-182077-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

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

Job ID: 240-182077-1

Job ID: 240-182077-1

Laboratory: Eurofins Canton

Narrative

**Job Narrative
240-182077-1**

Receipt

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

GC/MS VOA

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

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Method Summary

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

Job ID: 240-182077-1

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

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

Job ID: 240-182077-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-182077-1	TRIP BLANK_111	Water	03/14/23 00:00	03/17/23 08:00
240-182077-2	MW-102S_031423	Water	03/14/23 11:15	03/17/23 08:00

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- 10
- 11
- 12
- 13
- 14

Detection Summary

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

Job ID: 240-182077-1

Client Sample ID: TRIP BLANK_111

Lab Sample ID: 240-182077-1

No Detections.

Client Sample ID: MW-102S_031423

Lab Sample ID: 240-182077-2

No Detections.

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- 10
- 11
- 12
- 13
- 14

This Detection Summary does not include radiochemical test results.

Client Sample Results

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

Job ID: 240-182077-1

Client Sample ID: TRIP BLANK_111

Lab Sample ID: 240-182077-1

Date Collected: 03/14/23 00:00

Matrix: Water

Date Received: 03/17/23 08:00

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			03/23/23 18:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/23/23 18:07	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/23/23 18:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/23/23 18:07	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/23/23 18:07	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/23/23 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137		03/23/23 18:07	1
4-Bromofluorobenzene (Surr)	89		56 - 136		03/23/23 18:07	1
Toluene-d8 (Surr)	96		78 - 122		03/23/23 18:07	1
Dibromofluoromethane (Surr)	93		73 - 120		03/23/23 18:07	1

Client Sample Results

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

Job ID: 240-182077-1

Client Sample ID: MW-102S_031423

Lab Sample ID: 240-182077-2

Date Collected: 03/14/23 11:15

Matrix: Water

Date Received: 03/17/23 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/20/23 17:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		66 - 120					03/20/23 17:27	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			03/23/23 22:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/23/23 22:18	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/23/23 22:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/23/23 22:18	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/23/23 22:18	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/23/23 22:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137					03/23/23 22:18	1
4-Bromofluorobenzene (Surr)	87		56 - 136					03/23/23 22:18	1
Toluene-d8 (Surr)	93		78 - 122					03/23/23 22:18	1
Dibromofluoromethane (Surr)	93		73 - 120					03/23/23 22:18	1

Surrogate Summary

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

Job ID: 240-182077-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	TOL	DBFM
		(62-137)	(56-136)	(78-122)	(73-120)
240-182077-1	TRIP BLANK_111	95	89	96	93
240-182077-2	MW-102S_031423	96	87	93	93
240-182089-E-2 MS	Matrix Spike	90	98	97	89
240-182089-F-2 MSD	Matrix Spike Duplicate	87	99	94	88
LCS 240-566543/4	Lab Control Sample	88	100	98	91
MB 240-566543/7	Method Blank	94	89	95	90

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA
		(66-120)
240-182077-2	MW-102S_031423	86
240-182162-C-5 MSD	Matrix Spike Duplicate	95
240-182162-F-5 MS	Matrix Spike	82
LCS 240-566034/4	Lab Control Sample	86
MB 240-566034/6	Method Blank	83

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-182077-1

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

Lab Sample ID: MB 240-566543/7

Matrix: Water

Analysis Batch: 566543

Client Sample ID: Method Blank

Prep Type: Total/NA

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

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

Lab Sample ID: LCS 240-566543/4

Matrix: Water

Analysis Batch: 566543

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
cis-1,2-Dichloroethene	25.0	23.9		ug/L		96	77 - 123
Tetrachloroethene	25.0	26.8		ug/L		107	76 - 123
trans-1,2-Dichloroethene	25.0	23.8		ug/L		95	75 - 124
Trichloroethene	25.0	24.3		ug/L		97	70 - 122
Vinyl chloride	12.5	9.62		ug/L		77	60 - 144

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

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

Matrix: Water

Analysis Batch: 566543

Client Sample ID: Matrix Spike

Prep Type: Total/NA

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

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

QC Sample Results

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

Job ID: 240-182077-1

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

Lab Sample ID: 240-182089-E-2 MS
Matrix: Water
Analysis Batch: 566543

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

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

Lab Sample ID: 240-182089-F-2 MSD
Matrix: Water
Analysis Batch: 566543

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

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

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

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

Lab Sample ID: MB 240-566034/6
Matrix: Water
Analysis Batch: 566034

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

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

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

Lab Sample ID: LCS 240-566034/4
Matrix: Water
Analysis Batch: 566034

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

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

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

Lab Sample ID: 240-182162-C-5 MSD
Matrix: Water
Analysis Batch: 566034

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

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

Eurofins Canton

QC Sample Results

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

Job ID: 240-182077-1

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

<i>Surrogate</i>	<i>MSD</i> <i>%Recovery</i>	<i>MSD</i> <i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	95		66 - 120

Lab Sample ID: 240-182162-F-5 MS
Matrix: Water
Analysis Batch: 566034

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

<i>Analyte</i>	<i>Sample</i> <i>Result</i>	<i>Sample</i> <i>Qualifier</i>	<i>Spike</i> <i>Added</i>	<i>MS</i> <i>Result</i>	<i>MS</i> <i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec</i> <i>Limits</i>
1,4-Dioxane	2.0	U	10.0	11.1		ug/L		111	51 - 153

<i>Surrogate</i>	<i>MS</i> <i>%Recovery</i>	<i>MS</i> <i>Qualifier</i>	<i>Limits</i>
1,2-Dichloroethane-d4 (Surr)	82		66 - 120

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QC Association Summary

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

Job ID: 240-182077-1

GC/MS VOA

Analysis Batch: 566034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-182077-2	MW-102S_031423	Total/NA	Water	8260D SIM	
MB 240-566034/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-566034/4	Lab Control Sample	Total/NA	Water	8260D SIM	
240-182162-C-5 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D SIM	
240-182162-F-5 MS	Matrix Spike	Total/NA	Water	8260D SIM	

Analysis Batch: 566543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-182077-1	TRIP BLANK_111	Total/NA	Water	8260D	
240-182077-2	MW-102S_031423	Total/NA	Water	8260D	
MB 240-566543/7	Method Blank	Total/NA	Water	8260D	
LCS 240-566543/4	Lab Control Sample	Total/NA	Water	8260D	
240-182089-E-2 MS	Matrix Spike	Total/NA	Water	8260D	
240-182089-F-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 240-182077-1

Client Sample ID: TRIP BLANK_111

Lab Sample ID: 240-182077-1

Date Collected: 03/14/23 00:00

Matrix: Water

Date Received: 03/17/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	566543	BAJ	EET CAN	03/23/23 18:07

Client Sample ID: MW-102S_031423

Lab Sample ID: 240-182077-2

Date Collected: 03/14/23 11:15

Matrix: Water

Date Received: 03/17/23 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	566543	BAJ	EET CAN	03/23/23 22:18
Total/NA	Analysis	8260D SIM		1	566034	BAJ	EET CAN	03/20/23 17:27

Laboratory References:

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



Accreditation/Certification Summary

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

Job ID: 240-182077-1

Laboratory: Eurofins Canton

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

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

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



Chain of Custody Record

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

Regulatory program: DW NPDES RCRA Other

Client Contact: Arcadis
Address: 28550 Cabot Drive, Suite 500
City/State/Zip: Novi, MI, 48377
Phone: 248-994-2240

Client Project Manager: Kris Hinskey
Telephone: 248-994-2240
Email: kristoffer.hinskey@arcadis.com

Lab Contact: Mike DeMonico
Telephone: 330-497-9396

COC No: 1 of 1 COCs
For lab use only

Sampler Name: *Jeanette Squibler*
Method of Shipment/Carrier:
Shipping/Tracking No:

Analysis Turnaround Time:
TAT if different from below:
 3 weeks
 2 weeks
 1 week
 2 days
 1 day

Containers & Preservatives:
 HCl HNO3 H2SO4
 NaOH ZnAc NaOH
 Uppres: Other:

Sample Identification	Sample Date	Sample Time	Matrix			Filtered Sample (Y/N)			Analyses			Sample Specific Notes / Special Instructions:	
			Air	Aqueous	Solid	Other:	Composite=C / Grab=G	1,1-DCE 8260B	Cis-1,2-DCE 8260B	Trans-1,2-DCE 8260B	PCE 8260B		TCE 8260B
TRIP BLANK_101	---	---	1				NG	X	X	X	X	X	1 Trip Blank
MW-1025-031423	3/14/23	11:15	6				NG	X	X	X	X	X	3 VOAs for 8260B 3 VOAs for 8260B SIM



Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments:
 Sample Address: ROSATIKOW
 Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631
 Level IV Reporting requested.

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
<i>Jeanette Squibler</i>	Arcadis	3/14/23 16:08	<i>NOVA cold storage</i>	Arcadis	3/14/23 16:08
<i>Jeanette Squibler</i>	Arcadis	3/16/23 15:11	<i>Jody Mc</i>	EENA	3/16/23
<i>Jody Mc</i>	EENA	3/16/23	<i>Mandy Blk</i>	EENA	3-17-23 8:00

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Barberton Facility

Client Arcadis Site Name Cooler unpacked by: Mandaly
Cooler Received on 3-17-23 Opened on 3-17-23
FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off Eurofins Courier Other

Receipt After-hours: Drop-off Date/Time Storage Location

Eurofins Cooler # 20712 Foam Box Client Cooler Box Other

Packing material used: Bubble Wrap Foam Plastic Bag None Other
COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt
IR GUN # IR-13 (CF -0.2 °C) Observed Cooler Temp. 3.8 °C Corrected Cooler Temp. 3.6 °C
IR GUN # IR-16 (CF -0.1 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C
IR GUN # IR-17 (CF -0.3 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C

- 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity
-Were the seals on the outside of the cooler(s) signed & dated?
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg MeHg)?
-Were tamper/custody seals intact and uncompromised?
3. Shippers' packing slip attached to the cooler(s)?
4. Did custody papers accompany the sample(s)?
5. Were the custody papers relinquished & signed in the appropriate place?
6. Was/were the person(s) who collected the samples clearly identified on the COC?
7. Did all bottles arrive in good condition (Unbroken)?
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?
10. Were correct bottle(s) used for the test(s) indicated?
11. Sufficient quantity received to perform indicated analyses?
12. Are these work share samples and all listed on the COC?
13. Were all preserved sample(s) at the correct pH upon receipt?
14. Were VOAs on the COC?
15. Were air bubbles >6 mm in any VOA vials?
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #
17. Was a LL Hg or Me Hg trip blank present?

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM Date by via Verbal Voice Mail Other

Concerning

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page Samples processed by:

Blank lines for Chain of Custody and Sample Discrepancies.

19. SAMPLE CONDITION

Sample(s) were received after the recommended holding time had expired.
Sample(s) were received in a broken container.
Sample(s) MW-10755-031423 were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) were further preserved in the laboratory.
Time preserved: Preservative(s) added/Lot number(s):

VOA Sample Preservation - Date/Time VOAs Frozen:

DATA VERIFICATION REPORT



March 29, 2023

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

CADENA project ID: E203631
Project: Ford Livonia Transmission Project - OFF-SITE - Soil Gas and Groundwater
Project number: 30167538.402.04 off-site
Event Specific Scope of Work References: Sample COC
Laboratory: Eurofins Environment Testing LLC - Barberton
Laboratory submittal: 182077-1
Sample date: 2023-03-14
Report received by CADENA: 2023-03-29
Initial Data Verification completed by CADENA: 2023-03-29
Number of Samples:2
Sample Matrices:Water
Test Categories:GCMS VOC
Please see attached criteria report or sample result/qualified analytical result summary for qualifier flags assigned to sample data.

There were no significant QC anomalies or exceptions to report.

Sample/MS/MSD Surrogate Recovery, Blank/LCS Surrogate Recovery, LCS/LCD Recovery, Blank Contamination and Hold Time Exception were reviewed as part of our verification.

Data verification for the report specified above was completed using the Ford Motor Company Environmental Laboratory Technical Specification, the CADENA Standard Operating Procedure for the Verification of Environmental Analytical Data and the associated analytical methods as references for evaluating the batch QC, sample data and report content. The EPA National Functional Guidelines for validating organic and inorganic data were used as guidance when addressing out of control QC results and the associated data qualifiers.

The definitions of the qualifiers used for this data package are defined in the analytical report. CADENA valid qualifiers are defined in the table below. To view and download a PDF copy of the laboratory analytical report access the CADENA CLMS at <http://clms.cadenaco.com/index.cfm>.

Please contact me if you have any questions.

Sincerely,

Jim Tomalia

Project Scientist

CADENA Valid Qualifiers

Valid Qualifiers	Description
<	Less than the reported concentration.
>	Greater than the reported concentration.
B	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 contaminants) 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.
E	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 contaminants) the blank concentration and is considered non-detect at the RDL. For Inorganic methods the sample concentration was less than the RDL and less than 10x the blank concentration and is considered non-detect at the RDL.
UJ	The analyte / compound was not detected above the reported sample Quantitation limit. However, the Quantitation limit is considered to be approximate due to associated quality assurance results and may or may not represent the actual limit of Quantitation to accurately and precisely report the analyte in the sample.

Analytical Results Summary

CADENA Project ID: E203631

Laboratory: Eurofins Environment Testing LLC - Barberton

Laboratory Submittal: 182077-1

Sample Name: TRIP BLANK_111 MW-102S_031423
 Lab Sample ID: 2401820771 2401820772
 Sample Date: 3/14/2023 3/14/2023

Analyte	Cas No.	Report		Units	Valid Qualifier	Report		Units	Valid Qualifier
		Result	Limit			Result	Limit		
GC/MS VOC									
<u>OSW-8260D</u>									
1,1-Dichloroethene	75-35-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---
cis-1,2-Dichloroethene	156-59-2	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Tetrachloroethene	127-18-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---
trans-1,2-Dichloroethene	156-60-5	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Trichloroethene	79-01-6	ND	1.0	ug/l	---	ND	1.0	ug/l	---
Vinyl chloride	75-01-4	ND	1.0	ug/l	---	ND	1.0	ug/l	---
<u>OSW-8260DSIM</u>									
1,4-Dioxane	123-91-1					ND	2.0	ug/l	---

Ford Motor Company – Livonia Transmission Project

Data Review

Livonia, Michigan

Volatile Organic Compounds (VOC) Analysis

SDG # 240-182077-1

CADENA Verification Report: 2023-03-29

Analyses Performed By:

Eurofins

North Canton, Ohio

Report # 49183R

Review Level: Tier III

Project: 30167538.601.01

DATA REVIEW

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-182077-1 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 Collection Date	Parent Sample	Analysis	
					VOC	VOC SIM
TRIP BLANK_111	240-182077-1	Water	03/14/23		X	
MW-102S_031423	240-182077-2	Water	03/14/23		X	X

DATA REVIEW

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

Items Reviewed	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
1. Sample receipt condition		X		X	
2. Requested analyses and sample results		X		X	
3. Master tracking list		X		X	
4. Methods of analysis		X		X	
5. Reporting limits		X		X	
6. Sample collection date		X		X	
7. Laboratory sample received date		X		X	
8. Sample preservation verification (as applicable)		X		X	
9. Sample preparation/extraction/analysis dates		X		X	
10. Fully executed Chain-of-Custody (COC) form		X		X	
11. Narrative summary of Quality Assurance or sample problems provided		X		X	
12. Data Package Completeness and Compliance		X		X	

DATA REVIEW

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.

DATA REVIEW

VOLATILE ORGANIC COMPOUND (VOC) ANALYSES

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
SW-846 8260D/8260D-SIM	Water	14 days from collection to analysis	Cool to < 6 °C; pH < 2 with HCl

All samples were analyzed within the specified holding time criteria.

2. Mass Spectrometer Tuning

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

System performance and column resolution were acceptable.

3. Calibration

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

3.1 Initial Calibration

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

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

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

3.2 Continuing Calibration

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

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

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

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

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

DATA REVIEW

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	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)					
Tier II Validation					
Holding times/Preservation		X		X	
Tier III Validation					
System performance and column resolution		X		X	
Initial calibration %RSDs		X		X	
Continuing calibration RRFs		X		X	
Continuing calibration %Ds		X		X	
Instrument tune and performance check		X		X	
Ion abundance criteria for each instrument used		X		X	
Field Duplicate RPD	X				X
Internal standard		X		X	
Compound identification and quantitation					
A. Reconstructed ion chromatograms		X		X	
B. Quantitation Reports		X		X	
C. RT of sample compounds within the established RT windows		X		X	
D. Transcription/calculation errors present		X		X	
E. Reporting limits adjusted to reflect sample dilutions		X		X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

DATA REVIEW

VALIDATION PERFORMED BY: Hrishikesh Upadhyaya

SIGNATURE: 

DATE: March 30, 2023

PEER REVIEW: Andrew Korycinski

DATE: March 30, 2023

**NO CORRECTIONS/QUALIFIERS 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

Client Contact		Regulatory program:									TestAmerica Laboratories, Inc.													
Company Name: Arcadis		Regulatory program: <input type="checkbox"/> DW <input type="checkbox"/> NPDES <input type="checkbox"/> RCRA <input type="checkbox"/> Other									COC No:													
Address: 28550 Cabot Drive, Suite 500		Client Project Manager: Kris Hinskey			Site Contact: Christina Weaver			Lab Contact: Mike DelMonico			1 of 1 COCs													
City/State/Zip: Novi, MI, 48377		Telephone: 248-994-2240			Telephone: 248-994-2240			Telephone: 330-497-9396			For lab use only													
Phone: 248-994-2240		Email: kristoffer.hinskey@arcadis.com						Analysis Turnaround Time			Analyses													
Project Name: Ford LTP Off-Site		Sampler Name: <i>Samantha Separduler</i>			TAT if different from below 10 day <input checked="" type="checkbox"/> 3 weeks <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day			Filtered Sample (Y/N) Composite=C/Grab=G			1,1-DCE 8260B cis-1,2-DCE 8260B Trans-1,2-DCE 8260B PCE 8260B TCE 8260B Vinyl Chloride 8260B 1,4-Dioxane 8260B SIM						Walk-in client							
Project Number: 30167538.402.04		Method of Shipment/Carrier:			Shipping/Tracking No:												Job/SDG No:							
PO # 30167538.402.04		Sample Identification		Sample Date	Sample Time	Matrix				Containers & Preservatives				Sample Specific Notes / Special Instructions:										
		Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl	NaOH	ZnAc	NaOH	Unpres	Other:										
TRIP BLANK_101				---	1				1						NG	X	X	X	X	X	X			1 Trip Blank
mw-1025_031423				3/14/23	11:15	6			6						NG	X	X	X	X	X	X			3 VOAs for 8260B 3 VOAs for 8260B SIM
Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown												Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months												
Special Instructions/QC Requirements & Comments: Sample Address: ROSATI ROW Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.																								
Relinquished by: <i>Samantha Separduler</i>				Company: <i>Arcadis</i>				Date/Time: <i>3/14/23 16:08</i>				Received by: <i>Novi cold storage</i>				Company: <i>Arcadis</i>				Date/Time: <i>3/14/23 16:08</i>				
Relinquished by: <i>Samantha Separduler</i>				Company: <i>Arcadis</i>				Date/Time: <i>3/16/23 15:11</i>				Received by: <i>Lolly Mc</i>				Company: <i>EENA</i>				Date/Time: <i>3/16/23</i>				
Relinquished by: <i>Lolly Mc</i>				Company: <i>EENA</i>				Date/Time: <i>3/16/23</i>				Received in Laboratory by: <i>Mandy Bl</i>				Company: <i>etc</i>				Date/Time: <i>3-17-23 8:00</i>				



Page 367 of 368

03/29/2023

Client Sample Results

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

Job ID: 240-182077-1

Client Sample ID: TRIP BLANK_111

Lab Sample ID: 240-182077-1

Date Collected: 03/14/23 00:00

Matrix: Water

Date Received: 03/17/23 08:00

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			03/23/23 18:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/23/23 18:07	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/23/23 18:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/23/23 18:07	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/23/23 18:07	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/23/23 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		62 - 137		03/23/23 18:07	1
4-Bromofluorobenzene (Surr)	89		56 - 136		03/23/23 18:07	1
Toluene-d8 (Surr)	96		78 - 122		03/23/23 18:07	1
Dibromofluoromethane (Surr)	93		73 - 120		03/23/23 18:07	1

Client Sample ID: MW-102S_031423

Lab Sample ID: 240-182077-2

Date Collected: 03/14/23 11:15

Matrix: Water

Date Received: 03/17/23 08:00

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			03/20/23 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		66 - 120		03/20/23 17:27	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			03/23/23 22:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			03/23/23 22:18	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			03/23/23 22:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			03/23/23 22:18	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			03/23/23 22:18	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			03/23/23 22:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		62 - 137		03/23/23 22:18	1
4-Bromofluorobenzene (Surr)	87		56 - 136		03/23/23 22:18	1
Toluene-d8 (Surr)	93		78 - 122		03/23/23 22:18	1
Dibromofluoromethane (Surr)	93		73 - 120		03/23/23 22:18	1