

Environment Testing America

ANALYTICAL REPORT

Eurofins TestAmerica, Canton 4101 Shuffel Street NW North Canton, OH 44720 Tel: (330)497-9396

Laboratory Job ID: 240-148876-1 Client Project/Site: Ford LTP - Off Site

For:

ARCADIS U.S., Inc. 28550 Cabot Drive Suite 500 Novi, Michigan 48377

Attn: Kristoffer Hinskey

Mode Del Your

Authorized for release by: 5/21/2021 11:06:01 AM

Michael DelMonico, Project Manager I (330)497-9396

Michael.DelMonico@Eurofinset.com

·····LINKS ······

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Laboratory Job ID: 240-148876-1

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Method Summary	5
Sample Summary	6
Detection Summary	7
Client Sample Results	8
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	13
Lab Chronicle	14
Certification Summary	15
Chain of Custody	16

3

4

9

10

12

13

Definitions/Glossary

Client: ARCADIS U.S., Inc.

Job ID: 240-148876-1

Project/Site: Ford LTP - Off Site

Qualifiers

GC/MS VOA Qualifier Qualifie

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: ARCADIS U.S., Inc.

Job ID: 240-148876-1

Project/Site: Ford LTP - Off Site

Job ID: 240-148876-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative 240-148876-1

Comments

No additional comments.

Receipt

The samples were received on 5/7/2021 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 was 1.7° C.

GC/MS VOA

Method 8260B: No MS/MSD in batch 486030 due to another analysis needed on the parent sample.Internal standard area fell: TRIP BLANK 30 (240-148876-1) and MW-147S 050521 (240-148876-2).

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

VOA Prep

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

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Method Summary

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

Job ID: 240-148876-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8260B SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
5030B	Purge and Trap	SW846	TAL CAN

Protocol References:

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

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

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Sample Summary

Client: ARCADIS U.S., Inc. Project/Site: Ford LTP - Off Site Job ID: 240-148876-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-148876-1	TRIP BLANK_30	Water	05/05/21 00:00	05/07/21 08:00	
240-148876-2	MW-147S_050521	Water	05/05/21 09:31	05/07/21 08:00	

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Detection Summary

Client: ARCADIS U.S., Inc.

Job ID: 240-148876-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_30 Lab Sample ID: 240-148876-1

No Detections.

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Vinyl chloride	1.0	1.0	0.20 ug/L		8260B	Total/NA

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-148876-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_30

Date Collected: 05/05/21 00:00 Date Received: 05/07/21 08:00 Lab Sample ID: 240-148876-1

Matrix: Water

Method: 8260B - Volatile O	•	unds (GC/I Qualifier	IVIS) RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
							Fiepaieu		Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/17/21 10:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/17/21 10:08	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/17/21 10:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/17/21 10:08	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/17/21 10:08	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/17/21 10:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		75 - 130					05/17/21 10:08	1
4-Bromofluorobenzene (Surr)	67		47 - 134					05/17/21 10:08	1
Toluene-d8 (Surr)	82		69 - 122					05/17/21 10:08	1
Dibromofluoromethane (Surr)	99		78 - 129					05/17/21 10:08	1

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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-148876-1

Project/Site: Ford LTP - Off Site

Client Sample ID: MW-147S_050521

Date Collected: 05/05/21 09:31 Date Received: 05/07/21 08:00 Lab Sample ID: 240-148876-2

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			05/11/21 17:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		70 - 133					05/11/21 17:58	1
Method: 8260B - Volatile O	rganic Compo	unds (GC/I	MS)						
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/17/21 10:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/17/21 10:30	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/17/21 10:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/17/21 10:30	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/17/21 10:30	1
Vinyl chloride	1.0		1.0	0.20	ug/L			05/17/21 10:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		75 - 130					05/17/21 10:30	1
4-Bromofluorobenzene (Surr)	67		47 - 134					05/17/21 10:30	1
Toluene-d8 (Surr)	84		69 - 122					05/17/21 10:30	1
Dibromofluoromethane (Surr)	101		78 - 129					05/17/21 10:30	1

5/21/2021

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Surrogate Summary

Client: ARCADIS U.S., Inc. Job ID: 240-148876-1

Project/Site: Ford LTP - Off Site

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

Matrix: Water Prep Type: Total/NA

	ercent Surre	ogate Rec			
		DCA	BFB	TOL	DBFM
Lab Sample ID	Client Sample ID	(75-130)	(47-134)	(69-122)	(78-129)
240-148876-1	TRIP BLANK_30	109	67	82	99
240-148876-2	MW-147S_050521	108	67	84	101
LCS 240-486030/4	Lab Control Sample	90	96	92	89
MB 240-486030/7	Method Blank	106	69	81	101

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

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

Matrix: Water Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		DCA							
Lab Sample ID	Client Sample ID	(70-133)							
240-148876-2	MW-147S_050521	81							
240-149041-H-2 MS	Matrix Spike	83							
240-149041-N-2 MSD	Matrix Spike Duplicate	82							
LCS 240-485164/4	Lab Control Sample	81							
MB 240-485164/5	Method Blank	81							

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

Eurofins TestAmerica, Canton

Client: ARCADIS U.S., Inc. Job ID: 240-148876-1

Project/Site: Ford LTP - Off Site

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

MB MB Result Qualifier

Lab Sample ID: MB 240-486030/7

Matrix: Water

Analyte

Analysis Batch: 486030

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

1,1-Dichloroethene 1.0 U 1.0 cis-1,2-Dichloroethene 1.0 U 1.0 0.16 ug/L 05/17/21 09:46 1.0 U Tetrachloroethene 1.0 0.15 ug/L 05/17/21 09:46 0.19 ug/L trans-1,2-Dichloroethene 1.0 U 1.0 05/17/21 09:46 Trichloroethene 10 U 1.0 0.10 ug/L 05/17/21 09:46 Vinyl chloride 0.20 ug/L 05/17/21 09:46 1.0 U 1.0

RL

MB MB Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 106 1,2-Dichloroethane-d4 (Surr) 75 - 130 05/17/21 09:46 4-Bromofluorobenzene (Surr) 69 47 - 134 05/17/21 09:46 81 69 - 122 Toluene-d8 (Surr) 05/17/21 09:46 Dibromofluoromethane (Surr) 101 78 - 129 05/17/21 09:46

Lab Sample ID: LCS 240-486030/4

Matrix: Water

Analysis Batch: 486030

Client Sample ID: Lab Control Sample Prep Type: Total/NA 10

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit %Rec Limits 10.0 73 - 129 1,1-Dichloroethene 9.38 ug/L 94 cis-1.2-Dichloroethene 10.0 9.75 ug/L 98 75 - 124 Tetrachloroethene 9.85 10.0 ug/L 98 70 - 125 74 - 130 trans-1.2-Dichloroethene 10.0 10.3 ug/L 103 Trichloroethene 10.0 9.20 92 71 - 121 ug/L Vinyl chloride 10.0 10.9 ug/L 109 61 - 134

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 90 75 - 130 4-Bromofluorobenzene (Surr) 96 47 - 134 Toluene-d8 (Surr) 92 69 - 122 78 - 129 Dibromofluoromethane (Surr) 89

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

81

Lab Sample ID: MB 240-485164/5

Matrix: Water

Client Sample ID: Method Blank

Prep Type: Total/NA

Analysis Batch: 485164

1,2-Dichloroethane-d4 (Surr)

7 maryolo Batom 400104	МВ	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.0	U	2.0	0.86	ug/L			05/11/21 14:15	1
	МВ	МВ							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

70 - 133

Eurofins TestAmerica, Canton

5/21/2021

05/11/21 14:15

Client: ARCADIS U.S., Inc. Job ID: 240-148876-1

Project/Site: Ford LTP - Off Site

Lab Sample ID: LCS 240-485164/4

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

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

10

Prep Type: Total/NA

Matrix: Water Analysis Batch: 485164

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits

1,4-Dioxane 10.0 10.5 ug/L 105 80 - 135

LCS LCS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 70 - 133 81

Lab Sample ID: 240-149041-H-2 MS **Client Sample ID: Matrix Spike** Prep Type: Total/NA

Matrix: Water Analysis Batch: 485164

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 1,4-Dioxane 2.0 U 10.0 10.1 ug/L 101 46 - 170

MS MS Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 70 - 133 83

Lab Sample ID: 240-149041-N-2 MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Water

Analysis Batch: 485164

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 1,4-Dioxane 2.0 U 10.0 10.0 ug/L 100 46 - 170

MSD MSD Surrogate %Recovery Qualifier Limits 1,2-Dichloroethane-d4 (Surr) 82 70 - 133

5/21/2021

QC Association Summary

Client: ARCADIS U.S., Inc. Job ID: 240-148876-1 Project/Site: Ford LTP - Off Site

GC/MS VOA

Analysis Batch: 485164

Lab Sample ID 240-148876-2	Client Sample ID MW-147S_050521	Prep Type Total/NA	Matrix Water	Method 8260B SIM	Prep Batch
MB 240-485164/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-485164/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-149041-H-2 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-149041-N-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Analysis Batch: 486030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-148876-1	TRIP BLANK_30	Total/NA	Water	8260B	
240-148876-2	MW-147S_050521	Total/NA	Water	8260B	
MB 240-486030/7	Method Blank	Total/NA	Water	8260B	
LCS 240-486030/4	Lab Control Sample	Total/NA	Water	8260B	

Lab Chronicle

Client: ARCADIS U.S., Inc. Job ID: 240-148876-1

Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_30

Lab Sample ID: 240-148876-1 Date Collected: 05/05/21 00:00

Matrix: Water

Date Received: 05/07/21 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	486030	05/17/21 10:08	LEE	TAL CAN

Client Sample ID: MW-147S_050521

Lab Sample ID: 240-148876-2

Date Collected: 05/05/21 09:31 **Matrix: Water**

Date Received: 05/07/21 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	486030	05/17/21 10:30	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	485164	05/11/21 17:58	CS	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: ARCADIS U.S., Inc. Job ID: 240-148876-1

Project/Site: Ford LTP - Off Site

Laboratory: Eurofins TestAmerica, 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	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-22
Illinois	NELAP	004498	07-31-21
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21 *
Kentucky (UST)	State	112225	02-23-21 *
Kentucky (WW)	State	KY98016	12-31-21
Minnesota	NELAP	OH00048	12-31-21
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-22
Ohio VAP	State	CL0024	12-21-23
Oregon	NELAP	4062	02-23-22
Pennsylvania	NELAP	68-00340	08-31-21
Texas	NELAP	T104704517-18-10	08-31-21
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-21
Washington	State	C971	01-12-22
West Virginia DEP	State	210	12-31-21

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

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Chain of Custody Record

MICHI TestAmerica

Test/	America Labora	itory location:	Brig	hton -	1044	18 Citati	on Dri	ve, S	Suite 2	200 /	/ Brig	ghtor	n, MI 48	116	/ 810	-229-	2763			M	IIC	. الر	σ_0			THE LEAD	DER IN ENVIRONM	ENTAL TESTIN
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	Telephone: 248	-994-2240					Tele	ephoi	ne: 73	34-64	14-51	31					Telep	hone:	330-4	97-93	96	_			,	_		
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Sample Identification	Sample Date	Sample Time	Air	Aqueous	Sediment Solid	Other:	H2SO4	HN03	HCI	NaOH	ZnAci	Unpres	Other:	ilter	u o	1,1-DCE 8260B	S-1.	ans	PCE 8260B	TCE 8260B	Vinyl Chloride	1,4-Dioxane					Special Instru	
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Possible Hazard Identification																												
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Special Instructions/QC Requirements & Comments:													, ,	- aprox	, an Loy	Late		/ /	Temve	1011		IVI	onuis					
Submit all results through Cadena at jtomalia@cadenaco. Level IV Reporting requested.	com. Cadena #	E203631																										
Relinquished by:	Company	 ad/S		Date/	Sime:		17.	00	I	Rece	ived	by:	9V1	P	010	1	St	200	- 1	Comp	any:	٨؞	اه ۾	_		Date/	Time: \$/\$/21	1700
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Eurofins TestAmerica Canton Sample Receipt Form/Narrative Canton Facility	Login # : 14876
Client ARCADIS Site Name	Cooler unpacked by:
Cooler Received on 5.7-21 Opened on 5.7-21	
FedEx: 1" Grd Exp UPS FAS Chipper Client Drop Off TestAmerica Courier	Other
Receipt After-hours: Drop-off Date/Time Storage Location	Other
COOLANT: Wet Ice Blue Ice Dry Ice Water None	
1. Cooler temperature upon receipt See Multiple Cooler For	
IR GUN# IR-11 (CF +0.1 °C) Observed Cooler Temp. 1-6 °C Corrected Cooler IR GUN #IR-12 (CF +0.2 °C) Observed Cooler Temp. °C Corrected Cooler Temp.	
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity / Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	No NA Tests that are not checked for pH by
	(No Receiving:
	No NA
	No VOAs Oil and Grease
4. Did custody papers accompany the sample(s)?	TOC
	No
	No No
	No
9. For each sample, does the COC specify preservatives (YN), # of containers (YN), and sa	
	No
11. Sufficient quantity received to perform indicated analyses?	
	(N)
If yes, Questions 13-17 have been checked at the originating laboratory.	
	No NA pH Strip Lot# HC022887
	No
	NA NA
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?Yes	(No
Contacted PM Date by via Verbal Ve	oice Mail Other
Concerning	
18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES additional next page	Samples processed by:
19. SAMPLE CONDITION	
Sample(s) were received after the recommended holding	ng time had expired.
Sample(s) were received	in a broken container.
Sample(s) were received with bubble >6 mm in	diameter. (Notify PM)
20. SAMPLE PRESERVATION	
Sample(s)	her preserved in the laboratory
Sample(s) were furt Time preserved: Preservative(s) added/Lot number(s):	net preserved in the laboratory.
VOA Sample Preservation - Date/Time VOAs Frozen:	

WI-NC-099

DATA VERIFICATION REPORT



May 22, 2021

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: 30080642.402.04_W01 OFF-SITE GW Event Specific Scope of Work References: Sample COC

Laboratory: TestAmerica - North Canton

Laboratory submittal: 148876-1 Sample date: 2021-05-05

Report received by CADENA: 2021-05-21

Initial Data Verification completed by CADENA: 2021-05-22

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:

GCMS VOC QC batch MS/MSD issues 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 http://clms.cadenaco.com/index.cfm.

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

Reportable Results Only

CADENA Project ID: E203631

Laboratory: TestAmerica - North Canton

Laboratory Submittal: 148876-1

		Sample Name: Lab Sample ID: Sample Date:	TRIP BLA 2401488 5/5/202	3761			MW-147 2401488 5/5/202			
				Report		Valid		Report		Valid
	Analyte	Cas No.	Result	Limit	Units	Qualifier	Result	Limit	Units	Qualifier
GC/MS VOC										
OSW-8260	<u>0B</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		1.0	1.0	ug/l	
OSW-8260	<u>OBBSim</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 # 240-148876-1

CADENA Verification Report: 2021-05-22

Analyses Performed By: TestAmerica

North Canton, Ohio

Report # 41503R Review Level: Tier III Project: 30080642.402.04

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Group (SDG) # 240-148876-1 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) includes a detailed review of laboratory raw data to check for errors in calculation, calibration review, internal standard review and compound identification) and omitted deviations from the CADENA verification/Tier II report are documented in this report. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the validation annotated sample result sheets, and chain of custody. Analyses were performed on the following samples:

		Sample Collection			Ana	lysis		
Sample ID	Lab ID	Matrix	Date	Parent Sample	voc	VOC SIM		
TRIP BLANK_30	240-148876-1	Water	05/05/2021		Х			
MW-147S_050521	240-148876-2	Water	05/05/2021		X	X		

ANALYTICAL DATA PACKAGE DOCUMENTATION

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

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

ORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Method 8260B and 8260B SIM. Data were reviewed in accordance with USEPA National Functional Guidelines of October 1999.

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.
 - J+ The result is an estimated quantity, but the result may be biased high.
 - J- The result is an estimated quantity, but the result may be biased low.
 - UB Analyte considered non-detect at the listed value due to associated blank contamination.
 - N The analysis indicates the presence of a compound for which there is presumptive evidence to make a tentative identification.
 - 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 8260B/8260B-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 calibrations were within the specified control limits.

4. Internal Standard Performance

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

All internal standard responses were within control limits.

5. Field Duplicate Analysis

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

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

6. Compound Identification

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

All identified compounds met the specified criteria.

7. System Performance and Overall Assessment

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

DATA VALIDATION CHECKLIST FOR VOCs

Rep	orted		Not	
No	Yes	No	Yes	Required
C/MS)		_		
	Х		Х	
				-
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
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	Х		Х	
	Х		X	
	Х		Х	
	Х		Х	
	Х		Х	
	Х		Х	
	No C/MS)	X X X X X X X X X X X X X	Reported Acce No Yes No CC/MS) X X X X X X X X X X X X X	

Notes:

%RSD Relative standard deviation

%R Percent recovery

RPD Relative percent difference

%D Percent difference

VALIDATION PERFORMED BY: Hrishikesh Upadhyaya

SIGNATURE:

DATE: June 01, 2021

Circlichal

PEER REVIEW: Andrew Korycinski

DATE: June 02, 2021

NO CORRECTIONS/QUALIFERS ADDED TO SAMPLE ANALYSIS DATA SHEETS

CHAIN OF CUSTODY CORRECTED SAMPLE ANALYSIS DATA SHEETS

.611.7

Chain of Custody Record

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

MICHI 190

TestAmerica

The Leader IN ENVIRONMENTAL TESTING

Client Contact	Regulat	ory program:		_	DW		ſ"	NPD	ES		F R	CRA		Oth	er						+	90	1					
Company Name: Arcadis	Client Project !	lanager: Kris l	Hinske	v			Site	Conto	et: I	nlio !	McCl	ifferty			_	h ak (Santa.	4. 3.421	. D.F	Monic						stAmerica L	aboratori	ies, Inc.
Address: 28550 Cabot Drive, Suite 500												interty														C No:	_	
City/State/Zip: Novi, MI, 48377	Telephone: 248	-994-ZZ40					Tele	phon	e: 734	4-644	1-5131					Telep	hone:	330-4	97-93	96					-	1 of 1	COC	Cs
Phone: 248-994-2240	Email: kristoff	er.hi n skey@arc	cadis.c	om			1	Analy	sis T	urna	round	Time	-						A	nalys	es				For	lab use only		
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				Ma	trix			Cont	ainers	& Pi	reserva	tivee	Sample (Y / N)	Composite=C / Grab=G	808	8260B	SE			Vinyl Chloride 8260B	826							
								T	T	1	T	TIVES	Saz	site	1,1-DCE 8260B	cis-1,2-DCE	,2-D	PCE 8260B	TCE 8260B	nloric	xane	İ						
				Aqueous	Solid	per:	H2SO4	HN03	5 T	NaOH	NaOH	Other:	Filtered	odu	βĢ	-1.2-	ns-1	E 82	E 82	2	-Dio					Sample Sp Special II		
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Non-Hazard Special Instructions/QC Requirements & Comments:	Poiso	n B	Unkno	own						to C		▼ D						rchive				nths						
Submit all results through Cadena at jtomalia@cadenaco.	com Cadena#	F203631																										
Level IV Reporting requested.	John, Gudena A	LLUGUUT																										
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Relinquished by: On I. M. G. I. J. M. G. I. D. G.	Company:	1.		Date/Tin	ne:		^		R	Recen	ved by	VYVI	1	<u>()) (</u>	2		JI 4	1	Comp		100 21	ap	()		Dat	<u> 3/9/2</u> eTipre: 6	1)70	
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Client Sample Results

Client: ARCADIS U.S., Inc. Job ID: 240-148876-1 Project/Site: Ford LTP - Off Site

Client Sample ID: TRIP BLANK_30

Lab Sample ID: 240-148876-1

Date Collected: 05/05/21 00:00 **Matrix: Water** Date Received: 05/07/21 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/17/21 10:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/17/21 10:08	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/17/21 10:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/17/21 10:08	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/17/21 10:08	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/17/21 10:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		75 - 130					05/17/21 10:08	1
4-Bromofluorobenzene (Surr)	67		47 - 134					05/17/21 10:08	1
Toluene-d8 (Surr)	82		69 - 122					05/17/21 10:08	1
Dibromofluoromethane (Surr)	99		78 - 129					05/17/21 10:08	1

Client Sample ID: MW-147S_050521 Lab Sample ID: 240-148876-2

Date Collected: 05/05/21 09:31 Date Received: 05/07/21 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			05/11/21 17:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		70 - 133			-		05/11/21 17:58	1

ganic Compou	ınds (GC/MS	S)						
Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1.0	U	1.0	0.19	ug/L			05/17/21 10:30	1
1.0	U	1.0	0.16	ug/L			05/17/21 10:30	1
1.0	U	1.0	0.15	ug/L			05/17/21 10:30	1
1.0	U	1.0	0.19	ug/L			05/17/21 10:30	1
1.0	U	1.0	0.10	ug/L			05/17/21 10:30	1
1.0		1.0	0.20	ug/L			05/17/21 10:30	1
	Result 1.0 1.0 1.0 1.0 1.0 1.0	Result Qualifier 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U 1.0 U	1.0 U 1.0 1.0 U 1.0 1.0 U 1.0 1.0 U 1.0 1.0 U 1.0	Result Qualifier RL MDL 1.0 U 1.0 0.19 1.0 U 1.0 0.16 1.0 U 1.0 0.15 1.0 U 1.0 0.19 1.0 U 1.0 0.10	Result Qualifier RL MDL ug/L 1.0 U 1.0 0.19 ug/L 1.0 U 1.0 0.16 ug/L 1.0 U 1.0 0.15 ug/L 1.0 U 1.0 0.19 ug/L 1.0 U 1.0 0.10 ug/L	Result Qualifier RL MDL ug/L Unit D 1.0 U 1.0 0.19 ug/L ug/L 1.0 U 1.0 0.16 ug/L ug/L 1.0 U 1.0 0.19 ug/L ug/L 1.0 U 1.0 0.10 ug/L	Result Qualifier RL MDL ug/L Unit D Prepared 1.0 U 1.0 0.19 ug/L 1.0 U 1.0 0.16 ug/L 1.0 U 1.0 0.15 ug/L 1.0 U 1.0 0.19 ug/L 1.0 U 1.0 0.10 ug/L	Result Qualifier RL MDL ug/L D Prepared Analyzed 1.0 U 1.0 0.19 ug/L 05/17/21 10:30 1.0 U 1.0 0.16 ug/L 05/17/21 10:30 1.0 U 1.0 0.15 ug/L 05/17/21 10:30 1.0 U 1.0 0.19 ug/L 05/17/21 10:30 1.0 U 1.0 0.10 ug/L 05/17/21 10:30

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		75 - 130		05/17/21 10:30	1
4-Bromofluorobenzene (Surr)	67		47 - 134		05/17/21 10:30	1
Toluene-d8 (Surr)	84		69 - 122		05/17/21 10:30	1
Dibromofluoromethane (Surr)	101		78 - 129		05/17/21 10:30	1

Matrix: Water