

ANALYTICAL REPORT

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

Laboratory Job ID: 240-134642-1
Client Project/Site: Ford LTP Off-Site

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

Attn: Kristoffer Hinskey



Authorized for release by:
8/20/2020 9:48:07 AM

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

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Definitions/Glossary

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

Job ID: 240-134642-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
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

Case Narrative

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

Job ID: 240-134642-1

Job ID: 240-134642-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP Off-Site

Report Number: 240-134642-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Eurofins TestAmerica, Canton attests to the validity of the laboratory data generated by Eurofins TestAmerica facilities reported herein. All analyses performed by Eurofins TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. Eurofins TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to 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.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of Eurofins TestAmerica and its client.

RECEIPT

The samples were received on 8/7/2020 9:20 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 4.0° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TRIP BLANK (240-134642-1) and MW-96S_080320 (240-134642-2) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 08/14/2020.

cis-1,2-Dichloroethene failed the recovery criteria high for LCS 240-447176/4. Refer to the QC report for details.

The laboratory control sample (LCS) for 447176 recovered outside control limits for one or multiple analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported: TRIP BLANK (240-134642-1), MW-96S_080320 (240-134642-2) and (LCS 240-447176/4).

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

VOLATILE ORGANIC COMPOUNDS (GCMS SIM)

Sample MW-96S_080320 (240-134642-2) was analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846 Method 8260B SIM. The sample was analyzed on 08/11/2020.

Case Narrative

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

Job ID: 240-134642-1

Job ID: 240-134642-1 (Continued)

Laboratory: Eurofins TestAmerica, Canton (Continued)

An MS/MSD was done in 240-446478 however the sample and the MS/MSD could not be reported. The effected sample is MW-96S_080320 (240-134642-2).

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

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- 13
- 14

Method Summary

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

Job ID: 240-134642-1

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



Sample Summary

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

Job ID: 240-134642-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-134642-1	TRIP BLANK	Water	08/03/20 00:00	08/07/20 09:20	
240-134642-2	MW-96S_080320	Water	08/03/20 14:45	08/07/20 09:20	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

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

Job ID: 240-134642-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-134642-1

No Detections.

Client Sample ID: MW-96S_080320

Lab Sample ID: 240-134642-2

No Detections.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Client Sample Results

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

Job ID: 240-134642-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-134642-1

Date Collected: 08/03/20 00:00

Matrix: Water

Date Received: 08/07/20 09:20

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/14/20 12:58	1
cis-1,2-Dichloroethene	1.0	U *	1.0	0.38	ug/L			08/14/20 12:58	1
Tetrachloroethene	1.0	U	1.0	0.33	ug/L			08/14/20 12:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.43	ug/L			08/14/20 12:58	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/14/20 12:58	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/14/20 12:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		75 - 130		08/14/20 12:58	1
4-Bromofluorobenzene (Surr)	101		47 - 134		08/14/20 12:58	1
Toluene-d8 (Surr)	105		69 - 122		08/14/20 12:58	1
Dibromofluoromethane (Surr)	120		78 - 129		08/14/20 12:58	1

Client Sample Results

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

Job ID: 240-134642-1

Client Sample ID: MW-96S_080320

Lab Sample ID: 240-134642-2

Date Collected: 08/03/20 14:45

Matrix: Water

Date Received: 08/07/20 09:20

Method: 8260B 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			08/11/20 07:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		70 - 133		08/11/20 07:50	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/14/20 13:20	1
cis-1,2-Dichloroethene	1.0	U *	1.0	0.38	ug/L			08/14/20 13:20	1
Tetrachloroethene	1.0	U	1.0	0.33	ug/L			08/14/20 13:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.43	ug/L			08/14/20 13:20	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/14/20 13:20	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/14/20 13:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		75 - 130		08/14/20 13:20	1
4-Bromofluorobenzene (Surr)	103		47 - 134		08/14/20 13:20	1
Toluene-d8 (Surr)	103		69 - 122		08/14/20 13:20	1
Dibromofluoromethane (Surr)	116		78 - 129		08/14/20 13:20	1

Surrogate Summary

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

Job ID: 240-134642-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (75-130)	BFB (47-134)	TOL (69-122)	DBFM (78-129)
240-134642-1	TRIP BLANK	100	101	105	120
240-134642-2	MW-96S_080320	103	103	103	116
240-134647-C-6 MS	Matrix Spike	103	107	105	125
240-134647-D-6 MSD	Matrix Spike Duplicate	103	103	105	124
LCS 240-447176/4	Lab Control Sample	102	102	107	123
MB 240-447176/6	Method Blank	102	103	105	120

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)

Lab Sample ID	Client Sample ID	DCA (70-133)
240-134642-2	MW-96S_080320	83
LCS 240-446478/4	Lab Control Sample	77
MB 240-446478/5	Method Blank	79

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-134642-1

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

Lab Sample ID: MB 240-447176/6
Matrix: Water
Analysis Batch: 447176

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.46	ug/L			08/14/20 09:38	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.38	ug/L			08/14/20 09:38	1
Tetrachloroethene	1.0	U	1.0	0.33	ug/L			08/14/20 09:38	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.43	ug/L			08/14/20 09:38	1
Trichloroethene	1.0	U	1.0	0.36	ug/L			08/14/20 09:38	1
Vinyl chloride	1.0	U	1.0	0.50	ug/L			08/14/20 09:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		75 - 130		08/14/20 09:38	1
4-Bromofluorobenzene (Surr)	103		47 - 134		08/14/20 09:38	1
Toluene-d8 (Surr)	105		69 - 122		08/14/20 09:38	1
Dibromofluoromethane (Surr)	120		78 - 129		08/14/20 09:38	1

Lab Sample ID: LCS 240-447176/4
Matrix: Water
Analysis Batch: 447176

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	10.0	12.4		ug/L		124	73 - 129
cis-1,2-Dichloroethene	10.0	12.5	*	ug/L		125	75 - 124
Tetrachloroethene	10.0	11.7		ug/L		117	70 - 125
trans-1,2-Dichloroethene	10.0	12.3		ug/L		123	74 - 130
Trichloroethene	10.0	11.4		ug/L		114	71 - 121
Vinyl chloride	10.0	11.8		ug/L		118	61 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		75 - 130
4-Bromofluorobenzene (Surr)	102		47 - 134
Toluene-d8 (Surr)	107		69 - 122
Dibromofluoromethane (Surr)	123		78 - 129

Lab Sample ID: 240-134647-C-6 MS
Matrix: Water
Analysis Batch: 447176

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	1.0	U	10.0	11.2		ug/L		112	64 - 132
cis-1,2-Dichloroethene	1.0	U *	10.0	11.7		ug/L		117	68 - 121
Tetrachloroethene	1.0	U	10.0	9.90		ug/L		99	52 - 129
trans-1,2-Dichloroethene	1.0	U	10.0	12.0		ug/L		120	69 - 126
Trichloroethene	1.0	U	10.0	10.8		ug/L		108	56 - 124
Vinyl chloride	4.7		10.0	16.3		ug/L		115	49 - 136

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		75 - 130
4-Bromofluorobenzene (Surr)	107		47 - 134
Toluene-d8 (Surr)	105		69 - 122

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-134642-1

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

Lab Sample ID: 240-134647-C-6 MS
Matrix: Water
Analysis Batch: 447176

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

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	125		78 - 129

Lab Sample ID: 240-134647-D-6 MSD
Matrix: Water
Analysis Batch: 447176

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

Analyte	Sample	Sample	Spike	MSD		Unit	D	%Rec	%Rec.		RPD	RPD
	Result	Qualifier		Result	Qualifier				Limits	RPD		
1,1-Dichloroethene	1.0	U	10.0	11.7		ug/L		117	64 - 132	4	35	
cis-1,2-Dichloroethene	1.0	U *	10.0	11.9		ug/L		119	68 - 121	1	35	
Tetrachloroethene	1.0	U	10.0	10.2		ug/L		102	52 - 129	3	35	
trans-1,2-Dichloroethene	1.0	U	10.0	11.5		ug/L		115	69 - 126	4	35	
Trichloroethene	1.0	U	10.0	10.6		ug/L		106	56 - 124	1	35	
Vinyl chloride	4.7		10.0	16.7		ug/L		120	49 - 136	3	35	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	103		75 - 130
4-Bromofluorobenzene (Surr)	103		47 - 134
Toluene-d8 (Surr)	105		69 - 122
Dibromofluoromethane (Surr)	124		78 - 129

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

Lab Sample ID: MB 240-446478/5
Matrix: Water
Analysis Batch: 446478

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			08/11/20 05:46	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	79		70 - 133		08/11/20 05:46	1

Lab Sample ID: LCS 240-446478/4
Matrix: Water
Analysis Batch: 446478

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

Analyte	Spike	LCS LCS		Unit	D	%Rec	%Rec.
		Result	Qualifier				
1,4-Dioxane	10.0	9.73		ug/L		97	80 - 135

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	77		70 - 133

QC Association Summary

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

Job ID: 240-134642-1

GC/MS VOA

Analysis Batch: 446478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-134642-2	MW-96S_080320	Total/NA	Water	8260B SIM	
MB 240-446478/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-446478/4	Lab Control Sample	Total/NA	Water	8260B SIM	

Analysis Batch: 447176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-134642-1	TRIP BLANK	Total/NA	Water	8260B	
240-134642-2	MW-96S_080320	Total/NA	Water	8260B	
MB 240-447176/6	Method Blank	Total/NA	Water	8260B	
LCS 240-447176/4	Lab Control Sample	Total/NA	Water	8260B	
240-134647-C-6 MS	Matrix Spike	Total/NA	Water	8260B	
240-134647-D-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Lab Chronicle

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

Job ID: 240-134642-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-134642-1

Date Collected: 08/03/20 00:00

Matrix: Water

Date Received: 08/07/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	447176	08/14/20 12:58	LEE	TAL CAN

Client Sample ID: MW-96S_080320

Lab Sample ID: 240-134642-2

Date Collected: 08/03/20 14:45

Matrix: Water

Date Received: 08/07/20 09:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	447176	08/14/20 13:20	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	446478	08/11/20 07:50	SAM	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.
Project/Site: Ford LTP Off-Site

Job ID: 240-134642-1

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	02-23-21
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21
Illinois	NELAP	004498	07-31-20 *
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21
Kentucky (WW)	State	KY98016	12-31-20
Minnesota	NELAP	OH00048	12-31-20
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-24-21
Pennsylvania	NELAP	68-00340	08-31-20
Texas	NELAP	T104704517-18-10	08-31-20
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-20
Washington	State	C971	01-12-21
West Virginia DEP	State	210	12-31-20


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

Eurofins TestAmerica, Canton

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	Client Project Manager: Kris Hinsky	Site Contact: Julia McClafferty	Lab Contact: Mike DelMonico	COC No:			
Address: 28550 Cabot Drive, Suite 500	Telephone: 248-994-2240	Telephone: 734-644-5131	Telephone: 330-497-9396				
City/State/Zip: Novi, MI, 48377	Email: kristoffer.hinsky@arcadis.com	Analysis Turnaround Time	Analyses				
Phone: 248-994-2240		TAT if different from below	1,1-DCE 8260B				
Project Name: Ford LTP Off-Site	Sampler Name: CHRISTINA WEAVER	10 day	cis-1,2-DCE 8260B				
Project Number: 30050315.402.04	Method of Shipment/Carrier:	<input checked="" type="checkbox"/> 3 weeks	Trans-1,2-DCE 8260B				
PO # 30050315.402.04	Shipping/Tracking No:	<input checked="" type="checkbox"/> 2 weeks	TCE 8260B				
		<input type="checkbox"/> 1 week	Vinyl Chloride 8260B				
		<input type="checkbox"/> 2 days	1,4-Dioxane 8260B SIM				
		<input type="checkbox"/> 1 day					
Sample Identification	Sample Date	Sample Time	Matrix		Filtered Sample (Y/N)	Composite C/Grab/G	Sample Specific Notes / Special Instructions:
			Air	Soil			
TRIP BLANK	8/3/20	—	<input checked="" type="checkbox"/>		NG		1 TRIP BLANK
MW-965_080320	8/3/20	1445	<input checked="" type="checkbox"/>		NG		#3 VOLES FOR 8260B #VOLES FOR 8260B SIM



240-134642 Chain of Custody

Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	
<input checked="" type="checkbox"/> Non-Hazard	<input type="checkbox"/> Irritant	<input type="checkbox"/> Return to Client	<input type="checkbox"/> Archive For _____ Months
Special Instructions/OC Requirements & Comments:			
Submit all results through Cadena at tomalia@cadenaco.com. Cadena #E203631 Level IV Reporting requested.			

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
<i>Christina Weaver</i>	ARCADIS	8/3/20/1540	DOVE COLO STORAGE	ARCADIS	8/3/20/1540
<i>Anders Brannich</i>	Arcadis	8/6/20/1245	Received by: <i>my</i>	Company: <i>EMMI</i>	Date/Time: 8/4/20 12:50
<i>my</i>	EMMI	8/6/20 13:00	Received in Laboratory by: <i>[Signature]</i>	Company: <i>EMMI</i>	Date/Time: 8-7-20 9:20

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Eurofins TestAmerica Canton Sample Receipt Form/Narrative		Login # : <u>134642</u>
Canton Facility		
Client <u>Arcadis</u>	Site Name _____	Cooler unpacked by: <u>[Signature]</u>
Cooler Received on <u>8-7-20</u>	Opened on <u>8-7-20</u>	
FedEx: 1 st <input checked="" type="checkbox"/> Grd <input type="checkbox"/> Exp <input type="checkbox"/> UPS <input type="checkbox"/> FAS <input type="checkbox"/> Clipper <input type="checkbox"/> Client Drop Off <input type="checkbox"/> TestAmerica Courier <input type="checkbox"/> Other <input type="checkbox"/>		
Receipt After-hours: Drop-off Date/Time		Storage Location
TestAmerica Cooler # <u>7A</u>	Foam Box <input type="checkbox"/>	Client Cooler <input type="checkbox"/>
Packing material used: <u>Bubble Wrap</u>	Foam <input type="checkbox"/>	Box <input type="checkbox"/>
	<u>Plastic Bag</u>	None <input type="checkbox"/>
COOLANT: <u>Wet Ice</u>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
	Water <input type="checkbox"/>	None <input type="checkbox"/>
<input checked="" type="checkbox"/> See Multiple Cooler Form		
1. Cooler temperature upon receipt IR GUN# IR-10 (CF +0.7 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C IR GUN #IR-11 (CF +0.9 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C		
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity <u>4</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No -Were the seals on the outside of the cooler(s) signed & dated? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No -Were tamper/custody seals intact and uncompromised? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA		
3. Shippers' packing slip attached to the cooler(s)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
4. Did custody papers accompany the sample(s)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
5. Were the custody papers relinquished & signed in the appropriate place? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
6. Was/were the person(s) who collected the samples clearly identified on the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
7. Did all bottles arrive in good condition (Unbroken)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
8. Could all bottle labels be reconciled with the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
9. Were correct bottle(s) used for the test(s) indicated? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
10. Sufficient quantity received to perform indicated analyses? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
11. Are these work share samples? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
If yes, Questions 12-16 have been checked at the originating laboratory.		
12. Were all preserved sample(s) at the correct pH upon receipt? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA pH Strip Lot# <u>HC911298</u>		
13. Were VOAs on the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
14. Were air bubbles >6 mm in any VOA vials? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA ● ← Larger than this.		
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # <u>NA</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
16. Was a LL Hg or Me Hg trip blank present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other _____		
Concerning _____		
17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES		Samples processed by: _____
_____ _____ _____ _____		
18. SAMPLE CONDITION		
Sample(s) _____ were received after the recommended holding time had expired.		
Sample(s) _____ were received in a broken container.		
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)		
19. 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: _____		

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

This is let only

Eurofins TestAmerica Canton Sample Receipt Multiple Cooler Form

Cooler Description (Circle)	IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)		
				Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11	3.1	4.0	Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11	1.2	2.2	Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11	1.3	2.2	Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11	1.6	2.5	Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice
TA Client Box Other	IR-10 IR-11			Wet Ice	Blue Ice	Dry Ice

See Temperature Excursion Form

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