

ANALYTICAL REPORT

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

Laboratory Job ID: 240-114176-1
Client Project/Site: Ford LTP Livonia MI - E203728

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

Attn: Kristoffer Hinskey



Authorized for release by:
6/26/2019 3:19:18 PM

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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 Livonia MI - E203728

Job ID: 240-114176-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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
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)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
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)

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114176-1

Job ID: 240-114176-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ford LTP Livonia MI - E203728

Report Number: 240-114176-1

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 6/12/2019 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 3 coolers at receipt time were 2.5° C, 3.9° C and 4.5° C.

VOLATILE ORGANIC COMPOUNDS (GCMS)

Samples TW-16-01_061019 (240-114176-1) and TRIP BLANK (240-114176-2) were analyzed for volatile organic compounds (GCMS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/21/2019.

Sample TW-16-01_061019 (240-114176-1)[33.33X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Internal standard is outside QC acceptance criteria but there is insufficient sample to re-analyze: TRIP BLANK (240-114176-2).

No MS/MSD in batch 385516 due to the internal standards dropping: TW-16-01_061019 (240-114176-1) and TRIP BLANK (240-114176-2).

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 TW-16-01_061019 (240-114176-1) was analyzed for volatile organic compounds (GCMS SIM) in accordance with EPA SW-846

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114176-1

Job ID: 240-114176-1 (Continued)

Laboratory: Eurofins TestAmerica, Canton (Continued)

Method 8260B SIM. The sample was analyzed on 06/16/2019.

1,4-Dioxane was detected in method blank MB 240-386387/5 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

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 Livonia MI - E203728

Job ID: 240-114176-1

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 Livonia MI - E203728

Job ID: 240-114176-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-114176-1	TW-16-01_061019	Water	06/10/19 17:15	06/12/19 08:40	
240-114176-2	TRIP BLANK	Water	06/10/19 00:00	06/12/19 08:40	

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Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114176-1

Client Sample ID: TW-16-01_061019

Lab Sample ID: 240-114176-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.1	J B	2.0	0.86	ug/L	1		8260B SIM	Total/NA
cis-1,2-Dichloroethene	140		33	5.3	ug/L	33.33		8260B	Total/NA
trans-1,2-Dichloroethene	8.0	J	33	6.3	ug/L	33.33		8260B	Total/NA
Vinyl chloride	550		33	6.7	ug/L	33.33		8260B	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-114176-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.20	J	1.0	0.20	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114176-1

Client Sample ID: TW-16-01_061019

Lab Sample ID: 240-114176-1

Date Collected: 06/10/19 17:15

Matrix: Water

Date Received: 06/12/19 08:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.1	J B	2.0	0.86	ug/L			06/16/19 09:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		63 - 125		06/16/19 09:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	33	U	33	6.3	ug/L			06/21/19 15:07	33.33
cis-1,2-Dichloroethene	140		33	5.3	ug/L			06/21/19 15:07	33.33
Tetrachloroethene	33	U	33	5.0	ug/L			06/21/19 15:07	33.33
trans-1,2-Dichloroethene	8.0	J	33	6.3	ug/L			06/21/19 15:07	33.33
Trichloroethene	33	U	33	3.3	ug/L			06/21/19 15:07	33.33
Vinyl chloride	550		33	6.7	ug/L			06/21/19 15:07	33.33

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		70 - 121		06/21/19 15:07	33.33
4-Bromofluorobenzene (Surr)	67		59 - 120		06/21/19 15:07	33.33
Toluene-d8 (Surr)	78		70 - 123		06/21/19 15:07	33.33
Dibromofluoromethane (Surr)	103		75 - 128		06/21/19 15:07	33.33

Client Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114176-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-114176-2

Date Collected: 06/10/19 00:00

Matrix: Water

Date Received: 06/12/19 08:40

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	0.19	ug/L			06/21/19 15:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/21/19 15:28	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/21/19 15:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/21/19 15:28	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/21/19 15:28	1
Vinyl chloride	0.20	J	1.0	0.20	ug/L			06/21/19 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		70 - 121		06/21/19 15:28	1
4-Bromofluorobenzene (Surr)	67		59 - 120		06/21/19 15:28	1
Toluene-d8 (Surr)	81		70 - 123		06/21/19 15:28	1
Dibromofluoromethane (Surr)	107		75 - 128		06/21/19 15:28	1

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114176-1

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 (70-121)	BFB (59-120)	TOL (70-123)	DBFM (75-128)
240-114176-1	TW-16-01_061019	100	67	78	103
240-114176-2	TRIP BLANK	106	67	81	107
LCS 240-387516/4	Lab Control Sample	82	90	98	84
MB 240-387516/6	Method Blank	93	65	80	90

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 (63-125)
240-114176-1	TW-16-01_061019	88
240-114181-B-3 MS	Matrix Spike	87
240-114181-B-3 MSD	Matrix Spike Duplicate	94
LCS 240-386387/4	Lab Control Sample	92
MB 240-386387/5	Method Blank	91

Surrogate Legend

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

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114176-1

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

Lab Sample ID: MB 240-387516/6
Matrix: Water
Analysis Batch: 387516

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	0.19	ug/L			06/21/19 12:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/21/19 12:12	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/21/19 12:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/21/19 12:12	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/21/19 12:12	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/21/19 12:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		70 - 121		06/21/19 12:12	1
4-Bromofluorobenzene (Surr)	65		59 - 120		06/21/19 12:12	1
Toluene-d8 (Surr)	80		70 - 123		06/21/19 12:12	1
Dibromofluoromethane (Surr)	90		75 - 128		06/21/19 12:12	1

Lab Sample ID: LCS 240-387516/4
Matrix: Water
Analysis Batch: 387516

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	8.96		ug/L		90	65 - 139
cis-1,2-Dichloroethene	10.0	8.64		ug/L		86	76 - 128
Tetrachloroethene	10.0	9.65		ug/L		96	74 - 130
trans-1,2-Dichloroethene	10.0	9.12		ug/L		91	78 - 133
Trichloroethene	10.0	8.96		ug/L		90	76 - 125
Vinyl chloride	10.0	8.93		ug/L		89	58 - 143

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	82		70 - 121
4-Bromofluorobenzene (Surr)	90		59 - 120
Toluene-d8 (Surr)	98		70 - 123
Dibromofluoromethane (Surr)	84		75 - 128

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

Lab Sample ID: MB 240-386387/5
Matrix: Water
Analysis Batch: 386387

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.951	J	2.0	0.86	ug/L			06/16/19 05:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		63 - 125		06/16/19 05:43	1

QC Sample Results

Client: ARCADIS U.S., Inc.
 Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114176-1

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

Lab Sample ID: LCS 240-386387/4
Matrix: Water
Analysis Batch: 386387

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	10.0	12.6		ug/L		126	59 - 131
Surrogate	%Recovery	LCS Qualifier	LCS Limits				
1,2-Dichloroethane-d4 (Surr)	92		63 - 125				

Lab Sample ID: 240-114181-B-3 MS
Matrix: Water
Analysis Batch: 386387

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
1,4-Dioxane	2.0	U	10.0	12.0		ug/L		120	52 - 129
Surrogate	%Recovery	MS Qualifier	MS Limits						
1,2-Dichloroethane-d4 (Surr)	87		63 - 125						

Lab Sample ID: 240-114181-B-3 MSD
Matrix: Water
Analysis Batch: 386387

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	2.0	U	10.0	12.6		ug/L		126	52 - 129	4	13
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
1,2-Dichloroethane-d4 (Surr)	94		63 - 125								

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114176-1

GC/MS VOA

Analysis Batch: 386387

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-114176-1	TW-16-01_061019	Total/NA	Water	8260B SIM	
MB 240-386387/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-386387/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-114181-B-3 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-114181-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Analysis Batch: 387516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-114176-1	TW-16-01_061019	Total/NA	Water	8260B	
240-114176-2	TRIP BLANK	Total/NA	Water	8260B	
MB 240-387516/6	Method Blank	Total/NA	Water	8260B	
LCS 240-387516/4	Lab Control Sample	Total/NA	Water	8260B	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ford LTP Livonia MI - E203728

Job ID: 240-114176-1

Client Sample ID: TW-16-01_061019

Lab Sample ID: 240-114176-1

Date Collected: 06/10/19 17:15

Matrix: Water

Date Received: 06/12/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		33.33	387516	06/21/19 15:07	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	386387	06/16/19 09:32	TJL2	TAL CAN

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-114176-2

Date Collected: 06/10/19 00:00

Matrix: Water

Date Received: 06/12/19 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	387516	06/21/19 15:28	LEE	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 Livonia MI - E203728

Job ID: 240-114176-1

Laboratory: Eurofins TestAmerica, Canton

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

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State		2927	02-23-20
California	State Program	9	2927	02-23-20
Connecticut	State Program	1	PH-0590	12-31-19
Florida	NELAP	4	E87225	06-30-19 *
Florida	NELAP		E87225	06-30-19
Illinois	NELAP	5	200004	07-31-19 *
Illinois	NELAP		004498	07-31-19
Iowa	State Program	7	421	06-01-21
Kansas	NELAP	7	E-10336	04-30-20
Kentucky (UST)	State Program	4	58	02-23-20
Kentucky (WW)	State Program	4	98016	12-31-19
Minnesota	NELAP	5	039-999-348	12-31-19 *
Minnesota (Petrofund)	State Program	1	3506	07-31-19 *
Nevada	State Program	9	OH00048	07-31-19
New Jersey	NELAP	2	OH001	06-30-19 *
New Jersey	NELAP		OH001	06-30-19
New York	NELAP	2	10975	03-31-20
New York	NELAP		10975	03-31-20
Ohio VAP	State Program	5	CL0024	06-05-21
Oregon	NELAP	10	4062	02-23-20
Oregon	NELAP		4062	02-23-20
Pennsylvania	NELAP	3	68-00340	08-31-19 *
Pennsylvania	NELAP		68-00340	08-31-19
Texas	NELAP	6	T104704517-18-10	08-31-19 *
Texas	NELAP		T104704517-18-10	08-31-19
USDA	Federal		P330-16-00404	12-28-19
Virginia	NELAP	3	460175	09-14-19 *
Virginia	NELAP		010101	09-14-19
Washington	State		C971	01-12-20
Washington	State Program	10	C971	01-12-20 *
West Virginia DEP	State Program	3	210	12-31-19

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

Client Information		Lab PM:		Carrier Tracking No(s):		COC No:					
Client Contact: Caitlin O'Neill		DeiMonico, Michael		240-61361-26116.9		Page: Page 9 of 10					
Company: ARCADIS U.S. Inc		E-Mail: michael.deimonico@lestamerica.com		Job #:		Preservation Codes:					
Address: 28550 Cabot Drive Suite 500		Due Date Requested:		Analysis Requested		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:					
City: Novi		TAT Requested (days): 10 day (Standard)		Field Filtered Sample (Yes or No)		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - PH 4-5 Z - other (specify)					
State Zip: MI, 48377		PO #: MI001454-0001B		Perform MS/MSD (Yes or No)		Total Number of containers					
Phone: MI, 48377		WO #: Cadena #: E203634 728		8260B, 8260B SIM		Special Instructions/Note:					
Email: Caitlin O'Neill@arcadis.com		Project #: 24015353		8260B - VOCs (Short List)		240-114176 Chain of Custody					
Project Name: Ford LTP Livonia MI - E203634 728		SSOW#:									
Site: LTP											
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=Other, BT=Issue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B, 8260B SIM	8260B - VOCs (Short List)	Analysis Requested	Total Number of containers	Special Instructions/Note:
TW1601-061019	6-10-19	17:15	G	Water	W	N	3	A		6	
Trip Blank				Water			1			1	
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							
				Water							

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological
 Deliverable Requested: I, II, III, IV, Other (specify)

Empty Kit Relinquished by: _____ Date: _____ Method of Shipment: _____

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Disposal By Lab Archive For _____ Months

Special Instructions/QC Requirements: _____

Relinquished by:	Date/Time:	Company:	Relinquished by:	Date/Time:	Company:
PATRICK LABADIE	6-10-19 18:30	ARCADIS	RACHEL BIELEK	6/10/19 18:30	ARCADIS
MICHEL BIELEK	6/10/19 1924	ARCADIS	NOVI COLD STORAGE	6/10/19 1924	ARCADIS
AMHEL BIELEK	6/11/19 1023	ARCADIS		6-11-19 1018	FIA

Custody Seal No. 1: Yes No

Cooler Temperature(s) °C and Other Remarks: _____

Ver: 01/16/2019

Eurofins TestAmerica Canton Sample Receipt Form/Narrative

Login #: 114176

Canton Facility

Client Arcadis Site Name

Cooler unpacked by: [Signature]

Cooler Received on 6-12-19 Opened on 6-12-19

FedEx: 1st (Grd) Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

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

TestAmerica Cooler # TA 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-8 (CF +0.1 °C) Observed Cooler Temp. °C Corrected Cooler Temp. °C
IR GUN #36 (CF +0.6°C) Observed Cooler Temp. °C Corrected Cooler Temp. °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity/Leak Yes No
- Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
- Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
- Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing-slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes 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? Yes No NA pH Strip Lot# HC984738
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials? Yes No NA Larger than this.
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # Yes No
16. Was a LL Hg or Me Hg trip blank present? Yes No

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

Contacted PM Date by via Verbal Voice Mail Other

Concerning

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

Samples processed by:

Blank lines for Chain of Custody and Sample Discrepancies.

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:

Login #: 114176

TestAmerica Canton Sample Receipt Multiple Cooler Form									
Cooler Description (Circle)				IR Gun # (Circle)	Observed Temp °C	Corrected Temp °C	Coolant (Circle)		
TA	Client	Box	Other	IR-8 #36	3.8	3.9	Wet Ice	Blue Ice	Dry Ice
							Water	None	
TA	Client	Box	Other	IR-8 #36	4.4	4.5	Wet Ice	Blue Ice	Dry Ice
							Water	None	
TA	Client	Box	Other	IR-8 #36	2.4	2.5	Wet Ice	Blue Ice	Dry Ice
							Water	None	
TA	Client	Box	Other	IR-8 #36			Wet Ice	Blue Ice	Dry Ice
							Water	None	
TA	Client	Box	Other	IR-8 #36			Wet Ice	Blue Ice	Dry Ice
							Water	None	
TA	Client	Box	Other	IR-8 #36			Wet Ice	Blue Ice	Dry Ice
							Water	None	
TA	Client	Box	Other	IR-8 #36			Wet Ice	Blue Ice	Dry Ice
							Water	None	
TA	Client	Box	Other	IR-8 #36			Wet Ice	Blue Ice	Dry Ice
							Water	None	
TA	Client	Box	Other	IR-8 #36			Wet Ice	Blue Ice	Dry Ice
							Water	None	
TA	Client	Box	Other	IR-8 #36			Wet Ice	Blue Ice	Dry Ice
							Water	None	
TA	Client	Box	Other	IR-8 #36			Wet Ice	Blue Ice	Dry Ice
							Water	None	
TA	Client	Box	Other	IR-8 #36			Wet Ice	Blue Ice	Dry Ice
							Water	None	
TA	Client	Box	Other	IR-8 #36			Wet Ice	Blue Ice	Dry Ice
							Water	None	
TA	Client	Box	Other	IR-8 #36			Wet Ice	Blue Ice	Dry Ice
							Water	None	
TA	Client	Box	Other	IR-8 #36			Wet Ice	Blue Ice	Dry Ice
							Water	None	
TA	Client	Box	Other	IR-8 #36			Wet Ice	Blue Ice	Dry Ice
							Water	None	
TA	Client	Box	Other	IR-8 #36			Wet Ice	Blue Ice	Dry Ice
							Water	None	
TA	Client	Box	Other	IR-8 #36			Wet Ice	Blue Ice	Dry Ice
							Water	None	
TA	Client	Box	Other	IR-8 #36			Wet Ice	Blue Ice	Dry Ice
							Water	None	
TA	Client	Box	Other	IR-8 #36			Wet Ice	Blue Ice	Dry Ice
							Water	None	
TA	Client	Box	Other	IR-8 #36			Wet Ice	Blue Ice	Dry Ice
							Water	None	
TA	Client	Box	Other	IR-8 #36			Wet Ice	Blue Ice	Dry Ice
							Water	None	
TA	Client	Box	Other	IR-8 #36			Wet Ice	Blue Ice	Dry Ice
							Water	None	
TA	Client	Box	Other	IR-8 #36			Wet Ice	Blue Ice	Dry Ice
							Water	None	
TA	Client	Box	Other	IR-8 #36			Wet Ice	Blue Ice	Dry Ice
							Water	None	

See Temperature Excursion Form