

ANALYTICAL REPORT

Eurofins Canton
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Barberton, OH 44203
Tel: (330)497-9396

Laboratory Job ID: 240-166740-1
Client Project/Site: Ford LTP - On Site

For:
ARCADIS U.S., Inc.
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Novi, Michigan 48377

Attn: Kristoffer Hinskey



Authorized for release by:

5/27/2022 7:27:13 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 - On Site

Job ID: 240-166740-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
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.
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 - On Site

Job ID: 240-166740-1

Job ID: 240-166740-1

Laboratory: Eurofins Canton

Narrative

**Job Narrative
240-166740-1**

Comments

No additional comments.

Receipt

The samples were received on 5/17/2022 @ 9:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.6° C and 2.1° C.

GC/MS VOA

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 240-527862.

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 - On Site

Job ID: 240-166740-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	TAL CAN
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
5030C	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 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 - On Site

Job ID: 240-166740-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-166740-1	TRIP BLANK_114	Water	05/14/22 00:00	05/17/22 09:30
240-166740-2	MW-15-61D_051422	Water	05/14/22 09:20	05/17/22 09:30
240-166740-3	MW-42_051422	Water	05/14/22 10:33	05/17/22 09:30
240-166740-4	MW-211S_051422	Water	05/14/22 11:23	05/17/22 09:30
240-166740-5	MW-35_051422	Water	05/14/22 12:08	05/17/22 09:30
240-166740-6	MW-212S_051422	Water	05/14/22 13:00	05/17/22 09:30
240-166740-7	MW-213S_051422	Water	05/14/22 13:55	05/17/22 09:30

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Detection Summary

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

Job ID: 240-166740-1

Client Sample ID: TRIP BLANK_114

Lab Sample ID: 240-166740-1

No Detections.

Client Sample ID: MW-15-61D_051422

Lab Sample ID: 240-166740-2

No Detections.

Client Sample ID: MW-42_051422

Lab Sample ID: 240-166740-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.55	J	1.0	0.45	ug/L	1		8260D	Total/NA

Client Sample ID: MW-211S_051422

Lab Sample ID: 240-166740-4

No Detections.

Client Sample ID: MW-35_051422

Lab Sample ID: 240-166740-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	2.7		2.0	0.86	ug/L	1		8260D SIM	Total/NA
Vinyl chloride	5.2		1.0	0.45	ug/L	1		8260D	Total/NA

Client Sample ID: MW-212S_051422

Lab Sample ID: 240-166740-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.2		1.0	0.46	ug/L	1		8260D	Total/NA

Client Sample ID: MW-213S_051422

Lab Sample ID: 240-166740-7

No Detections.

This Detection Summary does not include radiochemical test results.

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Client Sample Results

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

Job ID: 240-166740-1

Client Sample ID: TRIP BLANK_114

Lab Sample ID: 240-166740-1

Date Collected: 05/14/22 00:00

Matrix: Water

Date Received: 05/17/22 09:30

Method: 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			05/25/22 19:28	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/22 19:28	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 19:28	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/22 19:28	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 19:28	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/25/22 19:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		62 - 137		05/25/22 19:28	1
4-Bromofluorobenzene (Surr)	94		56 - 136		05/25/22 19:28	1
Toluene-d8 (Surr)	94		78 - 122		05/25/22 19:28	1
Dibromofluoromethane (Surr)	102		73 - 120		05/25/22 19:28	1

Client Sample Results

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

Job ID: 240-166740-1

Client Sample ID: MW-15-61D_051422

Lab Sample ID: 240-166740-2

Date Collected: 05/14/22 09:20

Matrix: Water

Date Received: 05/17/22 09:30

Method: 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			05/23/22 21:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		66 - 120		05/23/22 21:09	1

Method: 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			05/25/22 19:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/22 19:52	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 19:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/22 19:52	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 19:52	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/25/22 19:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		62 - 137		05/25/22 19:52	1
4-Bromofluorobenzene (Surr)	91		56 - 136		05/25/22 19:52	1
Toluene-d8 (Surr)	90		78 - 122		05/25/22 19:52	1
Dibromofluoromethane (Surr)	97		73 - 120		05/25/22 19:52	1

Client Sample Results

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

Job ID: 240-166740-1

Client Sample ID: MW-42_051422

Lab Sample ID: 240-166740-3

Date Collected: 05/14/22 10:33

Matrix: Water

Date Received: 05/17/22 09:30

Method: 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			05/23/22 22:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		66 - 120		05/23/22 22:20	1

Method: 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			05/25/22 20:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/22 20:17	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 20:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/22 20:17	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 20:17	1
Vinyl chloride	0.55	J	1.0	0.45	ug/L			05/25/22 20:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137		05/25/22 20:17	1
4-Bromofluorobenzene (Surr)	93		56 - 136		05/25/22 20:17	1
Toluene-d8 (Surr)	91		78 - 122		05/25/22 20:17	1
Dibromofluoromethane (Surr)	100		73 - 120		05/25/22 20:17	1

Client Sample Results

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

Job ID: 240-166740-1

Client Sample ID: MW-211S_051422

Lab Sample ID: 240-166740-4

Date Collected: 05/14/22 11:23

Matrix: Water

Date Received: 05/17/22 09:30

Method: 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			05/23/22 22:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		66 - 120					05/23/22 22:44	1

Method: 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			05/25/22 20:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/22 20:42	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 20:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/22 20:42	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 20:42	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/25/22 20:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		62 - 137					05/25/22 20:42	1
4-Bromofluorobenzene (Surr)	95		56 - 136					05/25/22 20:42	1
Toluene-d8 (Surr)	94		78 - 122					05/25/22 20:42	1
Dibromofluoromethane (Surr)	103		73 - 120					05/25/22 20:42	1

Client Sample Results

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

Job ID: 240-166740-1

Client Sample ID: MW-35_051422

Lab Sample ID: 240-166740-5

Date Collected: 05/14/22 12:08

Matrix: Water

Date Received: 05/17/22 09:30

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	2.7		2.0	0.86	ug/L			05/23/22 23:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		66 - 120		05/23/22 23:09	1

Method: 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			05/25/22 21:06	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/22 21:06	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 21:06	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/22 21:06	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 21:06	1
Vinyl chloride	5.2		1.0	0.45	ug/L			05/25/22 21:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		62 - 137		05/25/22 21:06	1
4-Bromofluorobenzene (Surr)	94		56 - 136		05/25/22 21:06	1
Toluene-d8 (Surr)	95		78 - 122		05/25/22 21:06	1
Dibromofluoromethane (Surr)	105		73 - 120		05/25/22 21:06	1

Client Sample Results

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

Job ID: 240-166740-1

Client Sample ID: MW-212S_051422

Lab Sample ID: 240-166740-6

Date Collected: 05/14/22 13:00

Matrix: Water

Date Received: 05/17/22 09:30

Method: 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			05/23/22 23:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		66 - 120					05/23/22 23:33	1

Method: 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			05/25/22 15:51	1
cis-1,2-Dichloroethene	1.2		1.0	0.46	ug/L			05/25/22 15:51	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 15:51	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/22 15:51	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 15:51	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/25/22 15:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		62 - 137					05/25/22 15:51	1
4-Bromofluorobenzene (Surr)	110		56 - 136					05/25/22 15:51	1
Toluene-d8 (Surr)	106		78 - 122					05/25/22 15:51	1
Dibromofluoromethane (Surr)	113		73 - 120					05/25/22 15:51	1

Client Sample Results

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

Job ID: 240-166740-1

Client Sample ID: MW-213S_051422

Lab Sample ID: 240-166740-7

Date Collected: 05/14/22 13:55

Matrix: Water

Date Received: 05/17/22 09:30

Method: 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			05/23/22 23:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		66 - 120					05/23/22 23:57	1

Method: 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			05/25/22 16:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/22 16:15	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 16:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/22 16:15	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 16:15	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/25/22 16:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		62 - 137					05/25/22 16:15	1
4-Bromofluorobenzene (Surr)	109		56 - 136					05/25/22 16:15	1
Toluene-d8 (Surr)	108		78 - 122					05/25/22 16:15	1
Dibromofluoromethane (Surr)	116		73 - 120					05/25/22 16:15	1

Surrogate Summary

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

Job ID: 240-166740-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (62-137)	BFB (56-136)	TOL (78-122)	DBFM (73-120)
240-166740-1	TRIP BLANK_114	99	94	94	102
240-166740-2	MW-15-61D_051422	98	91	90	97
240-166740-3	MW-42_051422	101	93	91	100
240-166740-4	MW-211S_051422	101	95	94	103
240-166740-5	MW-35_051422	104	94	95	105
240-166740-6	MW-212S_051422	109	110	106	113
240-166740-7	MW-213S_051422	110	109	108	116
240-166782-F-3 MS	Matrix Spike	92	104	105	100
240-166782-F-3 MSD	Matrix Spike Duplicate	91	101	103	99
LCS 240-527862/5	Lab Control Sample	97	97	95	101
LCS 240-527906/5	Lab Control Sample	96	107	110	105
LCSD 240-527862/8	Lab Control Sample Dup	99	98	96	100
MB 240-527862/9	Method Blank	99	96	94	100
MB 240-527906/8	Method Blank	102	108	108	109

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

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)
		DCA (66-120)
240-166740-2	MW-15-61D_051422	83
240-166740-2 MS	MW-15-61D_051422	83
240-166740-2 MSD	MW-15-61D_051422	81
240-166740-3	MW-42_051422	84
240-166740-4	MW-211S_051422	83
240-166740-5	MW-35_051422	84
240-166740-6	MW-212S_051422	86
240-166740-7	MW-213S_051422	87
LCS 240-527590/3	Lab Control Sample	82
MB 240-527590/4	Method Blank	82

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-166740-1

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

Lab Sample ID: MB 240-527862/9
Matrix: Water
Analysis Batch: 527862

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			05/25/22 12:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/22 12:55	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 12:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/22 12:55	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 12:55	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/25/22 12:55	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	99		62 - 137		05/25/22 12:55	1
4-Bromofluorobenzene (Surr)	96		56 - 136		05/25/22 12:55	1
Toluene-d8 (Surr)	94		78 - 122		05/25/22 12:55	1
Dibromofluoromethane (Surr)	100		73 - 120		05/25/22 12:55	1

Lab Sample ID: LCS 240-527862/5
Matrix: Water
Analysis Batch: 527862

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1-Dichloroethene	20.0	20.7		ug/L		104	63 - 134
cis-1,2-Dichloroethene	20.0	19.6		ug/L		98	77 - 123
Tetrachloroethene	20.0	16.9		ug/L		85	76 - 123
trans-1,2-Dichloroethene	20.0	19.5		ug/L		98	75 - 124
Trichloroethene	20.0	19.0		ug/L		95	70 - 122
Vinyl chloride	20.0	19.0		ug/L		95	60 - 144

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	97		62 - 137
4-Bromofluorobenzene (Surr)	97		56 - 136
Toluene-d8 (Surr)	95		78 - 122
Dibromofluoromethane (Surr)	101		73 - 120

Lab Sample ID: LCSD 240-527862/8
Matrix: Water
Analysis Batch: 527862

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

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
1,1-Dichloroethene	20.0	20.7		ug/L		104	63 - 134	0	35
cis-1,2-Dichloroethene	20.0	19.7		ug/L		99	77 - 123	1	35
Tetrachloroethene	20.0	17.1		ug/L		85	76 - 123	1	35
trans-1,2-Dichloroethene	20.0	19.8		ug/L		99	75 - 124	2	35
Trichloroethene	20.0	19.5		ug/L		97	70 - 122	3	35
Vinyl chloride	20.0	18.2		ug/L		91	60 - 144	4	35

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	99		62 - 137
4-Bromofluorobenzene (Surr)	98		56 - 136
Toluene-d8 (Surr)	96		78 - 122

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QC Sample Results

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

Job ID: 240-166740-1

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

Lab Sample ID: LCSD 240-527862/8
Matrix: Water
Analysis Batch: 527862

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

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Dibromofluoromethane (Surr)	100		73 - 120

Lab Sample ID: MB 240-527906/8
Matrix: Water
Analysis Batch: 527906

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			05/25/22 13:04	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.46	ug/L			05/25/22 13:04	1
Tetrachloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 13:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.51	ug/L			05/25/22 13:04	1
Trichloroethene	1.0	U	1.0	0.44	ug/L			05/25/22 13:04	1
Vinyl chloride	1.0	U	1.0	0.45	ug/L			05/25/22 13:04	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	102		62 - 137		05/25/22 13:04	1
4-Bromofluorobenzene (Surr)	108		56 - 136		05/25/22 13:04	1
Toluene-d8 (Surr)	108		78 - 122		05/25/22 13:04	1
Dibromofluoromethane (Surr)	109		73 - 120		05/25/22 13:04	1

Lab Sample ID: LCS 240-527906/5
Matrix: Water
Analysis Batch: 527906

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

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
1,1-Dichloroethene	25.0	25.7		ug/L		103	63 - 134
cis-1,2-Dichloroethene	25.0	25.2		ug/L		101	77 - 123
Tetrachloroethene	25.0	26.3		ug/L		105	76 - 123
trans-1,2-Dichloroethene	25.0	24.9		ug/L		100	75 - 124
Trichloroethene	25.0	26.1		ug/L		104	70 - 122
Vinyl chloride	25.0	23.0		ug/L		92	60 - 144

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	96		62 - 137
4-Bromofluorobenzene (Surr)	107		56 - 136
Toluene-d8 (Surr)	110		78 - 122
Dibromofluoromethane (Surr)	105		73 - 120

Lab Sample ID: 240-166782-F-3 MS
Matrix: Water
Analysis Batch: 527906

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

Analyte	Sample Sample		Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
1,1-Dichloroethene	13	U	313	304		ug/L		97	56 - 135
cis-1,2-Dichloroethene	250		313	526		ug/L		87	66 - 128
Tetrachloroethene	13	U	313	294		ug/L		94	62 - 131
trans-1,2-Dichloroethene	94		313	381		ug/L		92	56 - 136
Trichloroethene	470		313	734		ug/L		84	61 - 124

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QC Sample Results

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

Job ID: 240-166740-1

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

Lab Sample ID: 240-166782-F-3 MS
Matrix: Water
Analysis Batch: 527906

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
Vinyl chloride	13	U	313	274		ug/L		88	43 - 157
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	92		62 - 137						
4-Bromofluorobenzene (Surr)	104		56 - 136						
Toluene-d8 (Surr)	105		78 - 122						
Dibromofluoromethane (Surr)	100		73 - 120						

Lab Sample ID: 240-166782-F-3 MSD
Matrix: Water
Analysis Batch: 527906

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
1,1-Dichloroethene	13	U	313	302		ug/L		97	56 - 135	1	26
cis-1,2-Dichloroethene	250		313	525		ug/L		87	66 - 128	0	14
Tetrachloroethene	13	U	313	295		ug/L		94	62 - 131	0	20
trans-1,2-Dichloroethene	94		313	377		ug/L		91	56 - 136	1	15
Trichloroethene	470		313	734		ug/L		84	61 - 124	0	15
Vinyl chloride	13	U	313	275		ug/L		88	43 - 157	0	24
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	91		62 - 137								
4-Bromofluorobenzene (Surr)	101		56 - 136								
Toluene-d8 (Surr)	103		78 - 122								
Dibromofluoromethane (Surr)	99		73 - 120								

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

Lab Sample ID: MB 240-527590/4
Matrix: Water
Analysis Batch: 527590

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	2.0	U	2.0	0.86	ug/L			05/23/22 20:08	1
MB MB									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		66 - 120					05/23/22 20:08	1

Lab Sample ID: LCS 240-527590/3
Matrix: Water
Analysis Batch: 527590

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	11.6		ug/L		116	80 - 122
LCS LCS							
Surrogate	%Recovery	Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	82		66 - 120				

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QC Sample Results

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

Job ID: 240-166740-1

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

Lab Sample ID: 240-166740-2 MS
Matrix: Water
Analysis Batch: 527590

Client Sample ID: MW-15-61D_051422
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	11.3		ug/L		113	51 - 153
MS MS									
Surrogate	%Recovery	Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	83		66 - 120						

Lab Sample ID: 240-166740-2 MSD
Matrix: Water
Analysis Batch: 527590

Client Sample ID: MW-15-61D_051422
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	11.2		ug/L		112	51 - 153	1	16
MSD MSD											
Surrogate	%Recovery	Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	81		66 - 120								

QC Association Summary

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

Job ID: 240-166740-1

GC/MS VOA

Analysis Batch: 527590

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-166740-2	MW-15-61D_051422	Total/NA	Water	8260D SIM	
240-166740-3	MW-42_051422	Total/NA	Water	8260D SIM	
240-166740-4	MW-211S_051422	Total/NA	Water	8260D SIM	
240-166740-5	MW-35_051422	Total/NA	Water	8260D SIM	
240-166740-6	MW-212S_051422	Total/NA	Water	8260D SIM	
240-166740-7	MW-213S_051422	Total/NA	Water	8260D SIM	
MB 240-527590/4	Method Blank	Total/NA	Water	8260D SIM	
LCS 240-527590/3	Lab Control Sample	Total/NA	Water	8260D SIM	
240-166740-2 MS	MW-15-61D_051422	Total/NA	Water	8260D SIM	
240-166740-2 MSD	MW-15-61D_051422	Total/NA	Water	8260D SIM	

Analysis Batch: 527862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-166740-1	TRIP BLANK_114	Total/NA	Water	8260D	
240-166740-2	MW-15-61D_051422	Total/NA	Water	8260D	
240-166740-3	MW-42_051422	Total/NA	Water	8260D	
240-166740-4	MW-211S_051422	Total/NA	Water	8260D	
240-166740-5	MW-35_051422	Total/NA	Water	8260D	
MB 240-527862/9	Method Blank	Total/NA	Water	8260D	
LCS 240-527862/5	Lab Control Sample	Total/NA	Water	8260D	
LCSD 240-527862/8	Lab Control Sample Dup	Total/NA	Water	8260D	

Analysis Batch: 527906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-166740-6	MW-212S_051422	Total/NA	Water	8260D	
240-166740-7	MW-213S_051422	Total/NA	Water	8260D	
MB 240-527906/8	Method Blank	Total/NA	Water	8260D	
LCS 240-527906/5	Lab Control Sample	Total/NA	Water	8260D	
240-166782-F-3 MS	Matrix Spike	Total/NA	Water	8260D	
240-166782-F-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	

Lab Chronicle

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

Job ID: 240-166740-1

Client Sample ID: TRIP BLANK_114

Lab Sample ID: 240-166740-1

Date Collected: 05/14/22 00:00

Matrix: Water

Date Received: 05/17/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	527862	05/25/22 19:28	HMB	TAL CAN

Client Sample ID: MW-15-61D_051422

Lab Sample ID: 240-166740-2

Date Collected: 05/14/22 09:20

Matrix: Water

Date Received: 05/17/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	527862	05/25/22 19:52	HMB	TAL CAN
Total/NA	Analysis	8260D SIM		1	527590	05/23/22 21:09	CS	TAL CAN

Client Sample ID: MW-42_051422

Lab Sample ID: 240-166740-3

Date Collected: 05/14/22 10:33

Matrix: Water

Date Received: 05/17/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	527862	05/25/22 20:17	HMB	TAL CAN
Total/NA	Analysis	8260D SIM		1	527590	05/23/22 22:20	CS	TAL CAN

Client Sample ID: MW-211S_051422

Lab Sample ID: 240-166740-4

Date Collected: 05/14/22 11:23

Matrix: Water

Date Received: 05/17/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	527862	05/25/22 20:42	HMB	TAL CAN
Total/NA	Analysis	8260D SIM		1	527590	05/23/22 22:44	CS	TAL CAN

Client Sample ID: MW-35_051422

Lab Sample ID: 240-166740-5

Date Collected: 05/14/22 12:08

Matrix: Water

Date Received: 05/17/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	527862	05/25/22 21:06	HMB	TAL CAN
Total/NA	Analysis	8260D SIM		1	527590	05/23/22 23:09	CS	TAL CAN

Client Sample ID: MW-212S_051422

Lab Sample ID: 240-166740-6

Date Collected: 05/14/22 13:00

Matrix: Water

Date Received: 05/17/22 09:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260D		1	527906	05/25/22 15:51	SAM	TAL CAN
Total/NA	Analysis	8260D SIM		1	527590	05/23/22 23:33	CS	TAL CAN

Lab Chronicle

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

Job ID: 240-166740-1

Client Sample ID: MW-213S_051422

Lab Sample ID: 240-166740-7

Date Collected: 05/14/22 13:55

Matrix: Water

Date Received: 05/17/22 09:30

<u>Prep Type</u>	<u>Batch Type</u>	<u>Batch Method</u>	<u>Run</u>	<u>Dilution Factor</u>	<u>Batch Number</u>	<u>Prepared or Analyzed</u>	<u>Analyst</u>	<u>Lab</u>
Total/NA	Analysis	8260D		1	527906	05/25/22 16:15	SAM	TAL CAN
Total/NA	Analysis	8260D SIM		1	527590	05/23/22 23:57	CS	TAL CAN

Laboratory References:

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

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Accreditation/Certification Summary

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

Job ID: 240-166740-1

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	06-30-22
Georgia	State	4062	02-23-22 *
Illinois	NELAP	200004	07-31-22
Iowa	State	421	06-01-23
Kentucky (UST)	State	112225	02-27-23
Kentucky (WW)	State	KY98016	12-31-22
Minnesota	NELAP	039-999-348	12-31-22
Minnesota (Petrofund)	State	3506	08-01-23
New Jersey	NELAP	OH001	06-30-22
New York	NELAP	10975	04-01-23
Ohio	State	8303	02-23-23
Ohio VAP	State	CL0024	02-27-23
Oregon	NELAP	4062	02-27-23
Pennsylvania	NELAP	68-00340	08-31-22
Texas	NELAP	T104704517-22-16	08-31-22
Virginia	NELAP	11570	09-14-22
Washington	State	C971	01-12-23
West Virginia DEP	State	210	12-31-22

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

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

Regulatory program: DW NPDES RCRA Other

Client Project Manager: Kris Hinskey
Telephone: 269-832-7478
Email: Kristoffer.Hinskey@arcadis.com

Site Contact: Christina Weaver
Telephone: 248-994-2329

Lab Contact: Mike DelMonico
Telephone: 330-966-9783

Company Name: Arcadis
Address: 28550 Cabot Drive, Suite 500
City/State/Zip: Novi, MI, 48377

Phone: 248-994-2240

Project Name: Ford LTP On-Site
Project Number: 30080642.401.03
PO # 30080642.401.03

Sampler Name: CHRISTINA WEAVER
Method of Shipment/Carrier:
Shipping/Tracking No.:

Sample Identification	Sample Date	Sample Time	Matrix				Containers & Preservatives				Filtered Sample (Y/N)	Composite=C / Grab=C	Analyses							Sample Specific Notes / Special Instructions:				
			Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl			ZnAc	NaOH	Impres	Other:	1-DCE 8260D	cis-1,2-DCE 8260D	Trans-1,2-DCE 8260D		PCE 8260D	TCE 8260D	Vinyl Chloride 8260D	1,4-Dioxane 8260D SIM
TRIP BLANK_114	5/14/22	---	1																					1 Trip Blank
MW-15-61D-051422	5/14/22	0920	6																					3 VOAs for 8260D 3 VOAs for 8260D SIM
MW-42-051422	5/14/22	1033	6																					
MW-211S-051422	5/14/22	1123	6																					
MW-35-051422	5/14/22	1208	6																					
MW-212S-051422	5/14/22	1300	6																					
MW-213S-051422	5/14/22	1355	6																					

Possible Hazard Identification
 Non-Hazard Flammable Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained)
 Return to Client Disposal By Lab Arch

Special Instructions/QC Requirements & Comments:



Submit all results through Cadena at jtomalia@cadenaco.com. Cadena #E203728
Level IV Reporting requested.

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
<i>[Signature]</i>	ARCADIS	5/14/22 / 1510	NOVI COLO STORAGE	ARCADIS	5/14/22 / 1510
<i>[Signature]</i>	ARCADIS	5/16/22 / 1200		FETA	5/16/22 / 1200
<i>[Signature]</i>	FETA	5/16/22 / 1250		FETA	5-17-22 0930

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Client Accadis Site Name Ford LTP Cooler unpacked by: DWE
 Cooler Received on 5-17-22 Opened on 5-17-22

FedEx: 1st Grd. 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 See Multiple Cooler Form
 IR GUN# IR-13 (CF 0.0 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN #IR-15 (CF -0.7°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 ea 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 (ID/Date/Time) be reconciled with the COC? Yes No
 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? Yes No
 11. Sufficient quantity received to perform indicated analyses? Yes No
 12. Are these work share samples and all listed on the COC? Yes No
- If yes, Questions 13-17 have been checked at the originating laboratory.
13. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC157842
 14. Were VOAs on the COC? Yes No
 15. Were air bubbles >6 mm in any VOA vials? Larger than this. Yes NA No
 16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # 01042016 Yes No
 17. 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 _____

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

19. 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)

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: _____

