

ANALYTICAL REPORT

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Tel: (330)497-9396

Laboratory Job ID: 240-149873-1
Client Project/Site: Ford LTP Off-Site

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

Attn: Kristoffer Hinskey



Authorized for release by:
6/7/2021 2:38:08 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 Off-Site

Job ID: 240-149873-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
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 Off-Site

Job ID: 240-149873-1

Job ID: 240-149873-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative 240-149873-1

Comments

No additional comments.

Receipt

The samples were received on 5/21/2021 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 1.4° C.

GC/MS VOA

Method 8260B: The Laboratory Control Sample (LCS) for analytical batch 488562 exceeded control criteria for one or multiple compounds. The samples associated with this LCS were non-detect for the affected analytes. In accordance with the laboratory SOP, a low level CCV at the reporting limit (labeled as an MRL) was analyzed and the affected compounds were detected; therefore the data has been reported. No further corrective action was required: TRIP BLANK_69 (240-149873-1), MW-75D_051921 (240-149873-2) and (LCS 240-488562/4).

Method 8260B: The continuing calibration verification (CCV) associated with batch 488142 recovered above the upper control limit for Vinyl Chloride. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The associated samples are impacted: MW-75SR_051921 (240-149873-3), MW-99S_051921 (240-149873-4) and DUP-11 (240-149873-5).

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.

Method Summary

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

Job ID: 240-149873-1

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: 240-149873-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-149873-1	TRIP BLANK_69	Water	05/19/21 00:00	05/21/21 08:00	
240-149873-2	MW-75D_051921	Water	05/19/21 11:32	05/21/21 08:00	
240-149873-3	MW-75SR_051921	Water	05/19/21 13:05	05/21/21 08:00	
240-149873-4	MW-99S_051921	Water	05/19/21 14:50	05/21/21 08:00	
240-149873-5	DUP-11	Water	05/19/21 00:00	05/21/21 08:00	

- 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: 240-149873-1

Client Sample ID: TRIP BLANK_69

Lab Sample ID: 240-149873-1

No Detections.

Client Sample ID: MW-75D_051921

Lab Sample ID: 240-149873-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	1.3	J	2.0	0.86	ug/L	1		8260B SIM	Total/NA
Vinyl chloride	1.9		1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: MW-75SR_051921

Lab Sample ID: 240-149873-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.64	J	1.0	0.20	ug/L	1		8260B	Total/NA

Client Sample ID: MW-99S_051921

Lab Sample ID: 240-149873-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	0.40	J	1.0	0.16	ug/L	1		8260B	Total/NA

Client Sample ID: DUP-11

Lab Sample ID: 240-149873-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	0.75	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 Off-Site

Job ID: 240-149873-1

Client Sample ID: TRIP BLANK_69

Lab Sample ID: 240-149873-1

Date Collected: 05/19/21 00:00

Matrix: Water

Date Received: 05/21/21 08:00

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			06/02/21 13:58	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/02/21 13:58	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/02/21 13:58	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/21 13:58	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/02/21 13:58	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/02/21 13:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		75 - 130		06/02/21 13:58	1
4-Bromofluorobenzene (Surr)	74		47 - 134		06/02/21 13:58	1
Toluene-d8 (Surr)	92		69 - 122		06/02/21 13:58	1
Dibromofluoromethane (Surr)	83		78 - 129		06/02/21 13:58	1

Client Sample Results

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

Job ID: 240-149873-1

Client Sample ID: MW-75D_051921

Lab Sample ID: 240-149873-2

Date Collected: 05/19/21 11:32

Matrix: Water

Date Received: 05/21/21 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.3	J	2.0	0.86	ug/L			05/28/21 01:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		70 - 133		05/28/21 01:55	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	0.19	ug/L			06/02/21 14:20	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/02/21 14:20	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/02/21 14:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/21 14:20	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/02/21 14:20	1
Vinyl chloride	1.9		1.0	0.20	ug/L			06/02/21 14:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		75 - 130		06/02/21 14:20	1
4-Bromofluorobenzene (Surr)	85		47 - 134		06/02/21 14:20	1
Toluene-d8 (Surr)	98		69 - 122		06/02/21 14:20	1
Dibromofluoromethane (Surr)	85		78 - 129		06/02/21 14:20	1

Client Sample Results

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

Job ID: 240-149873-1

Client Sample ID: MW-75SR_051921

Lab Sample ID: 240-149873-3

Date Collected: 05/19/21 13:05

Matrix: Water

Date Received: 05/21/21 08:00

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			05/28/21 14:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		70 - 133					05/28/21 14:53	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	0.19	ug/L			05/29/21 07:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/29/21 07:57	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/29/21 07:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/29/21 07:57	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/29/21 07:57	1
Vinyl chloride	0.64	J	1.0	0.20	ug/L			05/29/21 07:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		75 - 130					05/29/21 07:57	1
4-Bromofluorobenzene (Surr)	82		47 - 134					05/29/21 07:57	1
Toluene-d8 (Surr)	99		69 - 122					05/29/21 07:57	1
Dibromofluoromethane (Surr)	88		78 - 129					05/29/21 07:57	1

Client Sample Results

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

Job ID: 240-149873-1

Client Sample ID: MW-99S_051921

Lab Sample ID: 240-149873-4

Date Collected: 05/19/21 14:50

Matrix: Water

Date Received: 05/21/21 08:00

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			06/01/21 16:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		70 - 133					06/01/21 16:16	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	0.19	ug/L			05/29/21 08:19	1
cis-1,2-Dichloroethene	0.40	J	1.0	0.16	ug/L			05/29/21 08:19	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/29/21 08:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/29/21 08:19	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/29/21 08:19	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/29/21 08:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		75 - 130					05/29/21 08:19	1
4-Bromofluorobenzene (Surr)	81		47 - 134					05/29/21 08:19	1
Toluene-d8 (Surr)	97		69 - 122					05/29/21 08:19	1
Dibromofluoromethane (Surr)	89		78 - 129					05/29/21 08:19	1

Client Sample Results

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

Job ID: 240-149873-1

Client Sample ID: DUP-11

Lab Sample ID: 240-149873-5

Date Collected: 05/19/21 00:00

Matrix: Water

Date Received: 05/21/21 08:00

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			05/28/21 15:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		70 - 133					05/28/21 15:43	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	0.19	ug/L			05/29/21 08:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/29/21 08:42	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/29/21 08:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/29/21 08:42	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/29/21 08:42	1
Vinyl chloride	0.75	J	1.0	0.20	ug/L			05/29/21 08:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		75 - 130					05/29/21 08:42	1
4-Bromofluorobenzene (Surr)	86		47 - 134					05/29/21 08:42	1
Toluene-d8 (Surr)	106		69 - 122					05/29/21 08:42	1
Dibromofluoromethane (Surr)	94		78 - 129					05/29/21 08:42	1

Surrogate Summary

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

Job ID: 240-149873-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (75-130)	BFB (47-134)	TOL (69-122)	DBFM (78-129)
240-149852-C-2 MSD	Matrix Spike Duplicate	89	84	95	87
240-149852-E-2 MS	Matrix Spike	89	89	98	87
240-149873-1	TRIP BLANK_69	89	74	92	83
240-149873-2	MW-75D_051921	92	85	98	85
240-149873-3	MW-75SR_051921	91	82	99	88
240-149873-4	MW-99S_051921	91	81	97	89
240-149873-5	DUP-11	96	86	106	94
240-150024-K-21 MS	Matrix Spike	91	89	98	87
240-150024-P-21 MSD	Matrix Spike Duplicate	91	90	99	89
LCS 240-488142/4	Lab Control Sample	88	89	99	88
LCS 240-488562/4	Lab Control Sample	93	90	103	92
MB 240-488142/6	Method Blank	91	82	97	89
MB 240-488562/6	Method Blank	91	86	96	85

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)
240-149852-G-2 MS	Matrix Spike	93
240-149852-M-2 MSD	Matrix Spike Duplicate	94
240-149873-2	MW-75D_051921	96
240-149873-3	MW-75SR_051921	81
240-149873-4	MW-99S_051921	83
240-149873-5	DUP-11	80
240-149874-G-2 MS	Matrix Spike	83
240-149874-M-2 MSD	Matrix Spike Duplicate	84
240-149975-G-2 MS	Matrix Spike	92
240-149975-M-2 MSD	Matrix Spike Duplicate	90
LCS 240-487909/4	Lab Control Sample	93
LCS 240-488100/4	Lab Control Sample	81
LCS 240-488396/4	Lab Control Sample	93
MB 240-487909/5	Method Blank	98
MB 240-488100/5	Method Blank	83
MB 240-488396/5	Method Blank	93

Surrogate Legend

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

QC Sample Results

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

Job ID: 240-149873-1

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

Lab Sample ID: MB 240-488142/6
Matrix: Water
Analysis Batch: 488142

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	0.19	ug/L			05/29/21 01:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			05/29/21 01:13	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			05/29/21 01:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			05/29/21 01:13	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			05/29/21 01:13	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			05/29/21 01:13	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	91		75 - 130		05/29/21 01:13	1
4-Bromofluorobenzene (Surr)	82		47 - 134		05/29/21 01:13	1
Toluene-d8 (Surr)	97		69 - 122		05/29/21 01:13	1
Dibromofluoromethane (Surr)	89		78 - 129		05/29/21 01:13	1

Lab Sample ID: LCS 240-488142/4
Matrix: Water
Analysis Batch: 488142

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,2-Dichloroethene	10.0	9.32		ug/L		93	75 - 124
Tetrachloroethene	10.0	8.34		ug/L		83	70 - 125
trans-1,2-Dichloroethene	10.0	8.87		ug/L		89	74 - 130
Trichloroethene	10.0	8.42		ug/L		84	71 - 121
Vinyl chloride	10.0	11.5		ug/L		115	61 - 134

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	88		75 - 130
4-Bromofluorobenzene (Surr)	89		47 - 134
Toluene-d8 (Surr)	99		69 - 122
Dibromofluoromethane (Surr)	88		78 - 129

Lab Sample ID: 240-149852-C-2 MSD
Matrix: Water
Analysis Batch: 488142

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
cis-1,2-Dichloroethene	1.0	U	10.0	9.01		ug/L		90	68 - 121	2	35
Tetrachloroethene	1.0	U	10.0	7.78		ug/L		78	52 - 129	3	35
trans-1,2-Dichloroethene	1.0	U	10.0	8.66		ug/L		87	69 - 126	3	35
Trichloroethene	1.0	U	10.0	7.55		ug/L		76	56 - 124	2	35
Vinyl chloride	1.0	U	10.0	10.5		ug/L		105	49 - 136	2	35

Surrogate	MSD	MSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	89		75 - 130
4-Bromofluorobenzene (Surr)	84		47 - 134
Toluene-d8 (Surr)	95		69 - 122

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QC Sample Results

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

Job ID: 240-149873-1

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

Lab Sample ID: 240-149852-C-2 MSD
Matrix: Water
Analysis Batch: 488142

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

<i>Surrogate</i>	<i>%Recovery</i>	<i>MSD Qualifier</i>	<i>MSD Limits</i>
<i>Dibromofluoromethane (Surr)</i>	87		78 - 129

Lab Sample ID: 240-149852-E-2 MS
Matrix: Water
Analysis Batch: 488142

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

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MS Result</i>	<i>MS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>
1,1-Dichloroethene	1.0	U	10.0	8.30		ug/L		83	64 - 132
cis-1,2-Dichloroethene	1.0	U	10.0	8.79		ug/L		88	68 - 121
Tetrachloroethene	1.0	U	10.0	7.57		ug/L		76	52 - 129
trans-1,2-Dichloroethene	1.0	U	10.0	8.38		ug/L		84	69 - 126
Trichloroethene	1.0	U	10.0	7.73		ug/L		77	56 - 124
Vinyl chloride	1.0	U	10.0	10.3		ug/L		103	49 - 136

<i>Surrogate</i>	<i>%Recovery</i>	<i>MS Qualifier</i>	<i>MS Limits</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	89		75 - 130
<i>4-Bromofluorobenzene (Surr)</i>	89		47 - 134
<i>Toluene-d8 (Surr)</i>	98		69 - 122
<i>Dibromofluoromethane (Surr)</i>	87		78 - 129

Lab Sample ID: MB 240-488562/6
Matrix: Water
Analysis Batch: 488562

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

<i>Analyte</i>	<i>MB Result</i>	<i>MB Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,1-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/21 11:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.16	ug/L			06/02/21 11:43	1
Tetrachloroethene	1.0	U	1.0	0.15	ug/L			06/02/21 11:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.19	ug/L			06/02/21 11:43	1
Trichloroethene	1.0	U	1.0	0.10	ug/L			06/02/21 11:43	1
Vinyl chloride	1.0	U	1.0	0.20	ug/L			06/02/21 11:43	1

<i>Surrogate</i>	<i>%Recovery</i>	<i>MB Qualifier</i>	<i>MB Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	91		75 - 130		06/02/21 11:43	1
<i>4-Bromofluorobenzene (Surr)</i>	86		47 - 134		06/02/21 11:43	1
<i>Toluene-d8 (Surr)</i>	96		69 - 122		06/02/21 11:43	1
<i>Dibromofluoromethane (Surr)</i>	85		78 - 129		06/02/21 11:43	1

Lab Sample ID: LCS 240-488562/4
Matrix: Water
Analysis Batch: 488562

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

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec. Limits</i>
1,1-Dichloroethene	10.0	7.17	*	ug/L		72	73 - 129
cis-1,2-Dichloroethene	10.0	8.82		ug/L		88	75 - 124
Tetrachloroethene	10.0	8.32		ug/L		83	70 - 125
trans-1,2-Dichloroethene	10.0	8.16		ug/L		82	74 - 130
Trichloroethene	10.0	7.76		ug/L		78	71 - 121

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-149873-1

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

Lab Sample ID: LCS 240-488562/4

Matrix: Water

Analysis Batch: 488562

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	10.0	10.5		ug/L		105	61 - 134
Surrogate							
	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	93		75 - 130				
4-Bromofluorobenzene (Surr)	90		47 - 134				
Toluene-d8 (Surr)	103		69 - 122				
Dibromofluoromethane (Surr)	92		78 - 129				

Lab Sample ID: 240-150024-K-21 MS

Matrix: Water

Analysis Batch: 488562

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	6.43		ug/L		64	64 - 132
cis-1,2-Dichloroethene	1.0	U	10.0	8.44		ug/L		84	68 - 121
Tetrachloroethene	1.0	U	10.0	8.16		ug/L		82	52 - 129
trans-1,2-Dichloroethene	1.0	U	10.0	7.82		ug/L		78	69 - 126
Trichloroethene	1.0	U	10.0	7.84		ug/L		78	56 - 124
Vinyl chloride	1.0	U	10.0	10.3		ug/L		103	49 - 136
Surrogate									
	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	91		75 - 130						
4-Bromofluorobenzene (Surr)	89		47 - 134						
Toluene-d8 (Surr)	98		69 - 122						
Dibromofluoromethane (Surr)	87		78 - 129						

Lab Sample ID: 240-150024-P-21 MSD

Matrix: Water

Analysis Batch: 488562

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	1.0	U *-	10.0	7.85		ug/L		78	64 - 132	20	35
cis-1,2-Dichloroethene	1.0	U	10.0	8.78		ug/L		88	68 - 121	4	35
Tetrachloroethene	1.0	U	10.0	9.15		ug/L		92	52 - 129	11	35
trans-1,2-Dichloroethene	1.0	U	10.0	8.35		ug/L		84	69 - 126	7	35
Trichloroethene	1.0	U	10.0	8.00		ug/L		80	56 - 124	2	35
Vinyl chloride	1.0	U	10.0	11.4		ug/L		114	49 - 136	10	35
Surrogate											
	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	91		75 - 130								
4-Bromofluorobenzene (Surr)	90		47 - 134								
Toluene-d8 (Surr)	99		69 - 122								
Dibromofluoromethane (Surr)	89		78 - 129								

QC Sample Results

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

Job ID: 240-149873-1

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

Lab Sample ID: MB 240-487909/5
Matrix: Water
Analysis Batch: 487909

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			05/27/21 16:20	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		70 - 133					05/27/21 16:20	1

Lab Sample ID: LCS 240-487909/4
Matrix: Water
Analysis Batch: 487909

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	10.3		ug/L		103	80 - 135
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	93		70 - 133				

Lab Sample ID: 240-149852-G-2 MS
Matrix: Water
Analysis Batch: 487909

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	10.9		ug/L		109	46 - 170
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	93		70 - 133						

Lab Sample ID: 240-149852-M-2 MSD
Matrix: Water
Analysis Batch: 487909

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	Limit
1,4-Dioxane	2.0	U	10.0	10.4		ug/L		104	46 - 170	4	26
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	94		70 - 133								

Lab Sample ID: MB 240-488100/5
Matrix: Water
Analysis Batch: 488100

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			05/28/21 13:14	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		70 - 133					05/28/21 13:14	1

Eurofins TestAmerica, Canton

QC Sample Results

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

Job ID: 240-149873-1

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

Lab Sample ID: LCS 240-488100/4
Matrix: Water
Analysis Batch: 488100

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	9.05		ug/L		90	80 - 135
Surrogate	%Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	81		70 - 133				

Lab Sample ID: 240-149874-G-2 MS
Matrix: Water
Analysis Batch: 488100

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	10.8		ug/L		108	46 - 170
Surrogate	%Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	83		70 - 133						

Lab Sample ID: 240-149874-M-2 MSD
Matrix: Water
Analysis Batch: 488100

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	Limit
1,4-Dioxane	2.0	U	10.0	10.8		ug/L		108	46 - 170	0	26
Surrogate	%Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	84		70 - 133								

Lab Sample ID: MB 240-488396/5
Matrix: Water
Analysis Batch: 488396

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			06/01/21 15:19	1	
Surrogate	%Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac				
1,2-Dichloroethane-d4 (Surr)	93		70 - 133		06/01/21 15:19	1				

Lab Sample ID: LCS 240-488396/4
Matrix: Water
Analysis Batch: 488396

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	10.3		ug/L		103	80 - 135
Surrogate	%Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	93		70 - 133				

QC Sample Results

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

Job ID: 240-149873-1

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

Lab Sample ID: 240-149975-G-2 MS
Matrix: Water
Analysis Batch: 488396

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	10.3		ug/L		103	46 - 170
Surrogate									
	<i>MS</i>	<i>MS</i>							
1,2-Dichloroethane-d4 (Surr)	92	Qualifier	Limits						70 - 133

Lab Sample ID: 240-149975-M-2 MSD
Matrix: Water
Analysis Batch: 488396

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	10.1		ug/L		101	46 - 170	2	26
Surrogate											
	<i>MSD</i>	<i>MSD</i>									
1,2-Dichloroethane-d4 (Surr)	90	Qualifier	Limits								70 - 133



QC Association Summary

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

Job ID: 240-149873-1

GC/MS VOA

Analysis Batch: 487909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149873-2	MW-75D_051921	Total/NA	Water	8260B SIM	
MB 240-487909/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-487909/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-149852-G-2 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-149852-M-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Analysis Batch: 488100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149873-3	MW-75SR_051921	Total/NA	Water	8260B SIM	
240-149873-5	DUP-11	Total/NA	Water	8260B SIM	
MB 240-488100/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-488100/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-149874-G-2 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-149874-M-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Analysis Batch: 488142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149873-3	MW-75SR_051921	Total/NA	Water	8260B	
240-149873-4	MW-99S_051921	Total/NA	Water	8260B	
240-149873-5	DUP-11	Total/NA	Water	8260B	
MB 240-488142/6	Method Blank	Total/NA	Water	8260B	
LCS 240-488142/4	Lab Control Sample	Total/NA	Water	8260B	
240-149852-C-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
240-149852-E-2 MS	Matrix Spike	Total/NA	Water	8260B	

Analysis Batch: 488396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149873-4	MW-99S_051921	Total/NA	Water	8260B SIM	
MB 240-488396/5	Method Blank	Total/NA	Water	8260B SIM	
LCS 240-488396/4	Lab Control Sample	Total/NA	Water	8260B SIM	
240-149975-G-2 MS	Matrix Spike	Total/NA	Water	8260B SIM	
240-149975-M-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B SIM	

Analysis Batch: 488562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-149873-1	TRIP BLANK_69	Total/NA	Water	8260B	
240-149873-2	MW-75D_051921	Total/NA	Water	8260B	
MB 240-488562/6	Method Blank	Total/NA	Water	8260B	
LCS 240-488562/4	Lab Control Sample	Total/NA	Water	8260B	
240-150024-K-21 MS	Matrix Spike	Total/NA	Water	8260B	
240-150024-P-21 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Lab Chronicle

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

Job ID: 240-149873-1

Client Sample ID: TRIP BLANK_69

Lab Sample ID: 240-149873-1

Date Collected: 05/19/21 00:00

Matrix: Water

Date Received: 05/21/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	488562	06/02/21 13:58	LEE	TAL CAN

Client Sample ID: MW-75D_051921

Lab Sample ID: 240-149873-2

Date Collected: 05/19/21 11:32

Matrix: Water

Date Received: 05/21/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	488562	06/02/21 14:20	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	487909	05/28/21 01:55	CS	TAL CAN

Client Sample ID: MW-75SR_051921

Lab Sample ID: 240-149873-3

Date Collected: 05/19/21 13:05

Matrix: Water

Date Received: 05/21/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	488142	05/29/21 07:57	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	488100	05/28/21 14:53	CS	TAL CAN

Client Sample ID: MW-99S_051921

Lab Sample ID: 240-149873-4

Date Collected: 05/19/21 14:50

Matrix: Water

Date Received: 05/21/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	488142	05/29/21 08:19	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	488396	06/01/21 16:16	CS	TAL CAN

Client Sample ID: DUP-11

Lab Sample ID: 240-149873-5

Date Collected: 05/19/21 00:00

Matrix: Water

Date Received: 05/21/21 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	488142	05/29/21 08:42	LEE	TAL CAN
Total/NA	Analysis	8260B SIM		1	488100	05/28/21 15:43	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.
 Project/Site: Ford LTP Off-Site

Job ID: 240-149873-1

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	02-23-22
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-22
Illinois	NELAP	200004	07-31-21
Iowa	State	421	06-01-21 *
Kansas	NELAP	E-10336	04-30-21 *
Kentucky (UST)	State	112225	02-23-22
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

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



1-3/14

Chain of Custody Record

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

Regulatory program: DW NPDES RCRA Other

Client Contact: Arcadis
Address: 28550 Cabot Drive, Suite 500
City/State/Zip: Novi, MI, 48377
Phone: 248-994-2240
Project Name: Ford LTP Off-Site
Project Number: 30080642.402.04
PO # 30080642.402.04

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

Site Contact: Julia McClafferty
Telephone: 734-644-5131

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

TestAmerica Laboratories, Inc.
COC No: 1 of 1 COCs

Sample Identification	Sample Date	Sample Time	Matrix				Containers & Preservatives				Filtered Sample (Y/N)	Composite C/Grab G	Analyses						Sample Specific Notes / Special Instructions:						
			Air	Aqueous	Sediment	Solid	Other:	H2SO4	HNO3	HCl			NaOH	NaOH	U/Pres	Other:	1,1-DCE 8260B	cis-1,2-DCE 8260B		Trans-1,2-DCE 8260B	PCE 8260B	TCE 8260B	Vinyl Chloride 8260B	1,4-Dioxane 8260B SIM	
Trip Blank - GA	---	---	X																					1 Trip Blank	
MW-75D-051921	5/19/21	1132	X																						3 VOAs for 8260B 3 VOAs for 8260B SIM
MW-75SR-051921	5/19/21	1305	X																						
NW-99S-051921	5/19/21	1450	X																						
DUP-11	5/19/21	-	X																						



Possible Hazard Identification
 Non-Hazard
 Flammable
 Irritant

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

Relinquished by: *Andrew Bonitt* Date/Time: 5/19/21 1545 Company: Arcadis
 Relinquished by: *Andrew Bonitt* Date/Time: 5/20/21 Company: Arcadis
 Relinquished by: *Andrew Bonitt* Date/Time: 5/20/21 14:08 Company: ETA

Received by: *Novor Gold Storage* Date/Time: 5/19/21 1545 Company: Arcadis
 Received by: *Andrew Bonitt* Date/Time: 5/20/21 1956 Company: ETA
 Received in Laboratory by: *WMM* Date/Time: 5/21/21 800 Company: ETA

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**Eurofins TestAmerica Canton Sample Receipt Form/Narrative
Canton Facility**

Login # : 149873

Client Arcadis Site Name _____ Cooler unpacked by: COLM G.
Cooler Received on 5-21-21 Opened on 5-21-21

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

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

TestAmerica Cooler # JA 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-11 (CF +0.1 °C) Observed Cooler Temp. 1.3 °C Corrected Cooler Temp. 1.4 °C
IR GUN #IR-12 (CF +0.2°C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
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? Yes No NA
- Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No NA
- 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# HC022887
14. Were VOAs on the COC? Yes No
15. Were air bubbles >6 mm in any VOA vials? Yes No NA
Larger than this NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # NA 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: _____