

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Seattle
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Tel: (253)922-2310

TestAmerica Job ID: 580-79795-1

Client Project/Site: Portland Harbor Pre-Remedial Design

For:

AECOM
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Seattle, Washington 98101

Attn: Amy Dahl

M. Elaine Walker

Authorized for release by:
10/15/2018 4:13:42 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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Case Narrative

Client: AECOM
Project/Site: Portland Harbor Pre-Remedial Design

TestAmerica Job ID: 580-79795-1

Job ID: 580-79795-1

Laboratory: TestAmerica Seattle

Narrative

CASE NARRATIVE

Client: AECOM

Project: Portland Harbor Pre-Remedial Design

Report Number: 580-79795-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) resulting from a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are an unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes within the calibration range of the instrument or that reduces the interferences thereby enabling the quantification of target analytes.

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.

RECEIPT

One sample was received on 8/22/2018 2:45 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2° C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Sample PDI-RB-VV-180818 (580-79795-1) was analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270D. The sample was prepared on 08/24/2018 and analyzed on 08/28/2018.

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

SEMIVOLATILE ORGANIC COMPOUNDS - SELECTED ION MODE (SIM)

Sample PDI-RB-VV-180818 (580-79795-1) was analyzed for semivolatile organic compounds - Selected Ion Mode (SIM) in accordance with 8270D SIM. The sample was prepared on 08/24/2018 and analyzed on 08/27/2018.

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

ORGANOTINS BY GC/MS

Sample PDI-RB-VV-180818 (580-79795-1) was analyzed for Organotins by GC/MS in accordance with the Krone Method. The sample was prepared on 09/24/2018 and analyzed on 10/09/2018.

Tributyltin exceeded the RPD limit for LCSD 580-284792/3-A. The LCS and LCSD recoveries met acceptance limits.

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

Definitions/Glossary

Client: AECOM
Project/Site: Portland Harbor Pre-Remedial Design

TestAmerica Job ID: 580-79795-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
H	Sample was prepped or analyzed beyond the specified holding time

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
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)

Client Sample Results

Client: AECOM
Project/Site: Portland Harbor Pre-Remedial Design

TestAmerica Job ID: 580-79795-1

Client Sample ID: PDI-RB-VV-180818

Date Collected: 08/18/18 16:30

Date Received: 08/22/18 14:45

Lab Sample ID: 580-79795-1

Matrix: Water

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10	0.018	ug/L		08/24/18 15:52	08/27/18 16:39	1
2-Methylnaphthalene	ND		0.10	0.020	ug/L		08/24/18 15:52	08/27/18 16:39	1
Acenaphthylene	ND		0.20	0.044	ug/L		08/24/18 15:52	08/27/18 16:39	1
Acenaphthene	ND		0.10	0.0060	ug/L		08/24/18 15:52	08/27/18 16:39	1
Fluorene	ND		0.10	0.013	ug/L		08/24/18 15:52	08/27/18 16:39	1
Phenanthrene	ND		0.10	0.019	ug/L		08/24/18 15:52	08/27/18 16:39	1
Anthracene	ND		0.10	0.0070	ug/L		08/24/18 15:52	08/27/18 16:39	1
Fluoranthene	ND		0.10	0.013	ug/L		08/24/18 15:52	08/27/18 16:39	1
Pyrene	ND		0.10	0.0090	ug/L		08/24/18 15:52	08/27/18 16:39	1
Benzo[a]anthracene	ND		0.10	0.0060	ug/L		08/24/18 15:52	08/27/18 16:39	1
Chrysene	ND		0.10	0.0060	ug/L		08/24/18 15:52	08/27/18 16:39	1
Benzo[b]fluoranthene	ND		0.10	0.0060	ug/L		08/24/18 15:52	08/27/18 16:39	1
Benzo[k]fluoranthene	ND		0.10	0.013	ug/L		08/24/18 15:52	08/27/18 16:39	1
Benzo[a]pyrene	ND		0.10	0.035	ug/L		08/24/18 15:52	08/27/18 16:39	1
Indeno[1,2,3-cd]pyrene	ND		0.10	0.0060	ug/L		08/24/18 15:52	08/27/18 16:39	1
Dibenz(a,h)anthracene	ND		0.10	0.0060	ug/L		08/24/18 15:52	08/27/18 16:39	1
Benzo[g,h,i]perylene	ND		0.20	0.076	ug/L		08/24/18 15:52	08/27/18 16:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14	86		54 - 120	08/24/18 15:52	08/27/18 16:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	ND		15	6.3	ug/L		08/24/18 15:52	08/28/18 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	103		55 - 126	08/24/18 15:52	08/28/18 16:04	1

Method: Organotins - Organotins, PSEP (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyltin	ND	H *	0.33	0.051	ug/L		09/24/18 15:49	10/09/18 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenyltin	76		10 - 142	09/24/18 15:49	10/09/18 14:10	1

TestAmerica Seattle

QC Sample Results

Client: AECOM
Project/Site: Portland Harbor Pre-Remedial Design

TestAmerica Job ID: 580-79795-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 580-282427/1-A

Matrix: Water

Analysis Batch: 282634

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 282427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	ND		15	6.3	ug/L		08/24/18 15:52	08/28/18 13:36	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	103		55 - 126				08/24/18 15:52	08/28/18 13:36	1

Lab Sample ID: LCS 580-282427/2-A

Matrix: Water

Analysis Batch: 282634

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 282427

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
Bis(2-ethylhexyl) phthalate	2.00	ND		ug/L		116	20 - 150		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
Terphenyl-d14 (Surr)	105		55 - 126						

Lab Sample ID: LCSD 580-282427/3-A

Matrix: Water

Analysis Batch: 282634

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 282427

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Bis(2-ethylhexyl) phthalate	2.00	ND		ug/L		95	20 - 150	20	35
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
Terphenyl-d14 (Surr)	97		55 - 126						

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 580-282427/1-A

Matrix: Water

Analysis Batch: 282550

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 282427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	ND		0.10	0.018	ug/L		08/24/18 15:52	08/27/18 15:22	1
2-Methylnaphthalene	ND		0.10	0.020	ug/L		08/24/18 15:52	08/27/18 15:22	1
Acenaphthylene	ND		0.20	0.044	ug/L		08/24/18 15:52	08/27/18 15:22	1
Acenaphthene	ND		0.10	0.0060	ug/L		08/24/18 15:52	08/27/18 15:22	1
Fluorene	ND		0.10	0.013	ug/L		08/24/18 15:52	08/27/18 15:22	1
Phenanthrene	ND		0.10	0.019	ug/L		08/24/18 15:52	08/27/18 15:22	1
Anthracene	ND		0.10	0.0070	ug/L		08/24/18 15:52	08/27/18 15:22	1
Fluoranthene	ND		0.10	0.013	ug/L		08/24/18 15:52	08/27/18 15:22	1
Pyrene	ND		0.10	0.0090	ug/L		08/24/18 15:52	08/27/18 15:22	1
Benzo[a]anthracene	ND		0.10	0.0060	ug/L		08/24/18 15:52	08/27/18 15:22	1
Chrysene	ND		0.10	0.0060	ug/L		08/24/18 15:52	08/27/18 15:22	1
Benzo[b]fluoranthene	ND		0.10	0.0060	ug/L		08/24/18 15:52	08/27/18 15:22	1
Benzo[k]fluoranthene	ND		0.10	0.013	ug/L		08/24/18 15:52	08/27/18 15:22	1
Benzo[a]pyrene	ND		0.10	0.035	ug/L		08/24/18 15:52	08/27/18 15:22	1
Indeno[1,2,3-cd]pyrene	ND		0.10	0.0060	ug/L		08/24/18 15:52	08/27/18 15:22	1

TestAmerica Seattle

QC Sample Results

Client: AECOM
Project/Site: Portland Harbor Pre-Remedial Design

TestAmerica Job ID: 580-79795-1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: MB 580-282427/1-A

Matrix: Water

Analysis Batch: 282550

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 282427

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		0.10	0.0060	ug/L		08/24/18 15:52	08/27/18 15:22	1
Benzo[g,h,i]perylene	ND		0.20	0.076	ug/L		08/24/18 15:52	08/27/18 15:22	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
Terphenyl-d14	90		54 - 120				08/24/18 15:52	08/27/18 15:22	1

Lab Sample ID: LCS 580-282427/2-A

Matrix: Water

Analysis Batch: 282550

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 282427

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits		
Naphthalene	2.00	1.76		ug/L		88	58 - 120		
2-Methylnaphthalene	2.00	1.91		ug/L		95	53 - 120		
Acenaphthylene	2.00	1.96		ug/L		98	33 - 130		
Acenaphthene	2.00	1.88		ug/L		94	64 - 120		
Fluorene	2.00	1.95		ug/L		98	67 - 120		
Phenanthrene	2.00	1.90		ug/L		95	69 - 120		
Anthracene	2.00	1.95		ug/L		97	46 - 127		
Fluoranthene	2.00	1.93		ug/L		97	72 - 120		
Pyrene	2.00	1.94		ug/L		97	57 - 133		
Benzo[a]anthracene	2.00	1.99		ug/L		100	70 - 120		
Chrysene	2.00	1.78		ug/L		89	65 - 120		
Benzo[b]fluoranthene	2.00	1.98		ug/L		99	57 - 132		
Benzo[k]fluoranthene	2.00	2.11		ug/L		105	61 - 132		
Benzo[a]pyrene	2.00	1.82		ug/L		91	23 - 141		
Indeno[1,2,3-cd]pyrene	2.00	1.99		ug/L		99	53 - 133		
Dibenz(a,h)anthracene	2.00	2.02		ug/L		101	57 - 132		
Benzo[g,h,i]perylene	2.00	2.08		ug/L		104	52 - 129		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
Terphenyl-d14	87		54 - 120						

Lab Sample ID: LCSD 580-282427/3-A

Matrix: Water

Analysis Batch: 282550

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 282427

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Naphthalene	2.00	1.69		ug/L		85	58 - 120	4	23
2-Methylnaphthalene	2.00	1.82		ug/L		91	53 - 120	5	23
Acenaphthylene	2.00	1.83		ug/L		92	33 - 130	7	34
Acenaphthene	2.00	1.77		ug/L		89	64 - 120	6	20
Fluorene	2.00	1.82		ug/L		91	67 - 120	7	20
Phenanthrene	2.00	1.77		ug/L		89	69 - 120	7	21
Anthracene	2.00	1.80		ug/L		90	46 - 127	8	19
Fluoranthene	2.00	1.80		ug/L		90	72 - 120	7	21
Pyrene	2.00	1.79		ug/L		90	57 - 133	8	21
Benzo[a]anthracene	2.00	1.76		ug/L		88	70 - 120	12	17
Chrysene	2.00	1.76		ug/L		88	65 - 120	1	19

TestAmerica Seattle

QC Sample Results

Client: AECOM
Project/Site: Portland Harbor Pre-Remedial Design

TestAmerica Job ID: 580-79795-1

Method: 8270D SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCSD 580-282427/3-A

Matrix: Water

Analysis Batch: 282550

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 282427

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[b]fluoranthene	2.00	1.90		ug/L		95	57 - 132	4	25
Benzo[k]fluoranthene	2.00	1.94		ug/L		97	61 - 132	8	22
Benzo[a]pyrene	2.00	1.68		ug/L		84	23 - 141	8	35
Indeno[1,2,3-cd]pyrene	2.00	1.80		ug/L		90	53 - 133	10	25
Dibenz(a,h)anthracene	2.00	1.93		ug/L		96	57 - 132	5	24
Benzo[g,h,i]perylene	2.00	1.96		ug/L		98	52 - 129	6	24

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Terphenyl-d14	80		54 - 120

Method: Organotins - Organotins, PSEP (GC/MS)

Lab Sample ID: MB 580-284792/1-A

Matrix: Water

Analysis Batch: 285980

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 284792

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tributyltin	ND		0.30	0.046	ug/L		09/24/18 15:49	10/09/18 10:45	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Triphenyltin	77		10 - 142	09/24/18 15:49	10/09/18 10:45	1

Lab Sample ID: LCS 580-284792/2-A

Matrix: Water

Analysis Batch: 285980

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 284792

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Tributyltin	0.892	0.479		ug/L		54	11 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Triphenyltin	56		10 - 142

Lab Sample ID: LCSD 580-284792/3-A

Matrix: Water

Analysis Batch: 285980

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 284792

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tributyltin	0.892	0.741	*	ug/L		83	11 - 150	43	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Triphenyltin	78		10 - 142

TestAmerica Seattle

Lab Chronicle

Client: AECOM
Project/Site: Portland Harbor Pre-Remedial Design

TestAmerica Job ID: 580-79795-1

Client Sample ID: PDI-RB-VV-180818

Date Collected: 08/18/18 16:30

Date Received: 08/22/18 14:45

Lab Sample ID: 580-79795-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			282427	08/24/18 15:52	BAH	TAL SEA
Total/NA	Analysis	8270D		1	282634	08/28/18 16:04	TL1	TAL SEA
Total/NA	Prep	3520C			282427	08/24/18 15:52	BAH	TAL SEA
Total/NA	Analysis	8270D SIM		1	282550	08/27/18 16:39	W1T	TAL SEA
Total/NA	Prep	Organotin			284792	09/24/18 15:49	JSM	TAL SEA
Total/NA	Analysis	Organotins		1	285980	10/09/18 14:10	ADB	TAL SEA

Laboratory References:

TAL SEA = TestAmerica Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: AECOM

TestAmerica Job ID: 580-79795-1

Project/Site: Portland Harbor Pre-Remedial Design

Laboratory: TestAmerica Seattle

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
Alaska (UST)	State Program	10	17-024	01-19-19
ANAB	DoD ELAP		L2236	01-19-19
ANAB	ISO/IEC 17025		L2236	01-19-19
California	State Program	9	2901	11-05-18
Montana (UST)	State Program	8	N/A	04-30-20
Nevada	State Program	9	WA000502019-1	07-31-19
Oregon	NELAP	10	WA100007	11-05-18
US Fish & Wildlife	Federal		LE058448-0	07-31-19
USDA	Federal		P330-14-00126	02-10-20
Washington	State Program	10	C553	02-17-19

Sample Summary

Client: AECOM

Project/Site: Portland Harbor Pre-Remedial Design

TestAmerica Job ID: 580-79795-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-79795-1	PDI-RB-VV-180818	Water	08/18/18 16:30	08/22/18 14:45

1

2

3

4

5

6

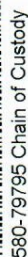
7

8

9

10

11



SURFACE SEDIMENT CHAIN OF CUSTODY

10/15/2018



580-79795 Chain of Custody

$$IR_{\text{N}} = 1.8 / 1.8 \text{ W/C.S.}$$

Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-79795-1

Login Number: 79795

List Source: TestAmerica Seattle

List Number: 1

Creator: Antonson, Angeline D

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	