TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Seattle
5755 8th Street East
Tacoma, WA 98424
Tel: (253)922-2310

TestAmerica Job ID: 580-79671-1
Client Project/Site: Portland Harbor Pre-Remedial Design

For:
AECOM
1111 Third Ave
Suite 1600
Seattle, Washington 98101

Attn: Amy Dahl

M. Elaine Walker

Authorized for release by:
10/9/2018 11:50:45 AM

Elaine Walker, Project Manager II
(253)248-4972
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Table of Contents

Job ID: 580-79671-1

Laboratory: TestAmerica Seattle

Narrative

CASE NARRATIVE
Client: AECOM
Project: Portland Harbor Pre-Remedial Design
Report Number: 580-79671-1

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 8/17/2018 3:30 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.7º C.

A sample container was provided to be archived frozen at the TestAmerica Sacramento laboratory pending potential additional analyses.

This report contains results of all analyses performed by TestAmerica Seattle.

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 - SELECTED ION MODE (SIM)

Sample PDI-SG-S167 (580-79671-1) was analyzed for semivolatile organic compounds - Selected Ion Mode (SIM) in accordance with SW846 8270D_SIM. The sample was prepared on 10/03/2018 and analyzed on 10/04/2018 and 10/06/2018.
TestAmerica confirmed that the PAH container was placed in the freezer on 8/28/18 and removed on 10/2/18 to prep for analysis. CC 10/10/18
Terphenyl-d14 failed the surrogate recovery criteria low for PDI-SG-S167 (580-79671-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis were not performed.

Acenaphthylene failed the recovery criteria high for LCS 580-285535/2-A. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

The following sample was diluted due to the nature of the sample matrix: PDI-SG-S167 (580-79671-1). Elevated reporting limits (RLs) are provided.

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

TOTAL ORGANIC CARBON

Sample PDI-SG-S167 (580-79671-1) was analyzed for total organic carbon in accordance with EPA SW-846 Method 9060. The sample was analyzed on 08/30/2018.

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

Job ID: 580-79671-1 (Continued)

Laboratory: TestAmerica Seattle (Continued)

GRAIN SIZE

Sample PDI-SG-S167 (580-79671-1) was analyzed for grain size in accordance with ASTM D7928/D6913. The sample was analyzed on 09/04/2018.

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

PERCENT SOLIDS

Sample PDI-SG-S167 (580-79671-1) was analyzed for percent solids in accordance with ASTM D2216. The sample was analyzed on 09/19/2018.

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

TOTAL SOLIDS @ 70C

Sample PDI-SG-S167 (580-79671-1) was analyzed for Total Solids @ 70C. The sample was analyzed on 09/04/2018.

No 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: 580-79671-1

Qualifiers

GC/MS Semi 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.
X	Surrogate is outside control limits
*	LCS or LCSD is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
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.
¤	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 ID: PDI-SG-S167
Date Collected: 08/16/18 09:20
Date Received: 08/17/18 15:30

Lab Sample ID: 580-79671-1
Matrix: Solid
Percent Solids: 45.2

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	14	J	22	1.9	ug/Kg	☼	10/03/18 09:06	10/04/18 20:23	10
Anthracene	33		22	2.6	ug/Kg	☼	10/03/18 09:06	10/04/18 20:23	10
Benzo[a]anthracene	33		22	3.3	ug/Kg	☼	10/03/18 09:06	10/04/18 20:23	10
Benzo[a]pyrene	33		22	1.7	ug/Kg	☼	10/03/18 09:06	10/04/18 20:23	10
Benzo[g,h,i]perylene	32		22	2.2	ug/Kg	☼	10/03/18 09:06	10/04/18 20:23	10
Chrysene	40		22	6.5	ug/Kg	☼	10/03/18 09:06	10/04/18 20:23	10
Dibenz(a,h)anthracene	ND		22	3.1	ug/Kg	☼	10/03/18 09:06	10/04/18 20:23	10
Indeno[1,2,3-cd]pyrene	32		22	2.6	ug/Kg	☼	10/03/18 09:06	10/04/18 20:23	10
Naphthalene	20	J	22	3.4	ug/Kg	☼	10/03/18 09:06	10/04/18 20:23	10
Phenanthrene	160		22	3.0	ug/Kg	☼	10/03/18 09:06	10/04/18 20:23	10
Pyrene	54		22	4.2	ug/Kg	☼	10/03/18 09:06	10/04/18 20:23	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*55*	*X*	*57 - 120*	*10/03/18 09:06*	*10/04/18 20:23*	*10*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	25		22	2.6	ug/Kg	☼	10/03/18 09:06	10/06/18 17:14	10
Acenaphthylene	4.4	J *	22	2.2	ug/Kg	☼	10/03/18 09:06	10/06/18 17:14	10
Benzo[b]fluoranthene	49		22	2.5	ug/Kg	☼	10/03/18 09:06	10/06/18 17:14	10
Benzo[k]fluoranthene	18	J	22	2.6	ug/Kg	☼	10/03/18 09:06	10/06/18 17:14	10
Fluoranthene	99		22	6.0	ug/Kg	☼	10/03/18 09:06	10/06/18 17:14	10
Fluorene	29		22	2.2	ug/Kg	☼	10/03/18 09:06	10/06/18 17:14	10

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	53000		2000	44	mg/Kg			08/30/18 18:53	1
Total Solids	45.2		0.1	0.1	%			09/19/18 13:47	1
Total Solids @ 70°C	45	H	0.10	0.10	%			09/04/18 13:37	1

Method: D7928/D6913 - ASTM D7928/D6913

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Clay	7.9				%			09/04/18 13:37	1
Coarse Sand	0.2				%			09/04/18 13:37	1
Fine Sand	37.0				%			09/04/18 13:37	1
Gravel	0.2				%			09/04/18 13:37	1
Medium Sand	0.5				%			09/04/18 13:37	1
Silt	54.2				%			09/04/18 13:37	1

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

Lab Sample ID: MB 580-285535/1-A
Matrix: Solid
Analysis Batch: 285645

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 285535

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		1.0	0.090	ug/Kg		10/03/18 09:05	10/04/18 10:55	1
Anthracene	ND		1.0	0.12	ug/Kg		10/03/18 09:05	10/04/18 10:55	1
Benzo[a]anthracene	ND		1.0	0.15	ug/Kg		10/03/18 09:05	10/04/18 10:55	1
Benzo[a]pyrene	ND		1.0	0.080	ug/Kg		10/03/18 09:05	10/04/18 10:55	1
Benzo[g,h,i]perylene	ND		1.0	0.10	ug/Kg		10/03/18 09:05	10/04/18 10:55	1
Chrysene	ND		1.0	0.30	ug/Kg		10/03/18 09:05	10/04/18 10:55	1
Dibenz(a,h)anthracene	ND		1.0	0.14	ug/Kg		10/03/18 09:05	10/04/18 10:55	1
Indeno[1,2,3-cd]pyrene	ND		1.0	0.12	ug/Kg		10/03/18 09:05	10/04/18 10:55	1
Naphthalene	ND		1.0	0.16	ug/Kg		10/03/18 09:05	10/04/18 10:55	1
Phenanthrene	ND		1.0	0.14	ug/Kg		10/03/18 09:05	10/04/18 10:55	1
Pyrene	ND		1.0	0.19	ug/Kg		10/03/18 09:05	10/04/18 10:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14	*83*		*57 - 120*	*10/03/18 09:05*	*10/04/18 10:55*	*1*

Lab Sample ID: LCS 580-285535/2-A
Matrix: Solid
Analysis Batch: 285645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 285535

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	200	170		ug/Kg		85	68 - 120
Anthracene	200	196		ug/Kg		98	73 - 125
Benzo[a]anthracene	200	184		ug/Kg		92	66 - 120
Benzo[a]pyrene	200	181		ug/Kg		91	72 - 124
Benzo[g,h,i]perylene	200	195		ug/Kg		97	63 - 120
Chrysene	200	175		ug/Kg		88	69 - 120
Dibenz(a,h)anthracene	200	188		ug/Kg		94	70 - 125
Indeno[1,2,3-cd]pyrene	200	190		ug/Kg		95	65 - 121
Naphthalene	200	173		ug/Kg		86	70 - 120
Phenanthrene	200	189		ug/Kg		95	73 - 120
Pyrene	200	183		ug/Kg		92	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14	*70*		*57 - 120*

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

Lab Sample ID: MB 580-285535/1-A
Matrix: Solid
Analysis Batch: 285848

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 285535

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene - RA	ND		1.0	0.12	ug/Kg		10/03/18 09:05	10/06/18 11:29	1
Acenaphthylene - RA	ND		1.0	0.10	ug/Kg		10/03/18 09:05	10/06/18 11:29	1
Benzo[b]fluoranthene - RA	ND		1.0	0.12	ug/Kg		10/03/18 09:05	10/06/18 11:29	1
Benzo[k]fluoranthene - RA	ND		1.0	0.12	ug/Kg		10/03/18 09:05	10/06/18 11:29	1
Fluoranthene - RA	ND		1.0	0.28	ug/Kg		10/03/18 09:05	10/06/18 11:29	1

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

Lab Sample ID: MB 580-285535/1-A
Matrix: Solid
Analysis Batch: 285848

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 285535

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene - RA	ND		1.0	0.10	ug/Kg		10/03/18 09:05	10/06/18 11:29	1
Phenanthrene - RA	ND		1.0	0.14	ug/Kg		10/03/18 09:05	10/06/18 11:29	1
Pyrene - RA	ND		1.0	0.19	ug/Kg		10/03/18 09:05	10/06/18 11:29	1

Lab Sample ID: LCS 580-285535/2-A
Matrix: Solid
Analysis Batch: 285848

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 285535

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene - RA	200	178		ug/Kg		89	68 - 120
Acenaphthylene - RA	200	131	*	ug/Kg		66	68 - 120
Benzo[b]fluoranthene - RA	200	195		ug/Kg		97	63 - 121
Benzo[k]fluoranthene - RA	200	190		ug/Kg		95	63 - 123
Fluoranthene - RA	200	181		ug/Kg		91	74 - 125
Fluorene - RA	200	187		ug/Kg		93	73 - 120
Phenanthrene - RA	200	180		ug/Kg		90	73 - 120
Pyrene - RA	200	175		ug/Kg		87	70 - 120

Method: 9060_PSEP - TOC (Puget Sound)

Lab Sample ID: MB 580-282945/5
Matrix: Solid
Analysis Batch: 282945

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon - Duplicates	ND		2000	44	mg/Kg			08/30/18 17:08	1

Lab Sample ID: LCS 580-282945/6
Matrix: Solid
Analysis Batch: 282945

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - Duplicates	4270	6190		mg/Kg		145	68 - 149

Lab Sample ID: LCSD 580-282945/7
Matrix: Solid
Analysis Batch: 282945

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon - Duplicates	4270	6210		mg/Kg		145	68 - 149	0	32

Lab Chronicle

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

TestAmerica Job ID: 580-79671-1

Client Sample ID: PDI-SG-S167

Lab Sample ID: 580-79671-1

Date Collected: 08/16/18 09:20

Matrix: Solid

Date Received: 08/17/18 15:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060_PSEP		1	282945	08/30/18 18:53	SPP	TAL SEA
Total/NA	Analysis	D 2216		1	284355	09/19/18 13:47	BAH	TAL SEA
Total/NA	Analysis	Moisture 70C		1	283856	09/04/18 13:37	HJM	TAL SEA
Total/NA	Analysis	D7928/D6913		1	283164	09/04/18 13:37	A1K	TAL SEA

Client Sample ID: PDI-SG-S167

Lab Sample ID: 580-79671-1

Date Collected: 08/16/18 09:20

Matrix: Solid

Date Received: 08/17/18 15:30

Percent Solids: 45.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			285535	10/03/18 09:06	BAH	TAL SEA
Total/NA	Analysis	8270D SIM		10	285696	10/04/18 20:23	W1T	TAL SEA
Total/NA	Prep	3546	RA		285535	10/03/18 09:06	BAH	TAL SEA
Total/NA	Analysis	8270D SIM	RA	10	285848	10/06/18 17:14	ERZ	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: 580-79671-1
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: 580-79671-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
580-79671-1	PDI-SG-S167	Solid	08/16/18 09:20	08/17/18 15:30

SURFACE SEDIMENT CHAIN OF CUSTODY

TestAmerica-Seattle 5755-8th-Street-East Tacoma, WA 98424-1317 **Ph: 253-922-2310 Fax: 253-922-5047**	**Project Contact: Amy Dahl / Chelsey Cook** **Tel: (206) 438-2261 / (206) 438-2010**	**Site Contact: Jennifer Ray** **Laboratory Contact: Elaine-Walker**	**8/17/2018** COC No: 2 **Carrier: Courier** ___1___ of ___1___ COCs
Client Contact AECOM 1111 3rd Ave Suite 1600 Seattle, WA 98101 Phone: (206) 438-2700 Fax: 1+(866) 495-5288 Project Name: Portland Harbor Pre-Remedial Design Investigation and Baseline Sampling Portland, OR Project #: 60566335 Study: Surface Sediment Sample Type: SMA/Co-Loc	**Analysis Turnaround Time** Calendar (C) or Work Days (W) _____ [x] 21 days [ ] Other _____		

580-79671 Chain of Custody

Sample Identification	Sample Date	Sample Time	Matrix	QC Sample	Sampler's Initials	Total No. of Cont.	Fraction	PCB Congeners 1668A	PCDD/Fs 1613B	Grain size ASTM D7928/D6913	Total organic carbon, Total solids 9060 (104C & 70C)	Archive Archive -20 C	PAHs 8270-SIM	Sample Specific Notes:
PDI-SG-S167	8/16/2018	9:20	SS		MM	6		x	x	x	x	x	x	

Container Type: WMG=Wide Mouth Glass Jar, P=HDPE, PP=Polypropylene, AG=amber glass, G=glass, RC=Resin Column

Preservative: HCl = Hydrochloric Acid, H3PO4 = Phosphoric Acid, HNO3 = Nitric Acid

Fraction: D = Dissolved, PRT = Particulate, T = Total (unfiltered)

Sample Disposal
[ ] *Return To Client* [X] *Disposal By Lab* [X] *Archive For* **12** *Months*

Special Instructions/QC Requirements & Comments:

Separate reports for each lab.

1.7

Relinquished by:	Company: AECOM	Date/Time: 1500 8/17/18	Received by:	Company: M.E.	Date/Time: 8/17/18 1500
Relinquished by:	Company: M.E.	Date/Time: 8/17/18 1530	Received by:	Company: TAL OR	Date/Time: 8/17/18 1530
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:

SURFACE SEDIMENT
CHAIN OF CUSTODY

TestAmerica-Seattle 5755-8th-Street-East Tacoma, WA 98424-1317 **Ph: 253-922-2310 Fax: 253-922-5047**	**Project Contact: Amy Dahl / Chelsey Cook** **Tel: (206) 438-2261 / (206) 438-2010**	**Site Contact: Jennifer Ray** **Laboratory Contact: Elaine-Walker**	**8/17/2018** **Carrier: Courier**	COC No: 2 1 of 1 COCs

Client Contact	Analysis Turnaround Time
AECOM 1111 3rd Ave Suite 1600 Seattle, WA 98101 Phone: (206) 438-2700 Fax: 1+(866) 495-5288 Project Name: Portland Harbor Pre-Remedial Design Investigation and Baseline Sampling Portland, OR Project #: 60566335 Study: **Surface Sediment** Sample Type: **SMA/Co-Loc**	Calendar (C) or Work Days (W) _____ [x] 21 days [ ] Other _____

580-79671 Chain of Custody

Sample Identification	Sample Date	Sample Time	Matrix	QC Sample	Sampler's Initials	Total No. of Cont.	Fraction	PCB Congeners 1668A	PCDD/Fs 1613B	Grain size ASTM D7928/D6913	Total organic carbon, Total solids 9060 (104C & 70C)	Archive Archive -20 C	PAHs 8270-SIM	Sample Specific Notes:
PDI-SG-S167	8/16/2018	9:20	SS		MM	6		x	x	x	x	x	x	

Container Type: WMG=Wide Mouth Glass Jar, P=HDPE, PP=Polypropylene, AG=amber glass, G=glass, RC=Resin Column

Preservative: HCl = Hydrochloric Acid, H3PO4 = Phosphoric Acid, HNO3 = Nitric Acid

Fraction: D = Dissolved, PRT = Particulate, T = Total (unfiltered)

Sample Disposal

[ ] *Return To Client* [X] *Disposal By Lab* [X] *Archive For 12 Months*

Special Instructions/QC Requirements & Comments:

Separate reports for each lab.

Relinquished by:	Company: AECOM	Date/Time: 1500 8/17/18	Received by:	Company: M.E.	Date/Time: 8/17/18 1500
Relinquished by:	Company: M.E.	Date/Time: 8/17/18 1530	Received by:	Company: TAOR	Date/Time: 8/17/18 1530
Relinquished by:	Company: TAOR	Date/Time: 8/17/18 1800	Received by:	Company: SEA TA	Date/Time: 8.18.18 0958

1.7

F125 = 1.6/1.6 w/c-5.

Login Sample Receipt Checklist

Client: AECOM

Job Number: 580-79671-1

Login Number: 79671
List Number: 1
Creator: O'Connell, Jason I

List Source: TestAmerica Seattle

Question	Answer	Comment
Radioactivity wasn't checked or is </= 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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	